

New products for machining technicians

NEW High pressure chuck



HyPower – Rough

- ▲ For highly dynamic milling operations
- ▲ Best results when using tools with a HA shank
- ▲ Maximum process security, even for high-quality components
- ▲ Developed for the requirements of a wide range of markets (including tool and die production, aerospace and the automotive sector)



HyPower – Access 4,5°

- ▲ For reaming and drilling applications as well as finishing during milling operations
- ▲ Maximum flexibility when machining components critical to contours
- ▲ Developed for the requirements of a wide range of markets (including tool and die production, aerospace and the automotive sector)

NEW PSC parting blade holders and square shank holders with DirectCooling



Our new DirectCooling turning and grooving tool holders in specially tailored PSC adapters. The DirectCooling interface is perfectly adapted and the holders have been specially developed for these tools.

NEW VDI holders with DirectCooling



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

NEW Shell mill adapter



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

NEW Torsional vibration dampers with ABS connection



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

NEW BMT holders with DirectCooling



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



Solid drilling and bore machining

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

Threading

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

Turning

- 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

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



DC = DirectCooling



specially matched adapter for ThermoGrip® shrinking process



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



Collet description

▲ Type version
▲ Radial run-out accuracy

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders

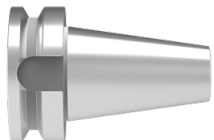


- ▲ SK 30
- ▲ SK 40
- ▲ SK 50
- ▲ SK-FC 50

▶	Toolfinder – Adapters, rotating	6+7
	Product programme	14–60

ISO 7388-2 – MAS-BT taper shank

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

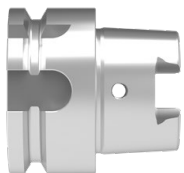


- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

▶	Toolfinder – Adapters, rotating	6+7
	MAS-BT product range	61–101 / 110+111
	MAS-BT-FC product range	102–109

HSK hollow taper adapters with face contact

ISO 12164 – HSK-A / HSK-E



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

▶	Toolfinder – Adapters, rotating	6+7
	HSK-A product range	112–152 / 156
	HSK-E product range	153–155

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

▶	Toolfinder – Adapters, stationary	37+9
	Product programme	193–195

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

PSC, rotating



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

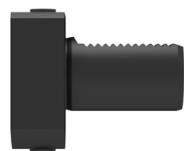
▶	Toolfinder – Adapters, rotating	6+7
	Product programme	157–176

PSC, stationary

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

▶	Toolfinder – Adapters, stationary	37+9
	Product programme	198–204

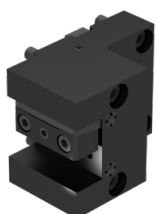
ISO 10889 – VDI tool holders with cylindrical shank



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

▶	Toolfinder – Adapters, stationary	10+11
	Product programme	205–226
	Driven Tools	303+304





























BMT tool holders



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
























▶	Toolfinder – Adapters, stationary – BMT tool holders	12
	Product programme	227–240

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										
ER Precision Collet chuck										
▲ Centro-P			14–16	61–63	102	112–114	153+154	157		252
▲ HDC			17	64	103	115				
HyPower – High Pressure Milling Chuck										
			18–21	65–68	105	116–119		158		
HyTens – Hydraulic chuck										
			22+23	69+70	120–122	120+122		177		248+249
Heat Shrink Adapter										
			30–29	71–75	104	123–130	155	159–161	178	247
Micro-Precision Collet Chuck										
										250
High										
Cylindrical shank adapter										
▲ Weldon			30–32	76+78	106	131+132		162	179	251
▲ Whistle Notch			33+34	79+80		133		163	180+181	
Indexable insert drill adapter										
			42	81		134		164		
Collet Chuck										
▲ Precision Collet chuck – PCC			36	82		135				
▲ ER Collet chuck			37+38	83	107	136+137		165+166	182	253+254
Short drill chuck										
			39	84		138		167	183	243
Quick change tapping chuck										
▲ With minimum length compensation			40+41	85+86		139		168	184	244
▲ with length compensation			42	87		140		169	183	245
ABS adapters										
			43+44	45	88–90	108	141+142	170+171	187–191	 84 232 ...
Compensation holder DAH										
			The DAH length compensation chucks are available in our online shop. Technical information on the products can be found on page 315 .							

Main Application		Finishing		Roughing - Finishing		Roughing
Extended application						





Toolfinder – Adaptors, rotating


Holder Type	ISO 7388-1		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
	SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
<div style="display: flex; justify-content: space-around; align-items: center;">         </div>										
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Accuracy</p> <p>Medium</p> </div> <div style="text-align: center;">    </div> </div>										
Adapter for milling cutters with threaded end			46+47	91		143+144		172		255+256
Face mill adapter										
▲ Combination shell mill adapter			48	92		145		186		
▲ Shell mill adapter			49-51	93-95	109	146-148		173	185	
▲ Large diameter facemill adapter			52	96						
Drill chuck adapter									242	
Taper adapter for Morse taper			53	97		149		174	242	
Adapter										
▲ SK			54							
▲ MAS-BT				98						
▲ HSK-A			55	99		150				
▲ PSC			56	100		151		202+203		
Blank			57	101		152		175	192	
Test bar			57	101		152		176		

Main Application		Finishing		Roughing - Finishing		Roughing
Extended application						


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





Toolholders for negative turning inserts


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


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

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




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


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





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


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




Toolholders for positive turning inserts


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






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


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

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

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

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

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

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



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

Holders for grooving and threading inserts

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

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

Toolholders for threading inserts

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

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

Boring bars for negative inserts

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

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

Boring bars for positive inserts

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

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

Basic holder

Type	Illustration	Direct Cooling	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°			194+195	196 198
Square shank holder 45°			194+195	197 199
Square shank holder 90°			194+195	197 198
Square shank holder 2 face 0°				199
Square shank holder 3 face 0°			195	199
Boring bar holder			195	200

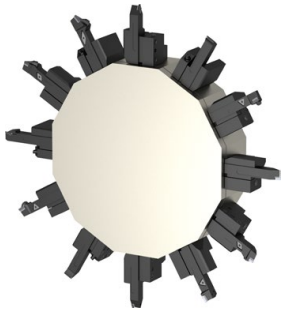
Parting blade holders

Type	Illustration	Direct Cooling	HSK-T ISO 12164	PSC ISO 26623
Parting blade holder 0°			193	196 198
Parting blade holder 90°			193	196 198

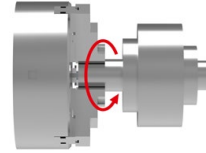
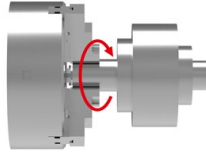
Accessories





Protection plug		204
Hollow nose keys		204





Toolfinder – Stationary adapters – VDI adapters for star turrets







Toolholders above







Upper turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double 208 216+217	double – overhead 208 216+217
 Adapter VDI to VDI	Left-hand 222	Left-hand 222
 Boring bar holder	Left-hand 222	Left-hand 222

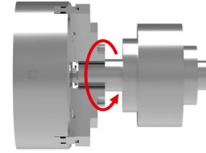
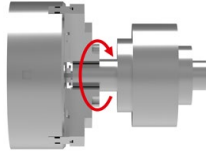
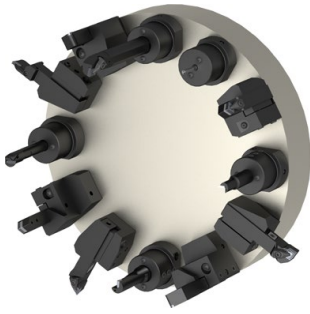
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double – overhead 208 216+217	double 208 216+217
 Adapter VDI to VDI	Right-hand 222	Right-hand 222
 Boring bar holder	Right-hand 222	Right-hand 222



Toolholders below



Upper turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double 208 216+217	double – overhead 208 216+217
 Adapter VDI to VDI	Right-hand 222	Right-hand 222
 Boring bar holder	Right-hand 222	Right-hand 222

Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double – overhead 208 216+217	double 208 216+217
 Adapter VDI to VDI	Left-hand 222	Left-hand 222
 Boring bar holder	Left-hand 222	Left-hand 222










Toolfinder – Stationary adapters – VDI adapters for disc turrets








Upper turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters / DirectCooling	B1/B5/C1/C2/D1	205–207 209–212	B3/B7/C3/C4/D2	205–207 209–212
 Part Off Holder	Right-hand	208 216+217	Overhead right	208 216+217

Lower turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters / DirectCooling	B4/B8/C3/C4/D2	205–207 209–212	B2/B6/C1/C2/D1	205–207 209–212
 Part Off Holder	Overhead left	208 216+217	Left-hand	208 216+217








General VDI adapters








 Cylindrical Shank Adapters	E/E1/E2/E3/E4			212–214
 Taper Adapters	F1			215
 Short drill chuck	NC 2010			218
 ER Collet chuck				215
 Hydraulic chuck				219
 VDI to PSC adapter				223
 VDI to HSK-T adapter				224
 VDI adapter with ABS-N connection	This article can be found in our online shop at cuttingtools.ceratizit.com			 84 231 ...








Accessories








 Test arbors				220
 Tool holders				220
 Bar pullers				225
 Gripper accessories				226
 Protection plug				226






Toolfinder – Adaptors, stationary – BMT tool holders








Doosan/Spinner – BMT 45			
	Axial square section tool holder	Left-hand	 227
	Square section adapter	Left-hand	 227
	Square multiple tool holder		 228
	Combi tool holder	with thro' coolant	228








Mori/Seiki – BMT 40			
	Axial square section tool holder	Left-hand	 235
	Square section adapter	Left-hand	 235
	Square multiple tool holder		 236
	Combi tool holder	with thro' coolant	236

Doosan – BMT 55			
	Axial square section tool holder	Left-hand	 229
	Square section adapter	Left-hand	 229
	Square multiple tool holder		 230
	Boring bar holder	with thro' coolant	230























Mori/Seiki – BMT 60			
	Axial square section tool holder	Left-hand	 237
	Square section adapter	Left-hand	 237
	Square multiple tool holder		 238
	Combi tool holder	with thro' coolant	238

EMAG – BMT 55			
	Axial square section tool holder	Left-hand	 231
	Square section adapter	Left-hand	 231
	Boring bar holder	with thro' coolant	232

Mazak – BMT 68			
	Axial square section tool holder	Left-hand	 239
	Square section adapter	Left-hand	 239
	Square multiple tool holder		 240
	Combi tool holder	with thro' coolant	240

HAAS/Doosan – BMT 65			
	Axial square section tool holder	Left-hand	 233
	Square section adapter	Left-hand	 233
	Square multiple tool holder		 234
	Combi tool holder	with thro' coolant	234

Toolfinder – accessories

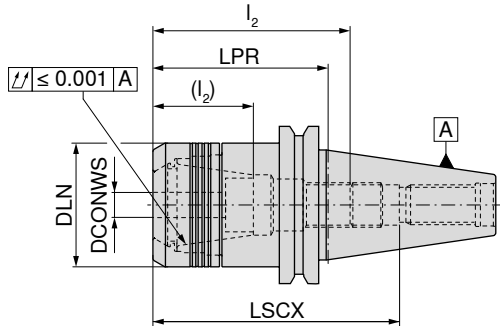
Type		Page No.	Type		Page No.	
Pull stud	SK	58–60	Spare parts for VDI		264–266	
	MAS-BT	110+111		Spare parts driven tools		267
	PSC	176			Quick change applications	
Coolant pipe/key	HSK-A	156	Reduction sleeve and reducing bushings			282+283
	PSC	176		3D tester and zero setting device		299+300
Drill chuck with internal taper		241	Cleaning propeller			302
Tap clamping sleeve for Weldon adapters		246		TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		294–298
Extension for Shell mill arbors		262	Assembly device for SK, HSK and PSC adapters			284
Milling adapter ring		263		MultiChange – Holder		259–261
Lock nuts ER-Standard and ER-Mini		287	MultiChange key			293
Y clamping key and ER-Mini clamping key		287		Cool-jet		301
Spare parts Centro-P		285	Taper wiper			284
Roll key		286				
ER collets		268–278				
Sealing discs		280+281				

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

84 424 ...

£
Y8



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

84 414 ...

£
Y8

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet	£		£	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	296.33	016		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	244.82	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	301.49	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			304.86	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			336.47	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			276.86	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	226.23	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	301.49	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			331.33	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			349.05	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	297.62	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	211.13	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	301.49	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			331.33	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			349.05	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	339.04	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	565.05	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			502.64	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			567.09	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			498.22	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			923.71	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			508.54	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			421.56	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			518.38	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			595.06	26900

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

→ Transmittable torque moments, Page 313



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

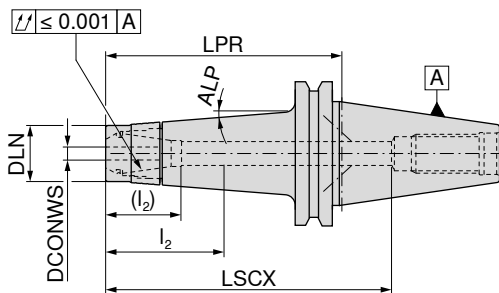
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	96.95	011	72.00	001	60.14	341	40.28	337
430E (ER25)	108.06	013	80.00	003	42.31	432	30.17	431
470E (ER32)	115.55	015	88.00	005	35.73	402	26.03	401
472E (ER40)	158.03	017	128.02	007			36.47	400

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°	329.91	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)	3.5°	290.47	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2.5°	395.83	910

→ Transmittable torque moments, Page 313

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

Spare parts for collet	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	119.03	033	100.56	031	60.14	341	40.28	337

Accessories

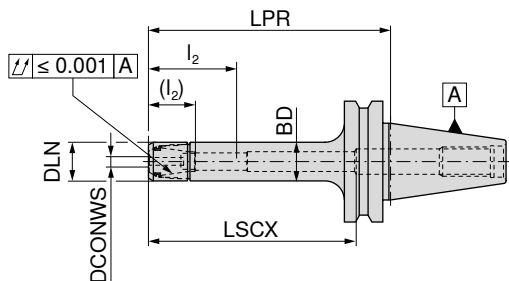
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 286	→ 286	→ 58, 60	→ 284

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



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

84 412 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	£	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	308.86	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	318.75	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	411.70	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	429.90	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	308.86	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	308.86	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	411.70	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	411.70	510

→ Transmittable torque moments, Page 313



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

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
4008E (ER11)	Y8		100.56	041	57.32	340	38.17	336
426E (ER16)	97.92	035	80.34	034	60.14	341	40.28	337

Accessories

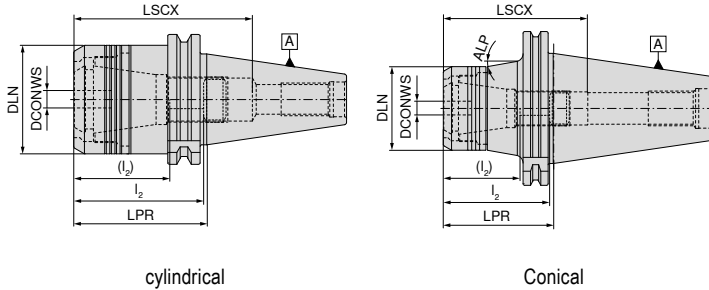
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 58, 60	→ 284

ER precision collet chuck – HDC

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

Scope of supply:

Base body including lock nut, without backstop screw



AD
G 6,3 n_{max} 18000

cylindrical



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 ... £ Y8	84 400 ... £ Y8
SK 40	2 - 20	65	53	85	41 - 65 (27 - 47)		470E (ER32)	412.55	12079
SK 50	2 - 20	70	53	91	41 - 71 (27 - 53)	10	470E (ER32)		663.10 12078
SK 50	2 - 20	100	53	121	41 - 74 (27 - 56)	10	470E (ER32)		774.48 22078

→ Transmittable torque moments, Page 313



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

Spare parts

DCONWS	Lock nut	Stop screw 2	Stop screw 1
2 - 20	84 950 ... £ Y8 134.15 30100	83 950 ... £ Y8 35.73 402	83 950 ... £ Y8 26.03 401

Accessories

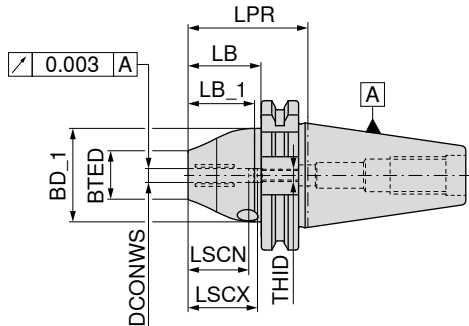
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 58, 60	→ 284

HyPower – Rough

- ▲ High pressure chuck – especially for milling
- ▲ Ideal for HSC and HPC applications
- ▲ High temperature resistance
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 254 ...

£	
Y8	
691.08	10679
691.08	10879
691.08	11079
691.08	11279
691.08	11679
691.08	12079

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
SK 40	6	50.0	26	42	27.1	30.9	37	27	M5
SK 40	8	50.0	28	42	27.1	30.9	37	27	M6
SK 40	10	50.0	30	42	27.1	30.9	41	31	M8x1
SK 40	12	50.0	32	49	27.1	30.9	46	36	M10x1
SK 40	16	64.5	38	49	41.6	45.4	49	39	M12x1
SK 40	20	64.5	38	49	41.6	45.4	51	41	M16x1

→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS		£			£			£	
		Y7			Y8			Y7	
6	SW5	8.11	050	M10x12	13.60	55000	M5x12,5 - SW2,5	25.16	418
8	SW5	8.11	050	M10x12	13.60	55000	M6x12,5 - SW3	25.16	419
10	SW5	8.11	050	M10x12	13.60	55000	M8x1x13,5 - SW3	25.16	420
12	SW5	8.11	050	M10x12	13.60	55000	M10x1x13,5 - SW5	25.16	421
16	SW5	8.11	050	M10x12	13.60	55000	M12x1x13,5 - SW5	25.16	422
20	SW5	8.11	050	M10x12	13.60	55000	M16x1x13,5 - SW8	29.02	424

Accessories

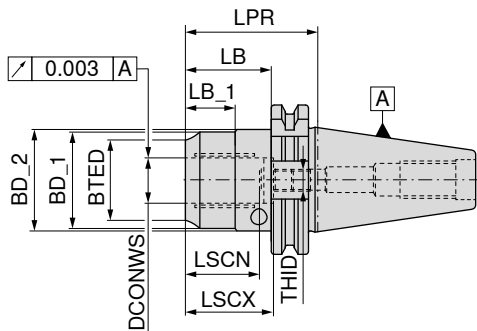
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

HyPower – Complus

- ▲ 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

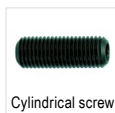


AD/B
G 2,5 n_{max} 25000

83 427 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	£	
SK 40	20	64.5	38					51	40	M16x1x13,5	450.95	120
SK 40	32	81.0	57	63	70	61.9	26	61	51	M16x1x13,5	544.37	13279
SK 50	20	64.5	38	49		45.4		51	41	M16x1x13,5	646.71	12078
SK 50	32	81.0	57	68	72	61.9	35	61	51	M16x1x13,5	646.71	13278

→ Min. clamping depth, Page 312



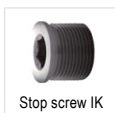
Cylindrical screw



Clamping key – T



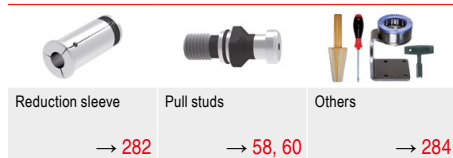
Pressure screw



Stop screw IK

Spare parts for Article no.	£		£		£		£						
	Y7		Y7		Y7		Y7						
83 427 13279		M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 427 12078		M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 427 13278		M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424

Accessories



Reduction sleeve

Pull studs

Others

→ 282

→ 58, 60

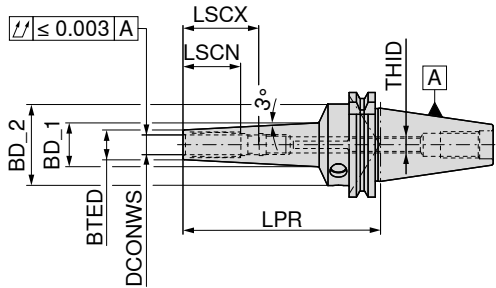
→ 284

HyPower – Access 3°

- ▲ 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	LPR	BTED	BD_1	BD_2	LSCX	LSCN	THID	£	
										mm	mm
medium length	SK 40	3	120	9	17.40	49.5	28	12	M3	860.56	103
	SK 40	4	120	10	18.40	49.5	28	16	M3	860.56	104
	SK 40	5	120	11	19.40	49.5	28	20	M3	860.56	105
	SK 40	6	120	12	20.40	49.5	37	27	M5	734.05	106
	SK 40	8	120	14	22.40	49.5	37	27	M6	734.05	108
	SK 40	10	120	16	24.50	49.5	41	31	M8x1	734.05	110
	SK 40	12	120	18	26.60	49.5	46	36	M10x1	734.05	112
	SK 40	16	120	24	32.30	49.5	49	39	M12x1	1,062.45	116
	SK 40	20	120	28	36.40	49.5	51	41	M16x1	1,062.45	120
	SK 40	6	160	16	34.37	49.5	37	27	M5	1,056.80	206
	SK 40	8	160	18	35.45	49.5	37	27	M6	1,056.80	208
	SK 40	10	160	20	37.10	49.5	41	31	M8x1	1,056.80	210
	SK 40	12	160	22	38.72	49.5	46	36	M10x1	1,056.80	212
	SK 40	6	200	16	38.72	49.5	37	27	M5	1,250.89	306
	SK 40	8	200	18	39.74	49.5	37	27	M6	1,250.89	308
	SK 40	10	200	20	41.40	49.5	41	31	M8x1	1,250.89	310
	SK 40	12	200	22	43.02	49.5	46	36	M10x1	1,250.89	312

→ Min. clamping depth, Page 312



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

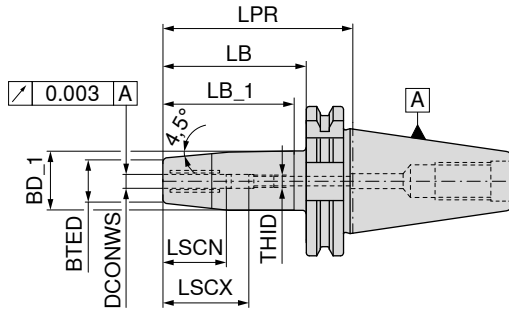
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...					
	£	Y7	£	Y7	£	Y7	£	Y7				
83 421 103	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172
83 421 104	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172
83 421 105	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172
83 421 106	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M5x12,5 - SW2,5	25.16	418
83 421 108	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M6x12,5 - SW3	25.16	419
83 421 110	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420
83 421 112	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M10x1x13,5 - SW5	25.16	421
83 421 116	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M12x1x13,5 - SW5	25.16	422
83 421 120	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M16x1x13,5 - SW8	29.02	424
83 421 206	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M5x12,5 - SW2,5	25.16	418
83 421 208	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M6x12,5 - SW3	25.16	419
83 421 210	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420
83 421 212	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420
83 421 306	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M5x12,5 - SW2,5	25.16	418
83 421 308	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x10	22.91	158	M6x12,5 - SW3	25.16	419
83 421 310	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420
83 421 312	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420

HyPower – Access 4.5°

- ▲ High pressure chuck with slim contour, original dimensions of a 4.5° shrink contour
- ▲ Especially for reaming and drilling applications
- ▲ Ideal for tool and die production
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 255 ...

£
Y8

Adapter	DCONWS	LPR	BTED	BD_1	LB_1	LB	LSCX	LSCN	THID	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SK 40	6	80	21	27	55.7	60.9	37	27	M5	827.03 10679
SK 40	8	80	21	27	55.7	60.9	37	27	M6	827.03 10879
SK 40	10	80	24	32	55.7	60.9	41	31	M8x1	827.03 11079
SK 40	12	80	24	32	55.7	60.9	46	36	M10x1	827.03 11279
SK 40	16	80	27	34	55.8	60.9	49	39	M12x1	827.03 11679
SK 40	20	80	33	42	57.2	60.9	51	41	M16x1	827.03 12079

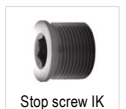
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts									
DCONWS									
6	SW5	8.11	050	M10x12	13.60	55000	M5x12,5 - SW2,5	25.16	418
8	SW5	8.11	050	M10x12	13.60	55000	M6x12,5 - SW3	25.16	419
10	SW5	8.11	050	M10x12	13.60	55000	M8x1x13,5 - SW3	25.16	420
12	SW5	8.11	050	M10x12	13.60	55000	M10x1x13,5 - SW5	25.16	421
16	SW5	8.11	050	M10x12	13.60	55000	M12x1x13,5 - SW5	25.16	422
20	SW5	8.11	050	M10x12	13.60	55000	M16x1x13,5 - SW8	29.02	424

Accessories

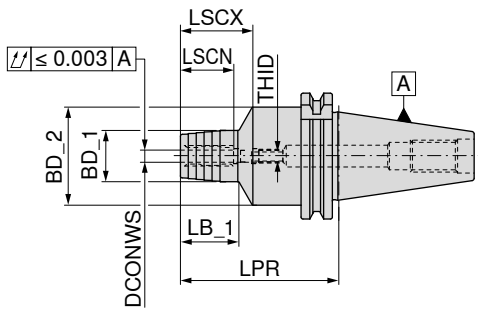
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

HyTens – Fit

- ▲ 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

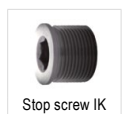
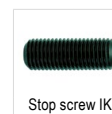


AD/B
G 2,5 n_{max} 25000

83 402 ...

Adapter	DCONWS	LPR	BD_1	BD_2	LSCX	LSCN	LB_1	THID	£	
SK 40	6	80.5	26	49.5	37	27	29.5	M5	876.59	106
SK 40	8	80.5	28	49.5	37	27	30.0	M6	876.59	108
SK 40	10	80.5	30	49.5	41	31	35.0	M8x1	876.59	110
SK 40	12	80.5	32	49.5	46	36	40.0	M10x1	766.28	112
SK 40	16	80.5	38	49.5	49	39	45.0	M12x1	876.59	116
SK 40	20	80.5	42	49.5	51	41	47.0	M16x1	766.28	120
SK 40	25	80.5	55	63.0	57	47	28.0	M16x1	876.59	125
SK 40	32	80.5	63	70.0	61	51	25.5	M16x1	876.59	132
SK 50	6	80.5	26	49.5	37	27	29.5	M5	1,226.81	306
SK 50	8	80.5	28	49.5	37	27	30.0	M6	1,226.81	308
SK 50	10	80.5	30	49.5	41	31	35.0	M8x1	1,226.81	310
SK 50	12	80.5	32	49.5	46	36	40.0	M10x1	1,114.58	312
SK 50	16	80.5	38	49.5	49	39	45.0	M12x1	1,226.81	316
SK 50	20	80.5	42	49.5	51	41	42.0	M16x1	1,114.58	320
SK 50	25	100.0	55	63.0	57	47	48.0	M16x1	1,226.81	325
SK 50	32	100.0	63	70.0	61	51	51.0	M16x1	1,226.81	332

→ Min. clamping depth, Page 312



Spare parts	83 950 ...		83 950 ...		83 950 ...					
	£		£		£					
DCONWS	Y7		Y7		Y7					
6		M8x1x10	17.42	439		M5x12,5 - SW2,5	25.16	418		
8		M8x1x10	17.42	439	M6x14 - SW2	25.16	417	M6x12,5 - SW3	25.16	419
10		M10x1x12	17.42	440				M8x1x13,5 - SW3	25.16	420
12		M10x1x12	17.42	440				M10x1x13,5 - SW5	25.16	421
16		M10x1x12	17.42	440				M12x1x13,5 - SW5	25.16	422
20 - 32		M10x1x12	17.42	440				M16x1x13,5 - SW8	29.02	424

Accessories

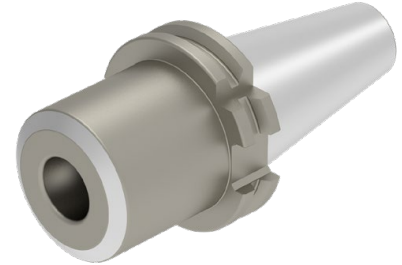
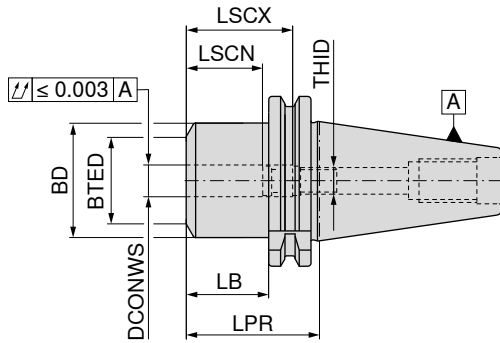


HyTens – Compact

- ▲ Hydraulic chuck, short and stable version
- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 430 ...

£
Y8

395.61 01279

395.61 02079

707.06 02078

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

→ Min. clamping depth, Page 312



80 397 ...

£

Y7

8.11

050



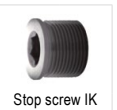
83 950 ...

£

Y7

17.42

440



83 950 ...

£

Y7

25.16

420

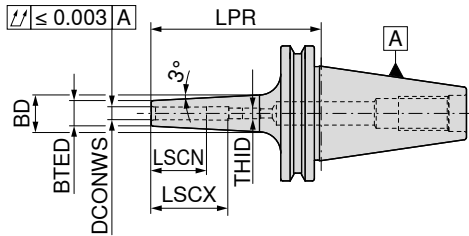
Spare parts

DCONWS							
12	SW5	8.11	050	M10x1x12	17.42	440	M8x1x13,5 - SW3
20	SW5	8.11	050	M10x1x12	17.42	440	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

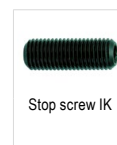


AD/B
G 2,5 n_{max} 25000

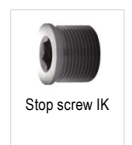
84 320 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		£	
		mm	mm	mm	mm	mm	mm			Y8	
short	SK 40	3	80	9	14	28	12	M6		672.01	103
	SK 40	4	80	10	15	28	16	M6		652.80	104
	SK 40	5	80	11	16	30	20	M6		652.80	105
	SK 40	6	80	12	17	36	26	M5		571.19	106
	SK 40	8	80	14	19	36	26	M6		571.19	108
	SK 40	10	80	16	21	41	31	M8x1		571.19	110
	SK 40	12	80	18	23	47	37	M10x1		571.19	112
	SK 40	14	80	20	26	47	37	M10x1		571.19	114
	SK 40	16	80	22	28	50	40	M12x1		571.19	116
	SK 40	18	80	24	30	50	40	M12x1		571.19	118
SK 40	20	80	26	32	52	42	M16x1		571.19	120	
medium length	SK 40	3	120	9	16	12	12			753.61	203
	SK 40	4	120	10	17	16	16			734.40	204
	SK 40	5	120	11	18	20	20			734.40	205
	SK 40	6	120	12	22	36	26	M5		657.61	206
	SK 40	8	120	14	24	36	26	M6		657.61	208
	SK 40	10	120	16	26	41	31	M8x1		657.61	210
	SK 40	12	120	18	28	47	37	M10x1		657.61	212
	SK 40	14	120	20	30	47	37	M10x1		657.61	214
	SK 40	16	120	22	32	50	40	M12x1		657.61	216
	SK 40	18	120	24	34	50	40	M12x1		657.61	218
SK 40	20	120	26	36	52	42	M16x1		657.61	220	
extra-long	SK 40	3	160	9	19	12	12			854.41	303
	SK 40	4	160	10	20	16	16			835.20	304
	SK 40	5	160	11	21	20	20			835.20	305
	SK 40	6	160	12	24	36	26	M5		758.43	306
	SK 40	8	160	14	26	36	26	M6		758.43	308
	SK 40	10	160	16	28	41	31	M8x1		758.43	310
	SK 40	12	160	18	30	47	37	M10x1		758.43	312
	SK 40	14	160	20	32	47	37	M10x1		758.43	314
	SK 40	16	160	22	34	50	40	M12x1		758.43	316
	SK 40	18	160	24	36	50	40	M12x1		758.43	318
SK 40	20	160	26	38	52	42	M16x1		758.43	320	

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

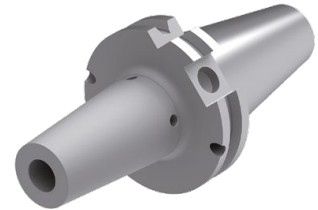
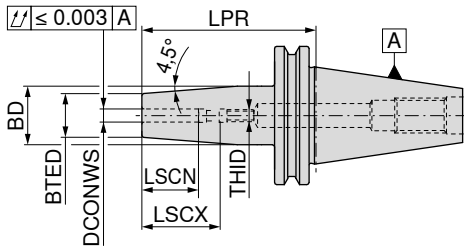
Spare parts
DCONWS

		£		£	
		Y7		Y7	
3 - 5	M6x14 - SW2	25.16	417		
6				M5x12,5 - SW2,5	25.16 418
8				M6x12,5 - SW3	25.16 419
10				M8x1x13,5 - SW3	25.16 420
12 - 14				M10x1x13,5 - SW5	25.16 421
16 - 18				M12x1x13,5 - SW5	25.16 422
20				M16x1x13,5 - SW8	29.02 424

Shrink fit adapters 4.5°

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

TG



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

84 300 ...

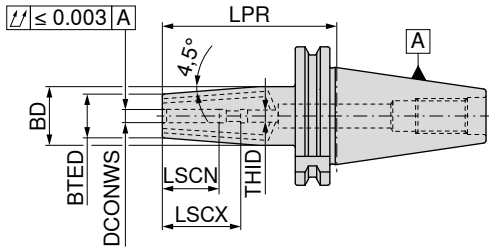
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		£ Y8	
short	SK 40	3	80	10	17	22	12	M6		257.42	103
	SK 40	4	80	15	22	26	16	M6		257.42	104
	SK 40	5	80	15	22	30	20	M6		257.42	105
	SK 40	6	80	21	27	36	26	M5		246.81	106
	SK 40	8	80	21	27	26	26	M6		246.81	108
	SK 40	10	80	24	32	41	31	M8x1		246.81	110
	SK 40	12	80	24	32	47	37	M10x1		246.81	112
	SK 40	14	80	27	34	47	37	M10x1		246.81	114
	SK 40	16	80	27	34	50	40	M12x1		246.81	116
	SK 40	18	80	33	42	50	40	M12x1		246.81	118
	SK 40	20	80	33	42	52	42	M16x1		246.81	120
SK 40	25	100	44	53	58	48	M16x1		246.81	125	
medium length	SK 40	3	120	10	20	12	12			317.58	203
	SK 40	4	120	15	22	16	16			319.12	204
	SK 40	5	120	15	22	20	20			319.12	205
	SK 40	6	120	21	27	36	26	M5		318.70	206
	SK 40	8	120	21	27	36	26	M6		318.70	208
	SK 40	10	120	24	32	41	31	M8x1		318.70	210
	SK 40	12	120	24	32	47	37	M10x1		318.70	212
	SK 40	14	120	27	34	47	37	M10x1		318.70	214
	SK 40	16	120	27	34	50	40	M12x1		318.70	216
	SK 40	18	120	33	42	50	40	M12x1		318.70	218
	SK 40	20	120	33	42	52	42	M16x1		318.70	220
SK 40	25	120	44	53	58	48	M16x1		595.20	225	
extra-long	SK 40	3	160	10	20	12	12			432.57	303
	SK 40	4	160	15	22	16	16			422.62	304
	SK 40	5	160	15	22	20	20			422.62	305
	SK 40	6	160	21	27	36	26	M5		381.05	306
	SK 40	8	160	21	27	36	26	M6		381.05	308
	SK 40	10	160	24	32	41	31	M8x1		381.05	310
	SK 40	12	160	24	32	47	37	M10x1		381.05	312
	SK 40	14	160	27	34	47	37	M10x1		381.05	314
	SK 40	16	160	27	34	50	40	M12x1		381.05	316
	SK 40	18	160	33	42	50	40	M12x1		381.05	318
	SK 40	20	160	33	42	52	42	M16x1		381.05	320
SK 40	25	160	44	53	58	48	M16x1		381.05	325	

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG

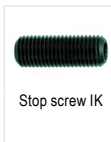


AD/B – 2KMB
G 2,5 n_{max} 25000

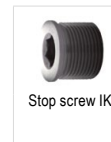
84 317 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
		mm	mm	mm	mm	mm	mm	mm	£	
short	SK 40	3	80	10	17	28	12	M6	682.74	103
	SK 40	4	80	15	22	28	16	M6	660.69	104
	SK 40	5	80	15	22	30	20	M6	660.69	105
	SK 40	6	80	21	27	36	26	M5	581.21	106
	SK 40	8	80	21	27	36	26	M6	581.21	108
	SK 40	10	80	24	32	41	31	M8x1	581.21	110
	SK 40	12	80	24	32	47	37	M10x1	581.21	112
	SK 40	14	80	27	34	47	37	M10x1	581.21	114
	SK 40	16	80	27	34	50	40	M12x1	581.21	116
	SK 40	18	80	33	42	50	40	M12x1	581.21	118
	SK 40	20	80	33	42	52	42	M16x1	581.21	120
	SK 40	25	100	44	53	58	48	M16x1	581.21	125
	SK 40	32	100	44	53	62	52	M16x1	581.21	132

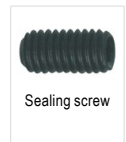
→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK



Sealing screw

Spare parts DCONWS	83 950 ...		83 950 ...		83 950 ...	
	£		£		£	
3 - 5	Y7	25.16	417	M6x14 - SW2	2.02	512
6					2.02	512
8					2.02	512
10					2.02	512
12 - 14					2.02	512
16 - 18					2.02	512
20 - 25					2.02	512
32	Y7	20.19	511	M16x1 - SW5	2.02	512

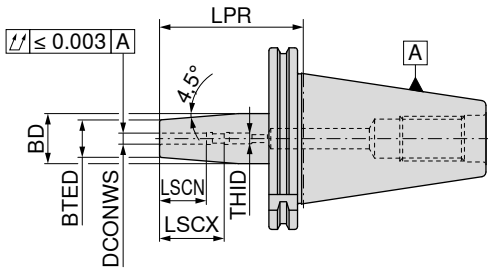
Accessories

Shrink fit extension	Pull studs	Others
→ 247	→ 58, 60	→ 284

Shrink fit adapters 4.5°

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

TG

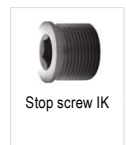


AD/B
G 2,5 n_{max} 25000

84 301 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		£	
		mm	mm	mm	mm	mm	mm	mm		Y8	
short	SK 50	6	80	21	27	36	26	M5		424.60	106
	SK 50	8	80	21	27	36	26	M6		424.60	108
	SK 50	10	80	24	32	41	31	M8x1		424.60	110
	SK 50	12	80	24	32	47	37	M10x1		424.60	112
	SK 50	14	80	27	34	47	37	M10x1		424.60	114
	SK 50	16	80	27	34	50	40	M12x1		424.60	116
	SK 50	18	80	33	42	50	40	M12x1		424.60	118
	SK 50	20	80	33	42	52	42	M16x1		424.60	120
	SK 50	25	100	44	53	58	48	M16x1		424.60	125
	SK 50	32	100	44	53	62	52	M16x1		424.60	132
medium length	SK 50	6	120	21	27	36	26	M5		468.40	206
	SK 50	8	120	21	27	36	26	M6		468.40	208
	SK 50	10	120	24	32	41	31	M8x1		468.40	210
	SK 50	12	120	24	32	47	37	M10x1		468.40	212
	SK 50	14	120	27	34	47	37	M10x1		468.40	214
	SK 50	16	120	27	34	50	40	M12x1		468.40	216
	SK 50	18	120	33	42	50	40	M12x1		468.40	218
	SK 50	20	120	33	42	52	42	M16x1		468.40	220
	SK 50	25	120	44	53	58	48	M16x1		468.40	225
	SK 50	32	120	44	53	62	52	M16x1		468.40	232
extra-long	SK 50	6	160	21	27	36	26	M5		521.92	306
	SK 50	8	160	21	27	36	26	M6		521.92	308
	SK 50	10	160	24	32	41	31	M8x1		521.92	310
	SK 50	12	160	24	32	47	37	M10x1		521.92	312
	SK 50	14	160	27	34	47	37	M10x1		521.92	314
	SK 50	16	160	27	34	50	40	M12x1		521.92	316
	SK 50	18	160	33	42	50	40	M12x1		521.92	318
	SK 50	20	160	33	42	52	42	M16x1		521.92	320
	SK 50	25	160	44	53	58	48	M16x1		521.92	325
	SK 50	32	160	44	53	62	52	M16x1		521.92	332

→ Min. clamping depth, Page 312



Spare parts
DCONWS

		£	
		Y7	
6	M5x12,5 - SW2,5	25.16	418
8	M6x12,5 - SW3	25.16	419
10	M8x1x13,5 - SW3	25.16	420
12 - 14	M10x1x13,5 - SW5	25.16	421
16 - 18	M12x1x13,5 - SW5	25.16	422
20 - 32	M16x1x13,5 - SW8	29.02	424

83 950 ...

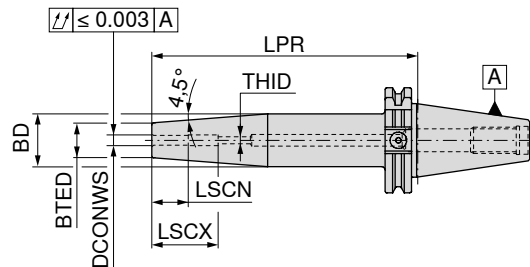
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG



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

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
									£	
short	SK 40	3	70	12	17.0				237.86	10379
	SK 40	4	70	12	17.0				237.86	10479
	SK 40	5	70	12	17.0				237.86	10579
	SK 40	6	80	21	30.5	36	26	M5	227.29	10679
	SK 40	8	80	21	30.5	36	26	M6	227.29	10879
	SK 40	10	80	24	33.5	41	31	M8x1	227.29	11079
	SK 40	12	80	24	33.5	47	37	M10x1	227.29	11279
	SK 40	14	80	27	36.5	47	37	M10x1	227.29	11479
	SK 40	16	80	27	36.5	50	40	M12x1	227.29	11679
	SK 40	18	80	33	42.5	50	40	M12x1	227.29	11879
	SK 40	20	80	33	42.5	52	42	M16x1	227.29	12079
	SK 40	25	100	44	50.0	58	48	M16x1	227.29	12579
	SK 50	6	80	21	27.0	36	26	M5	280.93	10678
	SK 50	8	80	21	27.0	36	26	M6	280.93	10878
	SK 50	10	80	24	32.0	41	31	M8x1	280.93	11078
	SK 50	12	80	24	32.0	47	37	M10x1	280.93	11278
	SK 50	14	80	27	34.0	47	37	M10x1	280.93	11478
	SK 50	16	80	27	34.0	50	40	M12x1	280.93	11678
SK 50	18	80	33	42.0	50	40	M12x1	280.93	11878	
SK 50	20	80	33	42.0	52	42	M12x1	280.93	12078	
SK 50	25	100	44	53.0	58	48	M16x1	280.93	12578	
SK 50	32	100	44	53.0	62	52	M16x1	280.93	13278	
medium length	SK 40	3	120	12	17.0				286.77	20379
	SK 40	4	120	12	17.0				286.77	20479
	SK 40	5	120	12	17.0				286.77	20579
	SK 40	6	120	21	31.0	36	26	M5	286.77	20679
	SK 40	8	120	21	32.0	36	26	M6	286.77	20879
	SK 40	10	120	24	34.0	41	31	M8x1	286.77	21079
	SK 40	12	120	24	34.0	47	37	M10x1	286.77	21279
	SK 40	16	120	27	36.0	50	40	M12x1	286.77	21679
	SK 40	20	120	33	44.0	52	42	M16x1	286.77	22079
	SK 50	6	120	21	27.0	36	26	M5	308.51	20678
	SK 50	8	120	21	27.0	36	26	M6	308.51	20878
	SK 50	10	120	24	32.0	41	31	M8x1	308.51	21078
	SK 50	12	120	24	32.0	47	37	M10x1	308.51	21278
	SK 50	14	120	27	34.0	47	37	M10x1	308.51	21478
	SK 50	16	120	27	34.0	50	40	M12x1	308.51	21678
	SK 50	18	120	33	42.0	50	40	M12x1	308.51	21878
	SK 50	20	120	33	42.0	52	42	M16x1	308.51	22078
	SK 50	25	120	44	53.0	58	48	M16x1	308.51	22578
	SK 50	32	120	44	53.0	62	52	M16x1	308.51	23278

→ Min. clamping depth, Page 312

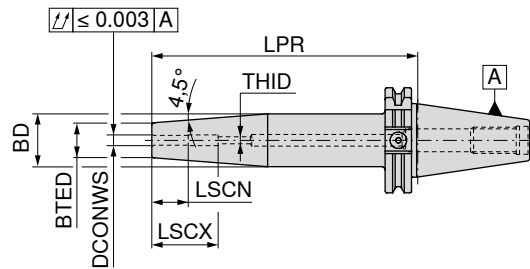
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG



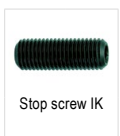
AD/B
G 2,5 n_{max} 25000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
									£	
extra-long	SK 40	6	160	21	31.0	36	26	M5	341.92	30679
	SK 40	8	160	21	32.0	36	26	M6	341.92	30879
	SK 40	10	160	24	34.0	41	31	M8x1	341.92	31079
	SK 40	12	160	24	34.0	47	37	M10x1	341.92	31279
	SK 40	14	160	27	36.0	47	37	M10x1	341.92	31479
	SK 40	16	160	27	36.0	50	40	M12x1	341.92	31679
	SK 40	18	160	33	44.0	50	40	M12x1	341.92	31879
	SK 40	20	160	33	44.0	52	42	M16x1	341.92	32079
	SK 40	25	160	44	50.0	58	48	M16x1	341.92	32579
	SK 50	6	160	21	27.0	36	26	M5	342.69	30678
	SK 50	8	160	21	27.0	36	26	M6	342.69	30878
	SK 50	10	160	24	32.0	41	31	M8x1	342.69	31078
	SK 50	12	160	24	32.0	47	37	M10x1	342.69	31278
	SK 50	14	160	27	34.0	47	37	M10x1	342.69	31478
	SK 50	16	160	27	34.0	50	40	M12x1	342.69	31678
	SK 50	18	160	33	42.0	50	40	M12x1	342.69	31878
	SK 50	20	160	33	42.0	52	42	M16x1	342.69	32078
	SK 50	25	160	44	53.0	58	48	M16x1	342.69	32578
	SK 50	32	160	44	53.0	62	52	M16x1	342.69	33278

Y8/3B

→ Min. clamping depth, Page 312



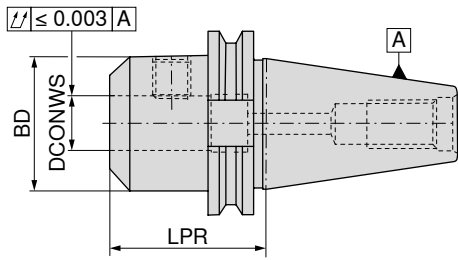
82 950 ...

Spare parts

DCONWS		£	
6	M5x16 - SW2,5	5.32	30000
8	M6x16 - SW3	5.39	30100
10	M8x1x16 - SW4	5.74	30200
12	M10x1x14 - SW5	6.07	30300
14	M10x1x14 - SW5	6.07	30300
16	M12x1x16 - SW6	6.40	30400
18	M12x1x16 - SW6	6.40	30400
20	M16x1x16 - SW8	6.73	30500
25	M16x1x16 - SW8	6.73	30500
32	M16x1x16 - SW8	6.73	30500

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 25000

82 741 ...

£
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
short	SK 30	6	50	25	169.35	10680
	SK 30	8	50	28	154.31	10880
	SK 30	10	50	35	154.31	11080
	SK 30	12	50	42	154.31	11280
	SK 30	14	63	44	154.31	11480
	SK 30	16	63	48	154.31	11680
	SK 30	18	63	50	154.31	11880
	SK 30	20	70	52	184.79	12080
extra short	SK 40	16	35	48	91.12	01679
	SK 40	20	35	50	91.12	02079
	SK 40	25	40	50	99.59	02579
	SK 40	32	75	72	125.86	03279 ¹⁾

1) Version with two grub screws

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




62 950 ...


Spare parts

DCONWS		£ W7	
6	M6x10	1.16	006
8	M8x10	1.16	008
10	M10x12	2.22	010
12	M12x16	1.76	012
14	M12x16	1.76	012
16	M14x16	2.18	016
18	M14x16	2.18	016
20	M16x16	2.32	020
25	M18x2x20	4.48	025
32	M20x2x20	4.68	032

Accessories



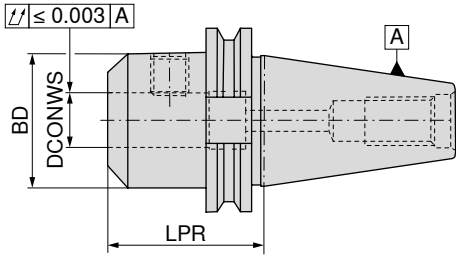
Coolant transfer pipe
→ 156



Others
→ 284

Cylindrical shank adapter (Weldon)

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



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

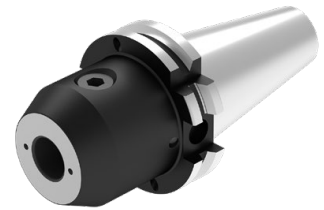
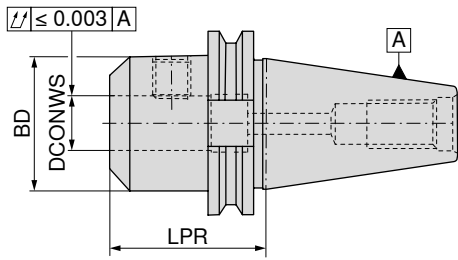
82 740 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
					£	Y8
short	SK 40	6	50	25	84.31	10679
	SK 40	8	50	28	84.31	10879
	SK 40	10	50	35	79.58	11079
	SK 40	12	50	42	79.58	11279
	SK 40	14	50	44	79.58	11479
	SK 40	16	63	48	86.16	11679
	SK 40	18	63	50	86.16	11879
	SK 40	20	63	52	86.16	12079
	SK 40	25	100	65	94.53	12579 ¹⁾
	SK 40	32	100	72	102.83	13279 ¹⁾
	SK 40	40	120	80	112.47	14079 ¹⁾
short	SK 50	6	63	25	126.80	10678
	SK 50	8	63	28	126.80	10878
	SK 50	10	63	35	121.35	11078
	SK 50	12	63	42	121.35	11278
	SK 50	14	63	44	121.35	11478
	SK 50	16	63	48	121.72	11678
	SK 50	18	63	50	121.72	11878
	SK 50	20	63	52	121.72	12078
	SK 50	25	80	65	133.08	12578 ¹⁾
	SK 50	32	100	72	134.94	13278 ¹⁾
	SK 50	40	100	80	140.82	14078 ¹⁾
medium length	SK 40	6	100	25	87.89	20679
	SK 40	8	100	28	87.89	20879
	SK 40	10	100	35	82.97	21079
	SK 40	12	100	42	82.97	21279
	SK 40	14	100	44	82.41	21479
	SK 40	16	100	48	91.12	21679
	SK 40	18	100	50	90.72	21879
	SK 40	20	100	52	91.12	22079
	SK 50	6	100	25	140.43	20678
	SK 50	8	100	28	140.43	20878
SK 50	10	100	35	134.78	21078	
SK 50	12	100	42	134.78	21278	
SK 50	14	100	44	134.78	21478	
SK 50	16	100	48	135.14	21678	
SK 50	18	100	50	135.14	21878	
SK 50	20	100	52	135.14	22078	
	SK 50	25	100	65	143.08	22578 ¹⁾

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



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

82 740 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	£	
long	SK 40	6	130	25	97.15	30679
	SK 40	8	130	28	97.15	30879
	SK 40	10	130	35	91.47	31079
	SK 40	12	130	42	91.47	31279
	SK 40	14	130	44	91.47	31479
	SK 40	16	130	48	93.20	31679
	SK 40	18	130	50	93.20	31879
	SK 40	20	130	52	93.20	32079
	SK 50	6	130	25	151.39	30678
	SK 50	8	130	28	151.39	30878
	SK 50	10	130	35	148.56	31078
	SK 50	12	130	42	148.56	31278
	SK 50	14	130	44	148.56	31478
	SK 50	16	130	48	148.76	31678
	SK 50	18	130	50	148.76	31878
	SK 50	20	130	52	148.76	32078
	SK 50	25	130	65	152.71	32578 ¹⁾
	extra-long	SK 40	6	160	25	101.12
SK 40		8	160	28	101.12	40879
SK 40		10	160	35	95.82	41079
SK 40		12	160	42	95.82	41279
SK 40		14	160	44	95.82	41479
SK 40		16	160	48	96.20	41679
SK 40		18	160	50	96.20	41879
SK 40		20	160	52	96.20	42079
SK 40		25	160	65	102.83	42579 ¹⁾
SK 50		6	160	25	157.41	40678
SK 50		8	160	28	157.41	40878
SK 50		10	160	35	157.07	41078
SK 50		12	160	42	157.07	41278
SK 50		14	160	44	157.07	41478
SK 50		16	160	48	157.99	41678
SK 50		18	160	50	157.99	41878
SK 50		20	160	52	157.99	42078
SK 50		25	160	65	157.60	42578 ¹⁾
SK 50	32	160	72	158.38	43278 ¹⁾	

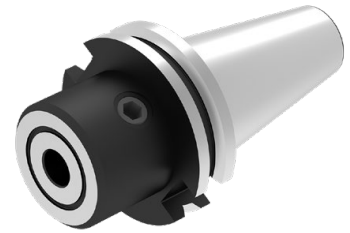
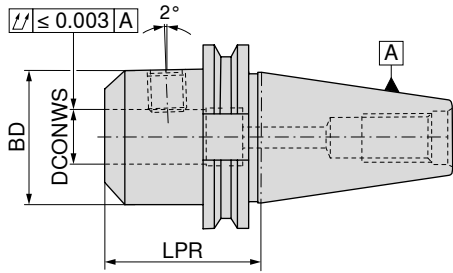
1) Version with two grub screws

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

Spare parts and accessories on → **Page 34.**

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**



NEW







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

82 742 ...

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	£	Y8
short	SK 40	6	50	25	103.98	10679
	SK 40	8	50	28	103.98	10879
	SK 40	10	50	35	96.39	11079
	SK 40	12	50	42	96.39	11279
	SK 40	14	50	44	96.39	11479
	SK 40	16	63	48	105.82	11679
	SK 40	18	63	50	105.82	11879
	SK 40	20	63	52	105.82	12079
	SK 40	25	100	65	134.58	12579 ¹⁾
	SK 40	32	100	72	126.41	13279 ¹⁾
	SK 50	6	63	25	177.41	10678
	SK 50	8	63	28	177.41	10878
	SK 50	10	63	35	169.52	11078
	SK 50	12	63	42	169.52	11278
	SK 50	14	63	44	169.52	11478
	SK 50	16	63	48	170.53	11678
	SK 50	18	63	50	170.53	11878
	SK 50	20	63	52	170.53	12078
SK 50	25	80	65	185.97	12578 ¹⁾	
SK 50	32	100	72	188.99	13278 ¹⁾	
long	SK 40	6	130	25	131.00	30679
	SK 40	8	130	28	131.00	30879
	SK 40	10	130	35	123.43	31079
	SK 40	12	130	42	123.43	31279
	SK 40	16	130	48	131.73	31679
	SK 40	20	130	52	131.73	32079
	SK 40	25	130	65	157.60	32579 ¹⁾
	SK 50	6	130	25	206.11	30678
	SK 50	8	130	28	206.11	30878
	SK 50	10	130	35	198.39	31078
	SK 50	12	130	42	198.39	31278
	SK 50	16	130	48	200.23	31678
	SK 50	20	130	52	200.23	32078
	SK 50	25	130	65	209.97	32578 ¹⁾
	SK 50	32	130	72	209.97	33278 ¹⁾

1) Version with two grub screws

Spare parts cylindrical shank adaptors (Weldon and Whistle Notch)

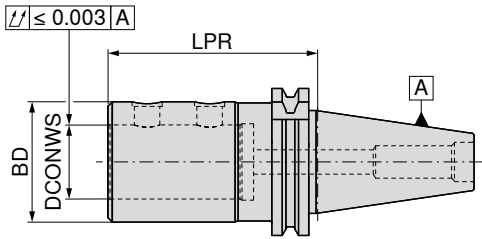
				
	10 950 ...	62 950 ...	62 950 ...	84 950 ...
Spare parts	£	£	£	£
DCONWS _{H4}	W7/6B	W7/6B	W7	Y8
6			M6x10 1.16 006	M5x20 15.50 44100
8			M8x10 1.16 008	M6x20 5.38 21500
10			M10x12 2.22 010	M8x16 15.50 44200
12 - 14	M10X20 DIN 913 3.26 17500		M12x16 1.76 012	
16 - 18			M14x16 2.18 016	M12x20 15.50 44300
20		M16x20 - SW8 1.28 51200	M16x16 2.32 020	
25			M18x2x20 4.48 025	M20x24 15.50 44000
32			M20x2x20 4.68 032	M20x24 15.50 44000

Accessories

	
Pull studs	Others
→ 58, 60	→ 284

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



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

82 748 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
SK 40	20	80	40	266.53	12079
SK 40	25	85	45	266.53	12579
SK 40	32	90	52	266.53	13279
SK 50	20	80	40	338.53	12078
SK 50	25	85	45	338.53	12578
SK 50	32	90	52	338.53	13278
SK 50	40	90	65	338.53	14078
SK 50	50	100	75	338.53	15078

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



10 950 ...

Spare parts	DCONWS	£	
20	M10x1x10	4.64	001
25 - 32	M12x1x10	4.64	002
40 - 50	M16x1x12	4.64	003

Accessories

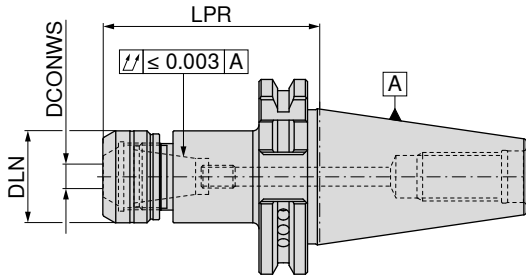
Pull studs	Others
→ 58, 60	→ 284

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



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

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	£ Y8	
SK 40	1 - 10	70	30	426E (ER16)	227.17	11079
SK 40	1 - 10	100	30	426E (ER16)	327.25	21079
SK 40	2 - 16	70	40	430E (ER25)	227.17	11679
SK 40	2 - 16	100	40	430E (ER25)	327.25	21679
SK 40	2 - 20	70	50	470E (ER32)	227.17	12079
SK 40	2 - 20	100	50	470E (ER32)	327.25	22079
SK 50	2 - 16	70	40	430E (ER25)	427.98	11678
SK 50	2 - 16	100	40	430E (ER25)	531.51	21678
SK 50	2 - 20	70	50	470E (ER32)	427.98	12078
SK 50	2 - 20	100	50	470E (ER32)	531.51	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	11000	£ Y8	01000	£ Y8	00200	£ Y8	00100
426E (ER16)	86.35		81.37		11.07		8.13	
430E (ER25)	86.35	11600	81.37	01600	11.07	00200	8.13	00300
470E (ER32)	86.35	12000	81.37	02000	11.07	00200	8.13	00300

Accessories

ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

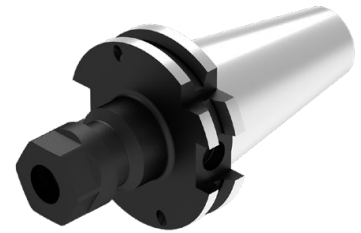
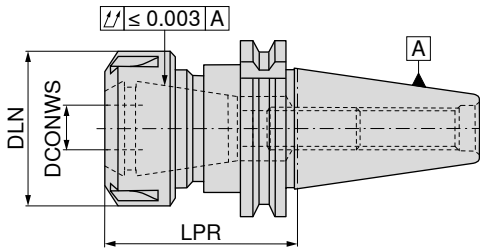
Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
82 950 ...	82 950 ...	82 950 ...	82 950 ...
£ Y8	£ Y8	£ Y8	£ Y8

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000

82 743 ...
£
Y8
174.89 11080¹⁾
174.89 11680
174.89 12080











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


82 743 ...
£
Y8
223.90 11179
117.72 11079¹⁾
123.05 11679
123.43 12079
128.31 12679

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	1 - 10	70	28	8 - 56	426E (ER16)		
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 40	1 - 10	60	22	8 - 56	426E (ER16 mini)		223.90 11179
	SK 40	1 - 10	60	28	8 - 56	426E (ER16)		117.72 11079 ¹⁾
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		123.05 11679
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		123.43 12079
	SK 40	3 - 26	70	63	176	472E (ER40)		128.31 12679
	SK 50	1 - 10	60	28	8 - 56	426E (ER16)		158.94 11078 ¹⁾
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		165.55 11678
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		168.34 12078
	SK 50	3 - 26	70	63	176	472E (ER40)		172.37 12678
medium length	SK 30	1 - 10	100	28	8 - 56	426E (ER16)	244.38	21080 ¹⁾
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	244.38	21680
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	244.38	22080
	SK 40	1 - 10	120	28	8 - 56	426E (ER16)		129.09 21079 ¹⁾
	SK 40	1 - 10	120	22	8 - 56	426E (ER16 mini)		223.90 21179
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		134.41 21679
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		134.78 22079
	SK 40	3 - 26	100	63	176	472E (ER40)		161.85 22679
	SK 50	1 - 10	100	28	8 - 56	426E (ER16)		152.71 21078 ¹⁾
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		158.94 21678
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		169.18 22078
	SK 50	3 - 26	100	63	176	472E (ER40)		177.41 22678
extra-long	SK 40	1 - 10	160	28	8 - 56	426E (ER16)		201.91 41079 ¹⁾
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		201.91 41679
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		201.91 42079
	SK 40	3 - 26	160	63	176	472E (ER40)		233.47 42679
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		173.21 41678
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		190.83 42078


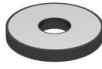


1) with 6 position lock nut

Spare parts ER collet chucks

	 Lock nut	 Lock nut IK	 Lock nut	 Y clamping key	 ER Mini clamping key	 Mini lock nut	 Mini IK	 Stop screw IK				
	62 950 ...	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	84 950 ...				
Spare parts for collet	£ W7	£ Y8	£ W7	£ Y8	£ Y8	£ W7	£ Y8	£ Y8				
426E (ER16 mini)					49.71	101	46.66	066	112.26	058	45.25	44600
426E (ER16)	33.81	044									45.25	44600
430E (ER25)		101.40	055	28.01	055	29.58	125				45.25	44400
470E (ER32)		108.45	056	35.87	65600	43.08	132				45.25	44400
472E (ER40)		130.50	057	34.86	65700	48.80	140				45.25	44500

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

Accessories

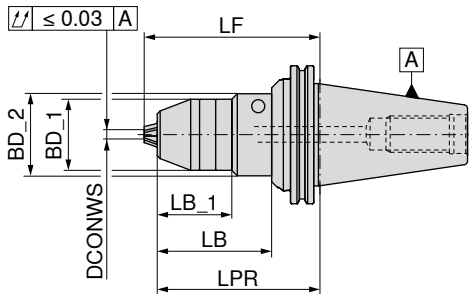
 ER collet	 Sealing ring	 Pull studs	 Others
→ 271–276, 279	→ 280	→ 58, 60	→ 284

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A G 6,3 n_{max} 10000 AD G 6,3 n_{max} 10000

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LF mm	84 418 ... £ Y8	313	84 419 ... £ Y8	
SK 30	0,5 - 10	80	43.0			59.9	89.0	562.65			
SK 40	0,5 - 13	80	48.5			60.8	89.0	562.65	413	510.46	413
SK 40	2,5 - 16	80	51.0			60.0	90.5			501.29	416
SK 40	2,5 - 16	80	51.0			60.8	90.5	466.26	416		
SK 50	0,5 - 13	110	48.5	56	50.9	78.0	119.0			759.84	513
SK 50	0,5 - 13	110	48.5	56	50.9	78.1	119.0	663.46	513		
SK 50	2,5 - 16	110	51.0	56	50.9	78.0	120.5			698.47	516
SK 50	2,5 - 16	110	56.0		50.9	78.0	120.5	663.46	516		

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

Accessories



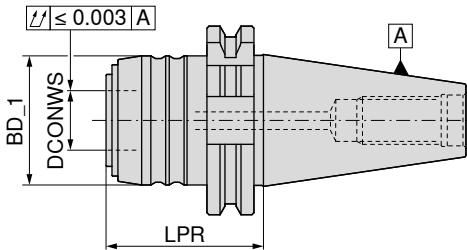
Others
→ 284

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	363.24	012
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	471.18	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	394.57	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	610.71	120

Accessories

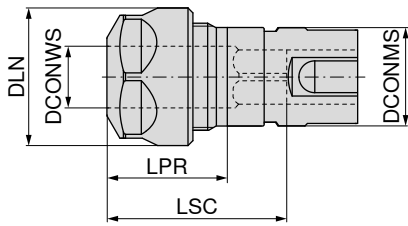
	
Pull studs	Others
→ 58, 60	→ 284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



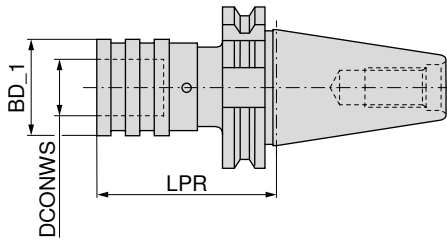
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ...	
								£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	Y8	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	247.61	288.42

1) with 6 position lock nut

Spare parts for Article no.	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
83 608 012	W7	044	Y8	054	W7	054	Y8	116
83 608 020	33.81		101.40		26.90		29.58	
		M22x1,5 - SW25		M32x1,5		M22x1,5		M32x1,5

Quick change tap chuck with length compensation

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






A

83 428 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	£	
SK 30	M3 - M12	01	60	38	19	9	Y8	
SK 30	M6 - M20	02	101	55	31	15	614.38	312
							698.00	320
SK 40	M3 - M12	01	60	38	19	9	474.48	412
SK 40	M6 - M20	02	100	55	31	15	514.16	420
SK 50	M3 - M12	01	62	38	19	9	708.64	512
SK 50	M6 - M20	02	83	55	31	15	767.62	520

Accessories

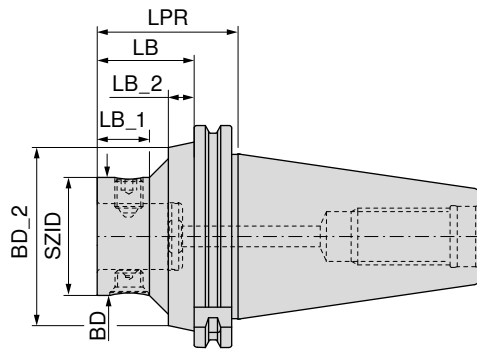
		
Collet	Pull studs	Others
→ 288, 290-292	→ 58, 60	→ 284

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



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

84 201 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	LB_2	BD_2	£	
			mm	mm	mm	mm	mm	mm	3E	
SK 40	A50 55120	ABS 25	25	50	30.9	20.0	7.9	50	236.35	04090
SK 40	A50 55130	ABS 32	32	50	30.9	20.0	7.9	50	236.35	04089
SK 40	A50 55140	ABS 40	40	50	30.9	20.0		50	236.35	04088
SK 40	A50 55150	ABS 50	50	50	30.9				236.35	04097
SK 40	A50 55160	ABS 63	63	90	70.9		15.9	50	236.35	04096
SK 50	A50 55320	ABS 25	25	60	40.9	20.0	12.9	80	266.52	05090
SK 50	A50 55330	ABS 32	32	60	40.9	20.0	12.9	80	266.52	05089
SK 50	A50 55340	ABS 40	40	60	40.9	20.0	12.9	80	266.52	05088
SK 50	A50 55350	ABS 50	50	60	40.9	22.0	10.9	80	266.52	05097
SK 50	A50 55360	ABS 63	63	60	40.9	30.4	7.3	80	266.52	05096
SK 50	A50 55370	ABS 80	80	70	50.9				266.52	05092
SK 50	A50 55380	ABS 100	100	115	95.9		15.9	80	266.52	05091

Conversion kit – Cooling agent supply



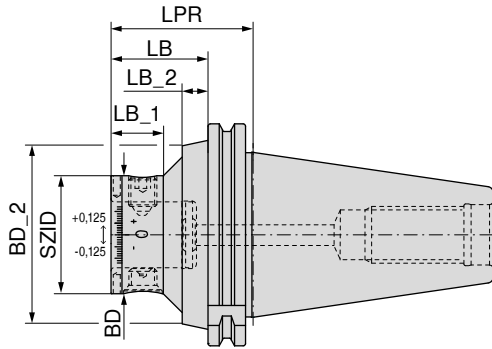
		84 950 ...
for	Adapter	£
		W7/6B
4 mm	SK 40	7.30 23200
6 mm	SK 50	7.30 23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



AD/B

84 204 ...

£
W4/6A
636.91 04097
819.82 04096

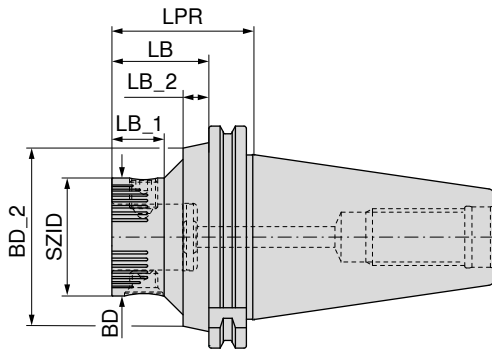
Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	LB_2	BD_2
			mm	mm	mm	mm	mm	mm
SK 40	A50 56150	ABS 50	50	50	30.9			
SK 40	A50 56160	ABS 63	63	90	70.9		15.9	50
SK 50	A50 56350	ABS 50	50	60	40.9	22.0	10.9	80
SK 50	A50 56360	ABS 63	63	60	40.9	30.4	7.3	80

Torsional vibration dampers with ABS Connection

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

Scope of supply:

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



AD/B

84 207 ...

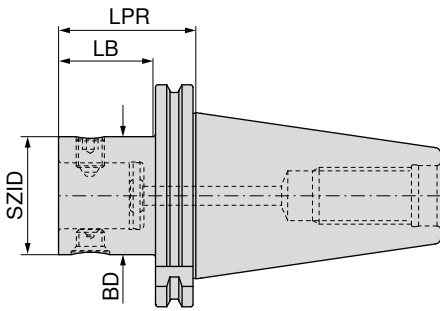
£
3E
648.50 04097
772.19 04096

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

Adapter with ABS Connection – SK-FC

▲ with face contact

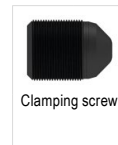
▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

84 264 ...
£
Y8
1,648.33 05073
1,692.53 06373
1,718.35 08073
1,736.96 10073

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

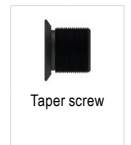


Clamping screw

84 950 ...

£
XX

11.49 20300	14.59 20400
10.93 25500	13.87 27300
13.45 25600	16.36 25100
16.56 25700	18.17 25200



Taper screw

84 950 ...

£
XX

Spare parts

SZID

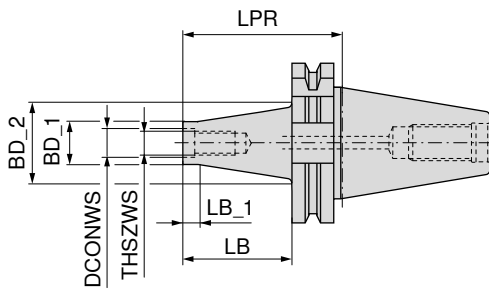
ABS 50
ABS 63
ABS 80
ABS 100

Accessories

Pull studs	Extension	Others
→ 58, 60	→ 187	→ 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000



AD
G 16 n_{max} 8000

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR
		mm	mm	mm	mm	mm	mm
SK 40	M8	8.5	25	13.8	15	12	44
SK 40	M8	8.5	50	13.8	23	12	69
SK 40	M8	8.5	75	13.8	25	12	94
SK 40	M10	10.5	25	18.0	23	12	44
SK 40	M10	10.5	50	18.0	25	12	69
SK 40	M10	10.5	75	18.0	30	12	94
SK 40	M10	10.5	100	18.0	35	12	119
SK 40	M12	12.5	25	21.0	24	12	44
SK 40	M12	12.5	50	21.0	30	12	69
SK 40	M12	12.5	75	21.0	35	12	94
SK 40	M12	12.5	100	21.0	38	12	119
SK 40	M16	17.0	25	29.0	29	12	44
SK 40	M16	17.0	50	29.0	34	12	69
SK 40	M16	17.0	75	29.0	35	12	94
SK 40	M16	17.0	100	29.0	40	12	119
SK 40	M16	17.0	125	29.0	44	12	144
SK 40	M16	17.0	150	29.0	48	12	169
SK 40	M16	17.0	200	29.0	50	12	219
SK 50	M12	12.5	50	21.0	30	12	69
SK 50	M12	12.5	100	21.0	38	12	119
SK 50	M12	12.5	150	21.0	52	12	169
SK 50	M16	17.0	50	29.0	34	12	69
SK 50	M16	17.0	100	29.0	40	12	119
SK 50	M16	17.0	150	29.0	48	12	169
SK 50	M16	17.0	200	29.0	58	12	219
SK 50	M16	17.0	250	29.0	62	12	269

56 705 ...

£
WA

257.26 081
263.55 082
269.65 083
257.26 101
263.55 102
269.65 103
275.92 104

56 707 ...

£
WA

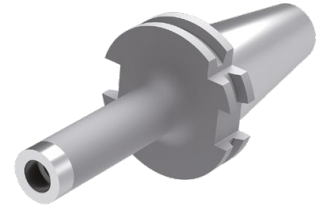
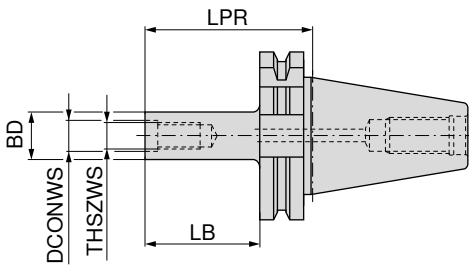
365.11 122
377.47 124
389.83 126
365.11 162
371.18 164
383.56 166
395.91 167
408.49 168

Accessories

Extension-Reduction set → 257	Pull studs → 58, 60	Others → 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 709 ...

Adapter	THSZWS	DCONWS	LB	BD	LPR		
		mm	mm	mm	mm		
SK 40	M8	8.5	50	13.8	69		
SK 40	M10	10.5	50	18.0	69	279.96	102
SK 40	M10	10.5	75	18.0	94	286.24	103
SK 40	M10	10.5	100	18.0	119	292.55	104
SK 40	M12	12.5	50	21.0	69	279.96	122
SK 40	M12	12.5	75	21.0	94	286.24	123
SK 40	M12	12.5	100	21.0	119	292.55	124
SK 40	M16	17.0	50	29.0	69	279.96	162
SK 40	M16	17.0	75	29.0	94	286.24	163
SK 40	M16	17.0	100	29.0	119	292.55	164

Accessories

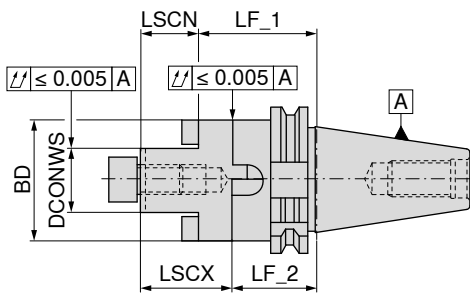
Extension-Reduction set → 257	Pull studs → 58, 60	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS	LF_1	BD	LSCX	LSCN	LF_2		
		mm	mm	mm	mm	mm	mm		£
short	SK 30	16	50	32	27	17	40		169.35 11680
	SK 30	22	50	40	31	19	38		169.35 12280
	SK 30	27	55	48	33	21	43		179.92 12780
	SK 30	32	60	58	38	24	46		190.33 13280
	SK 40	16	55	32	27	17	45		116.42 11679
	SK 40	22	55	40	31	19	43		120.98 12279
	SK 40	27	55	48	33	21	43		123.43 12779
	SK 40	32	60	58	38	24	46		130.43 13279
	SK 40	40	60	70	41	27	46		137.23 14079 ¹⁾
	SK 50	16	55	32	27	17	45		174.72 11678
	SK 50	22	55	40	31	19	43		180.76 12278
	SK 50	27	55	48	33	21	43		194.86 12778
	SK 50	32	55	58	38	24	41		200.23 13278
	SK 50	40	55	70	41	27	41		206.11 14078 ¹⁾
	SK 50	50	70	90	46	30	54		225.07 15078 ¹⁾
	medium length	SK 40	16	100	32	27	17	90	
SK 40		22	100	40	31	19	88		161.65 22279
SK 40		27	100	48	33	21	88		164.67 22779
SK 40		32	100	58	38	24	86		173.55 23279
SK 40		40	100	70	41	27	86		182.95 24079

1) With cross screw

	Parallel key	Drive ring	Cross nut key	Cross screw	clamping screw	
	83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...	
Spare parts	£ Y8/3B	£ Y8	£ Y8	£ Y8	£ Y8/3B	
DCONWS						
16	4 x 4 x 20	4.37 284	16.18 116	26.72 116	M8x25	7.53 113
22	6 x 6 x 25	4.37 285	15.51 122	33.25 122	M10x25	8.50 124
27	7 x 7 x 25	6.94 286	19.35 127	39.10 127	M12x30	9.39 125
32	8 x 7 x 28	4.95 287	20.31 132	53.28 132	M16x35	11.43 126
40	10 x 8 x 32	5.84 288	34.21 140	52.92 140	M20x40 - SW17	12.61 112
50	12 x 8 x 36	5.84 289	68.82 150	75.42 150		

Accessories

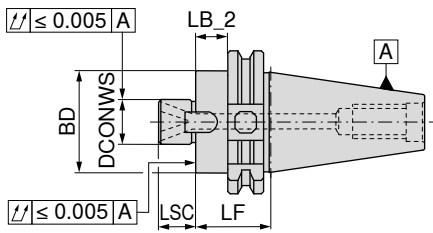
Pull studs	Milling Adapter Rings	Others
→ 58, 60	→ 263	→ 284

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



NEW



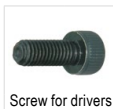
AD
G 2,5 n_{max} 25000

82 315 ...

£	
Y8/3B	
123.53	12279
120.45	12779
169.97	12278
172.90	12778

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

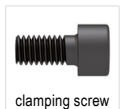
i These shell mill adapters have been specially developed for MaxiMill 211-KN porcupine cutters. Now they can be clamped perfectly, thanks to the adapted flange diameters.



Screw for drivers



Driver



clamping screw

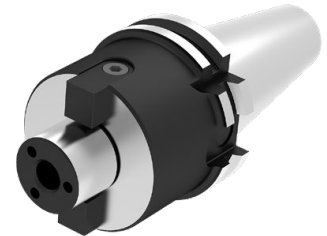
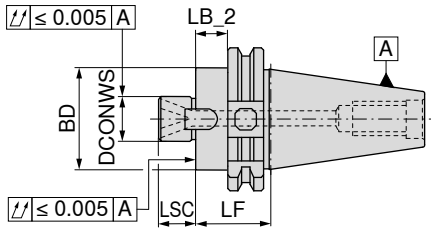
Spare parts	DCONWS		£	83 950 ...	£	83 950 ...	£	83 950 ...		
	22	M4x8	0.80	51700	10x7x20,5	11.26	51500	M10x25	8.50	124
	27	M5x8	0.98	51800	12x9x24,3	12.83	51600	M12x30	9.39	125

Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



NEW



AD

G 2,5 n_{max} 25000

82 745 ...

£
Y8

NEW



AD/B

G 2,5 n_{max} 25000

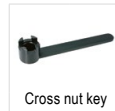
82 745 ...

£
Y8

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ...		
							£	£	
short	SK 30	16	20.9	40	38	17	159.28	11680	
	SK 30	22	30.9	50	48	19	159.28	12280	
	SK 30	27	35.9	55	58	21	169.35	12780	
	SK 30	32	30.9	50	78	24	180.60	13280	
	SK 40	16	25.0	44	38	17		116.42 11679	
	SK 40	22	25.0	44	48	19		123.43 12279	
	SK 40	27	36.0	55	58	21		125.68 12779	
	SK 40	32	31.0	50	78	24		132.31 13279	
	SK 40	40	31.0	50	88	27		143.86 14079 ¹⁾	
	SK 50	16	25.0	44	38	17		179.76 11678	
	SK 50	22	25.0	44	48	19		184.46 12278	
	SK 50	27	25.0	44	58	21		188.99 12778	
	SK 50	32	21.0	40	78	24		204.26 13278	
	SK 50	40	31.0	50	88	27		207.95 14078 ¹⁾	
	medium length	SK 40	16	81.0	100	38	17		120.39 21679
		SK 40	22	81.0	100	48	19		124.37 22279
		SK 40	27	81.0	100	58	21		126.41 22779
		SK 40	32	81.0	100	78	24		133.08 23279
		SK 40	40	81.0	100	88	27		138.92 24079 ¹⁾
		SK 50	16	81.0	100	38	17		190.83 21678
SK 50		22	81.0	100	48	19		194.86 22278	
SK 50		27	81.0	100	58	21		200.23 22778	
SK 50		32	81.0	100	78	24		206.11 23278	
SK 50		40	81.0	100	88	27		209.97 24078 ¹⁾	
long	SK 40	16	111.0	130	38	17		127.95 31679	
	SK 40	22	111.0	130	48	19		132.31 32279	
	SK 40	27	111.0	130	58	21		134.41 32779	
	SK 40	32	111.0	130	78	24		140.82 33279	
	SK 40	40	111.0	130	88	27		147.05 34079 ¹⁾	
	SK 50	16	111.0	130	38	17		202.08 31678	
	SK 50	22	111.0	130	48	19		206.11 32278	
	SK 50	27	111.0	130	58	21		211.65 32778	
	SK 50	32	111.0	130	78	24		217.52 33278	
	SK 50	40	111.0	130	88	27		221.05 34078 ¹⁾	
extra-long	SK 40	16	141.0	160	38	17		132.31 41679	
	SK 40	22	141.0	160	48	19		136.64 42279	
	SK 40	27	141.0	160	58	21		138.53 42779	
	SK 40	32	141.0	160	78	24		144.96 43279	
	SK 40	40	141.0	160	88	27		151.02 44079 ¹⁾	
	SK 50	16	141.0	160	38	17		207.95 41678	
	SK 50	22	141.0	160	48	19		213.66 42278	
	SK 50	27	141.0	160	58	21		217.52 42778	
	SK 50	32	141.0	160	78	24		223.06 43278	
	SK 50	40	141.0	160	88	27		228.77 44078 ¹⁾	

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

Spare parts facemill adapters



Cross nut key

83 368 ...



Cross screw

83 367 ...

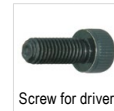


clamping screw

83 950 ...

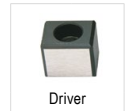
**Spare parts
DCONWS**

	£			£			£	
	Y8			Y8			Y8/3B	
16	26.72	116	M8	7.10	016	M8x25	7.53	113
22	33.25	122	M10	7.90	022	M10x25	8.50	124
27	39.10	127	M12	10.10	027	M12x30	9.39	125
32	53.28	132	M16	15.86	032	M16x35	11.43	126
40	52.92	140	M20	16.97	040	M20x40 - SW17	12.61	112



Screw for drivers

84 950 ...



Driver

84 950 ...

**Spare parts
DCONWS**

	£			£	
	Y8			Y8	
16	10.40	162	M3x12	45.97	43400
22	10.40	163	M4x10	45.97	43200
27	10.40	164	M4x16	45.97	43300
32	10.40	166	M5x16	38.31	160
40	10.40	166	M5x16	42.64	161

Accessories

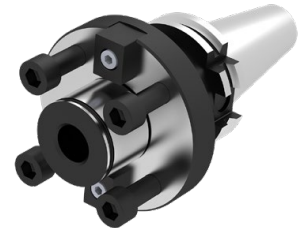
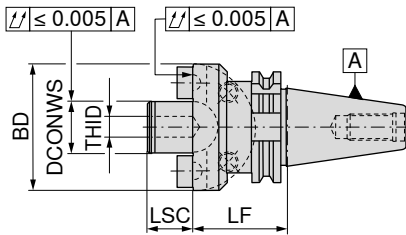
Pull studs	Extensions	Others
→ 58, 60	→ 262	→ 284

Large diameter facemill adapter

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

Scope of supply:

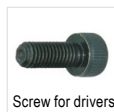
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



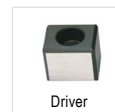
A
G 6,3 n_{max} 8000

82 432 ...
£
Y8
238.33 14079
275.93 14078
334.67 16078

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



Screw for drivers



Driver



clamping screw

Spare parts

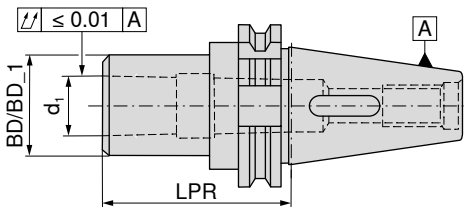
DCONWS		84 950 ...	84 950 ...	83 950 ...
		£	£	£
		Y8	Y8	Y8/3B
40	M5x16	10.40	166	16x16x23
60	M12x25	7.47	43500	25,4x25x26,5
				M12x50
				M16x45
				9.38 140
				19.27 160

Accessories

Pull studs	Others
→ 58, 60	→ 284

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

▲ also available with Balluff chip on request



NEW



AD

G 6,3 n_{max} 15000

82 746 ...

£

Y8

151.26 11080

151.26 12080

164.46 13080

102.45 12079

102.45 11079

109.41 13079

114.16 14079

140.06 11078

144.96 12078

144.96 13078

149.68 14078

162.77 15078

145.85 22079

162.10 23079

176.74 24079

	Adapter	d ₁	LPR mm	BD mm			
short	SK 30	MK1	50	25			
	SK 30	MK2	63	32			
	SK 30	MK3	80	40			
	SK 40	MK2	50	32			
	SK 40	MK1	50	25			
	SK 40	MK3	70	40			
	SK 40	MK4	95	48			
	SK 50	MK1	50	25			
	SK 50	MK2	60	32			
	SK 50	MK3	65	40			
	SK 50	MK4	95	48			
	SK 50	MK5	105	63			
	medium length	SK 40	MK2	117	32		
		SK 40	MK3	133	40		
		SK 40	MK4	156	48		

Accessories

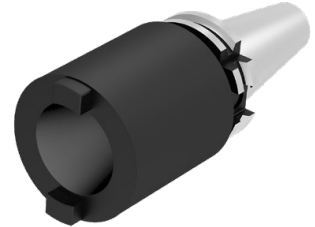
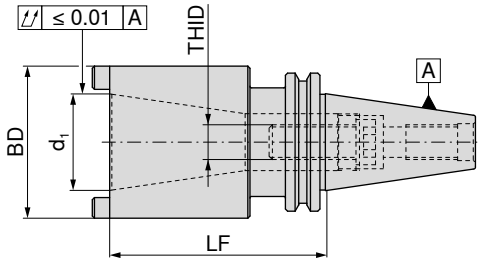
		
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 58, 60	→ 284

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



G 6,3 n_{max} 8000

84 040 ...

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	

£	
Y8	
246.56	13079
192.68	14079
262.50	14078
275.93	15078

Spare parts for Article no.

Article no.	Clamping screw SK	Clamping Screw	Counterscrew	Hollow key with nose	Threaded ring	clamping screw
84 040 13079	£ Y8/3B	£ Y8	£ Y8/3B	£ Y8/3B	£ Y8	£ Y8/3B
84 040 14079	14.17 264	7.47 43700	1.01 030	51.95 017	52.21 127	9.39 125
84 040 14078	13.23 009	7.47 43600	1.01 030	63.15 023	49.41 43800	
84 040 15078	46.61 256		1.01 030	78.41 133	49.41 43900	

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

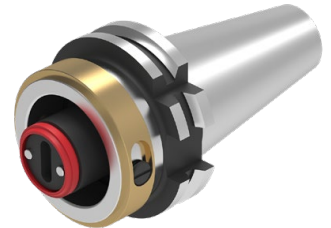
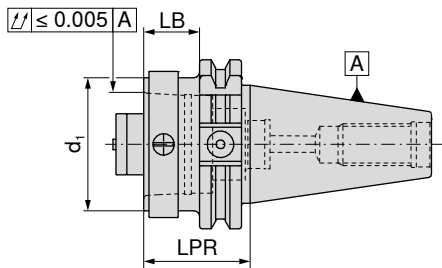
ISO 7388-1	Norm of the SK-shank		Clamping screw length	Clamping screw SK Article no.	Threaded ring Article no.	lock screw Article no.	hollow key Article no.
	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080					
Suitable for article no.			THID				
84 040 13079		SK 30	M12 x 30	83 950 125	84 950 127	83 950 030	83 359 017
84 040 14079	SK40		M16 x 70	83 950 264	84 950 43800	83 950 030	83 359 023
84 040 14079		SK40	M16 x 45	84 950 43700	84 950 43800	83 950 030	83 359 023
84 040 14078	SK40		M16 x 65	84 950 43600			
84 040 14078		SK40	M16 x 40	83 950 009			
84 040 15078	SK50		M24 x 80	83 950 256	84 950 43900	83 950 030	83 359 133
84 040 15078		SK50	M24 x 50	83 950 263	84 950 43900	83 950 030	83 359 133

SK/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

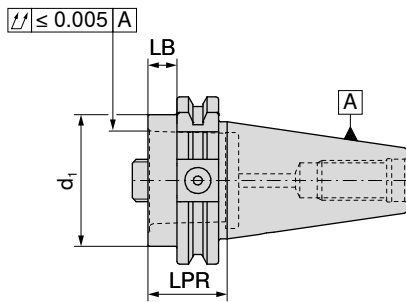
84 014 ...

Adapter	d ₁	LB	LPR	£	
		mm	mm	Y8	
SK 40	HSK-A 32	20.9	40	1,100.57	04060
SK 40	HSK-A 40	20.9	40	1,122.64	04059
SK 40	HSK-A 50	20.9	40	1,144.92	04058
SK 40	HSK-A 63	60.9	80	1,122.64	04057
SK 50	HSK-A 32	20.9	40	1,387.82	05060
SK 50	HSK-A 40	20.9	40	1,387.82	05059
SK 50	HSK-A 50	20.9	40	1,410.13	05058
SK 50	HSK-A 63	20.9	40	1,498.60	05057
SK 50	HSK-A 100	80.9	100	1,763.78	05055

SK/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 015 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	
SK 40	PSC 32	10.9	30	702.55	04087
SK 40	PSC 40	10.9	30	724.85	04095
SK 40	PSC 50	10.9	30	724.85	04094
SK 40	PSC 63	65.9	85	702.55	04093
SK 50	PSC 32	10.9	30	968.22	05087
SK 50	PSC 40	10.9	30	1,144.92	05095
SK 50	PSC 50	10.9	30	990.04	05094
SK 50	PSC 63	10.9	30	1,012.10	05093
SK 50	PSC 80	50.9	70	1,078.51	05086



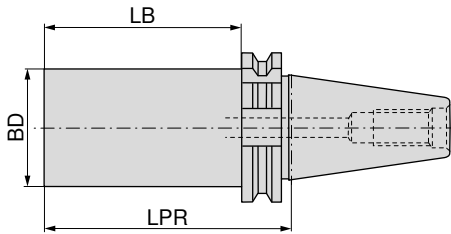
84 950 ...

84 950 ...

Spare parts	d ₁	£ Y8		£ Y8	
PSC 32		52.21	127	37.89	122
PSC 40		52.21	128	42.70	123
PSC 50		52.21	129	42.70	124
PSC 63		104.24	130	47.53	126
PSC 80		104.24	130	47.53	126

Blank

- ▲ Material: Steel 16MnCr5
- ▲ 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**



NEW



AD/B

82 747 ...

£
Y8

135.70 16379
249.58 16378

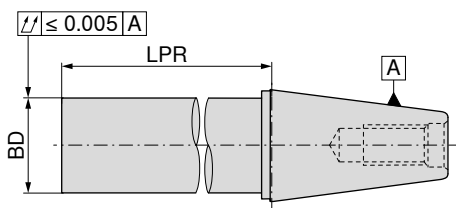
Adapter	BD mm	LPR mm	LB mm
SK 40	63,0	250	231
SK 50	63,5	300	281

Test bar

- ▲ Without tool change groove
- ▲ Use for MAS BT 40 special pull studs with 3 mm shorter LF dimension, as standard

Scope of supply:

in wooden box



NEW



A



81 746 ...

£
Y8

591.64 14079
729.43 15078

Adapter	BD mm	LPR mm
SK / BT 40	40	320
SK / BT 50	50	320

Accessories

	
Pull studs	Others
→ 58, 60	→ 284

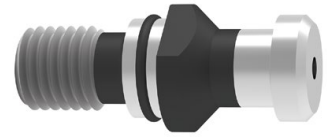
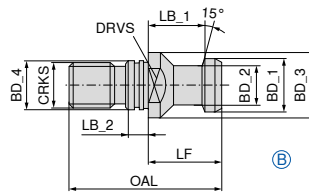
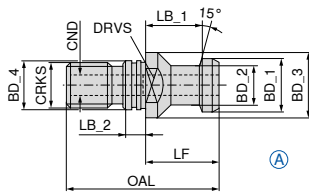
Pull studs for tool holders according to ISO 7388-1

▲ ISO 7388-3 AD

▲ For tools with or without axial coolant supply

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ...		82 468 ...	
														£		£	
SK 30	13	9	17	13	M12	44	24	19	5	3.5	14	20	A	Y8		18.80	030
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	50	A			16.00	040
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	150	A			23.75	050
SK 30	13	9	17	13	M12	44	24	19	5		14	20	B	18.80	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	50	B	16.00	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	150	B	23.75	050		

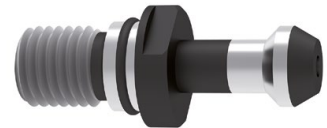
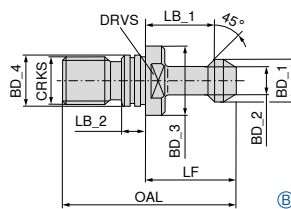
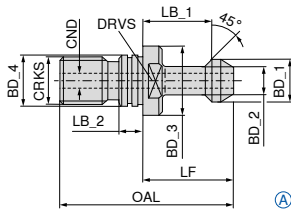
Pull studs for tool holders according to ISO 7388-1

▲ Similar to BT 45°, but 3 mm shorter

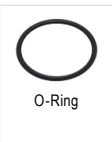
▲ for Haas, Micron and Hurco machines

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	83 538 ...		83 535 ...	
														£		£	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	50	A	Y8		23.15	040
SK 40	15	10	23	17	M16	57	32	25	5		19	50	B	27.47	040		



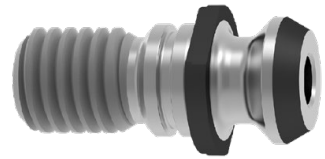
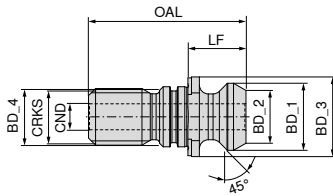
Spare parts

BD_4

	83 476 ...	
	£	
17	Y8	BT / SK 40 3.16 040
25	Y8	BT / SK 50 3.16 050

Pull studs for tool holders according to ISO 7388-1

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



NEW

82 469 ...

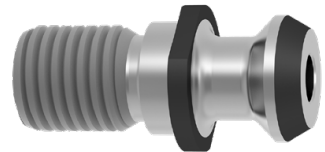
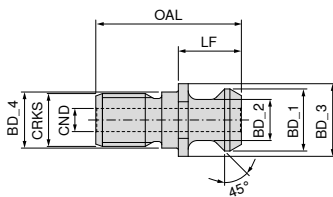
£
Y8

15.59 04000

Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	CND mm	DRVS mm	TQX Nm
SK 40	18.95	12.95	22.5	17	M16	44.5	16.4	11.15	7.35	19	50

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

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



NEW

82 469 ...

£
Y8

15.59 14000

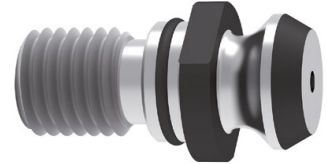
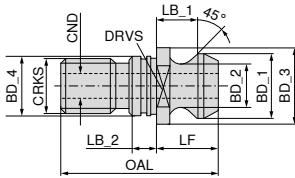
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	CND mm	DRVS mm	TQX Nm
SK 40	18.796	12.449	22	17	M16	44.106	19.106	14.026	7	19	50

Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

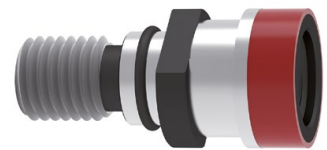
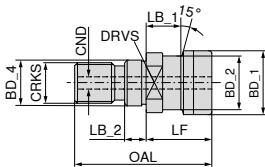
- SK 50 including O-ring
- SK 40 without O-ring groove



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	82 487 ...	
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£	
SK 40	18.79	12.44	21.8	17	M16	41.26	16.25	11.17	4.0	7.0	19	50	16.00	040
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	150	25.10	050

Pull studs for tool holders according to ISO 7388-1

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

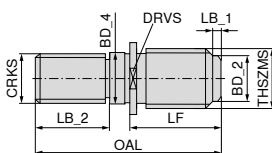


Adapter	BD_1	BD_2	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	without internal thread		with internal thread	
	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£		£	
SK 40	25.0	21.1	17	M16	53	25	13.6	8	7	19	50	26.17	040	26.17	040
SK 50	39.3	32.0	25	M24	65	25	13.3	10		30	150	29.85	050 ¹⁾	29.85	050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

- ▲ DECKEL thread S 20 x 2



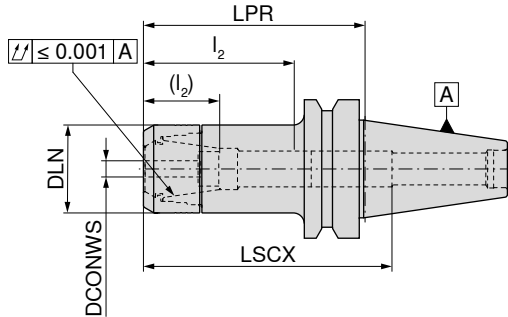
Adapter	THSZMS	CRKS	OAL	LF	LB_1	LB_2	BD_2	BD_4	DRVS	83 471 ...	
			mm	mm	mm	mm	mm	mm	mm	£	
SK 40	S 20 x 2	M16	55	33	4	17	16.7	17	22	44.99	040

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)	263.76	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	292.02	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	339.04	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	367.98	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	301.49	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	301.49	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	367.98	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	367.98	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	230.91	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	230.91	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	252.81	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	186.01	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	220.42	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	300.14	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	323.57	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	375.15	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	211.05	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	186.01	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	220.42	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	317.60	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	323.57	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	347.03	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	398.60	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	211.05	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	186.01	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	220.42	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	323.57	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	347.03	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	237.61	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	307.95	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	351.72	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	417.38	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	628.40	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	375.15	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	440.82	826

→ Transmittable torque moments, Page 313

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

Spare parts, ER precision collet chuck – Centro-P

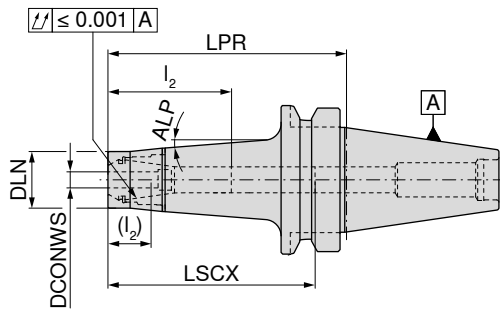
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	96.95	011	72.00	001	60.14	341	40.28	337
430E (ER25)	108.06	013	80.00	003	42.31	432	30.17	431
470E (ER32)	115.55	015	88.00	005	35.73	402	26.03	401
472E (ER40)	158.03	017	128.02	007			36.47	400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



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

84 517 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	£	
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4.5°	309.06	410
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)	4.5°	290.47	31000
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4.5°	387.39	510

→ Transmittable torque moments, Page 313



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	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	119.03	033	100.56	031	60.14	341	40.28	337

Accessories

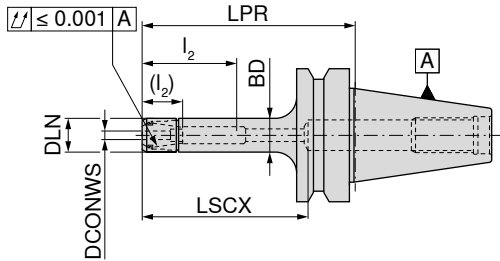
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 286	→ 286	→ 110-111	→ 284

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

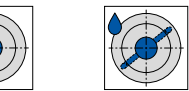
Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000

84 507 ...

£
Y8



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

84 508 ...

£
Y8

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet		
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)	293.27	007
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	324.71	008
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		308.86 307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		318.75 40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		411.70 507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		429.90 90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		308.86 216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		308.86 316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		411.70 416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		411.70 516

→ Transmittable torque moments, Page 313

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

Spare parts for collet	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
4008E (ER11)	84 950 ...	84 950 ...	83 950 ...	83 950 ...
426E (ER16)	97.92 035	100.56 041	57.32 340	38.17 336
		80.34 034	60.14 341	40.28 337

Accessories

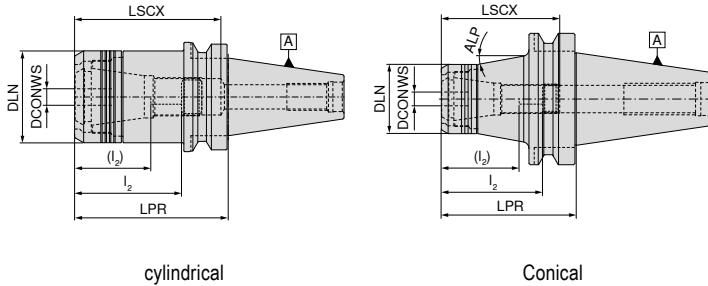
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 110-111	→ 284

ER precision collet chuck – HDC

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

Scope of supply:

Base body including lock nut, without backstop screw



AD
G 6,3 ρ_{max} 18000

cylindrical



AD
G 6,3 ρ_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	£	£
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	427.74	12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	445.46	22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		663.10 12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		774.48 22068

→ Transmittable torque moments, Page 313



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	Lock nut	Stop screw 2	Stop screw 1
DCONWS	£ Y8	£ Y8	£ Y8
2 - 20	134.15 30100	35.73 402	26.03 401

Accessories

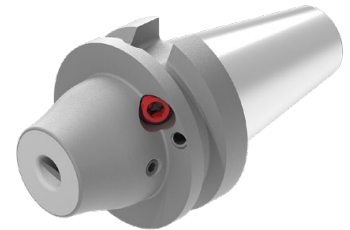
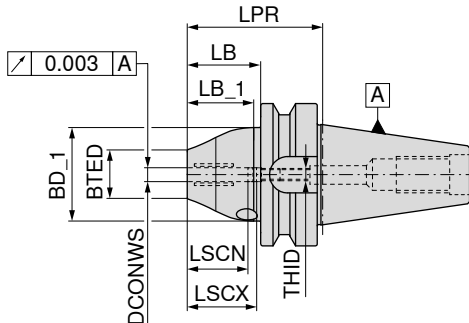
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 110-111	→ 284

HyPower – Rough

- ▲ High pressure chuck – especially for milling
- ▲ Ideal for HSC and HPC applications
- ▲ High temperature resistance
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



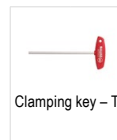
AD/B
G 2,5 n_{max} 25000

84 254 ...

£
Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	£	
BT 40	6	58.0	26	42	27.2	31.0	37	27	M5	691.08	10669
BT 40	8	58.0	28	42	27.2	31.0	37	27	M6	691.08	10869
BT 40	10	58.0	30	42	27.2	31.0	41	31	M8x1	691.08	11069
BT 40	12	58.0	32	49	27.2	31.0	46	36	M10x1	691.08	11269
BT 40	16	72.5	38	49	41.7	45.5	49	38	M12x1	691.08	11669
BT 40	20	72.5	38	49	41.7	45.5	51	41	M16x1	691.08	12069

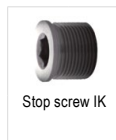
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS		£			£			£	
6	SW5	8.11	050	M10x12	13.60	55000	M5x12,5 - SW2,5	25.16	418
8	SW5	8.11	050	M10x12	13.60	55000	M6x12,5 - SW3	25.16	419
10	SW5	8.11	050	M10x12	13.60	55000	M8x1x13,5 - SW3	25.16	420
12	SW5	8.11	050	M10x12	13.60	55000	M10x1x13,5 - SW5	25.16	421
16	SW5	8.11	050	M10x12	13.60	55000	M12x1x13,5 - SW5	25.16	422
20	SW5	8.11	050	M10x12	13.60	55000	M16x1x13,5 - SW8	29.02	424

Accessories

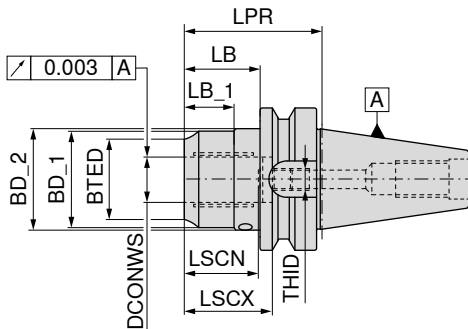
Reduction sleeve	Pull studs	Others
→ 282	→ 110–111	→ 284

HyPower – Complus

- ▲ 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

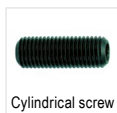


AD/B
G 2,5 n_{max} 25000

83 513 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	£	
BT 40	20	72.5	38					51	40	M16x1x13,5	450.95	120
BT 40	32	90.0	54	63		63.0		61	51	M16x1x13,5	544.37	13269
BT 50	20	83.5	38	49		45.5		51	41	M16x1x13,5	676.54	12068
BT 50	32	90.0	57	68	72	52.0	35	61	51	M16x1x13,5	676.54	13268

→ Min. clamping depth, Page 312



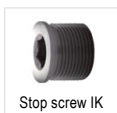
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.	£		£		£		£						
83 513 13269	Y7	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 513 12068	Y7	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 513 13268	Y7	M5x5 - SW2,5	3.85	157	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424

Accessories



Reduction sleeve

Pull studs

Others

→ 282

→ 110-111

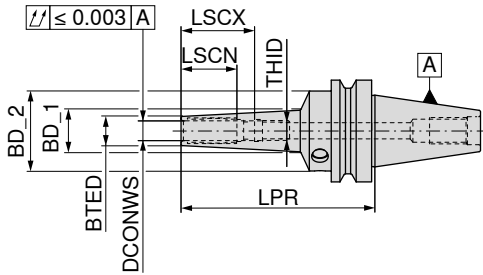
→ 284

HyPower – Access 3°

- ▲ 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

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£	
										Y8	
medium length	BT40	3	120	9	16.55	49.5	28	12	M3	882.18	103
	BT40	4	120	10	17.55	49.5	28	16	M3	882.18	104
	BT40	5	120	11	18.55	49.5	28	20	M3	882.18	105
	BT40	6	120	12	19.55	49.5	37	27	M5	752.33	106
	BT40	8	120	14	21.55	49.5	37	27	M6	752.33	108
	BT40	10	120	16	23.65	49.5	41	31	M8x1	752.33	110
	BT40	12	120	18	25.76	49.5	46	36	M10x1	752.33	112
	BT40	16	120	24	31.45	49.5	49	39	M12x1	1,081.73	116
	BT40	20	120	28	35.55	49.5	51	41	M16x1	1,081.73	120
	BT40	6	160	16	33.53	49.5	37	27	M5	1,132.28	206
	BT40	8	160	18	34.60	49.5	37	27	M6	1,132.28	208
	BT40	10	160	20	36.27	49.5	41	31	M8x1	1,132.28	210
	BT40	12	160	22	37.88	49.5	46	36	M10x1	1,132.28	212
	BT40	6	200	16	37.88	49.5	37	27	M5	1,272.43	306
	BT40	8	200	18	38.90	49.5	37	27	M6	1,272.43	308
	BT40	10	200	20	40.57	49.5	41	31	M8x1	1,272.43	310
	BT40	12	200	22	42.18	49.5	46	36	M10x1	1,272.43	312

→ Min. clamping depth, Page 312



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

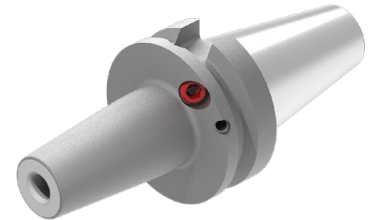
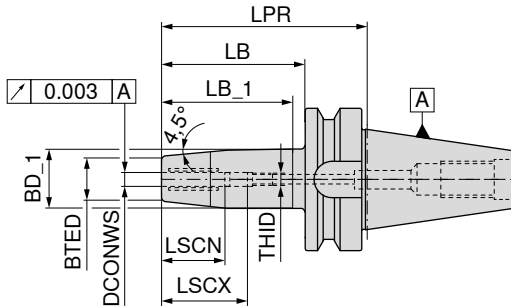
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
	£ Y7		£ Y7		£ Y7		£ Y7	
83 522 103	3.85	157	8.11	050	22.91	158	17.47	172
83 522 104	3.85	157	8.11	050	22.91	158	17.47	172
83 522 105	3.85	157	8.11	050	22.91	158	17.47	172
83 522 106	3.85	157	8.11	050	22.91	158	25.16	418
83 522 108	3.85	157	8.11	050	22.91	158	25.16	419
83 522 110	3.85	157	8.11	050	22.91	159	25.16	420
83 522 112	3.85	157	8.11	050	22.91	159	25.16	421
83 522 116	3.85	157	8.11	050	22.91	159	25.16	422
83 522 120	3.85	157	8.11	050	22.91	159	29.02	424
83 522 206	3.85	157	8.11	050	22.91	158	25.16	418
83 522 208	3.85	157	8.11	050	22.91	158	25.16	419
83 522 210	3.85	157	8.11	050	22.91	159	25.16	420
83 522 212	3.85	157	8.11	050	22.91	159	25.16	421
83 522 306	3.85	157	8.11	050	22.91	158	25.16	418
83 522 308	3.85	157	8.11	050	22.91	158	25.16	419
83 522 310	3.85	157	8.11	050	22.91	159	25.16	420
83 522 312	3.85	157	8.11	050	22.91	159	25.16	421

HyPower – Access 4.5°

- ▲ High pressure chuck with slim contour, original dimensions of a 4.5° shrink contour
- ▲ Especially for reaming and drilling applications
- ▲ Ideal for tool and die production
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 255 ...

£
Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	
BT 40	6	90	21	27	57.7	63	37	27	M5	827.03 10669
BT 40	8	90	21	27	57.7	63	37	27	M6	827.03 10869
BT 40	10	90	24	32	57.7	63	41	31	M8x1	827.03 11069
BT 40	12	90	24	32	57.7	63	46	36	M10x1	827.03 11269
BT 40	16	90	27	34	57.2	63	49	39	M12x1	827.03 11669
BT 40	20	90	33	42	57.5	63	51	41	M16x1	827.03 12069

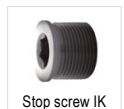
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS		£ Y7		£ Y8		£ Y7	
6	SW5	8.11	050	M10x12	13.60 55000	M5x12,5 - SW2,5	25.16 418
8	SW5	8.11	050	M10x12	13.60 55000	M6x12,5 - SW3	25.16 419
10	SW5	8.11	050	M10x12	13.60 55000	M8x1x13,5 - SW3	25.16 420
12	SW5	8.11	050	M10x12	13.60 55000	M10x1x13,5 - SW5	25.16 421
16	SW5	8.11	050	M10x12	13.60 55000	M12x1x13,5 - SW5	25.16 422
20	SW5	8.11	050	M10x12	13.60 55000	M16x1x13,5 - SW8	29.02 424



Reduction sleeve

→ 282



Pull studs

→ 110–111



Others

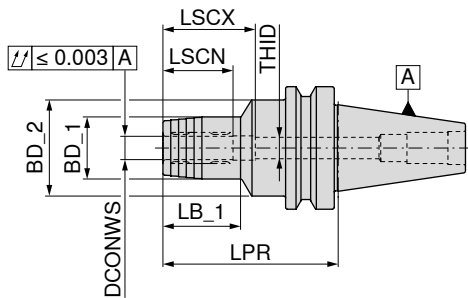
→ 284

HyTens – Fit

- ▲ 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

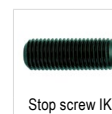
83 521 ...

Adapter	DCONWS	LPR	BD_1	BD_2	LSCX	LSCN	LB_1	THID	£	
	mm	mm	mm	mm	mm	mm	mm		Y8	
BT 40	6	90	26	49.5	37	27	29	M5	876.59	106
BT 40	8	90	28	49.5	37	27	30	M6	876.59	108
BT 40	10	90	30	49.5	41	31	35	M8x1	876.59	110
BT 40	12	90	32	49.5	46	36	40	M10x1	766.28	112
BT 40	16	90	38	49.5	49	39	45	M12x1	876.59	116
BT 40	20	90	42	49.5	51	41	47	M16x1	766.28	120
BT 40	25	90	55	52.0	57	47	50	M16x1	876.59	125
BT 40	32	90	63	62.0	61	51	48	M16x1	876.59	132
BT 50	6	90	26	49.5	37	27	29	M5	1,226.81	306
BT 50	8	90	28	49.5	37	27	30	M6	1,226.81	308
BT 50	10	90	30	49.5	41	31	34	M8x1	1,226.81	310
BT 50	12	90	32	49.5	46	36	34	M10x1	1,114.58	312
BT 50	16	90	38	49.5	49	39	35	M12x1	1,226.81	316
BT 50	20	90	42	49.5	51	41	35	M16x1	1,114.58	320
BT 50	25	110	55	63.0	57	47	48	M16x1	1,226.81	325
BT 50	32	110	63	70.0	61	51	50	M16x1	1,226.81	332

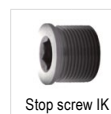
→ Min. clamping depth, Page 312



Pressure screw



Stop screw IK



Stop screw IK

Spare parts

DCONWS	Pressure screw	Stop screw IK	Stop screw IK
	£ Y7	£ Y7	£ Y7
6	M8x1x10 17.42 439		M5x12,5 - SW2,5 25.16 418
8	M8x1x10 17.42 439	M6x14 - SW2 25.16 417	M6x12,5 - SW3 25.16 419
10	M10x1x12 17.42 440		M8x1x13,5 - SW3 25.16 420
12	M10x1x12 17.42 440		M10x1x13,5 - SW5 25.16 421
16	M10x1x12 17.42 440		M12x1x13,5 - SW5 25.16 422
20 - 32	M10x1x12 17.42 440		M16x1x13,5 - SW8 29.02 424

Accessories

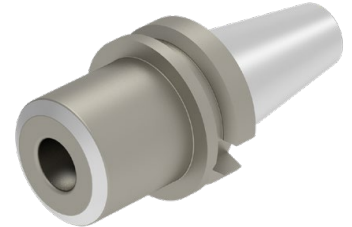
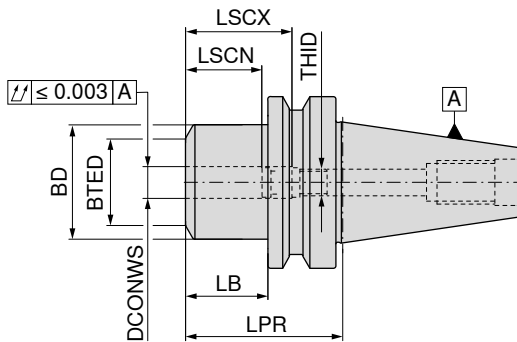
Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

HyTens – Compact

- ▲ Hydraulic chuck, short and stable version
- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 430 ...
£ Y8
395.61 01269
395.61 02069
707.06 02068

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

→ Min. clamping depth, Page 312

Spare parts for Article no.

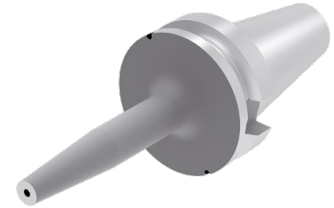
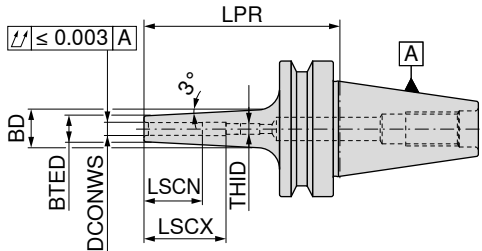
83 430 01269
83 430 02069
83 430 02068

Clamping key – T	Pressure screw	Stop screw IK
80 397 ...	83 950 ...	83 950 ...
£ Y7	£ Y7	£ Y7
8.11 050	17.42 440	25.16 420
8.11 050	17.42 440	29.02 424
8.11 050	17.42 440	29.02 424

Shrink adapter, Slim 3°

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

TG

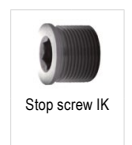
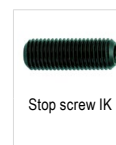


AD/B
G 2,5 n_{max} 25000

84 323 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		£	
		mm	mm	mm	mm	mm	mm			Y8	
short	BT 40	3	90	9	15	28	12	M6		710.42	103
	BT 40	4	90	10	16	28	16	M6		691.22	104
	BT 40	5	90	11	17	30	20	M6		691.22	105
	BT 40	6	90	12	18	36	26	M5		614.40	106
	BT 40	8	90	14	20	36	26	M6		614.40	108
	BT 40	10	90	16	22	41	31	M8x1		614.40	110
	BT 40	12	90	18	24	47	37	M10x1		614.40	112
	BT 40	14	90	20	26	47	37	M10x1		614.40	114
	BT 40	16	90	22	28	50	40	M12x1		614.40	116
	BT 40	18	90	24	30	50	40	M12x1		614.40	118
	BT 40	20	90	26	32	52	42	M16x1		614.40	120
medium length	BT 40	3	120	9	16	12	12			792.00	203
	BT 40	4	120	10	17	16	16			777.61	204
	BT 40	5	120	11	18	20	20			777.61	205
	BT 40	6	120	12	21	36	26	M5		696.02	206
	BT 40	8	120	14	23	36	26	M6		696.02	208
	BT 40	10	120	16	25	41	31	M8x1		696.02	210
	BT 40	12	120	18	27	47	37	M10x1		696.02	212
	BT 40	14	120	20	29	47	37	M10x1		696.02	214
	BT 40	16	120	22	31	50	40	M12x1		696.02	216
	BT 40	18	120	24	33	50	40	M12x1		696.02	218
	BT 40	20	120	26	35	52	42	M16x1		696.02	220
extra-long	BT 40	3	160	9	19	12	12			892.80	303
	BT 40	4	160	10	20	16	16			878.40	304
	BT 40	5	160	11	21	20	20			878.40	305
	BT 40	6	160	12	24	36	26	M5		796.81	306
	BT 40	8	160	14	26	36	26	M6		796.81	308
	BT 40	10	160	16	28	41	31	M8x1		796.81	310
	BT 40	12	160	18	30	47	37	M10x1		796.81	312
	BT 40	14	160	20	32	47	37	M10x1		796.81	314
	BT 40	16	160	22	34	50	40	M12x1		796.81	316
	BT 40	18	160	24	36	50	40	M12x1		796.81	318
	BT 40	20	160	26	38	52	42	M16x1		796.81	320

→ Min. clamping depth, Page 312



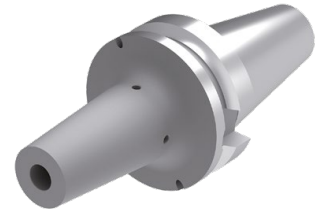
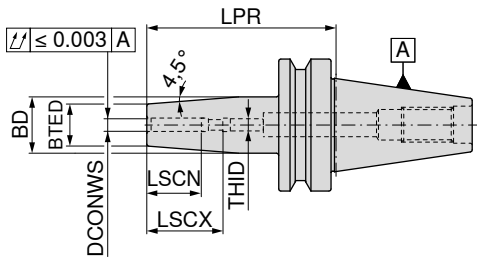
Spare parts
DCONWS

DCONWS		£		£	
3 - 5	M6x14 - SW2	25.16	417	25.16	418
6				25.16	419
8				25.16	420
10				25.16	421
12 - 14				25.16	422
16 - 18				25.16	422
20				29.02	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} 25000

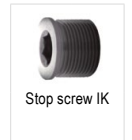
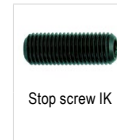


AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 303 ...		
									£ Y8	£ Y8	
short	BT 30	3	85	10	17	28	12	M6	715.22	003	
	BT 30	4	85	15	22	28	16	M6	691.22	004	
	BT 30	5	85	15	22	30	20	M6	691.22	005	
	BT 30	6	85	21	27	36	26	M5	614.40	006	
	BT 30	8	85	21	27	36	26	M6	614.40	008	
	BT 30	10	85	24	32	41	31	M8x1	614.40	010	
	BT 30	12	85	24	32	47	37	M10x1	614.40	012	
	BT 30	14	85	27	34	47	37	M10x1	614.40	014	
	BT 30	16	85	27	34	50	40	M12x1	614.40	016	
	BT 30	18	85	33	42	50	40	M12x1	614.40	018	
	BT 30	20	85	33	42	52	42	M16x1	614.40	020	
	BT 40	3	90	10	17	28	12	M6		337.91	103
	BT 40	4	90	15	22	28	16	M6		328.42	104
	BT 40	5	90	15	22	30	20	M6		328.42	105
	BT 40	6	90	21	27	36	26	M5		289.03	106
	BT 40	8	90	21	27	36	26	M6		289.03	108
	BT 40	10	90	24	32	41	31	M8x1		289.03	110
	BT 40	12	90	24	32	47	37	M10x1		289.03	112
BT 40	14	90	27	34	47	37	M10x1		289.03	114	
BT 40	16	90	27	34	50	40	M12x1		289.03	116	
BT 40	18	90	33	42	50	40	M12x1		289.03	118	
BT 40	20	90	33	42	52	42	M16x1		289.03	120	
BT 40	25	100	44	53	58	48	M16x1		289.03	125	
medium length	BT 40	3	120	10	20	12	12			379.27	203
	BT 40	4	120	15	22	16	16			369.76	204
	BT 40	5	120	15	22	20	20			369.76	205
	BT 40	6	120	21	27	36	26	M5		330.38	206
	BT 40	8	120	21	27	36	26	M6		330.38	208
	BT 40	10	120	24	32	41	31	M8x1		330.38	210
	BT 40	12	120	24	32	47	37	M10x1		330.38	212
	BT 40	14	120	27	34	47	37	M10x1		330.38	214
	BT 40	16	120	27	34	50	40	M12x1		330.38	216
	BT 40	18	120	33	42	50	40	M12x1		330.38	218
	BT 40	20	120	33	42	52	42	M16x1		330.38	220
	BT 40	25	120	44	53	58	48	M16x1		330.38	225
extra-long	BT 40	3	160	10	20	12	12			429.90	303
	BT 40	4	160	15	22	16	16			420.41	304
	BT 40	5	160	15	22	20	20			420.41	305
	BT 40	6	160	21	27	36	26	M5		381.05	306
	BT 40	8	160	21	27	36	26	M6		381.05	308
	BT 40	10	160	24	32	41	31	M8x1		381.05	310
	BT 40	12	160	24	32	47	37	M10x1		381.05	312
	BT 40	14	160	27	34	47	37	M10x1		381.05	314
	BT 40	16	160	27	34	50	40	M12x1		381.05	316
	BT 40	18	160	33	42	50	40	M12x1		381.05	318
	BT 40	20	160	33	42	52	42	M16x1		381.05	320
	BT 40	25	160	44	53	58	48	M16x1		381.05	325

→ Min. clamping depth, Page 312

Spare parts heat shrink adapter 4.5°

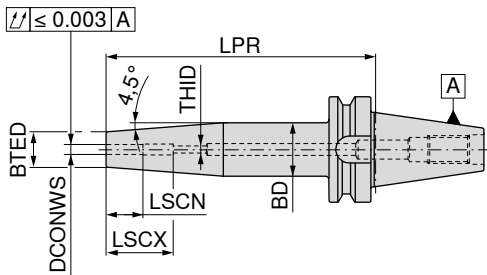


		83 950 ...		83 950 ...	
		£		£	
Spare parts		Y7		Y7	
DCONWS					
3 - 5	M6x14 - SW2	25.16	417		
6				M5x12,5 - SW2,5	25.16 418
8				M6x12,5 - SW3	25.16 419
10				M8x1x13,5 - SW3	25.16 420
12 - 14				M10x1x13,5 - SW5	25.16 421
16 - 18				M12x1x13,5 - SW5	25.16 422
20 - 25				M16x1x13,5 - SW8	29.02 424

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

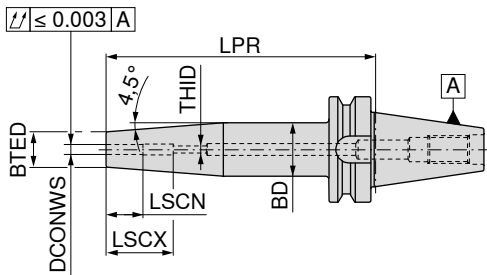
		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£		
										Y8/3B		
short	BT 40	3	90	11	15					306.68	10369	
	BT 40	4	90	11	15					294.20	10469	
	BT 40	5	90	11	15					294.20	10569	
	BT 40	6	90	21	27	36	26	M5		263.99	10669	
	BT 40	8	90	21	27	36	26	M6		263.99	10869	
	BT 40	10	90	24	34	41	31	M8x1		263.99	11069	
	BT 40	12	90	24	34	46	36	M10x1		263.99	11269	
	BT 40	14	90	27	34	46	36	M10x1		263.99	11469	
	BT 40	16	90	27	34	49	39	M12x1		263.99	11669	
	BT 40	18	90	33	42	49	39	M12x1		263.99	11869	
	BT 40	20	90	33	42	51	41	M16x1		263.99	12069	
	BT 40	25	100	44	53	57	47	M16x1		263.99	12569	
		BT 50	6	100	21	27	36	26	M5		280.93	10668
		BT 50	8	100	21	27	36	26	M6		280.93	10868
		BT 50	10	100	24	32	41	31	M8x1		280.93	11068
		BT 50	12	100	24	32	47	37	M10x1		280.93	11268
		BT 50	14	100	27	34	47	37	M10x1		280.93	11468
		BT 50	16	100	27	34	50	40	M12x1		280.93	11668
BT 50		18	100	33	42	50	40	M12x1		280.93	11868	
BT 50		20	100	33	42	52	42	M16x1		280.93	12068	
BT 50		25	100	44	53	58	48	M16x1		280.93	12568	
BT 50		32	100	44	53	62	52	M16x1		280.93	13268	
medium length	BT 50	6	120	21	27	36	26	M5		308.51	20668	
	BT 50	8	120	21	27	36	26	M6		308.51	20868	
	BT 50	10	120	24	32	41	31	M8x1		308.51	21068	
	BT 50	12	120	24	32	47	37	M10x1		308.51	21268	
	BT 50	14	120	27	34	47	37	M10x1		308.51	21468	
	BT 50	16	120	27	34	50	40	M12x1		308.51	21668	
	BT 50	18	120	33	42	50	40	M12x1		308.51	21868	
	BT 50	20	120	33	42	52	42	M16x1		308.51	22068	
	BT 50	25	120	44	53	58	48	M16x1		308.51	22568	
	BT 50	32	120	44	53	62	52	M16x1		308.51	23268	

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

£	Y8/3B
341.92	30669
341.92	30869
341.92	31069
341.92	31269
341.92	31469
341.92	31669
341.92	31869
341.92	32069
341.92	32569
342.69	30668
342.69	30868
342.69	31068
342.69	31268
342.69	31468
342.69	31668
342.69	31868
342.69	32068
342.69	32568
342.69	33268

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	6	160	21	27	36	26	M5
BT 40	8	160	21	27	36	26	M6
BT 40	10	160	24	34	41	31	M8x1
BT 40	12	160	24	34	46	36	M10x1
BT 40	14	160	27	34	46	36	M10x1
BT 40	16	160	27	34	49	39	M12x1
BT 40	18	160	33	42	49	39	M12x1
BT 40	20	160	33	42	51	41	M16x1
BT 40	25	160	44	53	57	47	M16x1
BT 50	6	160	21	27	36	26	M5
BT 50	8	160	21	27	36	26	M6
BT 50	10	160	24	32	41	31	M8x1
BT 50	12	160	24	32	47	37	M10x1
BT 50	14	160	27	34	47	37	M10x1
BT 50	16	160	27	34	50	40	M12x1
BT 50	18	160	33	42	50	40	M12x1
BT 50	20	160	33	42	52	42	M16x1
BT 50	25	160	44	53	58	48	M16x1
BT 50	32	160	44	53	62	52	M16x1

→ Min. clamping depth, Page 312



Stop screw IK

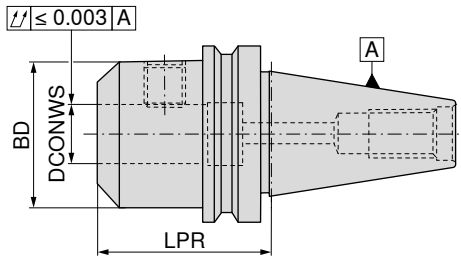
82 950 ...

Spare parts
DCONWS

DCONWS		£	Y8/3B
6	M5x16 - SW2,5	5.32	30000
8	M6x16 - SW3	5.39	30100
10	M8x1x16 - SW4	5.74	30200
12 - 14	M10x1x14 - SW5	6.07	30300
16 - 18	M12x1x16 - SW6	6.40	30400
20 - 32	M16x1x16 - SW8	6.73	30500

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 25000

82 741 ...

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
short	BT 30	6	50	25	169.35	10670
	BT 30	8	50	28	154.31	10870
	BT 30	10	50	35	154.31	11070
	BT 30	12	55	42	154.31	11270
	BT 30	14	55	44	154.31	11470
	BT 30	16	63	48	154.31	11670
	BT 30	18	63	50	154.31	11870
	BT 30	20	63	52	184.79	12070
extra short	BT 40	16	35	48	91.12	01669
	BT 40	20	35	50	91.12	02069
	BT 40	25	40	50	99.59	02569 ¹⁾
	BT 40	32	75	72	125.86	03269 ¹⁾

1) Version with two grubscrews

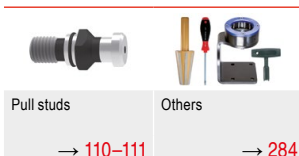


Grubscrew

62 950 ...

Spare parts			£	
DCONWS			W7	
6	M6x10	1.16	006	
8	M8x10	1.16	008	
10	M10x12	2.22	010	
12 - 14	M12x16	1.76	012	
16 - 18	M14x16	2.18	016	
20	M16x16	2.32	020	
25	M18x2x20	4.48	025	
32	M20x2x20	4.68	032	

Accessories



Pull studs

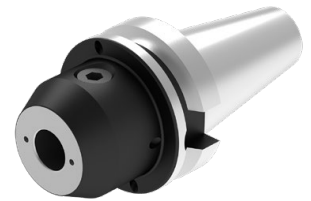
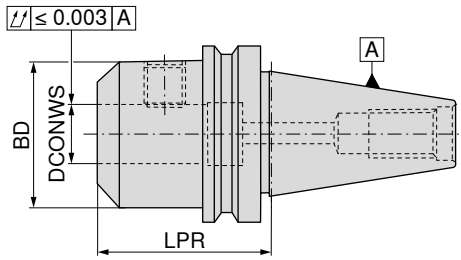
Others

→ 110-111

→ 284

Cylindrical shank adapter (Weldon)

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



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

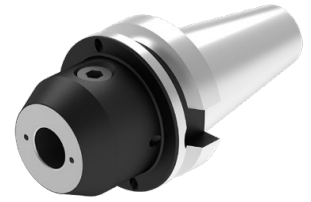
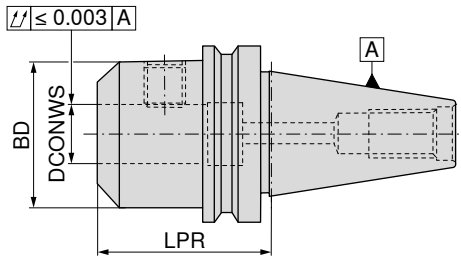
82 740 ...

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	£	
					Y8	
short	BT 40	6	50	25	84.31	10669
	BT 40	8	50	28	84.31	10869
	BT 40	10	63	35	79.58	11069
	BT 40	12	63	42	79.58	11269
	BT 40	14	63	44	79.58	11469
	BT 40	16	63	48	86.16	11669
	BT 40	18	63	50	86.16	11869
	BT 40	20	63	52	86.16	12069
	BT 40	25	100	65	94.53	12569
	BT 40	32	100	72	102.83	13269 ¹⁾
	BT 40	40	120	80	112.47	14069 ¹⁾
		BT 50	6	63	25	114.53
BT 50		8	63	28	114.53	10868
BT 50		10	80	35	111.33	11068
BT 50		12	80	42	118.13	11268
BT 50		14	80	44	118.13	11468
BT 50		16	80	48	118.13	11668
BT 50		18	80	50	118.13	11868
BT 50		20	80	52	118.13	12068
BT 50		25	100	65	131.37	12568 ¹⁾
BT 50		32	105	72	134.02	13268 ¹⁾
BT 50		40	120	80	138.92	14068 ¹⁾
medium length		BT 40	6	100	25	87.89
	BT 40	8	100	28	87.89	20869
	BT 40	10	100	35	82.97	21069
	BT 40	12	100	42	82.97	21269
	BT 40	14	100	44	82.41	21469
	BT 40	16	100	48	91.12	21669
	BT 40	18	100	50	90.72	21869
	BT 40	20	100	52	91.12	22069
	BT 50	6	100	25	128.31	20668
	BT 50	8	100	28	128.31	20868
	BT 50	10	100	35	122.67	21068
	BT 50	12	100	42	122.67	21268
BT 50	14	100	44	122.67	21468	
BT 50	16	100	48	123.43	21668	
BT 50	18	100	50	123.43	21868	
BT 50	20	100	52	123.43	22068	
BT 50	25	120	65	134.41	22568 ¹⁾	

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



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

82 740 ...

£
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
					£	
extra-long	BT 40	6	160	25	101.12	40669
	BT 40	8	160	28	101.12	40869
	BT 40	10	160	35	95.82	41069
	BT 40	12	160	42	95.82	41269
	BT 40	14	160	44	95.82	41469
	BT 40	16	160	48	96.20	41669
	BT 40	18	160	50	96.20	41869
	BT 40	20	160	52	96.20	42069
	BT 40	25	160	65	102.83	42569 ¹⁾
	BT 50	6	160	25	156.87	40668
	BT 50	8	160	28	156.87	40868
	BT 50	10	160	35	157.07	41068
	BT 50	12	160	42	157.07	41268
	BT 50	14	160	44	157.07	41468
	BT 50	16	160	48	156.29	41668
	BT 50	18	160	50	156.29	41868
	BT 50	20	160	52	156.29	42068
	BT 50	25	160	65	157.41	42568 ¹⁾
	BT 50	32	160	72	157.07	43268 ¹⁾

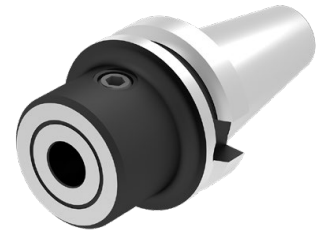
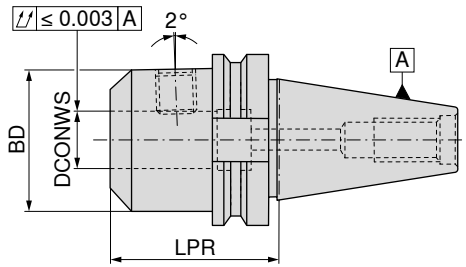
1) Version with two grub screws



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

Cylindrical Shank Adapter (Whistle Notch)

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







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

82 742 ...


	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
short	BT 40	6	50	25	103.98	10669
	BT 40	8	50	28	103.98	10869
	BT 40	10	63	35	96.39	11069
	BT 40	12	63	42	96.39	11269
	BT 40	14	63	44	96.39	11469
	BT 40	16	63	48	105.82	11669
	BT 40	18	63	50	105.82	11869
	BT 40	20	63	52	105.82	12069
	BT 40	25	100	65	134.58	12569 ¹⁾
	BT 40	32	100	72	146.66	13269 ¹⁾
	BT 40	40	120	80	170.36	14069 ¹⁾
	BT 50	6	63	25	177.41	10668
	BT 50	8	63	28	177.41	10868
	BT 50	10	80	35	169.52	11068
BT 50	12	80	42	169.52	11268	
BT 50	14	80	44	169.52	11468	
BT 50	16	80	48	170.53	11668	
BT 50	18	80	50	170.53	11868	
BT 50	20	80	52	170.53	12068	
BT 50	25	100	65	185.97	12568 ¹⁾	
BT 50	32	105	72	188.99	13268 ¹⁾	
long	BT 40	6	130	25	131.00	30669
	BT 40	8	130	28	131.00	30869
	BT 40	10	130	35	122.46	31069
	BT 40	12	130	42	122.46	31269
	BT 40	16	130	48	131.73	31669
	BT 40	20	130	52	131.73	32069
	BT 40	25	130	65	157.60	32569 ¹⁾
	BT 50	6	130	25	206.11	30668
	BT 50	8	130	28	206.11	30868
	BT 50	10	130	35	196.54	31068
	BT 50	12	130	42	196.54	31268
	BT 50	16	130	48	196.54	31668
	BT 50	20	130	52	196.54	32068
	BT 50	25	130	65	206.11	32568 ¹⁾
BT 50	32	130	72	207.95	33268 ¹⁾	

1) Version with two grub screws


Spare parts cylindrical shank adaptors (Weldon and Whistle Notch)

				
	10 950 ...	62 950 ...	62 950 ...	84 950 ...
Spare parts	£	£	£	£
DCONWS _{H4}	W7/6B	W7/6B	W7	Y8
6			M6x10 1.16 006	M5x20 15.50 44100
8			M8x10 1.16 008	M6x20 5.38 21500
10			M10x12 2.22 010	M8x16 15.50 44200
12 - 14	M10X20 DIN 913 3.26 17500		M12x16 1.76 012	
16 - 18			M14x16 2.18 016	M12x20 15.50 44300
20		M16x20 - SW8 1.28 51200	M16x16 2.32 020	
25			M18x2x20 4.48 025	M20x24 15.50 44000
32 - 40			M20x2x20 4.68 032	M20x24 15.50 44000

Accessories



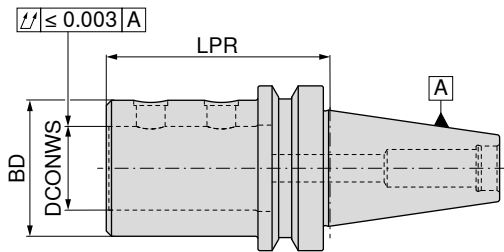
Pull studs
→ 110-111



Others
→ 284

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

▲ also available with Balluff chip on request



NEW

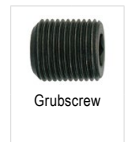


AD/B
G 6,3 n_{max} 15000

82 748 ...
£
Y8
266.53 12069
266.53 12569
266.53 13269
338.53 12068
338.53 12568
338.53 13268
338.53 14068
338.53 15068

Adapter	DCONWS	LPR	BD
	mm	mm	mm
BT 40	20	75	40
BT 40	25	80	45
BT 40	32	85	52
BT 50	20	85	40
BT 50	25	90	45
BT 50	32	95	52
BT 50	40	105	65
BT 50	50	113	75

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



Spare parts
DCONWS

20	M10x1x10	£	2A/28
25 - 32	M12x1x10	4.64	001
40 - 50	M16x1x12	4.64	002
		4.64	003

Accessories

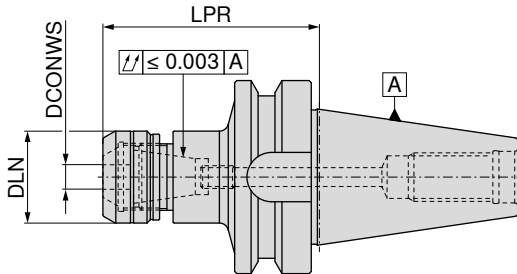
Pull studs	Others
→ 110-111	→ 284

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



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

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	£ Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	227.17	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	327.25	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	227.17	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	327.25	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	227.17	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	327.25	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	427.98	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	531.51	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	427.98	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	531.51	22068



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	86.35 11000	81.37 01000		M8X3,0 8.13 00100
430E (ER25)	86.35 11600	81.37 01600	M18x1,5 11.07 00200	M8x8 8.13 00300
470E (ER32)	86.35 12000	81.37 02000	M18x1,5 11.07 00200	M8x8 8.13 00300

Spare parts for collet

Accessories

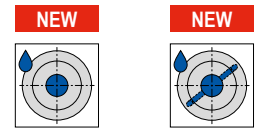
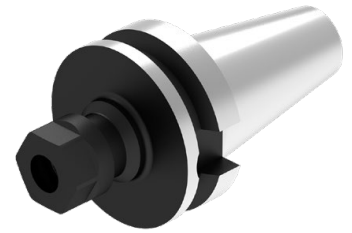
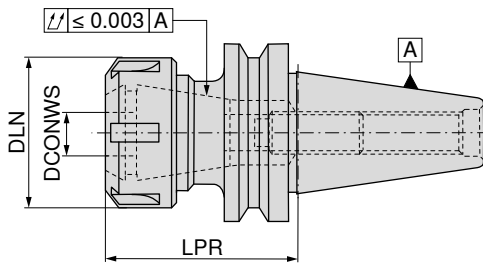
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	£		£	
short	BT 30	1 - 10	70	28	56	426E (ER16)	174.89	11070 ¹⁾		
	BT 30	1 - 16	70	42	104	430E (ER25)	174.89	11670		
	BT 30	2 - 20	70	50	136	470E (ER32)	174.89	12070		
	BT 40	1 - 10	60	22	56	426E (ER16 mini)			223.90	11169
	BT 40	1 - 10	60	28	56	426E (ER16)			117.72	11069 ¹⁾
	BT 40	1 - 16	70	42	104	430E (ER25)			123.05	11669
	BT 40	2 - 20	70	50	136	470E (ER32)			123.43	12069
	BT 40	3 - 26	70	63	176	472E (ER40)			128.31	12669
	BT 50	1 - 10	75	28	56	426E (ER16)	157.25	11068 ¹⁾		
	BT 50	1 - 16	75	42	104	430E (ER25)	141.96	11668		
	BT 50	2 - 20	75	50	136	470E (ER32)	149.29	12068		
	BT 50	4 - 26	75	63	176	472E (ER40)	152.34	12668		
medium length	BT 30	1 - 10	100	28	56	426E (ER16)	244.38	21070 ¹⁾		
	BT 30	1 - 16	100	42	104	430E (ER25)	244.38	21670		
	BT 40	1 - 10	120	22	56	426E (ER16 mini)			223.90	21169
	BT 40	1 - 10	120	28	56	426E (ER16)			129.09	21069 ¹⁾
	BT 40	1 - 16	120	42	104	430E (ER25)			134.41	21669
	BT 40	2 - 20	120	50	136	470E (ER32)			134.78	22069
	BT 40	3 - 26	100	63	176	472E (ER40)			167.67	22669
	BT 50	1 - 10	100	28	56	426E (ER16)	175.56	21068 ¹⁾		
	BT 50	1 - 16	100	42	104	430E (ER25)	145.33	21668		
	BT 50	2 - 20	100	50	136	470E (ER32)	155.52	22068		
	BT 50	3 - 26	100	63	176	472E (ER40)	164.06	22668		
	extra-long	BT 40	1 - 10	160	28	56	426E (ER16)			180.60
BT 40		1 - 16	160	42	104	430E (ER25)			178.92	41669
BT 40		2 - 20	160	50	136	470E (ER32)			178.92	42069
BT 40		3 - 26	160	63	176	472E (ER40)			189.16	42669
BT 50		1 - 16	160	42	104	430E (ER25)	161.02	41668		
BT 50		2 - 20	160	50	136	470E (ER32)	177.41	42068		

1) with 6 position lock nut

	Lock nut	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK
Spare parts for collet	£ W7	£ Y8	£ W7	£ Y8	£ Y8	£ W7	£ Y8	£ Y8
426E (ER16 mini)					49.71	46.66	112.26	45.25
426E (ER16)	33.81	101.40	28.01	29.58	101	066	058	44600
430E (ER25)		108.45	35.87	43.08				44400
470E (ER32)		130.50	34.86	48.80				44400
472E (ER40)		055	65600	125				44500
		056	65700	132				
		057		140				

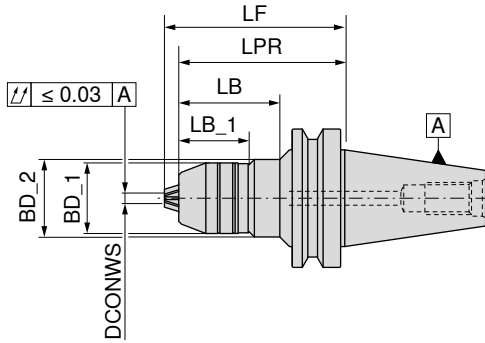
1) Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000



AD
G 6,3 n_{max} 10000

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

84 509 ...		84 510 ...	
£		£	
Y8		Y8	
562.65	413	510.46	413
466.26	416	501.29	416
663.46	516	698.47	516

Accessories



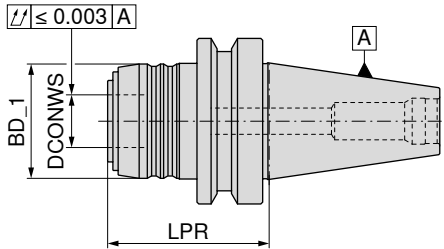
Others

→ 284

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	
363.24	012
471.18	020
394.57	112
610.71	120

Accessories



Pull studs
→ 110-111



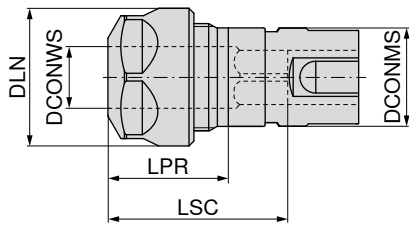
Others
→ 284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

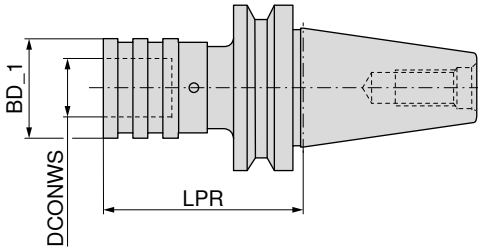
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	Y8	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	247.61	288.42

1) with 6 position lock nut

Spare parts for Article no.	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
83 608 012	W7	044	Y8	054	W7	054	Y8	116
83 608 020	33.81		87.05		26.90		29.58	
			101.40	055	28.01	055	29.58	125

Quick change tap chuck with length compensation

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



A

83 528 ...

Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LZD±	£	
			mm	mm	mm	mm	Y8	
BT 30	M3 - M12	01	63	38	19	9	617.65	312
BT 30	M6 - M20	02	96	55	31	15	774.59	320
BT 40	M3 - M12	01	68	38	19	9	495.59	412
BT 40	M6 - M20	02	93	55	31	15	514.16	420
BT 50	M3 - M12	01	80	38	19	9	830.50	512
BT 50	M6 - M20	02	102	55	31	15	956.10	520

Accessories

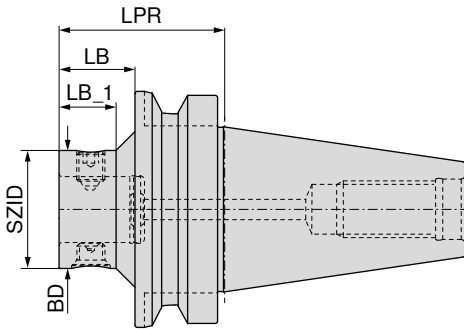
		
Collet	Pull studs	Others
→ 288, 290-292	→ 110-111	→ 284

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



AD



AD/B

Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	84 202 ...		84 212 ...	
							£		£	
BT 40	A55 00120	ABS 25	25	60	33	25	3E		3E	
BT 40	A55 00130	ABS 32	32	60	33		236.35	04090		
BT 40	A55 00140	ABS 40	40	60	33		236.35	04088		
BT 40	A55 55150	ABS 50	50	60	33				236.35	04097
BT 40	A55 55160	ABS 63	63	70					236.35	04096
BT 50	A55 00330	ABS 32	32	70	32	24	266.52	05089		
BT 50	A55 00340	ABS 40	40	70	32	24	266.52	05088		
BT 50	A55 55350	ABS 50	50	70	32	24			266.52	05097
BT 50	A55 55360	ABS 63	63	80	42	37			266.52	05096
BT 50	A55 55370	ABS 80	80	100	62				266.52	05092
BT 50	A55 55380	ABS 100	100	110					266.52	05091

Conversion kit – Cooling agent supply



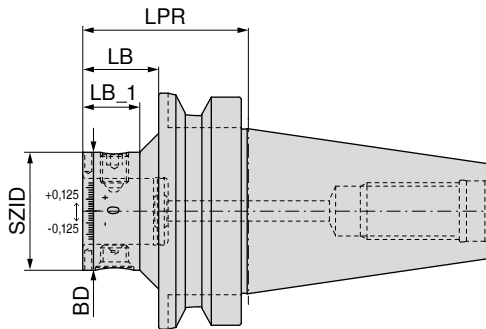
		84 950 ...
for	Adapter	£
4 mm	SK 40	W7/6B 7.30 23200
6 mm	SK 50	7.30 23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



AD



AD/B

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

84 205 ...

£
W4/6A

84 205 ...

£
W4/6A

819.82

04096

636.91

04097

938.67

05096

714.47

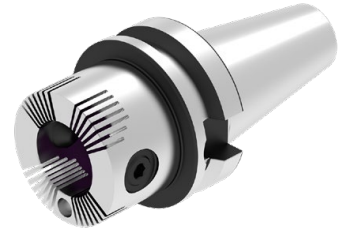
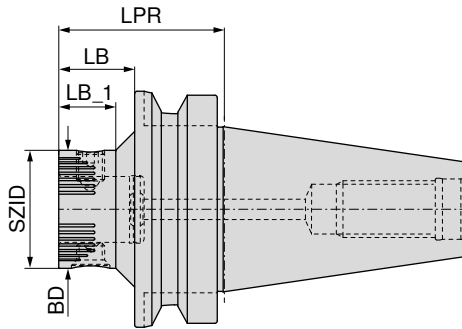
05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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

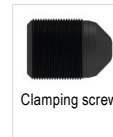


AD/B

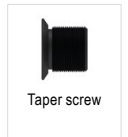
84 208 ...

Adapter	KOMET no.	SZID	BD mm	LPR mm	LB mm	LB_1 mm		
BT 40	A55 02150	ABS 50	50	60	33			
BT 40	A55 02160	ABS 63	63	70				
BT 50	A55 02350	ABS 50	50	70	32	24		
BT 50	A55 02360	ABS 63	63	80	42	37		

£	
3E	
689.70	04097
684.28	04096
761.16	05097
827.11	05096



Clamping screw



Taper screw

84 950 ...

£	
XX	
11.49	20300
10.93	25500

84 950 ...

£	
XX	
14.59	20400
13.87	27300

Spare parts

SZID

ABS 50

ABS 63

Accessories



Pull studs

→ 110-111



Extension

→ 187

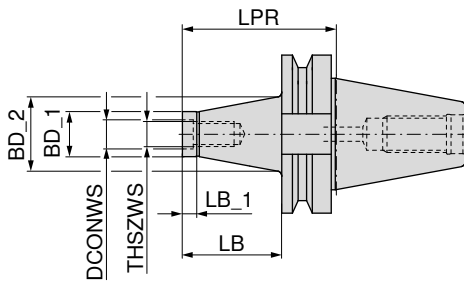


Others

→ 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	£	
		mm	mm	mm	mm	mm	mm	WA	
BT 40	M8	8.5	25	13.8	15	12	52	257.26	081
BT 40	M8	8.5	50	13.8	23	12	77	263.55	082
BT 40	M8	8.5	75	13.8	25	12	102	269.65	083
BT 40	M10	10.5	25	18.0	23	12	52	257.26	101
BT 40	M10	10.5	50	18.0	25	12	77	263.55	102
BT 40	M10	10.5	75	18.0	30	12	102	269.65	103
BT 40	M12	12.5	25	21.0	24	12	52	257.26	121
BT 40	M12	12.5	50	21.0	30	12	77	263.55	122
BT 40	M12	12.5	75	21.0	35	12	102	269.65	123
BT 40	M12	12.5	100	21.0	38	12	127	275.92	124
BT 40	M16	17.0	25	29.0	29	12	52	257.26	161
BT 40	M16	17.0	50	29.0	34	12	77	263.55	162
BT 40	M16	17.0	75	29.0	35	12	102	269.65	163
BT 40	M16	17.0	100	29.0	40	12	127	275.92	164

Accessories

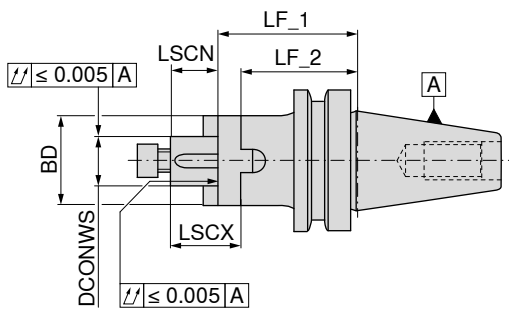
Extension-Reduction set → 257	Pull studs → 110-111	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm			
short	BT 30	16	45	32	27	17	35		169.35 11670	
	BT 30	22	47	40	31	19	35		169.35 12270	
	BT 30	27	49	46	33	21	37		179.92 12770	
	BT 40	16	55	32	27	17	45		116.42 11669	
	BT 40	22	55	40	31	19	43		120.98 12269	
	BT 40	27	55	48	33	21	43		123.43 12769	
	BT 40	32	60	58	38	24	46		130.43 13269	
	BT 40	40	60	70	41	27	46		137.23 14069 ¹⁾	
	BT 50	16	70	32	27	17	60		178.75 11668	
	BT 50	22	70	40	31	19	58		184.79 12268	
	BT 50	27	70	48	33	21	58		198.39 12768	
	BT 50	32	70	58	38	24	56		204.26 13268	
	BT 50	40	70	70	41	27	56		211.65 14068 ¹⁾	
	medium length	BT 30	16	80	32	27	17	70		215.67 21670
		BT 30	22	80	40	31	19	68		215.67 22270
BT 30		27	90	48	33	21	78		220.21 22770	
BT 40		16	100	32	27	17	90		147.13 21669	
BT 40		22	100	40	31	19	88		153.22 22269	
BT 40		27	100	48	33	21	88		156.01 22769	
BT 40		32	100	58	38	24	86		164.67 23269	
BT 40		40	100	70	41	27	86		173.21 24069 ¹⁾	

1) With cross screw



Parallel key



Drive ring



Cross nut key



Cross screw



clamping screw

Spare parts	83 950 ...		83 370 ...		83 368 ...		83 367 ...		83 950 ...	
	£		£		£		£		£	
DCONWS	Y8/3B		Y8		Y8		Y8		Y8/3B	
16	4 x 4 x 20	4.37 284	16.18 116	26.72 116	M8	7.10 016	M8x25	7.53 113		
22	6 x 6 x 25	4.37 285	15.51 122	33.25 122	M10	7.90 022	M10x25	8.50 124		
27	7 x 7 x 25	6.94 286	19.35 127	39.10 127	M12	10.10 027	M12x30	9.39 125		
32	8 x 7 x 28	4.95 287	20.31 132	53.28 132	M16	15.86 032	M16x35	11.43 126		
40	10 x 8 x 32	5.84 288	34.21 140	52.92 140	M20	16.97 040	M20x40 - SW17	12.61 112		

Accessories

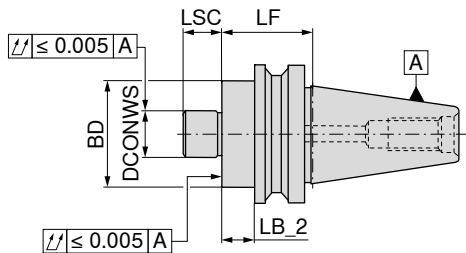
Pull studs	Milling Adapter Rings	Others
→ 110-111	→ 263	→ 284

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



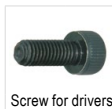
AD
G 2,5 n_{max} 25000

82 315 ...

£	
Y8/3B	
118.17	12269
114.27	12769
164.12	12268
169.32	12768

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

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



Screw for drivers



Driver



clamping screw

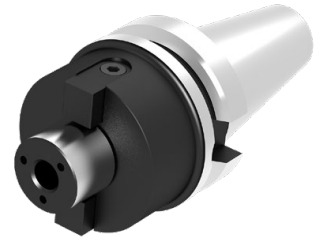
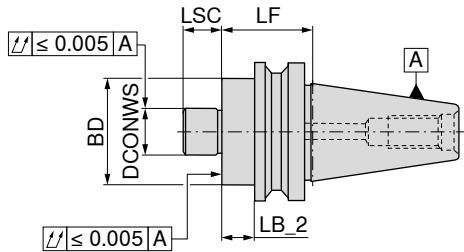
Spare parts	DCONWS		£	83 950 ...	£	83 950 ...	£	83 950 ...		
	22	M4x8	0.80	51700	10x7x20,5	11.26	51500	M10x25	8.50	124
	27	M5x8	0.98	51800	12x9x24,3	12.83	51600	M12x30	9.39	125

Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



NEW



AD

G 2,5 n_{max} 25000

82 745 ...

£

Y8

NEW



AD/B

G 2,5 n_{max} 25000

82 745 ...

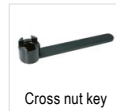
£

Y8

	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	159.28	11670		
	BT 30	27	18	50	58	21	159.28	12270		
	BT 30	32	28	50	78	24	169.35	12770		
	BT 30	32	28	50	78	24	185.80	13270		
	BT 40	16	25	52	38	17		116.42	11669	
	BT 40	22	25	52	48	19		123.23	12269	
	BT 40	27	25	52	58	21		125.68	12769	
	BT 40	32	23	50	78	24		132.31	13269	
	BT 40	40	23	50	88	27		143.86	14069 ¹⁾	
	BT 50	16	25	63	38	17	153.86	11668		
	BT 50	22	25	63	48	19	157.60	12268		
medium length	BT 40	16	73	100	38	17		120.39	21669	
	BT 40	22	73	100	48	19		124.37	22269	
	BT 40	27	73	100	58	21		126.41	22769	
	BT 40	32	73	100	78	24		132.51	23269	
	BT 40	40	73	100	88	27		138.92	24069 ¹⁾	
	BT 50	16	62	100	38	17	168.18	21668		
	BT 50	22	62	100	48	19	172.20	22268		
	BT 50	27	62	100	58	21	177.24	22768		
	BT 50	32	62	100	78	24	182.78	23268		
	BT 50	40	62	100	88	27	186.81	24068 ¹⁾		
	long	BT 40	16	103	130	38	17		127.95	31669
		BT 40	22	103	130	48	19		132.31	32269
BT 40		27	103	130	58	21		134.41	32769	
BT 40		32	103	130	78	24		140.82	33269	
BT 40		40	103	130	88	27		147.05	34069 ¹⁾	
BT 50		16	92	130	38	17	179.42	31668		
BT 50		22	92	130	48	19	183.28	32268		
BT 50		27	92	130	58	21	188.82	32768		
BT 50		32	92	130	78	24	194.86	33268		
BT 50		40	92	130	88	27	198.39	34068 ¹⁾		
extra-long		BT 40	16	133	160	38	17		132.31	41669
		BT 40	22	133	160	48	19		136.64	42269
	BT 40	27	133	160	58	21		138.53	42769	
	BT 40	32	133	160	78	24		144.96	43269	
	BT 40	40	133	160	88	27		151.02	44069 ¹⁾	
	BT 50	16	122	160	38	17	185.80	41668		
	BT 50	22	122	160	48	19	188.99	42268		
	BT 50	27	122	160	58	21	194.86	42768		
	BT 50	32	122	160	78	24	200.23	43268		
	BT 50	40	122	160	88	27	204.26	44068 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 adaptors



Cross nut key

83 368 ...



Cross screw

83 367 ...

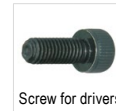


clamping screw

83 950 ...

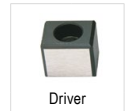
**Spare parts
DCONWS**

	£			£			£	
	Y8			Y8			Y8/3B	
16	26.72	116	M8	7.10	016	M8x25	7.53	113
22	33.25	122	M10	7.90	022	M10x25	8.50	124
27	39.10	127	M12	10.10	027	M12x30	9.39	125
32	53.28	132	M16	15.86	032	M16x35	11.43	126
40	52.92	140	M20	16.97	040	M20x40 - SW17	12.61	112



Screw for drivers

84 950 ...



Driver

84 950 ...

**Spare parts
DCONWS**

	£			£	
	Y8			Y8	
16	10.40	162	M3x12	45.97	43400
22	10.40	163	M4x10	45.97	43200
27	10.40	164	M4x16	45.97	43300
32	10.40	166	M5x16	38.31	160
40	10.40	166	M5x16	42.64	161

Accessories

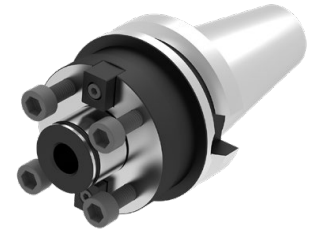
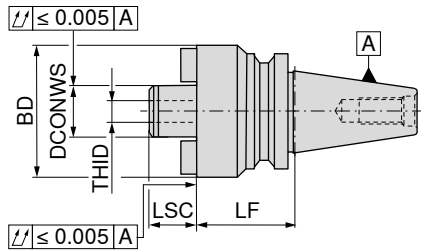
Pull studs	Extensions	Others
→ 110-111	→ 262	→ 284

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



NEW



A
G 6,3 n_{max} 8000

82 432 ...
£
Y8
275.93 14068
334.67 16068

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



clamping screw

Spare parts

DCONWS

DCONWS	Screw for drivers	Driver	clamping screw
40	M5x16 £ 10.40 166	16x16x23 £ 42.64 161	M12x50 £ 9.38 140
60	M12x25 £ 7.47 43500	25,4x25x26,5 £ 45.97 43100	M16x45 £ 19.27 160

Accessories



Pull studs

→ 110-111

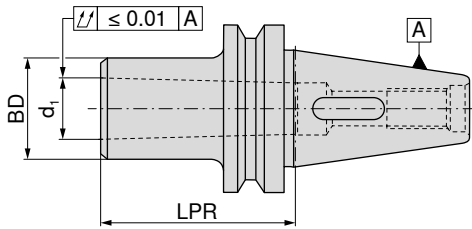


Others

→ 284

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

▲ also available with Balluff chip on request



NEW



AD

G 6,3 n_{max} 12000

82 746 ...

£

Y8

151.26 11070

151.26 12070

164.46 13070

102.45 11069

102.45 12069

109.41 13069

114.16 14069

140.06 11068

144.96 12068

144.96 13068

149.68 14068

162.77 15068

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

Accessories

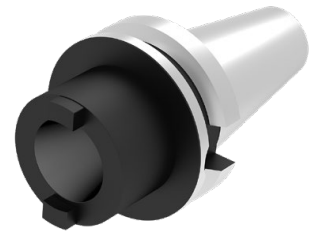
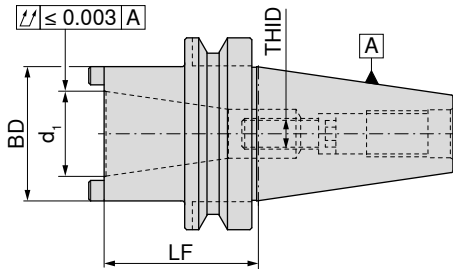
		
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 110-111	→ 284

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



NEW



A
G 6,3 n_{max} 8000

84 040 ...

£

Y8

246.56 13069

246.56 14069

262.50 14068

Adapter	d _i	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	

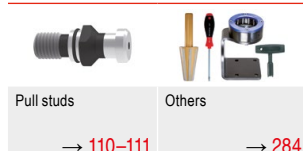
Spare parts for Article no.

Article no.	Clamping screw SK	Clamping Screw	Counterscrew	Hollow key with nose	Threaded ring	clamping screw
84 040 13069	£ Y8/3B	£ Y8	£ Y8/3B	£ Y8/3B	£ Y8	£ Y8/3B
84 040 14069	14.17 264	7.47 43700	1.01 030	51.95 017	52.21 127	9.39 125
84 040 14068	13.23 009	7.47 43600	1.01 030	78.41 133	49.41 43800	

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

ISO 7388-2 Suitable for article no.	Taper Shank	Clamping screw length	Clamping screw length
	Ø d _i	ISO 7388-1, ISO 7388-2 THID	DIN 2080 THID
84 040 13069	SK 30 – BT 30		M12x30 – 83 950 125
84 040 14069	SK 40 – BT 40	M16x70 – 83 950 264	M16x45 – 84 950 43700
84 040 14068	SK 40 – BT 40	M16x65 – 84 950 43600	M16x40 – 83 950 009

Accessories



Pull studs

Others

→ 110–111

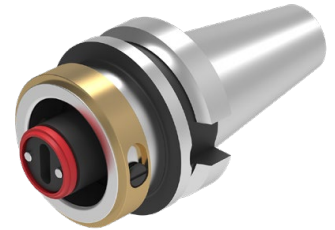
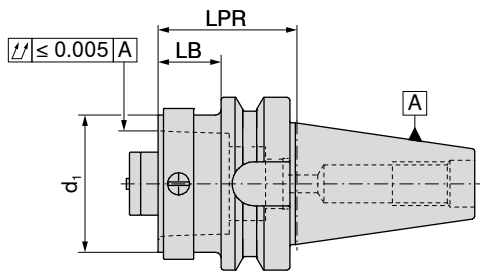
→ 284

BT/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

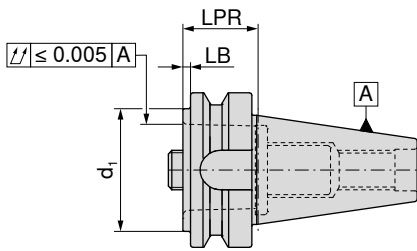
84 016 ...

Adapter	d ₁	LB	LPR	£	
		mm	mm	Y8	
BT 40	HSK-A 32	13	40	1,189.04	04060
BT 40	HSK-A 40	13	40	1,211.35	04059
BT 40	HSK-A 50	23	50	1,233.40	04058
BT 40	HSK-A 63	43	70	1,211.35	04057
BT 50	HSK-A 32	12	50	1,498.60	05060
BT 50	HSK-A 40	12	50	1,498.60	05059
BT 50	HSK-A 50	22	60	1,542.71	05058
BT 50	HSK-A 63	22	60	1,630.95	05057
BT 50	HSK-A 100	52	90	1,852.27	05055

BT/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 017 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	Part No.
BT 40	PSC 32	3	30	768.97	04087
BT 40	PSC 40	3	30	791.26	04095
BT 40	PSC 50	3	30	791.26	04094
BT 40	PSC 63	58	85	768.97	04093
BT 50	PSC 32	2	40	1,056.22	05087
BT 50	PSC 40	2	40	1,233.40	05095
BT 50	PSC 50	2	40	1,078.51	05094
BT 50	PSC 63	2	40	1,122.64	05093
BT 50	PSC 80	32	70	1,166.98	05086



84 950 ...

£
Y8



84 950 ...

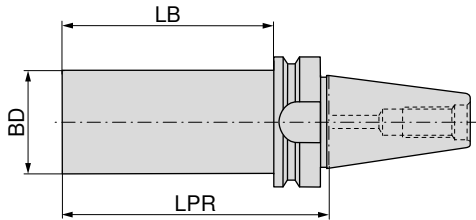
£
Y8

Spare parts
d₁

PSC 32	52.21	127	SW8	37.89	122
PSC 40	52.21	128	SW8	42.70	123
PSC 50	52.21	129	SW10	42.70	124
PSC 63	104.24	130	SW14	47.53	126
PSC 80	104.24	130	SW14	47.53	126

Blank

- ▲ Material: Steel 16MnCr5
- ▲ 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**



NEW



AD/B

82 747 ...

£
Y8

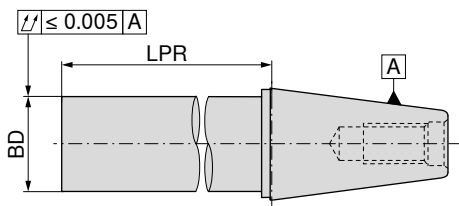
135.70 16369
240.18 16368

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

Test bar

- ▲ Without tool change groove
- ▲ Use for MAS BT 40 special pull studs with 3 mm shorter LF dimension, as standard

Scope of supply:
in wooden box



NEW



A

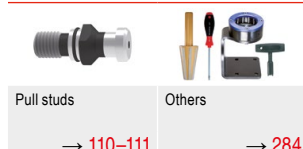
81 746 ...

£
Y8

591.64 14079
729.43 15078

Adapter	BD mm	LPR mm
SK / BT 40	40	320
SK / BT 50	50	320

Accessories

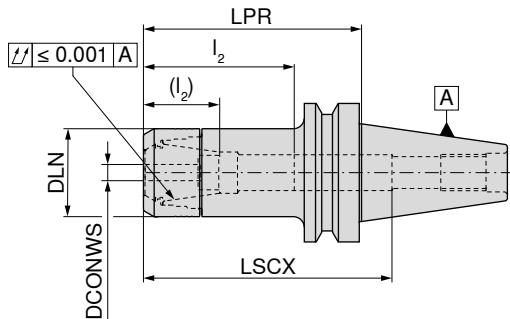


ER Precision Collet chuck – Centro-P – BT-FC

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

Scope of supply:

Holder **without nut, without backstop**



AD
G 2,5 n_{max} 25000

84 525 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	322.64	002
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	324.75	00400
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	373.17	00600
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	327.25	012
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	327.25	022
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	359.51	102
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	310.64	10400
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	397.37	10600
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	310.64	11400
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	364.13	112
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	425.60	11600
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	364.13	122
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	310.64	12400
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	425.60	12600

→ Transmittable torque moments, Page 313

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

Spare parts for Article no.	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
84 525 002	96.95	011	72.00	001	60.14	341	40.28	337
84 525 012	108.06	013	80.00	003	42.31	432	30.17	431
84 525 022	115.55	015	88.00	005	35.73	402	26.03	401
84 525 102	96.95	011	72.00	001	60.14	341	40.28	337
84 525 112	108.06	013	80.00	003	42.31	432	30.17	431
84 525 122	115.55	015	88.00	005	35.73	402	26.03	401

Accessories

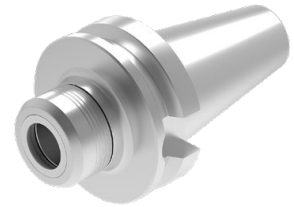
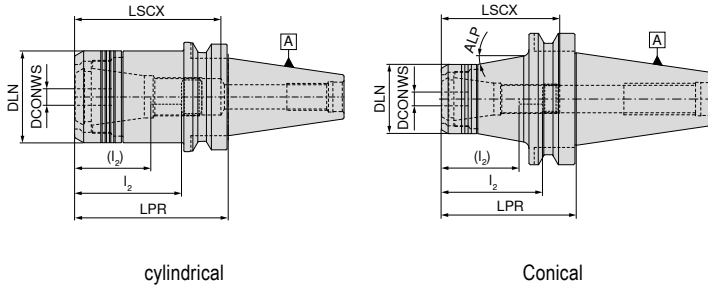
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 280	→ 286	→ 286	→ 110-111	→ 284

ER precision collet chuck – HDC – BT-FC

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

Scope of supply:

Base body including lock nut, without backstop screw



AD
G 6,3 p_{max} 18000

cylindrical



AD
G 6,3 p_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	£	£
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	645.40	12064
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)	663.10	22064
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)		1,075.66 12063
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)		1,085.78 22063

→ Transmittable torque moments, Page 313



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
£	£	£
Y8	Y8	Y8
134.15 30100	35.73 402	26.03 401

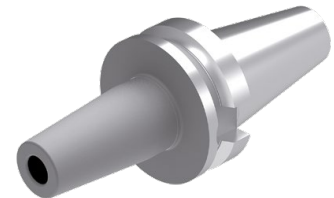
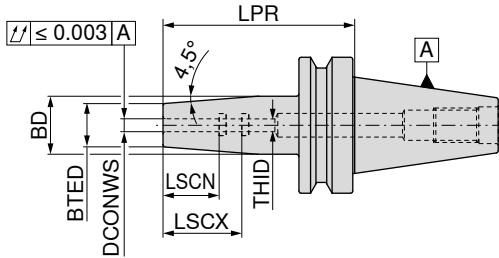
Accessories

ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 110-111	→ 284

Shrink fit adapters 4.5° – BT-FC

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

TG



AD

G 2,5 n_{max} 25000

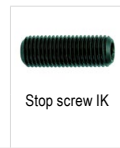


AD/B

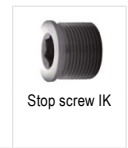
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 325 ...		
									£	£	
short	BT-FC 30	3	85	10	17	28	12	M6	269.35	003	
	BT-FC 30	4	85	15	22	28	16	M6	269.35	004	
	BT-FC 30	5	85	15	22	30	20	M6	269.35	005	
	BT-FC 30	6	85	21	27	36	26	M5	269.35	006	
	BT-FC 30	8	85	21	27	36	26	M6	269.35	008	
	BT-FC 30	10	85	24	32	41	31	M8x1	269.35	010	
	BT-FC 30	12	85	24	32	47	37	M10x1	269.35	012	
	BT-FC 30	16	85	27	34	50	40	M12x1	269.35	016	
	BT-FC 30	20	85	33	42	52	42	M16x1	269.35	020	
	BT-FC 40	3	90	10	17	28	12	M6		239.09	103
	BT-FC 40	4	90	15	22	28	16	M6		239.09	104
	BT-FC 40	5	90	15	22	30	20	M6		239.09	105
	BT-FC 40	6	90	21	27	36	26	M5		239.09	106
	BT-FC 40	8	90	21	27	36	26	M6		239.09	108
	BT-FC 40	10	90	24	32	41	31	M8x1		239.09	110
	BT-FC 40	12	90	24	32	47	37	M10x1		239.09	112
	BT-FC 40	16	90	27	34	50	40	M12x1		239.09	116
	BT-FC 40	20	90	33	42	52	42	M16x1		239.09	120
	BT-FC 40	25	100	44	53	58	48	M16x1		239.09	125

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts

DCONWS		83 950 ...	£	83 950 ...	£
3 - 5	M6x14 - SW2	25.16	417	M5x12,5 - SW2,5	25.16
6				M6x12,5 - SW3	25.16
8				M8x1x13,5 - SW3	25.16
10				M10x1x13,5 - SW5	25.16
12				M12x1x13,5 - SW5	25.16
16				M16x1x13,5 - SW8	29.02
20 - 25					424

Accessories

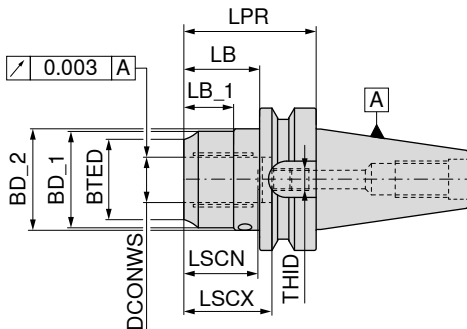
Shrink fit extension	Pull studs	Others
→ 247	→ 110-111	→ 284

HyPower – Complus

- ▲ High pressure chuck, short and stable version – BT-FC
- ▲ with face contact
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 527 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LB_1 mm	LSCX mm	LSCN mm	THID	£	
BT-FC 40	20	72.5	38					51	40	M16x1x13,5	482.32	120
BT-FC 40	32	90.0	54	63	62	64.0	48	61	51	M16x1x13,5	585.34	13274
BT-FC 50	20	83.5	38	49		47.0		51	41	M16x1x13,5	700.52	12073
BT-FC 50	32	90.0	57	68	72	53.5	35	61	51	M16x1x13,5	700.52	13273

→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

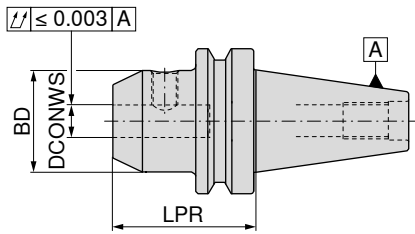
Article no.	Part	£		Part	£		Part	£	
83 527 120	SW5	8.11	050	M10x1x10	22.91	158	M8x1x13,5 - SW3	25.16	420
83 527 13274	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 527 12073	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424
83 527 13273	SW5	8.11	050	M10x1x14	11.52	429	M16x1x13,5 - SW8	29.02	424

Accessories

Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

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		
					£	
short	BT-FC 30	6	50	25	140.14	006
	BT-FC 30	8	50	28	140.14	008
	BT-FC 30	10	50	35	140.14	010
	BT-FC 30	12	50	42	140.14	012
	BT-FC 30	16	63	48	150.36	016
	BT-FC 30	20	63	52	150.36	020
	BT-FC 40	6	50	25	177.60	106
	BT-FC 40	8	50	28	171.84	108
	BT-FC 40	10	63	35	171.84	110
	BT-FC 40	12	63	42	171.84	112
	BT-FC 40	16	63	48	171.84	116
	BT-FC 40	20	63	52	171.84	120
	BT-FC 40	25	90	65	228.45	125 ¹⁾
	BT-FC 40	32	100	72	228.45	132 ¹⁾
	BT-FC 50	6	63	25	263.59	306
	BT-FC 50	8	63	28	255.80	308
	BT-FC 50	10	63	35	255.80	310
	BT-FC 50	12	80	42	255.80	312
	BT-FC 50	16	80	48	255.80	316
	BT-FC 50	20	80	52	255.80	320
	BT-FC 50	25	100	65	292.84	325 ¹⁾
	BT-FC 50	32	105	72	292.84	332 ¹⁾

1) Version with two grub screws



Grubscrew

62 950 ...

Spare parts

DCONWS

		£	
6	M6x10	1.16	006
8	M8x10	1.16	008
10	M10x12	2.22	010
12	M12x16	1.76	012
16	M14x16	2.18	016
20	M16x16	2.32	020
25	M18x2x20	4.48	025
32	M20x2x20	4.68	032

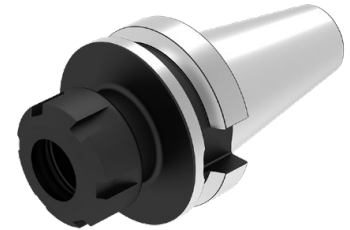
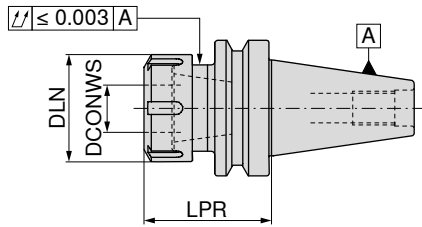
Accessories

Pull studs	Others
→ 110-111	→ 284

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)	158.15	010 ¹⁾
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	158.15	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	158.15	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	199.21	110 ¹⁾
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	199.21	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	199.21	120
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	271.38	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	271.38	320
medium length	BT-FC 50	1 - 10	100	28	56	426E (ER16)	271.38	310 ¹⁾

1) with 6 position lock nut

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
426E (ER16) / BT30-BT50	33.81	044	87.05	054	28.01	055	29.58	125
430E (ER25) / BT30-BT50			101.40	055	35.87	65600	43.08	132
470E (ER32) / BT30-BT50			108.45	056				

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

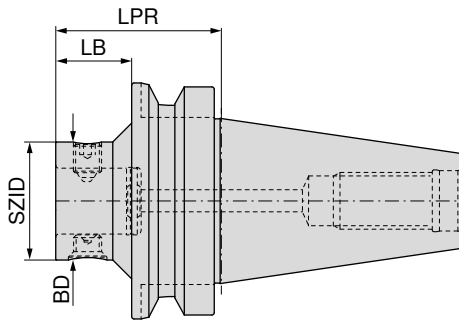
Accessories

ER collet	Pull studs	Others
→ 268-276, 278-279	→ 110-111	→ 284

Adapter with ABS Connection – BT-FC

▲ with face contact

▲ also available with Balluff chip on request



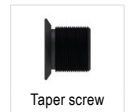
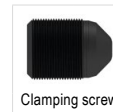
AD

Adapter	SZID	BD	LPR	LB
		mm	mm	mm
BT-FC 40	ABS 50	50	60	33
BT-FC 40	ABS 63	63	70	
BT-FC 50	ABS 50	50	70	32
BT-FC 50	ABS 63	63	80	42
BT-FC 50	ABS 80	80	100	62
BT-FC 50	ABS 100	100	110	

84 264 ...

£
Y8

1,210.85	05064
1,245.87	06364
1,648.33	05063
1,692.53	06363
1,718.35	08063
1,736.96	10063



84 950 ...

£
XX

11.49	20300
10.93	25500
13.45	25600
16.56	25700

84 950 ...

£
XX

14.59	20400
13.87	27300
16.36	25100
18.17	25200

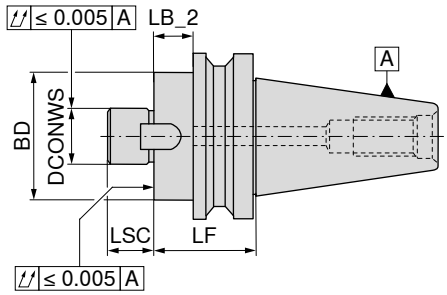
Spare parts

SZID

ABS 50
ABS 63
ABS 80
ABS 100

Shell mill adapter – BT-FC

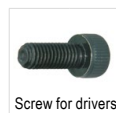
- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip **on request**



AD
G 6,3 n_{max} 15000

84 562 ...

Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	Price (£)	Code
short	BT-FC 30	16	18	39.0	40	154.27	016
	BT-FC 30	22	18	39.0	50	154.27	022
	BT-FC 30	27	18	39.0	60	154.27	027
	BT-FC 30	32	28	49.0	80	154.27	032
	BT-FC 40	16	8	34.0	40	185.51	116
	BT-FC 40	22	8	34.0	50	185.51	122
	BT-FC 40	27	8	34.0	60	185.51	127
	BT-FC 40	32	23	49.0	80	185.51	132
	BT-FC 40	40	23	49.0	89	185.51	140
	BT-FC 50	22	12	48.5	50	214.75	322
	BT-FC 50	27	12	48.5	60	214.75	327
	BT-FC 50	32	12	48.5	80	228.45	332
BT-FC 50	40	17	53.5	89	228.45	340	



Screw for drivers



Driver



clamping screw

Spare parts

DCONWS	Part	Price (£)	Code
16	M3x12	10.40	162
	M4x10	10.40	163
	M4x16	10.40	164
27	M5x16	10.40	165
	M5x16	10.40	166
32	8x9x11	26.43	157
	10x11,2x13	31.12	158
	12x12,6x15	33.71	159
40	14x14x22,5	38.31	160
	16x16x23	42.64	161
M8x25	M8x25	7.53	113
	M10x25	8.50	124
	M12x30	9.39	125
M16x35	M16x35	11.43	126
	M20x40 - SW17	12.61	112

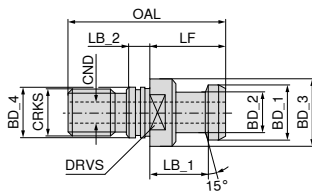
Accessories

Pull studs	Others
→ 110-111	→ 284

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:
including O-Ring



83 532 ...

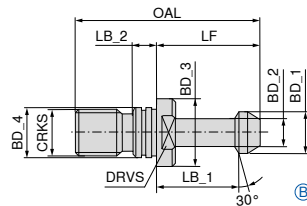
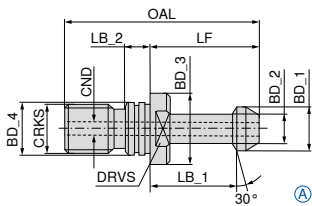
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	50

£
Y8
23.24 040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



82 533 ...

82 531 ...

Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	20	A
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	50	A
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	150	A
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	20	B
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	50	B
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	150	B

£
Y8

£
Y8

23.07 030
23.07 040
29.67 050

23.07 030
19.75 040
28.02 050



83 476 ...

Spare parts

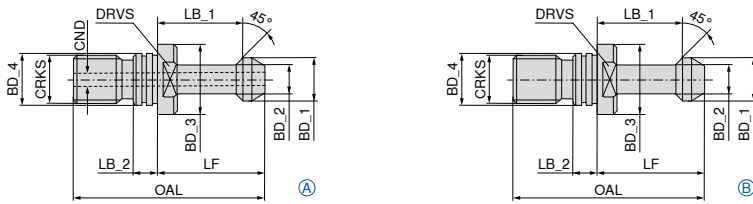
BD_4

17	BT / SK 40	£ 3.16	Y8	040
25	BT / SK 50	£ 3.16	Y8	050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

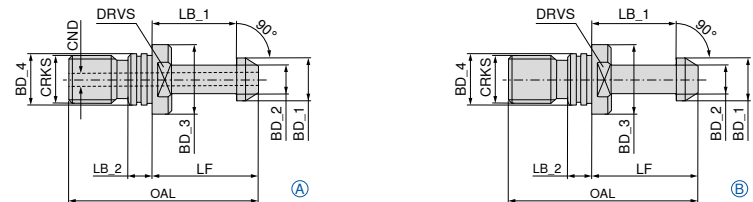


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														£		£	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	20	A	Y8		23.07	030
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	50	A			23.07	040
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	150	A			29.67	050
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	20	B	23.07	030		
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	50	B	19.75	040		
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	150	B	28.02	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



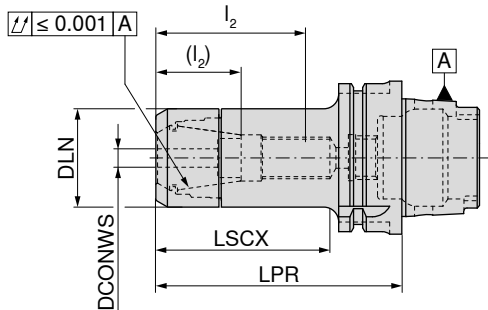
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														£		£	
BT 40	15	10	23	17	M16	60	35	28	5.5	4	19	50	A	Y8		23.07	040
BT 50	23	17	38	25	M24	85	45	35	8.0	6	30	150	A			29.67	050
BT 40	15	10	23	17	M16	60	35	28	5.5		19	50	B	19.75	040		
BT 50	23	17	38	25	M24	85	45	35	8.0		30	150	B	28.02	050		

ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 722 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£ Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	323.31	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	374.31	404 ¹⁾
HSK-A 40	2 - 20	61	50	45		470E (ER32)	405.44	407 ¹⁾
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	374.31	505
HSK-A 50	2 - 16	60	40	37		430E (ER25)	374.31	504 ¹⁾
HSK-A 63	1 - 10	55	30	32		426E (ER16)	361.66	609 ¹⁾
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	351.88	610
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	427.80	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	723.15	612
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	405.44	613
HSK-A 63	2 - 16	60	40	37		430E (ER25)	361.66	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	351.88	616
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	449.52	617
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	436.60	619
HSK-A 63	2 - 20	70	50	46		470E (ER32)	351.88	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	351.88	621
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	449.52	622
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	436.60	625
HSK-A 63	3 - 26	120	63	91		472E (ER40)	373.17	62700
HSK-A 63	3 - 26	80	63	56		472E (ER40)	452.04	626 ²⁾
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	538.57	11200
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	696.82	110
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	997.91	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	538.57	11800
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	997.91	117
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	696.82	116
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	1,423.45	122
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	1,023.19	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	538.57	12400

1) Item cannot be combined with backstop screw

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

→ Transmittable torque moments, Page 313



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

Spare parts ER precision collet chuck – Centro-P

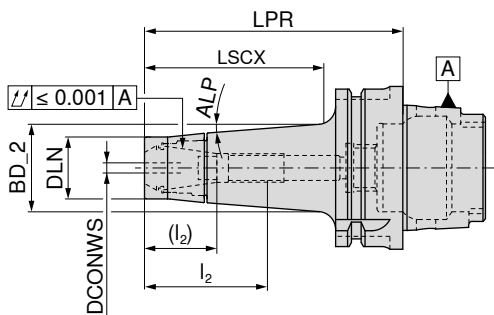
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	96.95	011	72.00	001	60.14	341	40.28	337
426E (ER16)	96.95	011	72.00	001	42.31	432	30.17	431
430E (ER25)	108.06	013	80.00	003	35.73	402	26.03	401
470E (ER32)	115.55	015	88.00	005			36.47	400
472E (ER40)	158.03	017	128.02	007				

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	BD_2	LSCX	l_2 (l_2)	ALP	for collet	£	
HSK-A 40	1 - 10	100	24	30.8	67	26 - 47 (12 - 32)	2.0°	426E (ER16)	374.31	310
HSK-A 50	1 - 10	65	24	28.9	44	26 - 32	4.5°	426E (ER16)	374.31	710
HSK-A 50	1 - 10	100	24	34.4	77	26 - 47 (12 - 32)	4.5°	426E (ER16)	374.31	810
HSK-A 63	1 - 10	130	24	36.0	77	28 - 48 (20 - 35)	3.5°	426E (ER16)	328.78	61200
HSK-A 63	1 - 10	100	24	33.8	74	28 - 48 (20 - 35)	4.5°	426E (ER16)	351.88	610
HSK-A 63	1 - 10	160	24	36.0	106	28 - 48 (20 - 35)	2.5°	426E (ER16)	410.64	611

→ Transmittable torque moments, Page 313

- 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

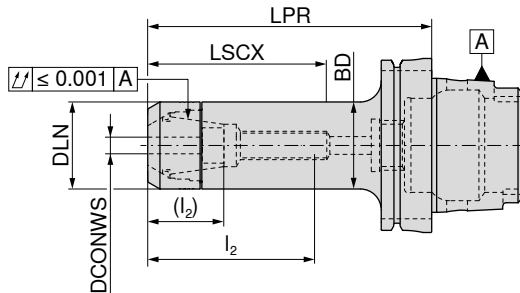
Spare parts for collet	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	119.03	033	100.56	031	60.14	341	40.28	337

ER precision collet chuck, slim – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 719 ...

Adapter	DCONWS mm	LPR mm	BD mm	DLN mm	LSCX mm	I ₂ (I ₂) mm	for collet	£	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	467.92	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	358.62	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	374.93	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	461.66	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	488.71	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	358.62	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	358.62	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	461.66	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	461.66	910

→ Transmittable torque moments, Page 313

i 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
4008E (ER11)	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	97.92 035	100.56 041 80.34 034	57.32 340 60.14 341	38.17 336 40.28 337

Accessories

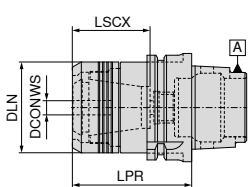
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 156	→ 284

ER precision collet chuck – HDC

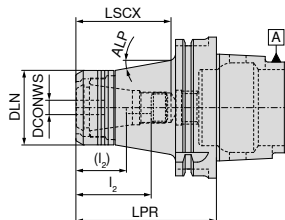
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

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)	506.19	12057
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	506.19	22057
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)	840.28	22055

→ Transmittable torque moments, Page 313



LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
£ Y8	£ Y8	£ Y8
134.15 30100	35.73 402	26.03 401

Accessories

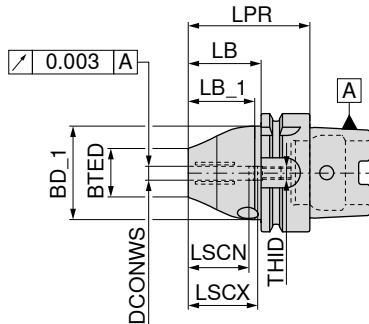
ER collet	Roll key	Roll key device	Others
→ 268-276, 278-279	→ 286	→ 286	→ 284

HyPower – Rough

- ▲ High pressure chuck – especially for milling
- ▲ Ideal for HSC and HPC applications
- ▲ High temperature resistance
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



AD
G 2,5 n_{max} 25000

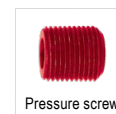
84 254 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	£ Y8	
HSK-A 63	6	65	26	50.0	35.2	39	37	27	M5	698.63	10657
HSK-A 63	8	65	28	50.0	35.2	39	37	27	M6	698.63	10857
HSK-A 63	10	75	30	50.0	45.2	49	41	31	M8x1	698.63	11057
HSK-A 63	12	75	32	52.5	45.2	49	46	36	M8x1	698.63	11257
HSK-A 63	16	79	38	52.5	49.2	53	49	39	M8x1	698.63	11657
HSK-A 63	20	79	38	52.5	49.2	53	51	41	M8x1	698.63	12057
HSK-A 100	6	73	26	50.0	40.2	44	37	27	M5	953.54	10655
HSK-A 100	8	73	28	50.0	40.2	44	37	27	M6	953.54	10855
HSK-A 100	10	83	30	50.0	50.2	54	41	31	M8x1	953.54	11055
HSK-A 100	12	83	32	52.5	50.2	54	46	36	M8x1	953.54	11255
HSK-A 100	16	87	38	52.5	54.2	58	49	39	M8x1	953.54	11655
HSK-A 100	20	87	38	52.5	54.2	58	51	41	M8x1	953.54	12055

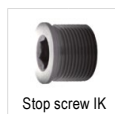
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts DCONWS	80 397 ...		83 950 ...		83 950 ...	
	£ Y7		£ Y8		£ Y7	
6	8.11	050	13.60	55000	25.16	418
8	8.11	050	13.60	55000	25.16	419
10	8.11	050	13.60	55000	25.16	420
12	8.11	050	13.60	55000	25.16	420
16	8.11	050	13.60	55000	25.16	420
20	8.11	050	13.60	55000	25.16	420

Accessories



Reduction sleeve

Coolant transfer pipe

Others

→ 282

→ 156

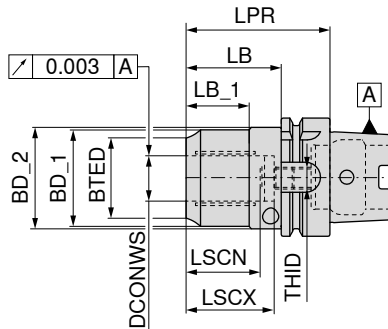
→ 284

HyPower – Complus

- ▲ 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



NEW



AD
G 2,5 n_{max} 25000

83 722 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LB	LSCX	LSCN	THID	£	
HSK-A 63	20	80	36	49	52.5	36	54	51	40	M8x1	490.18	120
HSK-A 63	32	105	54	63	52.5	55	79	61	51	M16x1	592.33	13257
HSK-A 100	20	85	38	49	52.5	36	56	51	41	M8x1	800.79	12055
HSK-A 100	32	100	57	68	72.0	42	71	61	51	M8x1	800.79	13255

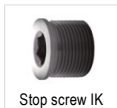
→ Min. clamping depth, Page 312



Clamping key - T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

Article no.	Part	£		Part	£		Part	£	
83 722 120	SW5	8.11	050	M10x1x10	22.91	158	M8x1x13,5 - SW3	25.16	420
83 722 13257	SW5	8.11	050	M10x1x10	22.91	158	M16x1x13,5 - SW8	29.02	424
83 722 12055	SW5	8.11	050	M10x1x10	22.91	158	M8x1x13,5 - SW3	25.16	420
83 722 13255	SW5	8.11	050	M10x1x10	22.91	158	M8x1x13,5 - SW3	25.16	420

Accessories

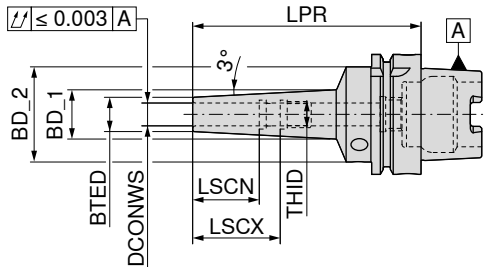
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

HyPower – Access 3°

- ▲ 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	LPR	BTED	BD_1	BD_2	LSCX	LSCN	THID	£	
		mm	mm	mm	mm	mm	mm	mm	mm	Y8	
medium length	HSK-A 63	3	120	9	16.65	50	28	12	M3	937.09	603
	HSK-A 63	4	120	10	17.65	50	28	16	M3	937.09	604
	HSK-A 63	5	120	11	18.65	50	28	20	M3	937.09	605
	HSK-A 63	6	120	12	19.75	50	37	27	M5	807.29	606
	HSK-A 63	8	120	14	21.75	50	37	27	M6	807.29	608
	HSK-A 63	10	120	16	23.75	50	41	31	M8x1	807.29	610
	HSK-A 63	12	120	18	25.86	50	46	36	M10x1	807.29	612
	HSK-A 63	16	120	24	31.50	50	49	39	M12x1	1,255.56	616
	HSK-A 63	20	120	28	35.55	50	51	41	M16x1	1,255.56	620
extra-long	HSK-A 63	6	160	16	33.53	50	37	27	M5	1,326.36	706
	HSK-A 63	8	160	18	34.55	50	37	27	M6	1,326.36	708
	HSK-A 63	10	160	20	36.27	50	41	31	M8x1	1,326.36	710
	HSK-A 63	12	160	22	37.78	50	46	36	M10x1	1,326.36	712
extra long	HSK-A 63	6	200	16	37.83	50	37	27	M5	1,466.56	806
	HSK-A 63	8	200	18	38.85	50	37	27	M6	1,466.56	808
	HSK-A 63	10	200	20	40.57	50	41	31	M8x1	1,466.56	810
	HSK-A 63	12	200	22	42.07	50	46	36	M10x1	1,466.56	812

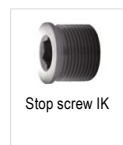
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

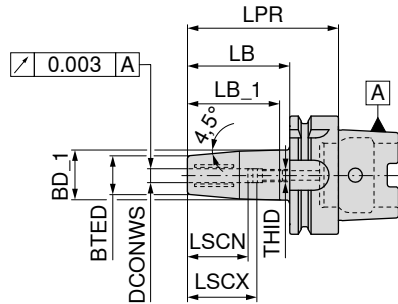
Spare parts	80 397 ...				83 950 ...				83 950 ...			
	DCONWS	£			£			£				
		Y7			Y7			Y7				
3	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172			
4	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172			
5	SW5	8.11	050	M10x1x10	22.91	158	M3x20 - SW1,5	17.47	172			
6	SW5	8.11	050	M10x1x10	22.91	158	M5x12,5 - SW2,5	25.16	418			
6	SW5	8.11	050	M10x1x10	22.91	158	M6x12,5 - SW3	25.16	419			
8	SW5	8.11	050	M10x1x10	22.91	158	M6x12,5 - SW3	25.16	419			
10	SW5	8.11	050	M10x1x12	22.91	159	M8x1x13,5 - SW3	25.16	420			
12	SW5	8.11	050	M10x1x12	22.91	159	M10x1x13,5 - SW5	25.16	421			
16	SW5	8.11	050	M10x1x12	22.91	159	M12x1x13,5 - SW5	25.16	422			
20	SW5	8.11	050	M10x1x12	22.91	159	M16x1x13,5 - SW8	29.02	424			

HyPower – Access 4.5°

- ▲ High pressure chuck with slim contour, original dimensions of a 4.5° shrink contour
- ▲ Especially for reaming and drilling applications
- ▲ Ideal for tool and die production
- ▲ Also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw



NEW



AD

G 2,5 n_{max} 25000

84 255 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	£ Y8	
HSK-A 63	6	80	21	27	48.9	54	37	27	M5	849.69	10657
HSK-A 63	8	80	21	27	48.9	54	37	27	M6	849.69	10857
HSK-A 63	10	85	24	32	53.7	59	41	31	M8x1	849.69	11057
HSK-A 63	12	90	24	32	58.6	64	46	36	M10x1	849.69	11257
HSK-A 63	16	95	27	34	63.1	69	49	39	M12x1	849.69	11657
HSK-A 63	20	100	33	42	68.9	74	51	41	M16x1	849.69	12057
HSK-A 100	6	85	21	27	38.7	56	37	27	M5	1,098.93	10655
HSK-A 100	8	85	21	27	38.7	56	37	27	M6	1,098.93	10855
HSK-A 100	10	90	24	32	53.7	61	41	31	M8x1	1,098.93	11055
HSK-A 100	12	95	24	32	58.6	66	46	36	M10x1	1,098.93	11255
HSK-A 100	16	100	27	34	63.1	71	49	39	M12x1	1,098.93	11655
HSK-A 100	20	105	33	42	68.9	76	51	41	M16x1	1,098.93	12055

→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.	80 397 ...		83 950 ...		83 950 ...	
	£ Y7		£ Y8		£ Y7	
84 255 10657	8.11	050	11.05	55100	25.16	418
84 255 10857	8.11	050	11.05	55100	25.16	419
84 255 11057	8.11	050	11.05	55100	25.16	420
84 255 11257	8.11	050	11.05	55100	25.16	421
84 255 11657	8.11	050	11.05	55100	25.16	422
84 255 12057	8.11	050	11.05	55100	29.02	423
84 255 10655	8.11	050	11.05	55100	25.16	418
84 255 10855	8.11	050	13.60	55000	25.16	419
84 255 11055	8.11	050	13.60	55000	25.16	420
84 255 11255	8.11	050	13.60	55000	25.16	421
84 255 11655	8.11	050	13.60	55000	25.16	422
84 255 12055	8.11	050	13.60	55000	29.02	423

Accessories

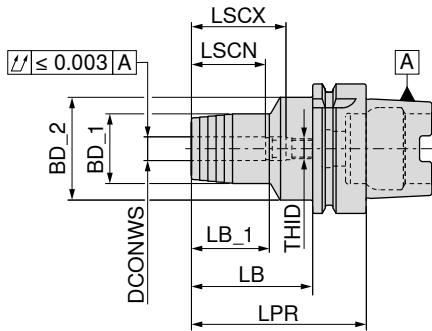
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

HyTens – Fit

- ▲ Hydraulic chuck, short and slim version
- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 726 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID		
											£	
short	HSK-A 63	6	70	26	49.5	24	44	37	27	M5	955.91	606
	HSK-A 63	8	70	28	49.5	24	44	37	27	M6	955.91	608
	HSK-A 63	10	80	30	49.5	32	54	41	31	M8x1	955.91	610
	HSK-A 63	12	85	32	49.5	40	59	46	36	M10x1	876.59	612
	HSK-A 63	16	90	38	49.5	46	64	49	39	M12x1	955.91	616
	HSK-A 63	20	90	42	49.5	48	64	51	41	M16x1	876.59	620
	HSK-A 63	25	120	57	52.0	63	94	57	47	M16x1	955.91	625
	HSK-A 63	32	125	63	53.0	61	99	61	51	M16x1	955.91	632
	HSK-A 100	6	75	26	50.0	26	46	37	27	M5	1,108.37	10655
	HSK-A 100	8	75	28	50.0	26	46	37	27	M6	1,108.37	10855
	HSK-A 100	10	90	30	50.0	42	61	41	31	M8x1	1,108.37	11055
	HSK-A 100	12	95	32	50.0	47	66	46	36	M10x1	1,108.37	11255
	HSK-A 100	16	100	38	50.0	53	71	49	39	M12x1	1,108.37	11655
	HSK-A 100	20	105	42	50.0	59	76	51	41	M16x1	1,108.37	12055
	HSK-A 100	25	110	57	63.0	62	81	57	47	M16x1	1,108.37	12555
	HSK-A 100	32	110	63	67.0	62	81	61	51	M16x1	1,108.37	13255

→ Min. clamping depth, Page 312

Version for MMS hydraulic chuck – 1 and 2-channel



83 432 HSK-63 1-channel



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

83 432 HSK-100 1-channel



83 433 HSK-63 2-channel



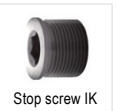
This article can be found in our online shop at cuttingtools.ceratizit.com

83 433 HSK-100 2-channel

Spare parts HyTens – Fit



Pressure screw



Stop screw IK

Spare parts for Article no.		83 950 ...		83 950 ...	
		£ Y7		£ Y7	
83 726 606	M10x1x12	17.42	440	M5x12,5 - SW2,5	25.16 418
83 726 608	M10x1x12	17.42	440	M6x12,5 - SW3	25.16 419
83 726 610	M10x1x12	17.42	440	M8x1x13,5 - SW3	25.16 420
83 726 612	M10x1x12	17.42	440	M10x1x13,5 - SW5	25.16 421
83 726 616	M10x1x12	17.42	440	M12x1x13,5 - SW5	25.16 422
83 726 620	M10x1x12	17.42	440	M16x1x13,5 - SW5	29.02 423
83 726 625	M10x1x12	17.42	440	M16x1x13,5 - SW5	29.02 423
83 726 632	M10x1x12	17.42	440	M16x1x13,5 - SW5	29.02 423
83 726 10655	M10x1x12	17.42	440	M5x12,5 - SW2,5	25.16 418
83 726 10855	M10x1x12	17.42	440	M6x12,5 - SW3	25.16 419
83 726 11055	M10x1x12	17.42	440	M8x1x13,5 - SW3	25.16 420
83 726 11255	M10x1x12	17.42	440	M10x1x13,5 - SW5	25.16 421
83 726 11655	M10x1x12	17.42	440	M12x1x13,5 - SW5	25.16 422
83 726 12055	M10x1x12	17.42	440	M16x1x13,5 - SW8	29.02 424
83 726 12555	M10x1x12	17.42	440	M16x1x13,5 - SW8	29.02 424
83 726 13255	M10x1x12	17.42	440	M16x1x13,5 - SW8	29.02 424

Accessories

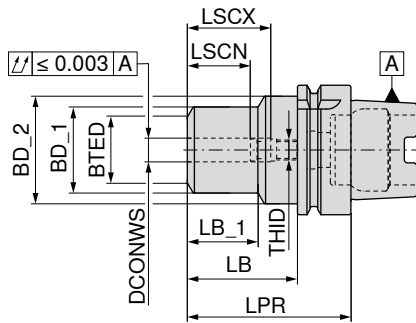
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

HyTens – Compact

- ▲ 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

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

83 430 ...
£ Y8
440.30 01257
440.30 02057
617.98 01255
617.98 02055

→ Min. clamping depth, Page 312

Spare parts

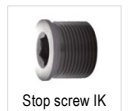
DCONWS	Clamping key – T	Pressure screw	Stop screw IK
12 - 20	SW5	M10x1x12	M8x1x13,5 - SW3



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...	83 950 ...	83 950 ...
£ Y7	£ Y7	£ Y7
8.11 050	17.42 440	25.16 420

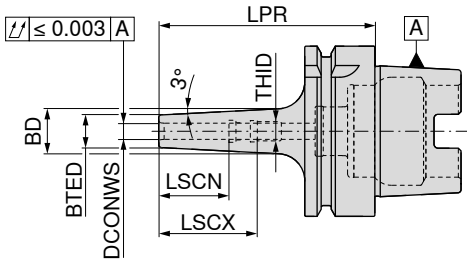
Accessories

Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

Shrink adapter, slim 3°

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

TG

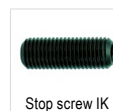


G 2,5 n_{max} 25000

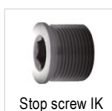
84 324 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
									mm	mm
short	HSK-A 63	3	80	9	14	28	12	M6	720.01	103
	HSK-A 63	4	80	10	15	28	16	M6	700.82	104
	HSK-A 63	5	80	11	16	30	20	M6	700.82	105
	HSK-A 63	6	80	12	17	36	26	M5	633.61	106
	HSK-A 63	8	80	14	19	36	26	M6	633.61	108
	HSK-A 63	10	85	16	21	41	31	M8x1	633.61	110
	HSK-A 63	12	90	18	24	47	37	M10x1	633.61	112
	HSK-A 63	14	90	20	26	47	37	M10x1	633.61	114
	HSK-A 63	16	95	22	28	50	40	M12x1	633.61	116
	HSK-A 63	18	95	24	30	50	40	M12x1	633.61	118
HSK-A 63	20	100	26	33	52	42	M16x1	633.61	120	
medium length	HSK-A 63	3	120	9	16	12	12		768.01	203
	HSK-A 63	4	120	10	17	16	16		758.43	204
	HSK-A 63	5	120	11	18	20	20		758.43	205
	HSK-A 63	6	120	12	21	36	26	M5	681.59	206
	HSK-A 63	8	120	14	23	36	26	M6	681.59	208
	HSK-A 63	10	120	16	25	41	31	M8x1	681.59	210
	HSK-A 63	12	120	18	27	47	37	M10x1	681.59	212
	HSK-A 63	14	120	20	29	47	37	M10x1	681.59	214
	HSK-A 63	16	120	22	31	50	40	M12x1	681.59	216
	HSK-A 63	18	120	24	33	50	40	M12x1	681.59	218
HSK-A 63	20	120	26	35	52	42	M16x1	681.59	220	
extra-long	HSK-A 63	3	160	9	19	12	12		840.01	303
	HSK-A 63	4	160	10	20	16	16		820.81	304
	HSK-A 63	5	160	11	21	20	20		820.81	305
	HSK-A 63	6	160	12	24	36	26	M5	710.42	306
	HSK-A 63	8	160	14	26	36	26	M6	710.42	308
	HSK-A 63	10	160	16	28	41	31	M8x1	710.42	310
	HSK-A 63	12	160	18	30	47	37	M10x1	710.42	312
	HSK-A 63	14	160	20	32	47	37	M10x1	710.42	314
	HSK-A 63	16	160	22	34	50	40	M12x1	710.42	316
	HSK-A 63	18	160	24	36	50	40	M12x1	710.42	318
HSK-A 63	20	160	26	38	52	42	M16x1	710.42	320	

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts

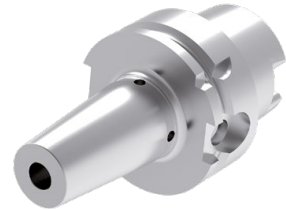
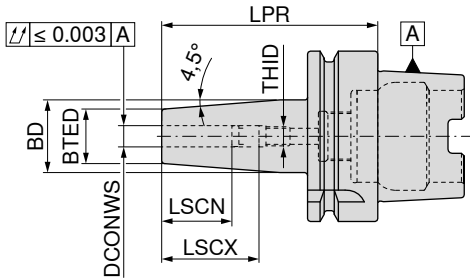
DCONWS

	£		£
3 - 5	Y7	M6x14 - SW2	Y7
6	25.16		25.16
8		M5x12,5 - SW2,5	25.16
10		M6x12,5 - SW3	25.16
12 - 14		M8x1x13,5 - SW3	25.16
16 - 18		M10x1x13,5 - SW5	25.16
20		M12x1x13,5 - SW5	25.16
		M16x1x13,5 - SW8	29.02

Shrink fit adapters 4.5°

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

TG



G 2,5 n_{max} 25000

84 304 ...

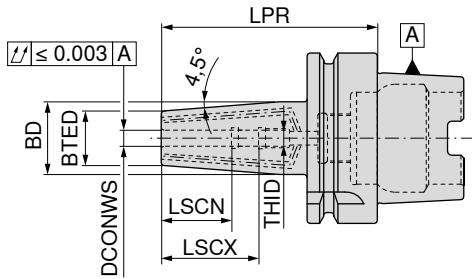
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	£	
									Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	257.42	103
	HSK-A 63	4	80	15	22	26	16	M6	257.42	104
	HSK-A 63	5	80	15	22	30	20	M6	257.42	105
	HSK-A 63	6	80	21	27	36	26	M5	257.42	106
	HSK-A 63	8	80	21	27	36	26	M6	257.42	108
	HSK-A 63	10	85	24	32	41	31	M8x1	257.42	110
	HSK-A 63	12	90	24	32	47	37	M10x1	257.42	112
	HSK-A 63	14	90	27	34	47	37	M10x1	257.42	114
	HSK-A 63	16	95	27	34	50	40	M12x1	257.42	116
	HSK-A 63	18	95	33	42	50	40	M12x1	257.42	118
	HSK-A 63	20	100	33	42	52	42	M16x1	257.42	120
	HSK-A 63	25	115	44	53	58	48	M16x1	257.42	125
	HSK-A 63	32	120	44	53	62	52	M16x1	257.42	132
medium length	HSK-A 63	3	120	10	20	12	12		436.55	203
	HSK-A 63	4	120	15	22	16	16		428.60	204
	HSK-A 63	5	120	15	22	20	20		428.60	205
	HSK-A 63	6	120	21	27	36	26	M5	388.99	206
	HSK-A 63	8	120	21	27	36	26	M6	388.99	208
	HSK-A 63	10	120	24	32	41	31	M8x1	388.99	210
	HSK-A 63	12	120	24	32	47	37	M10x1	388.99	212
	HSK-A 63	14	120	27	34	47	37	M10x1	729.62	214
	HSK-A 63	16	120	27	34	50	40	M12x1	729.62	216
	HSK-A 63	18	120	33	42	50	40	M12x1	729.62	218
	HSK-A 63	20	120	33	42	52	42	M16x1	729.62	220
HSK-A 63	25	120	44	53	58	48	M16x1	729.62	225	
extra-long	HSK-A 63	3	160	10	20	12	12		488.08	303
	HSK-A 63	4	160	15	22	16	16		478.11	304
	HSK-A 63	5	160	15	22	20	20		478.11	305
	HSK-A 63	6	160	21	27	36	26	M5	438.54	306
	HSK-A 63	8	160	21	27	36	26	M6	438.54	308
	HSK-A 63	10	160	24	32	41	31	M8x1	438.54	310
	HSK-A 63	12	160	24	32	47	37	M10x1	438.54	312
	HSK-A 63	14	160	27	34	47	37	M10x1	438.54	314
	HSK-A 63	16	160	27	34	50	40	M12x1	438.54	316
	HSK-A 63	18	160	33	42	50	40	M12x1	438.54	318
	HSK-A 63	20	160	33	42	52	42	M16x1	438.54	320
HSK-A 63	25	160	44	53	62	52	M16x1	438.54	325	
extra long	HSK-A 63	6	200	21	27	36	26	M5	979.19	406
	HSK-A 63	8	200	21	27	36	26	M6	979.19	408
	HSK-A 63	10	200	24	32	41	31	M8x1	979.19	410
	HSK-A 63	12	200	24	32	47	37	M10x1	979.19	412
	HSK-A 63	14	200	27	34	47	37	M10x1	979.19	414
	HSK-A 63	16	200	27	34	50	40	M12x1	979.19	416
	HSK-A 63	18	200	33	42	50	40	M12x1	979.19	418
	HSK-A 63	20	200	33	42	52	42	M16x1	979.19	420
	HSK-A 63	25	200	44	53	62	52	M16x1	979.19	425
	HSK-A 63	32	200	44	53	62	52	M16x1	979.19	432

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG

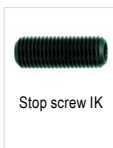


G 2,5 n_{max} 25000

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	788.17	103
	HSK-A 63	4	80	15	22	28	16	M6	766.15	104
	HSK-A 63	5	80	15	22	30	20	M6	766.15	105
	HSK-A 63	6	80	21	27	36	26	M5	695.70	106
	HSK-A 63	8	80	21	27	36	26	M6	695.70	108
	HSK-A 63	10	85	24	32	41	31	M8x1	695.70	110
	HSK-A 63	12	90	24	32	47	37	M10x1	695.70	112
	HSK-A 63	14	90	27	34	47	37	M10x1	695.70	114
	HSK-A 63	16	95	27	34	50	40	M12x1	695.70	116
	HSK-A 63	18	95	33	42	50	40	M12x1	695.70	118
	HSK-A 63	20	100	33	42	52	42	M16x1	695.70	120
	HSK-A 63	25	115	44	53	58	48	M16x1	695.70	125
	HSK-A 63	32	120	44	53	62	52	M16x1	695.70	132

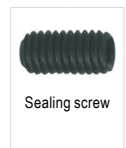
→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK



Sealing screw

Spare parts	83 950 ...		83 950 ...		83 950 ...		
	£		£		£		
DCONWS	Y7		Y7		Y7		
3 - 5		M6x14 - SW2	25.16	417			
6					M5x12,5 - SW2,5	25.16 418	
8					M6x12,5 - SW3	25.16 419	
10					M8x1x13,5 - SW3	25.16 420	
12 - 14					M10x1x13,5 - SW5	25.16 421	
16 - 18		M12x1 - SW5	34.19	510		M2x6	2.02 512
20 - 32		M16x1 - SW5	20.19	511		M2x6	2.02 512
						M2x6	2.02 512

Accessories



Shrink fit extension

Coolant transfer pipe

Others

→ 247

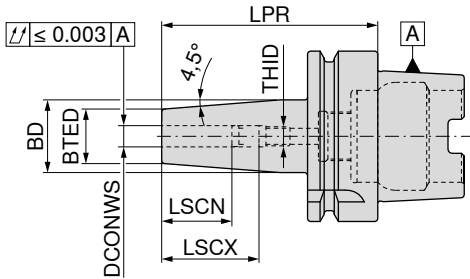
→ 156

→ 284

Shrink fit adapters 4.5°

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

TG



G 2,5 n_{max} 25000

84 305 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£	
short	HSK-A 100	6	85	21	27	36	26	M5	482.75	106
	HSK-A 100	8	85	21	27	36	26	M6	482.75	108
	HSK-A 100	10	90	24	32	41	31	M8x1	482.75	110
	HSK-A 100	12	95	24	32	47	37	M10x1	482.75	112
	HSK-A 100	14	95	27	34	47	37	M10x1	482.75	114
	HSK-A 100	16	100	27	34	50	40	M12x1	482.75	116
	HSK-A 100	18	100	33	42	50	40	M12x1	482.75	118
	HSK-A 100	20	105	33	42	52	42	M16x1	482.75	120
	HSK-A 100	25	115	44	53	58	48	M16x1	482.75	125
	HSK-A 100	32	120	44	53	62	52	M16x1	482.75	132
medium length	HSK-A 100	6	120	21	27	36	26	M5	557.72	206
	HSK-A 100	8	120	21	27	36	26	M6	557.72	208
	HSK-A 100	10	120	24	32	41	31	M8x1	557.72	210
	HSK-A 100	12	120	24	32	47	37	M10x1	557.72	212
	HSK-A 100	14	120	27	34	47	37	M10x1	557.72	214
	HSK-A 100	16	120	27	34	50	40	M12x1	557.72	216
	HSK-A 100	18	120	33	42	50	40	M12x1	557.72	218
	HSK-A 100	20	120	33	42	52	42	M16x1	557.72	220
	HSK-A 100	25	120	44	53	58	48	M16x1	557.72	225
	extra-long	HSK-A 100	6	160	21	27	36	26	M5	640.91
HSK-A 100		8	160	21	27	36	26	M6	640.91	308
HSK-A 100		10	160	24	32	41	31	M8x1	640.91	310
HSK-A 100		12	160	24	32	47	37	M10x1	640.91	312
HSK-A 100		14	160	27	34	47	37	M10x1	640.91	314
HSK-A 100		16	160	27	34	50	40	M12x1	640.91	316
HSK-A 100		18	160	33	42	50	40	M12x1	640.91	318
HSK-A 100		20	160	33	42	52	42	M16x1	640.91	320
HSK-A 100		25	160	44	53	58	48	M16x1	640.91	325
HSK-A 100		32	160	44	53	62	52	M16x1	640.91	332

→ Min. clamping depth, Page 312

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



TG

84 318

HSK-63

1-channel



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

84 318

HSK-100

1-channel



TG

84 319

HSK-63

2-channel



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

84 319

HSK-100

2-channel



Spare parts heat shrink adapter 4.5°



		83 950 ...	
		£	
Spare parts		Y7	
DCONWS			
6	M5x12,5 - SW2,5	25.16	418
8	M6x12,5 - SW3	25.16	419
10	M8x1x13,5 - SW3	25.16	420
12 - 14	M10x1x13,5 - SW5	25.16	421
16 - 18	M12x1x13,5 - SW5	25.16	422
20 - 32	M16x1x13,5 - SW8	29.02	424

Accessories

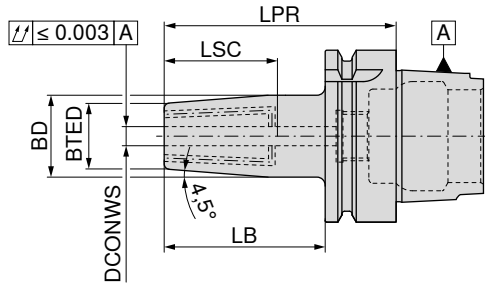
		
Shrink fit extension	Coolant transfer pipe	Others
→ 247	→ 156	→ 284

Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop



G 2,5 n_{max} 25000

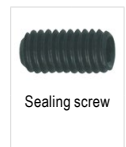
84 717 ...

	Adapter	Dimensions (mm)					LSC (mm)	Price (£)	Code
		DCONWS	LPR	BTED	BD	LB			
short	HSK-A 63	6	80	21	26	54	36.5	496.12	606
	HSK-A 63	8	80	21	26	54	36.5	496.12	608
	HSK-A 63	10	85	24	30	59	41.5	496.12	610
	HSK-A 63	12	90	24	30	64	46.5	496.12	612
	HSK-A 63	14	90	27	34	64	46.5	496.12	614
	HSK-A 63	16	95	27	34	69	49.5	496.12	616
	HSK-A 63	18	95	33	41	69	49.5	496.12	618
	HSK-A 63	20	100	33	41	74	51.5	496.12	620
	HSK-A 63	25	115	44	52	89	57.5	519.36	625
	HSK-A 63	32	120	44	52	94	61.5	692.58	632
	HSK-A 100	6	85	21	26	56	36.5	699.32	106
	HSK-A 100	8	85	21	26	56	36.5	699.32	108
	HSK-A 100	10	90	24	30	56	41.5	699.32	110
	HSK-A 100	12	95	24	30	66	46.5	699.32	112
	HSK-A 100	14	95	27	34	66	46.5	699.32	114
	HSK-A 100	16	100	27	34	71	49.5	699.32	116
	HSK-A 100	18	100	33	42	71	49.5	699.32	118
	HSK-A 100	20	105	33	42	76	51.5	699.32	120
HSK-A 100	25	115	44	53	86	57.5	722.36	125	
HSK-A 100	32	120	44	53	91	61.5	745.74	132	

→ Min. clamping depth, Page 312



Stop screw IK



Sealing screw

62 950 ...

£

W7

62 950 ...

£

W7

Spare parts

DCONWS	Thread	Price (£)	Code	Thread	Price (£)	Code
6	M5x0,8x14	11.43	402	M3x6	2.43	411
8	M6x1x16	11.43	403	M3x6	2.43	411
10	M8x1x20	12.89	404	M3x6	2.43	411
12 - 18	M10x1x20	14.38	405	M3x6	2.43	411
20 - 32	M12x1x20	14.77	406	M4x8	2.43	412

Sealing screw for closing of two additional coolant holes.

Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 247	→ 156	→ 284

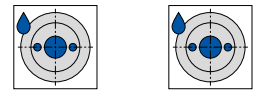
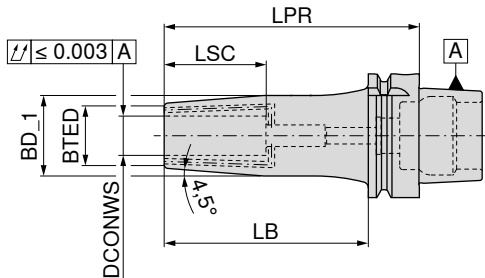
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



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

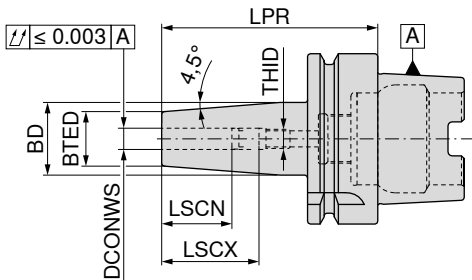
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n _{max} 25000		
								£ Y8	606	£ Y8
long	HSK-A 63	6	130	21	27	104	36.5	692.58	606	
	HSK-A 63	8	130	21	27	104	36.5	692.58	608	
	HSK-A 63	10	130	24	32	104	41.5	692.58	610	
	HSK-A 63	12	130	24	32	104	46.5	692.58	612	
	HSK-A 63	14	130	27	34	104	46.5	692.58	614	
	HSK-A 63	16	130	27	34	104	49.5	692.58	616	
	HSK-A 63	18	130	33	41	104	49.5	692.58	618	
	HSK-A 63	20	130	33	41	104	51.5	692.58	620	
	HSK-A 100	6	130	21	27	101	36.5	948.75	106	
	HSK-A 100	8	130	21	27	101	36.5	948.75	108	
	HSK-A 100	10	130	24	32	101	41.5	948.75	110	
	HSK-A 100	12	130	24	32	101	46.5	948.75	112	
	HSK-A 100	14	130	27	34	101	46.5	948.75	114	
	HSK-A 100	16	130	27	34	101	49.5	948.75	116	
HSK-A 100	18	130	33	41	101	49.5	948.75	118		
HSK-A 100	20	130	33	41	101	51.5	948.75	120		
extra-long	HSK-A 63	6	160	21	27	134	36.5		758.94	606
	HSK-A 63	8	160	21	27	134	36.5		758.94	608
	HSK-A 63	10	160	24	32	134	41.5		758.94	610
	HSK-A 63	12	160	24	32	134	46.5		758.94	612
	HSK-A 63	14	160	27	34	134	46.5		758.94	614
	HSK-A 63	16	160	27	34	134	49.5		758.94	616
	HSK-A 63	18	160	33	41	134	49.5		758.94	618
	HSK-A 63	20	160	33	41	134	51.5		758.94	620
	HSK-A 63	25	160	44	52	134	57.5		728.74	625
	HSK-A 100	6	160	21	27	131	36.5		1,038.54	106
	HSK-A 100	8	160	21	27	131	36.5		1,038.54	108
	HSK-A 100	10	160	24	32	131	41.5		1,038.54	110
	HSK-A 100	12	160	24	32	131	46.5		1,038.54	112
	HSK-A 100	14	160	27	34	131	46.5		1,038.54	114
	HSK-A 100	16	160	27	34	131	49.5		1,038.54	116
	HSK-A 100	18	160	33	41	131	49.5		1,038.54	118
	HSK-A 100	20	160	33	41	131	51.5		1,038.54	120
	HSK-A 100	25	160	44	53	131	57.5		1,038.54	125
HSK-A 100	32	160	44	53	131	61.5		1,038.54	132	

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG

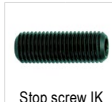


G 2,5 n_{max} 25000

82 310 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	£	
									Y8/3B	
short	HSK-A 63	3	80	10	15	22	12		256.31	10357
	HSK-A 63	4	80	15	22	26	16		256.31	10457
	HSK-A 63	5	80	15	22	30	20		256.31	10557
	HSK-A 63	6	80	21	27	36	26	M5	256.31	10657
	HSK-A 63	8	80	21	27	36	26	M6	256.31	10857
	HSK-A 63	10	85	24	32	41	31	M8x1	256.31	11057
	HSK-A 63	12	90	24	32	47	37	M10x1	256.31	11257
	HSK-A 63	14	90	27	34	47	37	M10x1	256.31	11457
	HSK-A 63	16	95	27	34	50	40	M12x1	256.31	11657
	HSK-A 63	18	95	33	42	50	40	M12x1	256.31	11857
	HSK-A 63	20	100	33	42	52	42	M16x1	256.31	12057
	HSK-A 63	25	115	44	53	58	48	M16x1	256.31	12557
HSK-A 63	32	120	44	53	62	52	M16x1	256.31	13257	
medium length	HSK-A 63	3	120	10	20	12	12		413.84	20357
	HSK-A 63	4	120	15	22	16	16		404.03	20457
	HSK-A 63	5	120	15	22	20	20		404.03	20557
	HSK-A 63	6	120	21	27	36	26	M5	369.73	20657
	HSK-A 63	8	120	21	27	36	26	M6	369.73	20857
	HSK-A 63	10	120	24	32	41	31	M8x1	369.73	21057
	HSK-A 63	12	120	24	32	47	37	M10x1	369.73	21257
	HSK-A 63	14	120	27	34	47	37	M10x1	369.73	21457
	HSK-A 63	16	120	27	34	50	40	M12x1	369.73	21657
	HSK-A 63	18	120	33	42	50	40	M12x1	369.73	21857
	HSK-A 63	20	120	33	42	52	42	M16x1	369.73	22057
	HSK-A 63	25	120	44	53	58	48	M16x1	369.73	22557
extra-long	HSK-A 63	3	160	10	20	12	12		463.50	30357
	HSK-A 63	4	160	15	22	16	16		453.42	30457
	HSK-A 63	5	160	15	22	20	20		453.42	30557
	HSK-A 63	6	160	21	27	36	26	M5	413.84	30657
	HSK-A 63	8	160	21	27	36	26	M6	413.84	30857
	HSK-A 63	10	160	24	32	41	31	M8x1	413.84	31057
	HSK-A 63	12	160	24	32	47	37	M10x1	413.84	31257
	HSK-A 63	14	160	27	34	47	37	M10x1	413.84	31457
	HSK-A 63	16	160	27	34	50	40	M12x1	413.84	31657
	HSK-A 63	18	160	33	42	50	40	M12x1	413.84	31857
	HSK-A 63	20	160	33	42	52	42	M16x1	413.84	32057
	HSK-A 63	25	160	44	53	62	52	M16x1	413.84	32557

→ Min. clamping depth, Page 312

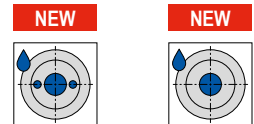
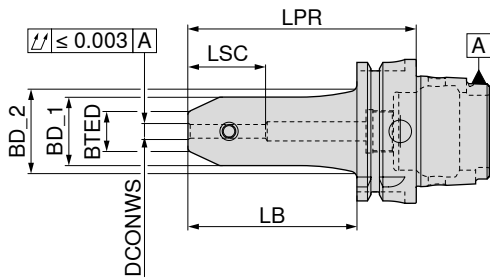


Spare parts

DCONWS		£
3 - 5	M6x16 - SW3	5.39 30100
6	M5x16 - SW2,5	5.32 30000
8	M6x16 - SW3	5.39 30100
10	M8x1x16 - SW4	5.74 30200
12 - 14	M10x1x14 - SW5	6.07 30300
16 - 18	M12x1x16 - SW6	6.40 30400
20 - 32	M16x1x16 - SW8	6.73 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**



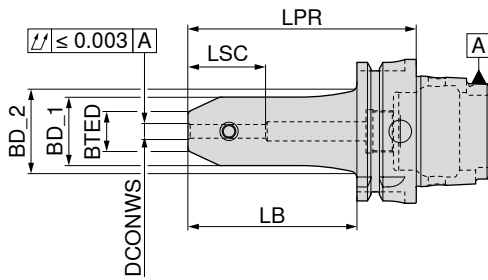
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
									£ Y8/3B	£ Y8/3B
short	HSK-A 63	6	65	17	30		39	34	213.70	10657
	HSK-A 63	8	65	20	32		39	34	213.70	10857
	HSK-A 63	10	65	25	35		39	39	213.70	11057
	HSK-A 63	12	80	30	42		54	44	213.70	11257
	HSK-A 63	14	80	32	45		54	44	213.70	11457
	HSK-A 63	16	80	36	48		54	47	213.70	11657
	HSK-A 63	18	80	38	48		54	47	213.70	11857
	HSK-A 63	20	80	40	52		54	49	213.70	12057
	HSK-A 63	25	110	45	63		84	54	213.70	12557 ¹⁾
	HSK-A 63	32	110	52	72		84	58	213.70	13257 ¹⁾
	HSK-A 100	6	80	17	30		51	34	286.59	10655
	HSK-A 100	8	80	20	32		51	34	286.59	10855
	HSK-A 100	10	80	25	35		51	39	286.59	11055
	HSK-A 100	12	80	30	42		51	44	286.59	11255
	HSK-A 100	14	80	32	45		51	44	286.59	11455
	HSK-A 100	16	100	36	48		71	47	286.59	11655
	HSK-A 100	18	100	38	48		71	47	286.59	11855
	HSK-A 100	20	100	40	52		71	49	286.59	12055
HSK-A 100	25	100	45	65		71	54	286.59	12555 ¹⁾	
HSK-A 100	32	100	52	72		71	58	286.59	13255 ¹⁾	
HSK-A 100	40	110	60	80		81	68	286.59	14055 ¹⁾	
medium length	HSK-A 63	6	100	17	30	36.2	74	34	233.69	20657
	HSK-A 63	8	100	20	32	38.2	74	34	233.69	20857
	HSK-A 63	10	100	25	35	41.2	74	39	233.69	21057
	HSK-A 63	12	100	30	42		74	44	233.69	21257
	HSK-A 63	14	100	32	45		74	44	233.69	21457
	HSK-A 63	16	100	36	48		74	47	233.69	21657
	HSK-A 63	18	100	38	48		74	47	233.69	21857
	HSK-A 63	20	100	40	52		74	49	233.69	22057
long	HSK-A 63	6	130	17	30	36.2	104	34	249.67	30657
	HSK-A 63	8	130	20	32	38.2	104	34	249.67	30857
	HSK-A 63	10	130	25	35	41.2	104	39	249.67	31057
	HSK-A 63	12	130	30	42	48.2	104	44	249.67	31257
	HSK-A 63	14	130	32	45	50.5	104	44	249.67	31457
	HSK-A 63	16	130	36	48	50.1	104	47	249.67	31657
	HSK-A 63	18	130	38	48	50.1	104	47	249.67	31857
	HSK-A 63	20	130	40	52		104	49	249.67	32057
	HSK-A 63	25	130	45	63		104	54	249.67	32557 ¹⁾
	HSK-A 63	32	130	52	72		104	58	249.67	33257 ¹⁾

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



NEW



NEW



G 2,5 n_{max} 25000

G 2,5 n_{max} 25000


	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
									£ Y8/3B	£ Y8/3B
extra-long	HSK-A 63	6	160	17	30	36.2	134	34	265.65	40657
	HSK-A 63	8	160	20	32	38.2	134	34	265.65	40857
	HSK-A 63	10	160	25	35	41.2	134	39	265.65	41057
	HSK-A 63	12	160	30	42	48.2	134	44	265.65	41257
	HSK-A 63	14	160	32	45	50.5	134	44	265.65	41457
	HSK-A 63	16	160	36	48	50.1	134	47	265.65	41657
	HSK-A 63	18	160	38	48	50.1	134	47	265.65	41857
	HSK-A 63	20	160	40	52		134	49	265.65	42057
	HSK-A 63	25	160	45	63		134	54	265.65	42557 ¹⁾
	HSK-A 100	6	160	17	30	38.2	131	34	349.78	40655
	HSK-A 100	8	160	20	32	40.2	131	34	349.78	40855
	HSK-A 100	10	160	25	35	43.2	131	39	349.78	41055
	HSK-A 100	12	160	30	42	50.2	131	44	349.78	41255
	HSK-A 100	14	160	32	45	53.2	131	44	349.78	41455
	HSK-A 100	16	160	36	48	56.2	131	47	349.78	41655
	HSK-A 100	18	160	38	48	56.2	131	47	349.78	41855
	HSK-A 100	20	160	40	52	60.2	131	49	349.78	42055
	HSK-A 100	25	160	45	65	73.2	131	54	349.78	42555 ¹⁾
	HSK-A 100	32	160	52	72	79.5	134	58	349.78	43255 ¹⁾

1) Version with two grubscrews




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

Accessories



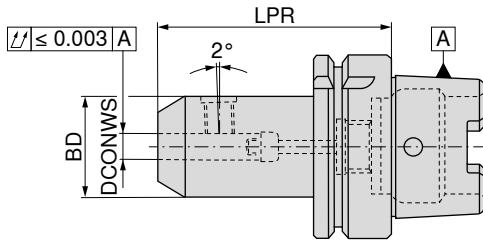
Coolant transfer pipe
→ 156



Others
→ 284

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

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



G 2,5 n_{max} 25000

82 742 ...

£	
Y8/3B	
165.11	10657
165.11	10857
165.11	11057
165.11	11257
165.11	11457
165.11	11657
165.11	11857
165.11	12057
165.11	12557 ¹⁾
165.11	13257 ¹⁾

	Adapter	mm			£	
		DCONWS H4	LPR	BD		
short	HSK-A 63	6	80	25	165.11	10657
	HSK-A 63	8	80	28	165.11	10857
	HSK-A 63	10	80	35	165.11	11057
	HSK-A 63	12	90	42	165.11	11257
	HSK-A 63	14	90	44	165.11	11457
	HSK-A 63	16	100	48	165.11	11657
	HSK-A 63	18	100	50	165.11	11857
	HSK-A 63	20	100	52	165.11	12057
	HSK-A 63	25	110	65	165.11	12557 ¹⁾
	HSK-A 63	32	110	72	165.11	13257 ¹⁾
	HSK-A 100	6	90	25	279.93	10655
	HSK-A 100	8	90	28	279.93	10855
	HSK-A 100	10	90	35	279.93	11055
	HSK-A 100	12	100	42	279.93	11255
	HSK-A 100	14	100	44	279.93	11455
	HSK-A 100	16	100	48	279.93	11655
	HSK-A 100	18	100	50	279.93	11855
	HSK-A 100	20	110	52	279.93	12055
	HSK-A 100	25	120	65	279.93	12555 ¹⁾
	HSK-A 100	32	120	72	279.93	13255 ¹⁾
HSK-A 100	40	120	80	279.93	14055 ¹⁾	

1) Version with two grubscrews



Grubscrew

62 950 ...

Spare parts

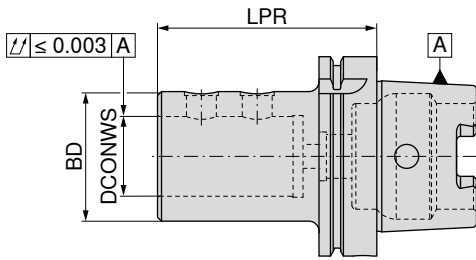
DCONWS		£	
6	M6x10	1.16	006
8	M8x10	1.16	008
10	M10x12	2.22	010
12 - 14	M12x16	1.76	012
16 - 18	M14x16	2.18	016
20	M16x16	2.32	020
25	M18x2x20	4.48	025
32 - 40	M20x2x20	4.68	032

Accessories

Coolant transfer pipe	Others
→ 156	→ 284

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	211.68	320
HSK-A 63	32	90	52	211.68	325
HSK-A 63	40	110	65	211.68	332
HSK-A 63	40	110	65	211.68	340
HSK-A 100	20	90	40	237.35	420
HSK-A 100	25	100	45	237.35	425
HSK-A 100	32	100	52	237.35	432
HSK-A 100	40	110	65	237.35	440
HSK-A 100	50	120	75	237.35	450

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





Grubscrew

10 950 ...

Spare parts	DCONWS	£	
20		2A/28	
25 - 32		4.64	M10x10 001
40 - 50		4.64	M12x10 002
		4.64	M16x12 003

Accessories

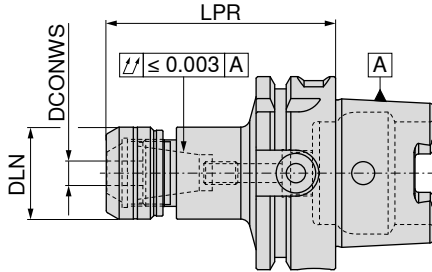
	
Coolant transfer pipe	Others
→ 156	→ 284

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	296.63	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	311.56	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	296.63	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	311.56	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	296.63	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	311.56	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	516.07	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	691.70	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	516.07	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	691.70	42055



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	86.35 11000	81.37 01000		M8X3,0 8.13 00100
430E (ER25)	86.35 11600	81.37 01600	M18x1,5 11.07 00200	M8x8 8.13 00300
470E (ER32)	86.35 12000	81.37 02000	M18x1,5 11.07 00200	M8x8 8.13 00300

Spare parts for collet

Accessories

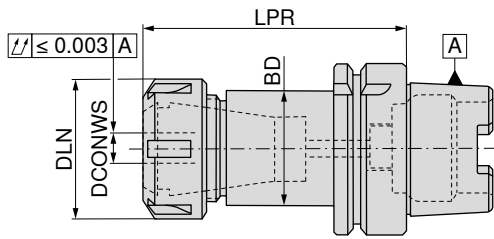
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000

82 743 ...








£
Y8/3B

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
medium length	HSK-A 63	1 - 10	100	22	8 - 56	426E (ER16 mini)	205.47	21157
	HSK-A 63	1 - 10	100	32	8 - 56	426E (ER16)	176.16	21057
	HSK-A 63	1 - 16	100	42	24 - 104	430E (ER25)	176.16	21657
	HSK-A 63	2 - 20	100	50	24 - 136	470E (ER32)	176.16	22057
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	176.16	22657
long	HSK-A 100	1 - 10	100	32	8 - 56	426E (ER16)	299.71	21055
	HSK-A 100	1 - 16	100	42	24 - 104	430E (ER25)	299.71	21655
	HSK-A 100	2 - 20	100	50	24 - 136	470E (ER32)	299.71	22055
	HSK-A 100	3 - 26	100	63	176	472E (ER40)	299.71	22655
extra-long	HSK-A 63	1 - 10	160	22	8 - 56	426E (ER16 mini)	205.47	41157
	HSK-A 63	1 - 10	160	32	8 - 56	426E (ER16)	247.77	41057
	HSK-A 63	1 - 16	160	42	24 - 104	430E (ER25)	247.77	41657
	HSK-A 63	2 - 20	160	50	24 - 136	470E (ER32)	247.77	42057
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	247.77	42657
	HSK-A 100	1 - 10	160	32	8 - 56	426E (ER16)	389.16	41055
	HSK-A 100	1 - 16	160	42	24 - 104	430E (ER25)	389.16	41655
	HSK-A 100	2 - 20	160	50	24 - 136	470E (ER32)	389.16	42055
HSK-A 100	3 - 26	160	63	176	472E (ER40)	389.16	42655	
extra long	HSK-A 100	1 - 10	200	32	8 - 56	426E (ER16)	497.62	51055
	HSK-A 100	1 - 16	200	42	24 - 104	430E (ER25)	497.62	51655
	HSK-A 100	2 - 20	200	50	24 - 136	470E (ER32)	497.62	52055
	HSK-A 100	3 - 26	200	63	176	472E (ER40)	497.62	52655



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

Spare parts ER collet chucks

							
	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...
Spare parts for collet	£ Y8	£ W7	£ Y8	£ Y8	£ W7	£ Y8	£ Y8/3B
426E (ER16 mini)				49.71	101		
426E (ER16)	87.05	054	26.90	054	29.58	116	
430E (ER25)	101.40	055	28.01	055	29.58	125	
470E (ER32)	108.45	056	35.87	65600	43.08	132	
472E (ER40)	130.50	057	34.86	65700	48.80	140	

Accessories

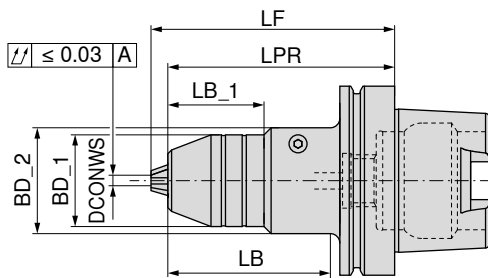
		
ER collet	Coolant transfer pipe	Others
→ 268–276, 279	→ 156	→ 284

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 6,3 n_{max} 10000

84 716 ...

£
Y8

730.67 613
771.88 616

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

1,038.16 113
1,085.55 116

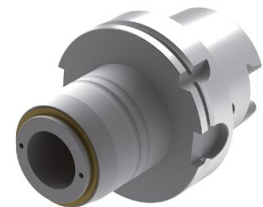
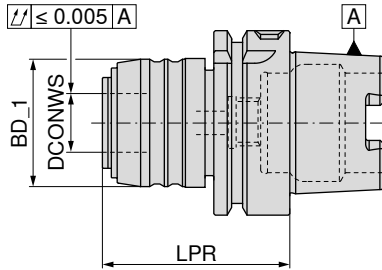
Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

Others
→ 284

Synchro tapping chuck with minimum length compensation

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



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

83 724 ...

£	Y8
457.24	612
568.72	620
722.36	112
854.89	120

Accessories

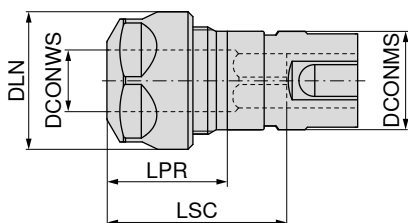


Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



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

83 608 ...

£	Y8
247.61	012 ¹⁾
288.42	020

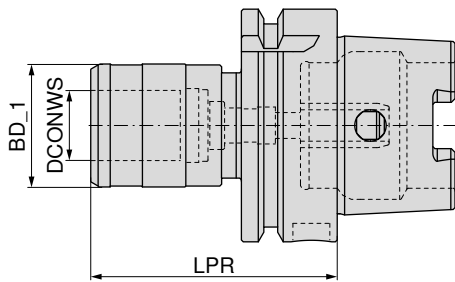
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	£	W7	£	Y8	£	W7	£	Y8			
83 608 012	M22x1,5 - SW25	33.81	044	M22x1,5	87.05	054	M22x1,5	26.90	054	29.58	116
83 608 020				M32x1,5	101.40	055	M32x1,5	28.01	055	29.58	125

Quick change tap chuck with length compensation

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



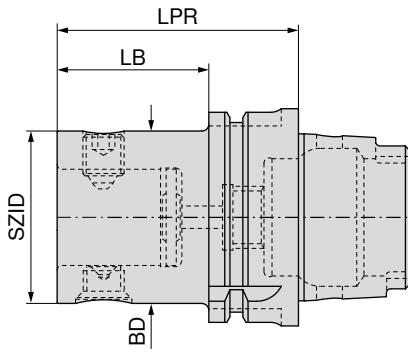
Adapter	SZID	LPR	BD_1	DCONWS	LZD±	83 712 ...	
		mm	mm	mm	mm	£	Y8
HSK-A 63	01	72	41	19	7,5	1,005.08	612
HSK-A 63	02	110	60	31	10	1,168.75	620
HSK-A 100	01	80	41	19	7,5	1,695.48	112
HSK-A 100	02	100	60	31	10	1,490.37	120

Accessories

Collet	Coolant transfer pipe	Others
→ 288, 290-292	→ 156	→ 284

Adapter with ABS Connection

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



G 6,3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	BD	LPR	LB		
			mm	mm	mm		
HSK-A 63	A06 30120	ABS 25	25	50	24		
HSK-A 63	A06 30130	ABS 32	32	50	24		
HSK-A 63	A06 30140	ABS 40	40	60	34		
HSK-A 63	A06 30150	ABS 50	50	70	44		
HSK-A 63	A06 30160	ABS 63	63	80	54		
HSK-A 63	A06 30170	ABS 80	80	100	74		
HSK-A 100	A06 50120	ABS 25	25	60	31		
HSK-A 100	A06 50130	ABS 32	32	60	31		
HSK-A 100	A06 50140	ABS 40	40	80	51		
HSK-A 100	A06 50150	ABS 50	50	80	51		
HSK-A 100	A06 50160	ABS 63	63	80	51		
HSK-A 100	A06 50170	ABS 80	80	90	61		
HSK-A 100	A06 50180	ABS 100	100	100	71		

£
3E

296.78 06390
296.78 06389
296.78 06388
296.78 06397
296.78 06396
296.78 06392

327.07 10090
327.07 10089
327.07 10088
327.07 10097
327.07 10096
327.07 10092
327.07 10091

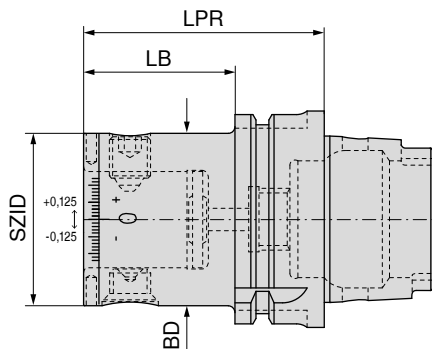
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

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

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



84 203 ...

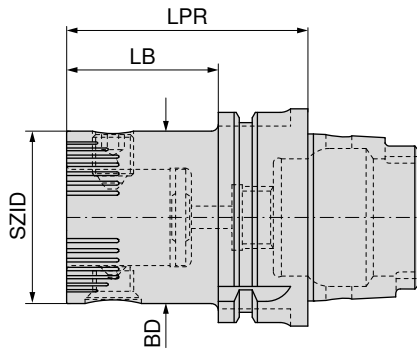
Adapter	KOMET no.	SZID	BD	LPR	LB		
			mm	mm	mm		
HSK-A 63	A06 36730	ABS 50	50	70.0	39.5		
HSK-A 100	A06 56730	ABS 50	50	75.5	46.5		
HSK-A 100	A06 56740	ABS 63	63	80.0	51.0		

£
W4/6A

727.19 06397
826.35 10097
1,002.70 10096

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request



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

84 206 ...	
£	
3E	
788.62	06397
821.60	06396
1,156.99	06392
860.10	10097
948.10	10096
1,090.93	10092



84 950 ...		84 950 ...	
£		£	
XX		XX	
11.49	20300	14.59	20400
10.93	25500	13.87	27300
13.45	25600	16.36	25100

Spare parts

SZID

ABS 50

ABS 63

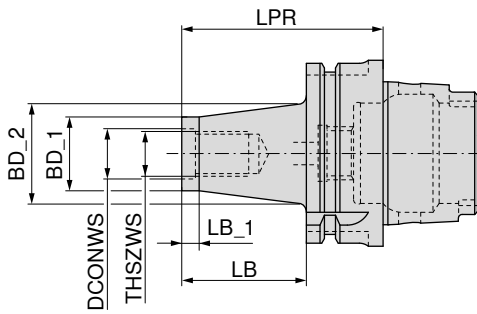
ABS 80

Accessories

Coolant transfer pipe	Extension	Others
→ 156	→ 187	→ 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

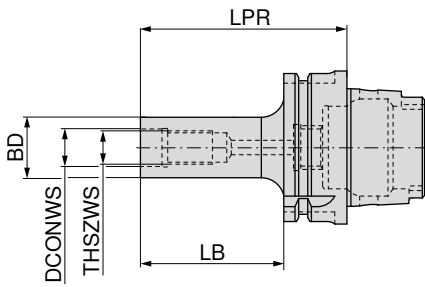
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	£	WA
HSK-A 63	M8	8.5	25	13.8	15	12	51	569.05	081
HSK-A 63	M8	8.5	50	13.8	23	12	76	575.10	082
HSK-A 63	M8	8.5	75	13.8	25	12	101	581.39	083
HSK-A 63	M8	8.5	100	13.8	30	12	126	587.46	084
HSK-A 63	M10	10.5	25	18.0	23	12	51	569.05	101
HSK-A 63	M10	10.5	50	18.0	25	12	76	575.10	102
HSK-A 63	M10	10.5	75	18.0	30	12	101	581.39	103
HSK-A 63	M10	10.5	100	18.0	35	12	126	587.46	104
HSK-A 63	M12	12.5	25	21.0	24	12	51	569.05	121
HSK-A 63	M12	12.5	50	21.0	30	12	76	575.10	122
HSK-A 63	M12	12.5	75	21.0	35	12	101	581.39	123
HSK-A 63	M12	12.5	100	21.0	38	12	126	587.46	124
HSK-A 63	M12	12.5	125	21.0	43	12	151	593.75	125
HSK-A 63	M12	12.5	150	21.0	45	12	176	599.85	126
HSK-A 63	M16	17.0	25	29.0	29	12	51	569.05	161
HSK-A 63	M16	17.0	50	29.0	34	12	76	575.10	162
HSK-A 63	M16	17.0	75	29.0	35	12	101	581.39	163
HSK-A 63	M16	17.0	100	29.0	40	12	126	587.46	164
HSK-A 63	M16	17.0	125	29.0	44	12	151	596.26	165
HSK-A 63	M16	17.0	150	29.0	48	12	176	599.85	166

Accessories

Extension-Reduction set → 257	Coolant transfer pipe → 156	Others → 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

56 719 ...

Adapter	THSZWS	DCONWS	BD	LB	LPR	£	WA
HSK-A 63	M8	8.5	13.8	50	76	412.83	082
HSK-A 63	M10	10.5	18.0	50	76	412.83	102
HSK-A 63	M10	10.5	18.0	100	126	474.63	104
HSK-A 63	M12	12.5	21.0	50	76	412.83	122
HSK-A 63	M12	12.5	21.0	100	126	474.63	124
HSK-A 63	M16	17.0	29.0	50	76	412.83	162
HSK-A 63	M16	17.0	29.0	100	126	474.63	164

Accessories

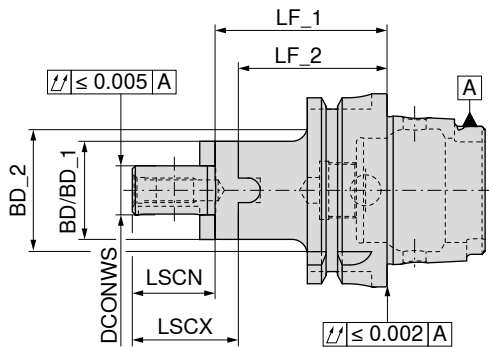
Extension-Reduction set → 257	Coolant transfer pipe → 156	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS	LF_1	LF_2	BD	BD_1	BD_2	LSCX	LSCN	BHTA	£	
		mm	mm	mm	mm	mm	mm	mm	mm		Y8/3B	
short	HSK-A 63	16	60	50	32			27	17		165.64	11657
	HSK-A 63	22	60	48	40			31	19		165.64	12257
	HSK-A 63	27	60	48	48			33	21		165.64	12757
	HSK-A 63	32	60	46	58			38	24		165.64	13257
	HSK-A 63	40	70	56	70			41	27		165.64	14057
	HSK-A 100	16	60	50	32			27	17		307.15	11655
	HSK-A 100	22	60	48	40			31	19		307.15	12255
	HSK-A 100	27	60	48	48			33	21		307.15	12755
	HSK-A 100	32	60	46	58			38	24		307.15	13255
	HSK-A 100	40	70	56	70			41	27		307.15	14055
medium length	HSK-A 63	16	100	90	32			27	17		184.40	21657
	HSK-A 63	22	100	88	40			31	19		184.40	22257
	HSK-A 63	27	100	88	48			33	21		184.40	22757
	HSK-A 63	32	100	86	58			38	24		184.40	23257
	HSK-A 63	40	100	86	70			41	27		184.40	24057
extra-long	HSK-A 63	16	160	150		32	43.21	27	17	4.5°	211.42	41657
	HSK-A 63	22	160	148		40	47.25	31	19	3.0°	211.42	42257
	HSK-A 63	27	160	148	48			33	21		211.42	42757
	HSK-A 63	32	160	146	58			38	24		211.42	43257
	HSK-A 63	40	160	146	70			41	27		211.42	44057



83 950 ...

83 370 ...

83 950 ...

Spare parts

DCONWS		£		£		£	
		Y8/3B		Y8		Y8/3B	
16	4 x 4 x 20	4.37	284	16.18	116	7.53	113
22	6 x 6 x 25	4.37	285	15.51	122	8.50	124
27	7 x 7 x 25	6.94	286	19.35	127	9.39	125
32	8 x 7 x 28	4.95	287	20.31	132	11.43	126
40	10 x 8 x 32	5.84	288	34.21	140	12.61	112

Accessories

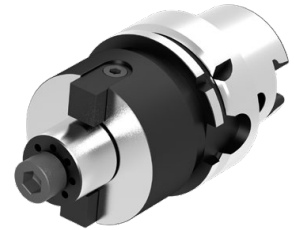
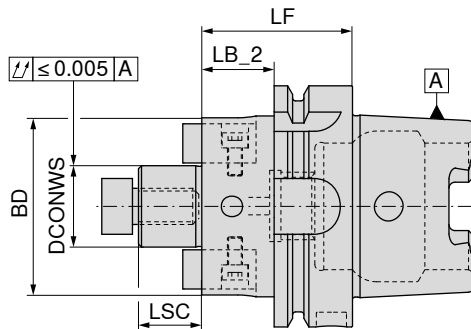
Milling Adapter Rings	Coolant transfer pipe	Others
→ 263	→ 156	→ 284

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



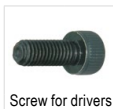
G 2,5 n_{max} 25000

82 315 ...

£
Y8/3B
258.15 12257
258.15 12757

short	Adapter	DCONWS	LB_2	LF	BD	LSC		
		mm	mm	mm	mm	mm		
	HSK-A 63	22	34	60	38	19		
	HSK-A 63	27	34	60	48	21		
	HSK-A 100	22	31	60	38	19	261.62	12255
	HSK-A 100	27	31	60	48	21	261.62	12755

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



Screw for drivers



Driver



clamping screw

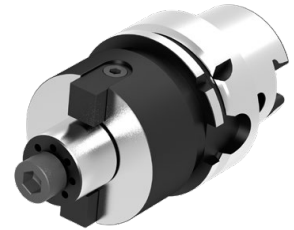
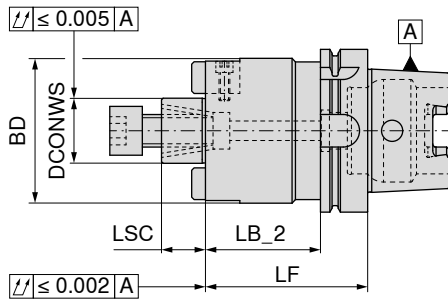
Spare parts		83 950 ...		83 950 ...		83 950 ...		
DCONWS		£		£		£		
22	M4x8	0.80	51700	10x7x20,5	11.26	51500	M10x25	8.50 124
27	M5x8	0.98	51800	12x9x24,3	12.83	51600	M12x30	9.39 125

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw and drive dogs








G 2,5 n_{max} 25000

82 745 ...

	Adapter	DCONWS	LB_2	LF	BD	BD_1	BD_2	LSC		
		mm	mm	mm	mm	mm	mm	mm		£
short	HSK-A 63	16	34	60	38			17		234.64 11657
	HSK-A 63	22	34	60	48			19		234.64 12257
	HSK-A 63	27	34	60	58			21		234.64 12757
	HSK-A 63	32	34	60	78			24		234.64 13257
	HSK-A 63	40	34	70	88			27		234.64 14057 ¹⁾
	HSK-A 100	16	31	60	38			17		330.16 11655
	HSK-A 100	22	31	60	48			19		330.16 12255
	HSK-A 100	27	31	60	58			21		330.16 12755
	HSK-A 100	32	31	60	78			24		330.16 13255
	HSK-A 100	40	41	70	88			27		330.16 14055 ¹⁾
medium length	HSK-A 63	16	74	100		38	44.3	17		253.87 21657
	HSK-A 63	22	74	100		48	50.3	19		253.87 22257
	HSK-A 63	27	74	100	58			21		253.87 22757
	HSK-A 63	32	74	100	78			24		253.87 23257
	HSK-A 63	40	74	100	88			27		253.87 24057 ¹⁾
	HSK-A 100	16	71	100		38	46.3	17		349.39 21655
	HSK-A 100	22	71	100		48	56.3	19		349.39 22255
	HSK-A 100	27	71	100	58			21		349.39 22755
	HSK-A 100	32	71	100	78			24		349.39 23255
	HSK-A 100	40	71	100	88			27		349.39 24055 ¹⁾
long	HSK-A 63	16	104	130		38	44.3	17		274.60 31657
	HSK-A 63	22	104	130		48	50.3	19		274.60 32257
	HSK-A 63	27	104	130	58			21		274.60 32757
	HSK-A 63	32	104	130	78			24		274.60 33257
	HSK-A 63	40	104	130	88			27		274.60 34057 ¹⁾
	HSK-A 100	16	101	130		38	46.3	17		423.80 31655
	HSK-A 100	22	101	130		48	56.3	19		423.80 32255
	HSK-A 100	27	101	130	58			21		423.80 32755
	HSK-A 100	32	101	130	78			24		423.80 33255
	HSK-A 100	40	101	130	88			27		423.80 34055 ¹⁾
extra-long	HSK-A 63	16	134	160		38	44.3	17		295.91 41657
	HSK-A 63	22	134	160		48	50.3	19		295.91 42257
	HSK-A 63	27	134	160	58			21		295.91 42757
	HSK-A 63	32	134	160	78			24		295.91 43257
	HSK-A 63	40	134	160	88			27		295.91 44057 ¹⁾
	HSK-A 100	16	131	160		38	46.3	17		462.43 41655
	HSK-A 100	22	131	160		48	56.3	19		462.43 42255
	HSK-A 100	27	131	160	58			21		462.43 42755
	HSK-A 100	32	131	160	78			24		462.43 43255
	HSK-A 100	40	131	160	88			27		462.43 44055 ¹⁾

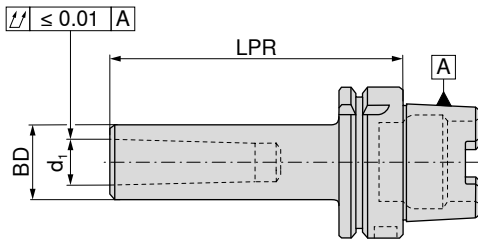
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

		 Cross nut key 83 368 ...		 Cross screw 83 367 ...		 clamping screw 83 950 ...	
Spare parts		£		£		£	
DCONWS		Y8		Y8		Y8/3B	
16		26.72	116	7.10	016	7.53	113
22		33.25	122	7.90	022	8.50	124
27		39.10	127	10.10	027	9.39	125
32		53.28	132	15.86	032	11.43	126
40		52.92	140	16.97	040	12.61	112
				 Screw for drivers 83 950 ...		 Driver 83 950 ...	
Spare parts				£		£	
DCONWS				Y8/3B		Y8/3B	
				1.29	296	18.20	120
16			M3x8	1.69	297	18.79	121
22			M4x12	1.74	136	20.72	122
27			M5x12	1.84	137	20.94	123
32			M5x20	2.09	138	27.87	295
40			M6x16				
							8x9x17,5
							10x11x20,5
							12x13x24,3
							14x21x21,2
							15,9x16,3x19,5

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

▲ also available with Balluff chip on request



G 6,3 n_{max} 8000

82 746 ...

£	
Y8/3B	
158.40	01057
158.40	02057
158.40	03057
158.40	04057
257.85	02055
257.85	03055
257.85	04055

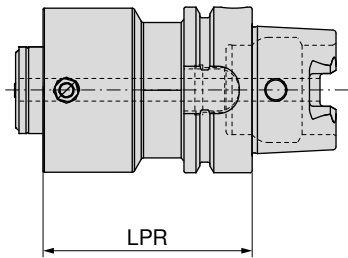
Adapter	d ₁	LPR	BD
		mm	mm
HSK-A 63	MK1	100	25
HSK-A 63	MK2	120	32
HSK-A 63	MK3	140	40
HSK-A 63	MK4	160	48
HSK-A 100	MK2	120	32
HSK-A 100	MK3	150	40
HSK-A 100	MK4	170	48

Accessories

		
Morse taper adapter sleeve	Coolant transfer pipe	Others
→ 242	→ 156	→ 284

HSK-T extension

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



Adapter	LPR mm
HSK-T 63	80
HSK-T 63	120
HSK-T 100	125
HSK-T 100	160
HSK-T 100	200

84 621 ...

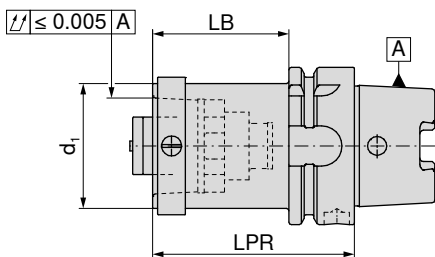
£	Y8
1,368.05	08037
1,459.17	12037
1,824.16	12535
1,938.18	16035
2,074.86	20035

HSK-A reduction

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

Scope of supply:

with clamping cartridge and cover ring



Adapter	d ₁	LB mm	LPR mm
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

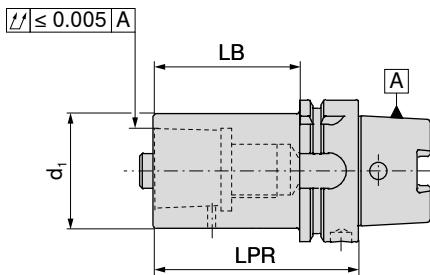
84 040 ...

£	Y8
1,189.04	06359
1,211.35	06358
1,410.13	10058
1,410.13	10057

HSK-A/PSC adapter

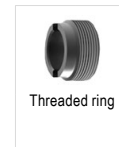
- ▲ for mounting PSC adapters according to ISO 26623-1
- ▲ also available with Balluff chip **on request**

Scope of supply:
with tightening screw



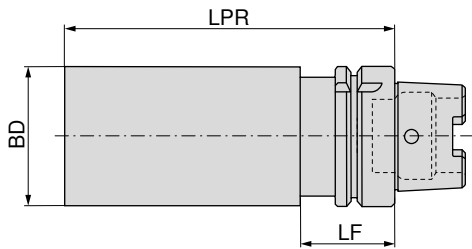
Adapter	d ₁	LB mm	LPR mm	84 013 ... £ Y8	
HSK-A 63	PSC 32	49	75	614.55	06387
HSK-A 63	PSC 40	54	80	658.90	06395
HSK-A 63	PSC 50	64	90	658.90	06394
HSK-A 100	PSC 32	51	80	724.85	10087
HSK-A 100	PSC 40	61	90	746.91	10095
HSK-A 100	PSC 50	71	100	768.97	10094
HSK-A 100	PSC 63	81	110	879.73	10093
HSK-A 100	PSC 80	91	120	946.15	10086

Spare parts d ₁	84 950 ... £ Y8		84 950 ... £ Y8	
	PSC 32	52.21	127	37.89
PSC 40	52.21	128	42.70	123
PSC 50	52.21	129	42.70	124
PSC 63	104.24	130	47.53	126
PSC 80	104.24	130	47.53	126



Blank

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

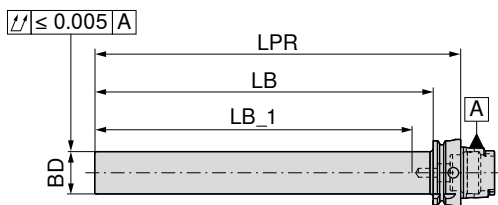


Adapter	BD mm	LPR mm	LF mm
HSK-A 63	63.0	200	42
HSK-A 63	80.0	250	42
HSK-A 100	63.0	200	
HSK-A 100	80.0	250	
HSK-A 100	97.5	250	45

82 747 ...	
£	
Y8/3B	
175.03	16357
196.96	18057
263.01	16355
307.15	18055
378.50	19755

Test arbor

Scope of supply:
in wooden box



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

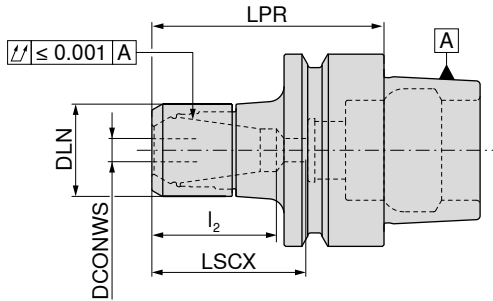
81 746 ...	
£	
Y8/3B	
740.88	063
946.08	100

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

470.81 417
518.03 516

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 313



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

Lock nut IK	Lock nut
84 950 ...	84 950 ...
£ Y8	£ Y8
108.06 013	80.00 003

**Spare parts
for collet**

430E (ER25)

Accessories

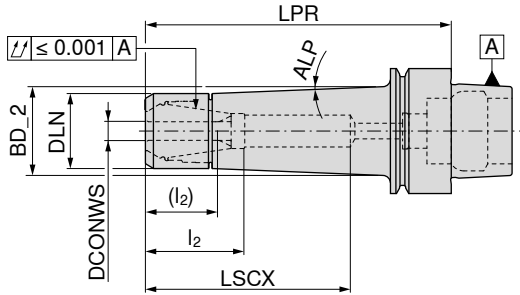
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268–276, 279	→ 280	→ 286	→ 286	→ 156	→ 284

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 30000

84 774 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	£	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	316.67	07200
	HSK-E 32	1 - 7	50	16	17.5	31	18 - 20	4.5°	4008E (ER11 mini)	423.83	307
	HSK-E 40	1 - 7	50	16	17.5	31	18 - 20	4.5°	4008E (ER11 mini)	346.50	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	297.79	101
	HSK-E 32	1 - 10	55	22	25.8	40	28 - 32 (12 - 22)	4.5°	426E (ER16 mini)	423.83	310
	HSK-E 40	1 - 10	55	22	25.8	38	28 - 30 (12 - 20)	4.5°	426E (ER16 mini)	329.91	410
medium length	HSK-E 50	1 - 10	60	22	25.4	39	28 - 31 (12 - 21)	4.5°	426E (ER16 mini)	318.75	510
	HSK-E 40	1 - 7	100	16	25.4	64	18 - 36 (12 - 26)	4.5°	4008E (ER11 mini)	423.83	408
	HSK-E 40	1 - 10	100	22	29.0	66	28 - 48 (12 - 38)	2.5°	426E (ER16 mini)	378.28	411
	HSK-E 50	1 - 10	100	22	28.2	72	28 - 48 (12 - 38)	2.5°	426E (ER16 mini)	391.21	511

→ Transmittable torque moments, Page 313



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

Spare parts for collet

	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
4008E (ER11 mini)	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16 mini)	97.92 035	100.56 041 80.34 034	57.32 340 60.14 341	38.17 336 40.28 337

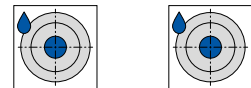
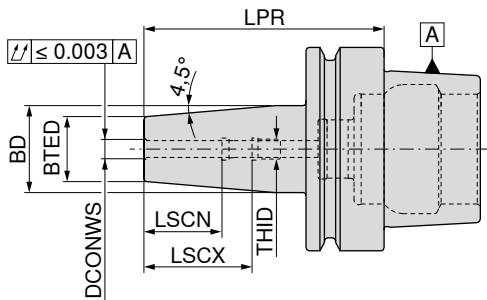
Accessories

ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 156	→ 284

Shrink fit adapters

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

TG



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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 308 ...		84 309 ...	
									£		£	
short	HSK-E 40	3	60	10	15	28	12	M6	362.23	103		
	HSK-E 40	4	60	10	15	28	16	M6	352.97	104		
	HSK-E 40	5	60	10	15	30	20	M6	352.97	105		
	HSK-E 40	6	80	21	27	36	26	M5	297.43	106		
	HSK-E 40	8	80	21	27	36	26	M6	297.43	108		
	HSK-E 40	10	80	24	32	41	31	M8x1	297.43	110		
	HSK-E 40	12	90	24	32	47	37	M10x1	297.43	112		
	HSK-E 40	14	90	27	34	47	37	M10x1	297.43	114		
	HSK-E 40	16	90	27	34	50	40	M12x1	297.43	116		
	HSK-E 50	3	80	10	15	22	12	M6			365.99	103
	HSK-E 50	4	80	15	22	26	16	M6			356.71	104
	HSK-E 50	5	80	15	22	30	20	M6			356.71	105
	HSK-E 50	6	80	21	27	36	26	M5			337.24	106
	HSK-E 50	8	80	21	27	36	26	M6			337.24	108
	HSK-E 50	10	85	24	32	41	31	M8x1			337.24	110
	HSK-E 50	12	90	24	32	47	37	M10x1			337.24	112
	HSK-E 50	14	90	27	34	47	37	M10x1			337.24	114
	HSK-E 50	16	95	27	34	50	40	M12x1			337.24	116
	HSK-E 50	18	95	33	42	50	40	M12x1			337.24	118
	HSK-E 50	20	100	33	42	52	42	M16x1			337.24	120

→ Min. clamping depth, Page 312

Spare parts DCONWS		83 950 ...		83 950 ...		83 950 ...	
		£		£		£	
3 - 5	M6x14 - SW2	25.16	417	25.16	411		
6						M5x12,5 - SW2,5	25.16 418
8						M6x12,5 - SW3	25.16 419
10						M8x1x13,5 - SW3	25.16 420
12 - 14						M10x1x13,5 - SW5	25.16 421
16 - 18						M12x1x13,5 - SW5	25.16 422
20						M16x1x13,5 - SW5	29.02 423

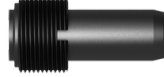
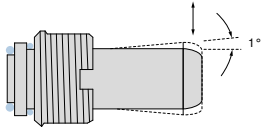
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:

complete, including seals

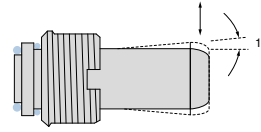


Coolant transfer pipe with strainer – HSK

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



Adapter		THOD	83 760 ...	
			£	
			Y8	
HSK 32	M10 x 1		25.26	032
HSK 40	M12 x 1		25.26	040
HSK 50	M16 x 1		25.26	050
HSK 63	M18 x 1		13.79	063
HSK 80	M20 x 1,5		27.66	080
HSK 100	M24 x 1,5		22.55	100

Adapter		THOD	83 760 ...	
			£	
			Y8	
HSK 63	M18 x 1		60.41	16300
HSK 100	M24 x 1,5		41.93	20000

NEW

Key – HSK

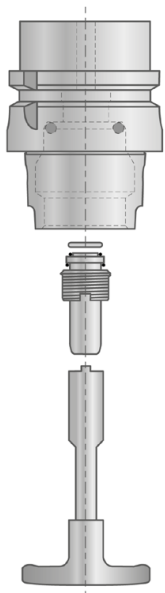


Adapter		83 758 ...	
		£	
		Y8	
HSK 32		43.49	032
HSK 40		43.87	040
HSK 50		47.58	050
HSK 63		29.60	063
HSK 80		56.04	080
HSK 100		55.56	100

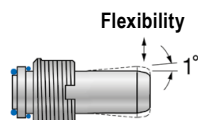


For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole

Coolant pipe for HSK tools



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

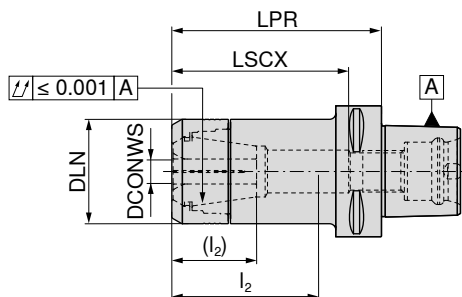


ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 112 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£ Y8	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	542.47	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	542.47	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	580.51	502
PSC 50	1 - 16	60	40	48		430E (ER25)	542.47	505
PSC 50	2 - 20	60	50	49		470E (ER32)	542.47	507
PSC 63	1 - 10	60	30	44		426E (ER16)	519.60	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	557.68	602
PSC 63	1 - 16	60	40	38		430E (ER25)	519.60	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	557.68	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	608.30	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	709.73	608
PSC 63	2 - 20	60	50	42		470E (ER32)	519.60	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	557.68	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	608.30	611
PSC 63	3 - 26	65	63	51		472E (ER40)	582.98	612

→ Transmittable torque moments, Page 313



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

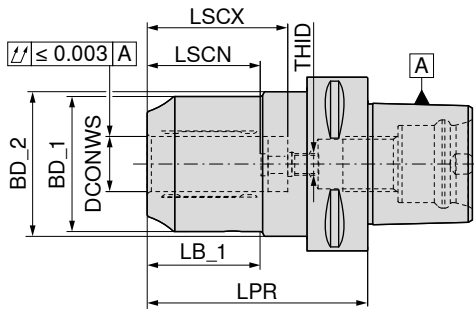
Spare parts for collet	84 950 ...		84 950 ...		83 950 ...		83 950 ...			
	£ Y8		£ Y8		£ Y8		£ Y8			
426E (ER16)	96.95	011	72.00	001	M11x1 - SW6	60.14	341	M11x1 - SW6	40.28	337
430E (ER25)	108.06	013	80.00	003	M18x1,5 - SW6	42.31	432	M18x1,5 - SW6	30.17	431
470E (ER32)	115.55	015	88.00	005	M22x1,5 - SW6	35.73	402	M22x1,5 - SW6	26.03	401
472E (ER40)	158.03	017	128.02	007				M28x1,5 - SW6	36.47	400

HyPower – Complus

- ▲ 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



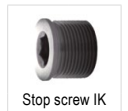
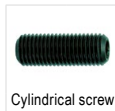
G 2,5 n_{max} 25000

84 108 ...

£
Y8
912.41 **62000**

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

→ Min. clamping depth, Page 312



Spare parts for Article no.

Article no.	Part	Price (£)	Code
84 108 62000	M5x5 - SW2,5	3.85	157
	SW5	8.11	050
	M10x1x14	11.52	429
	M16x1x13,5 - SW8	29.02	424

Accessories

Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 176	→ 284

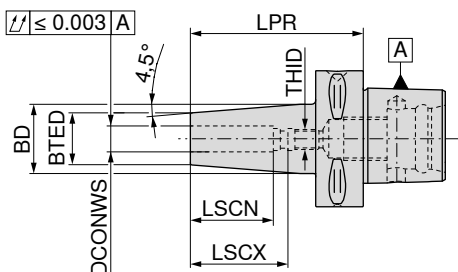
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



G 6,3 n_{max} 15000

84 104 ...

Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
								£	
PSC 32	65	6	21	27	36	26	M5	333.66	306
PSC 32	65	8	21	27	36	26	M6	333.66	308
PSC 32	70	10	24	32	41	31	M8x1	333.66	310
PSC 32	75	12	24	32	47	37	M10x1	333.66	312
PSC 40	75	6	21	27	36	26	M5	340.02	406
PSC 40	75	8	21	27	36	26	M6	340.02	408
PSC 40	75	10	24	32	41	31	M8x1	340.02	410
PSC 40	75	12	24	32	47	37	M10x1	340.02	412
PSC 40	80	14	27	34	47	37	M10x1	340.02	414
PSC 40	80	16	27	34	50	40	M12x1	340.02	416
PSC 40	80	18	33	42	50	40	M12x1	340.02	418
PSC 40	85	20	33	42	52	42	M16x1	340.02	420
PSC 50	65	3	12	17				421.44	503
PSC 50	65	4	12	17				421.44	504
PSC 50	65	5	12	17				421.44	505
PSC 50	75	6	21	30	36	26	M5	349.84	506
PSC 50	75	8	21	30	36	26	M6	349.84	508
PSC 50	75	10	24	33	41	31	M8x1	349.84	510
PSC 50	75	12	24	33	47	37	M10x1	349.84	512
PSC 50	80	14	27	34	47	37	M10x1	349.84	514
PSC 50	80	16	27	34	50	40	M12x1	349.84	516
PSC 50	80	18	33	42	50	40	M12x1	349.84	518
PSC 50	85	20	33	42	52	42	M16x1	349.84	520
PSC 50	90	25	44	53	58	48	M16x1	349.84	525
PSC 63	80	3	12	17				519.15	603
PSC 63	80	4	12	17				519.15	604
PSC 63	80	5	12	17				519.15	605
PSC 63	80	6	21	27	36	26	M5	437.76	606
PSC 63	80	8	21	27	36	26	M6	437.76	608
PSC 63	80	10	24	32	41	31	M8x1	437.76	610
PSC 63	80	12	24	32	47	37	M10x1	437.76	612
PSC 63	85	14	27	34	47	37	M10x1	437.76	614
PSC 63	85	16	27	34	50	40	M12x1	437.76	616
PSC 63	85	18	33	42	50	40	M12x1	437.76	618
PSC 63	85	20	33	42	52	42	M16x1	437.76	620
PSC 63	90	25	44	53	58	48	M16x1	437.76	625
PSC 63	95	32	44	53	61	51	M16x1	437.76	632
PSC 80	85	6	21	27	36	26	M5	470.38	806
PSC 80	85	8	21	27	36	26	M6	470.38	808
PSC 80	85	10	24	32	41	31	M8x1	470.38	810
PSC 80	85	12	24	32	47	37	M10x1	470.38	812
PSC 80	90	14	27	34	47	37	M10x1	470.38	814
PSC 80	90	16	27	34	50	40	M12x1	470.38	816
PSC 80	90	18	33	42	50	40	M12x1	470.38	818
PSC 80	90	20	33	42	52	42	M16x1	470.38	820
PSC 80	95	25	44	53	58	48	M16x1	470.38	825
PSC 80	100	32	44	53	61	51	M16x1	470.38	832

→ Min. clamping depth, Page 312

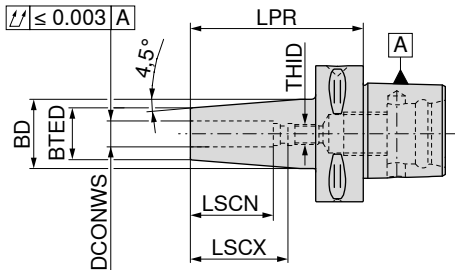
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG

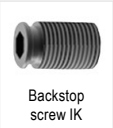


G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	G 6,3 n _{max} 15000	
									£	
									84 105 ...	84 106 ...
									£	£
									Y8	Y8
medium length	PSC 50	120	6	21	32	36	26	M5	421.44	506
	PSC 50	120	8	21	32	36	26	M6	421.44	508
	PSC 50	120	10	24	34	41	31	M8x1	421.44	510
	PSC 50	120	12	24	34	47	37	M10x1	421.44	512
	PSC 50	120	14	27	36	47	37	M10x1	421.44	514
	PSC 50	120	16	27	36	50	40	M12x1	421.44	516
	PSC 50	120	18	33	42	50	40	M12x1	421.44	518
	PSC 50	120	20	33	42	52	42	M16x1	421.44	520
	PSC 50	120	25	44	53	58	48	M16x1	421.44	525
	PSC 63	120	6	21	32	36	26	M5	519.15	606
	PSC 63	120	8	21	32	36	26	M6	519.15	608
	PSC 63	120	10	24	32	41	31	M8x1	519.15	610
	PSC 63	120	12	24	32	47	37	M10x1	519.15	612
	PSC 63	120	14	27	36	47	37	M10x1	519.15	614
	PSC 63	120	16	27	36	50	40	M12x1	519.15	616
	PSC 63	120	18	33	44	50	40	M12x1	519.15	618
	PSC 63	120	20	33	44	52	42	M16x1	519.15	620
	PSC 63	120	25	44	53	58	48	M16x1	519.15	625
PSC 63	120	32	44	53	61	51	M16x1	519.15	632	
	PSC 80	120	6	21	32	36	26	M5	561.40	806
	PSC 80	120	8	21	32	36	26	M6	561.40	808
	PSC 80	120	10	24	34	41	31	M8x1	561.40	810
	PSC 80	120	12	24	34	47	37	M10x1	561.40	812
	PSC 80	120	14	27	36	47	37	M10x1	561.40	814
	PSC 80	120	16	27	36	50	40	M12x1	561.40	816
	PSC 80	120	18	33	44	50	40	M12x1	561.40	818
	PSC 80	120	20	33	44	52	42	M16x1	561.40	820
	PSC 80	120	25	44	53	58	48	M16x1	561.40	825
	PSC 80	120	32	44	53	61	51	M16x1	561.40	832
extra-long	PSC 63	160	6	21	32	36	26	M5	567.92	606
	PSC 63	160	8	21	32	36	26	M6	567.92	608
	PSC 63	160	10	24	34	41	31	M8x1	567.92	610
	PSC 63	160	12	24	34	47	37	M10x1	567.92	612
	PSC 63	160	14	27	36	47	37	M10x1	567.92	614
	PSC 63	160	16	27	36	50	40	M12x1	567.92	616
	PSC 63	160	18	33	44	50	40	M12x1	567.92	618
	PSC 63	160	20	33	44	52	42	M16x1	567.92	620
	PSC 63	160	25	44	53	58	48	M16x1	567.92	625
	PSC 63	160	32	44	53	61	51	M16x1	567.92	632

→ Min. clamping depth, Page 312

Spare parts heat shrink adapter



Backstop screw IK

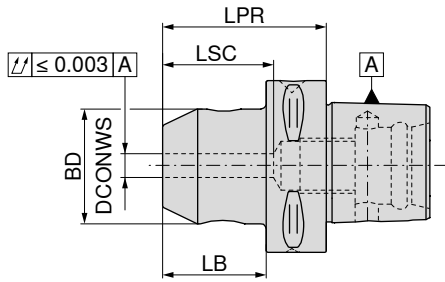
84 950 ...

Spare parts	£	
DCONWS	Y8	
6	16.94	140
8	16.94	141
10	16.94	142
12 - 14	16.94	143
16 - 18	16.94	144
20 - 32	16.94	145

Cylindrical shank adapter (Weldon)

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

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 100 ...

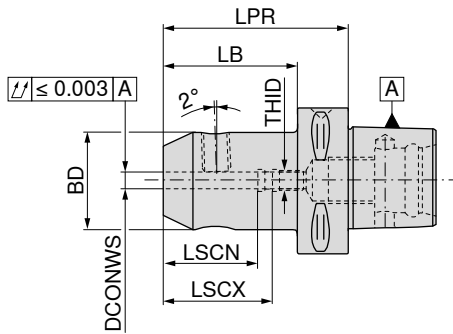
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£	
PSC 32	6	45	25	30	35	274.95	306
PSC 32	8	45	28	30	35	274.95	308
PSC 32	10	50	35	35	39	274.95	310
PSC 32	12	55	42	40	44	274.95	312
PSC 40	6	50	25	30	35	301.06	406
PSC 40	8	50	28	30	35	301.06	408
PSC 40	10	50	35	30	39	301.06	410
PSC 40	12	55	42	35	44	301.06	412
PSC 40	14	55	44	35	44	301.06	414
PSC 40	16	55	48	35	47	301.06	416
PSC 50	6	50	25	30	35	307.58	506
PSC 50	8	50	28	30	35	307.58	508
PSC 50	10	55	35	35	39	307.58	510
PSC 50	12	60	42	40	44	307.58	512
PSC 50	14	60	44	40	44	307.58	514
PSC 50	16	60	48	40	47	307.58	516
PSC 50	18	60	50	40	47	307.58	518
PSC 50	20	60	52	40	47	307.58	520
PSC 50	25	80	65	60	54	307.58	525 ¹⁾
PSC 63	6	55	25	33	35	340.02	606
PSC 63	8	55	28	33	35	340.02	608
PSC 63	10	60	35	38	39	340.02	610
PSC 63	12	60	42	38	44	340.02	612
PSC 63	14	60	44	38	44	340.02	614
PSC 63	16	65	48	43	47	340.02	616
PSC 63	18	65	50	43	47	340.02	618
PSC 63	20	65	52	43	49	340.02	620
PSC 63	25	80	65	58	54	340.02	625 ¹⁾
PSC 63	32	90	72	68	58	340.02	632 ¹⁾
PSC 63	40	100	80	78	75	340.02	640 ¹⁾
PSC 80	6	70	25	40	35	372.67	806
PSC 80	8	70	28	40	35	372.67	808
PSC 80	10	70	35	40	39	372.67	810
PSC 80	12	70	42	40	44	372.67	812
PSC 80	14	70	44	40	44	372.67	814
PSC 80	16	70	48	50	47	372.67	816
PSC 80	18	70	50	40	47	372.67	818
PSC 80	20	70	52	40	49	372.67	820
PSC 80	25	80	65	50	54	372.67	825 ¹⁾
PSC 80	32	80	72	50	58	372.67	832 ¹⁾
PSC 80	40	110	80	80	75	372.67	840 ¹⁾
PSC 80	50	120	100	90	83	372.67	850 ¹⁾

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

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

▲ also available with Balluff chip on request

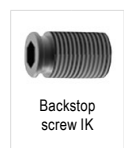


G 6,3 n_{max} 15000

84 102 ...

Adapter	DCONWS	LPR	BD	LB	LSCN	LSCX	THID	£	
	mm	mm	mm	mm	mm	mm		Y8	
PSC 32	6	70	25	55	38	28	M5	274.95	306
PSC 32	8	70	28	55	38	28	M6	274.95	308
PSC 32	10	70	35	55	41	31	M8	274.95	310
PSC 32	12	75	42	60	47	37	M10	274.95	312
PSC 40	6	70	25	50	38	28	M5	301.06	406
PSC 40	8	70	28	50	38	28	M6	301.06	408
PSC 40	10	70	35	50	41	31	M8	301.06	410
PSC 40	12	75	42	55	47	37	M10	301.06	412
PSC 40	14	75	44	55	47	37	M10	301.06	414
PSC 50	6	70	25	50	38	28	M5	307.58	506
PSC 50	8	70	28	50	38	28	M6	307.58	508
PSC 50	10	70	35	50	41	31	M8	307.58	510
PSC 50	12	75	42	55	47	37	M10	307.58	512
PSC 50	14	75	44	55	47	37	M10	307.58	514
PSC 50	16	80	48	60	50	40	M12	307.58	516
PSC 50	18	80	50	60	50	40	M12	307.58	518
PSC 50	20	85	52	65	52	42	M16	307.58	520
PSC 63	6	75	25	53	38	28	M5	340.02	606
PSC 63	8	75	28	53	38	28	M6	340.02	608
PSC 63	10	75	35	53	41	31	M8	340.02	610
PSC 63	12	80	42	58	47	37	M10	340.02	612
PSC 63	14	80	44	58	47	37	M10	340.02	614
PSC 63	16	80	48	58	50	40	M12	340.02	616
PSC 63	18	80	50	58	50	40	M12	340.02	618
PSC 63	20	85	52	63	52	42	M16	340.02	620
PSC 63	25	90	65	68	58	48	M16	340.02	625 ¹⁾
PSC 63	32	95	72	73	61	51	M16	340.02	632 ¹⁾
PSC 80	6	65	25	35	38	28	M5	372.67	806
PSC 80	8	65	28	35	38	28	M6	372.67	808
PSC 80	10	65	35	35	41	31	M8	372.67	810
PSC 80	12	70	42	40	47	37	M10	372.67	812
PSC 80	14	70	44	40	47	37	M10	372.67	814
PSC 80	16	75	48	45	50	40	M12	372.67	816
PSC 80	18	75	50	45	50	40	M12	372.67	818
PSC 80	20	80	52	50	52	42	M16	372.67	820
PSC 80	25	90	65	60	58	48	M16	372.67	825 ¹⁾
PSC 80	32	95	72	65	61	51	M16	372.67	832 ¹⁾

1) Version with two grub screws



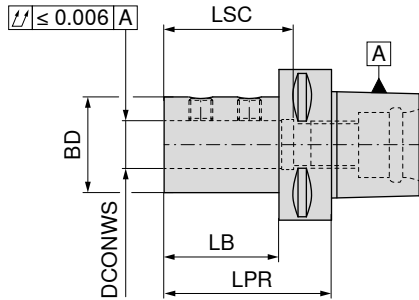
62 950 ...

84 950 ...

Spare parts	DCONWS		£		£		
			W7	006	Y8		
6		M6x10	1.16	006	M5	16.94	146
8		M8x10	1.16	008	M6	16.94	147
10		M10x12	2.22	010	M8	16.94	148
12 - 14		M12x16	1.76	012	M10	16.94	149
16 - 18		M14x16	2.18	016	M12	16.94	150
20		M16x16	2.32	020	M16	16.94	151
25		M18x2x20	4.48	025	M16	16.94	151
32		M20x2x20	4.68	032	M16	16.94	151

Indexable insert drill adapter ISO 26623-1 PSC

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



Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 128 ...	
						£	
PSC 32	16	60	36	45	49	Y8	
PSC 32	20	60	40	45	54	454.06	316
PSC 32	20	60	40	45	54	454.06	320
PSC 40	16	60	36	40	49	470.38	416
PSC 40	20	60	40	40	54	470.38	420
PSC 40	25	70	45	50	59	470.38	425
PSC 50	16	65	36	45	49	502.84	516
PSC 50	20	65	40	45	54	502.84	520
PSC 50	25	70	45	50	59	502.84	525
PSC 50	32	75	52	55	63	502.84	532
PSC 63	16	70	36	48	49	502.84	616
PSC 63	20	70	40	48	54	502.84	620
PSC 63	25	75	45	53	59	502.84	625
PSC 63	32	75	52	53	63	502.84	632
PSC 63	40	85	65	63	73	502.84	640
PSC 63	50	115	75	93	83	502.84	650
PSC 80	16	80	36	50	49	600.56	816
PSC 80	20	80	40	50	54	600.56	820
PSC 80	25	85	45	55	59	600.56	825
PSC 80	32	90	52	60	63	600.56	832
PSC 80	40	95	65	65	73	600.56	840
PSC 80	50	100	75	70	83	600.56	850

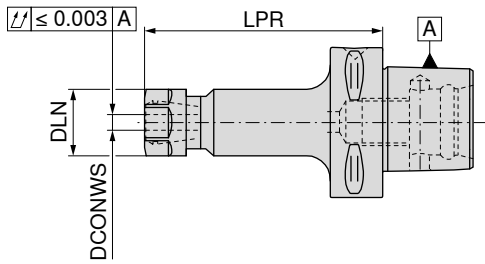


Spare parts

DCONWS	83 950 ...	
	£	
16 - 20	Y8	
16 - 20	9.05	180
25 - 32	9.05	181
40 - 50	8.08	182

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	£	
PSC 32	1 - 10	45	28	8 - 56	426E (ER16)	242.49	304
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)	258.81	404
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)	274.95	504
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	323.90	506
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	274.95	604
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	323.90	606
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	356.35	806
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	307.58	804

84 114 ...

£
Y8

304

404

504

506

604

606

806

804

62 950 ...

£
W7

044

Spare parts for collet

426E (ER16)

M22x1,5 - SW25

33.81

044



Accessories

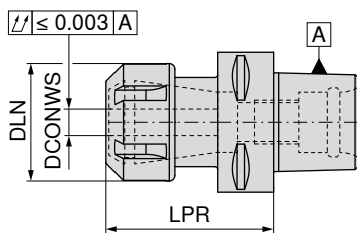


ER collet

→ 268-276, 279

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 115 ...

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	£	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	242.49	306 ¹⁾
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	258.81	404 ¹⁾
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	258.81	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	258.81	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	274.95	502 ¹⁾
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	340.02	504 ¹⁾
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	274.95	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	340.02	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	291.27	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	356.35	512
PSC 50	3 - 26	65	63	176	472E (ER40)	301.06	514
PSC 50	3 - 26	100	63	176	472E (ER40)	366.14	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	274.95	602 ¹⁾
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	340.02	604 ¹⁾
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	274.95	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	340.02	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	291.27	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	356.35	612
PSC 63	3 - 26	65	63	176	472E (ER40)	301.06	614
PSC 63	3 - 26	100	63	176	472E (ER40)	366.14	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	372.67	802 ¹⁾
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	486.51	804 ¹⁾
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	372.67	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	486.51	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	372.67	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	486.51	812
PSC 80	3 - 26	80	63	176	472E (ER40)	372.67	814
PSC 80	3 - 26	100	63	176	472E (ER40)	486.51	816

1) with 6 position lock nut

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

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
428E (ER20)	27.26	045	98.88	053	28.01	055	42.89	12000
430E (ER25)			101.40	055	35.87	65600	29.58	125
470E (ER32)			108.45	056	34.86	65700	43.08	132
472E (ER40)			130.50	057			48.80	140

Accessories

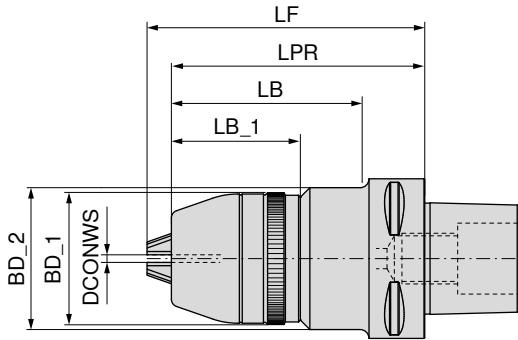


Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 2,5 n_{max} 12000

84 111 ...

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		

£
Y8

1,156.77 01395

1,187.15 01695

1,180.49 01394

1,211.40 01694

1,204.47 01393

1,236.17 01693

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

Accessories

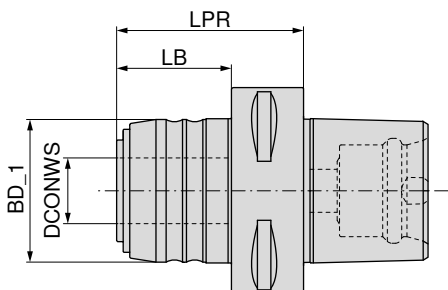


Others

→ 284

Synchronised quick change tap chuck with minimal length compensation

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



84 140 ...

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

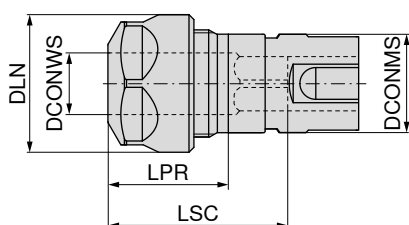
£	Y8
1,111.45	612
1,249.85	620

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

£	Y8
247.61	012 ¹⁾
288.42	020

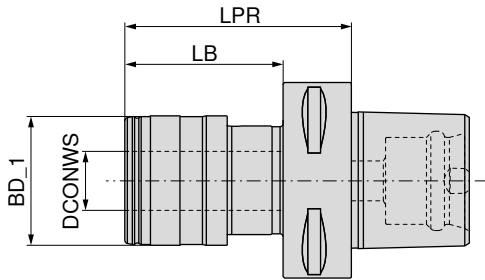
1) with 6 position lock nut

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

Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	£		£		£		£				
83 608 012	M22x1,5 - SW25	33.81	044	M22x1,5	87.05	054	M22x1,5	26.90	054	29.58	116
83 608 020				M32x1,5	101.40	055	M32x1,5	28.01	055	29.58	125

Quick change tap chuck with length compensation

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



Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LB	LZD±	84 142 ...	
			mm	mm	mm	mm	mm	£	
PSC 63	M3 - M12	01	73	41	19	51	7,5	1,153.41	612
PSC 63	M6 - M20	02	97	60	31	75	10	1,296.01	620

Accessories

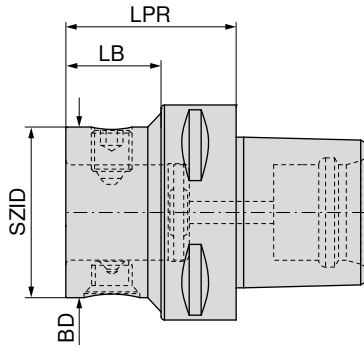


Collet

→ 288-292

Adapter with ABS Connection

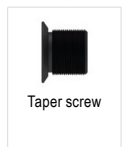
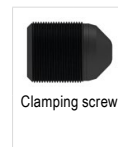
▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB		
			mm	mm	mm		
PSC 40	A69 04050	ABS 50	50	50	30		
PSC 50	A69 05050	ABS 50	50	50	30		
PSC 63	A69 06050	ABS 50	50	50	28		
PSC 63	A69 06060	ABS 63	63	60	36		
PSC 80	A69 08050	ABS 50	50	50	23		
PSC 80	A69 08060	ABS 63	63	60	30		
PSC 80	A69 08070	ABS 80	80	80	50		

84 215 ...

£	
Y8/3K	
1,820.91	04097
1,172.53	05097
1,218.26	06397
1,258.78	06396
1,726.34	08097
1,820.91	08096
1,926.10	08092



84 950 ...

84 950 ...

£	
XX	
11.49	20300
10.93	25500
13.45	25600

£	
XX	
14.59	20400
13.87	27300
16.36	25100

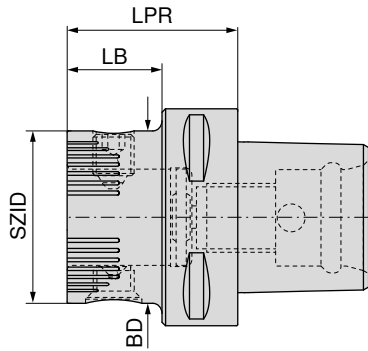
Spare parts

SZID

- ABS 50
- ABS 63
- ABS 80

Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB	84 206 ...	
			mm	mm	mm	£	
PSC 50	A69 05060	ABS 50	50	50	30	814.28	05094
PSC 63	A69 06070	ABS 50	50	50	28	844.78	05093
PSC 63	A69 06080	ABS 63	63	60	38	922.78	06393
PSC 80	A69 08090	ABS 50	50	50	23	1,150.24	05086
PSC 80	A69 08100	ABS 63	63	60	30	1,262.79	06386
PSC 80	A69 08110	ABS 80	80	80	50	1,384.33	08086



Spare parts

SZID	84 950 ...		84 950 ...	
	£		£	
ABS 50	11.49	20300	14.59	20400
ABS 63	10.93	25500	13.87	27300
ABS 80	13.45	25600	16.36	25100

Accessories



Coolant transfer pipe

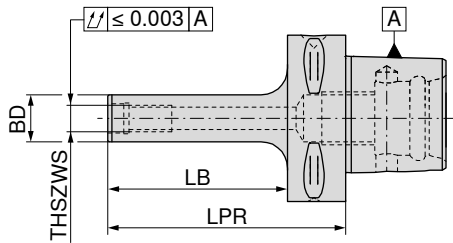
Others

→ 176

→ 284

Adapter for screw-in milling cutter

▲ also available with Balluff chip on request



G 2,5 n_{max} 20000

Adapter	THSZWS	LPR	BD	LB		
		mm	mm	mm		
PSC 32	M8	60	13	45		
PSC 32	M10	70	18	55		
PSC 40	M8	70	13	50		
PSC 40	M10	80	18	60		
PSC 40	M12	80	21	60		
PSC 50	M8	70	13	50		
PSC 50	M10	80	18	60		
PSC 50	M12	80	21	60		
PSC 50	M16	80	29	60		
PSC 63	M8	70	13	48		
PSC 63	M10	90	18	68		
PSC 63	M12	100	21	78		
PSC 63	M16	100	29	78		

84 110 ...

£
Y8

302
306

382.45 402
382.45 405
382.45 408

388.96 502
388.96 505
388.96 508
388.96 512

421.44 602
421.44 605
421.44 608
421.44 612

Accessories



Coolant transfer pipe

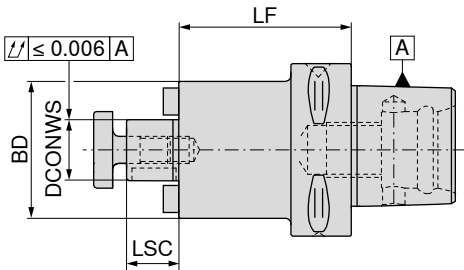
→ 176

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 ...

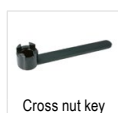
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	£ Y8	
PSC 40	16	28	40	17	291.27	401
PSC 40	16	63	40	17	307.58	402
PSC 40	22	40	50	19	291.27	411
PSC 40	22	63	50	19	307.58	412
PSC 50	16	28	40	17	291.27	501
PSC 50	16	63	40	17	307.58	502
PSC 50	22	28	50	19	291.27	511
PSC 50	22	63	50	19	307.58	512
PSC 50	27	32	50	21	291.27	521
PSC 50	27	63	50	21	307.58	522
PSC 50	32	40	63	24	291.27	531
PSC 50	32	63	63	24	307.58	532
PSC 63	16	63	40	17	323.90	602
PSC 63	22	28	63	19	307.58	611
PSC 63	22	63	50	19	323.90	612
PSC 63	27	28	58	21	307.58	621
PSC 63	27	63	58	21	323.90	622
PSC 63	32	22	63	24	307.58	631
PSC 63	32	86	63	24	323.90	632
PSC 63	40	40	70	27	356.35	641
PSC 80	16	63	40	17	382.45	802
PSC 80	22	30	50	19	367.86	811
PSC 80	22	63	50	19	382.45	812
PSC 80	27	30	58	21	367.86	821
PSC 80	27	63	58	21	382.45	822
PSC 80	32	30	63	24	367.86	831
PSC 80	32	86	63	24	382.45	832
PSC 80	40	40	70	27	367.86	841



drive key



drive dog



Cross nut key



Cross screw



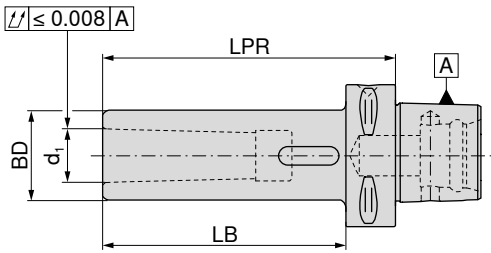
clamping screw

Spare parts

DCONWS	£ Y8		£ Y8		£ Y8		£ Y8		£ Y8/3B			
16	6.37	108	14.44	113	26.72	116	M8	7.10	016	M8x25	7.53	113
22	6.37	109	16.94	114	33.25	122	M10	7.90	022	M10x25	8.50	124
27	6.37	110	18.33	115	39.10	127	M12	10.10	027	M12x30	9.39	125
32	6.37	111	20.80	116	53.28	132	M16	15.86	032	M16x35	11.43	126
40	6.37	112	23.14	117	52.92	140	M20	16.97	040	M20x40 - SW17	12.61	112

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

▲ also available with Balluff chip on request



Adapter	d ₁	LPR mm	BD mm	LB mm	84 126 ...	
					£ Y8	
PSC 40	MK2	110	32	90	307.58	402
PSC 40	MK3	130	40	119	323.90	403
PSC 50	MK2	110	32	90	323.90	502
PSC 50	MK3	130	40	110	340.02	503
PSC 50	MK4	150	48	132	356.35	504
PSC 63	MK2	110	32	88	323.90	602
PSC 63	MK3	130	40	108	340.02	603
PSC 63	MK4	150	48	128	356.35	604
PSC 80	MK2	120	32	90	372.67	802
PSC 80	MK3	140	40	110	405.13	803
PSC 80	MK4	160	48	130	437.76	804

Blank

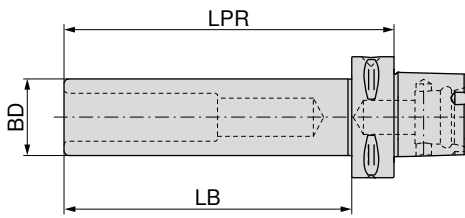
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	84 134 ...	
			£ Y8	
PSC 40	40	95	226.16	402
PSC 40	40	120	242.49	403
PSC 40	60	165	258.81	404
PSC 40	80	75	291.27	405
PSC 40	80	120	307.58	406
PSC 40	100	85	323.90	408
PSC 50	50	125	258.81	502
PSC 50	50	150	274.95	503
PSC 50	75	175	307.58	504
PSC 50	90	80	323.90	506
PSC 50	95	150	340.02	508
PSC 50	110	90	323.90	510
PSC 63	63	180	307.58	602
PSC 63	75	195	323.90	604
PSC 63	110	85	323.90	606
PSC 63	120	180	486.51	608
PSC 63	130	95	372.67	610
PSC 80	80	200	372.67	802
PSC 80	120	160	372.67	804
PSC 80	130	90	356.35	806
PSC 80	145	200	405.13	808

Test bar

▲ also available with Balluff chip on request



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

84 136 ...

£	
Y8	
1,096.08	030
1,215.69	040
1,298.66	050
1,366.99	060
1,640.39	080

Coolant pipe – PSC

Scope of supply:

complete, including seals



84 116 ...

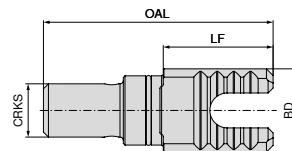
Adapter	THOD	£	
		Y8	
PSC 40	M14 x 1,5	57.55	04000
PSC 50	M16 x 1,5	60.50	05000
PSC 63	M20 x 2,0	63.47	06300
PSC 80	M20 x 2,0	79.09	08000

Pull stud for PSC adapter

▲ for front clamping

Scope of supply:

including O-Ring



NEW

83 235 ...

Adapter	LF mm	OAL mm	BD mm	CRKS	£	
					Y8	
PSC 40	26.3	56	20	M14x1,5	131.28	04000
PSC 50	33.0	69	25	M16x1,5	131.28	05000
PSC 63	33.0	79	31	M20x2	185.34	06300

Key – PSC



84 117 ...

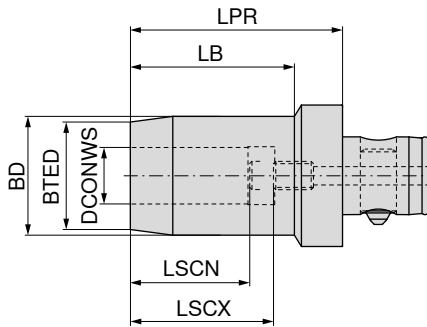
Adapter	£	
	Y8	
PSC 40	51.69	04000
PSC 50	55.37	05000
PSC 63	59.14	06300
PSC 80	79.97	08000

HyTens – Fit

- ▲ Hydraulic chuck with ABS connection
- ▲ for solid carbide and HSS shanks to h6 tolerance or better

Scope of supply:

Base body including backstop screw



Adapter	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm
ABS 40	6	22	26	55	36.5	37	27
ABS 40	8	24	28	60	42.0	37	27
ABS 40	10	26	30	65	47.5	41	31
ABS 40	12	28	32	65	48.0	46	36
ABS 50	6	22	26	55	33.5	37	27
ABS 50	8	24	28	55	34.0	37	27
ABS 50	10	26	30	65	45.0	41	31
ABS 50	12	28	32	65	45.5	46	36
ABS 50	14	30	34	65	46.0	46	36
ABS 50	16	34	38	70	52.0	49	39
ABS 50	18	36	40	70	52.5	49	39
ABS 50	20	38	42	75	58.0	51	41
ABS 63	20	38	42	78	56.0	51	41
ABS 63	25	53	57	85	60.0	57	47
ABS 63	32	60	64	90	61.0	61	51

84 253 ...

£	Y8
962.91	00688
962.91	00888
962.91	01088
962.91	01288
1,078.35	00697
1,078.35	00897
1,078.35	01097
1,078.35	01297
1,078.35	01497
1,078.35	01697
1,078.35	01897
1,078.35	02097
1,370.15	02096
1,370.15	02596
1,370.15	03296



Spare parts
DCONWS

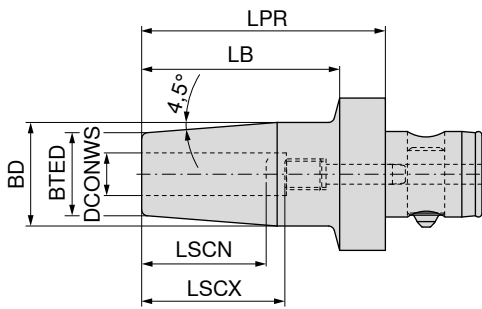
DCONWS	Part	£	Y7
6	M5x12,5 - SW2,5	25.16	418
8	M6x12,5 - SW3	25.16	419
10	M8x1x13,5 - SW3	25.16	420
12	M10x1x13,5 - SW5	25.16	421
14	M10x1x13,5 - SW5	25.16	421
16	M10x1x13,5 - SW5	25.16	421
18	M10x1x13,5 - SW5	25.16	421
20	M16x1x13,5 - SW5	29.02	423
25	M16x1x13,5 - SW5	29.02	423
32	M16x1x13,5 - SW5	29.02	423

83 950 ...

For an overview of the ABS spare parts, take a look at **page 314**.

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	541.36	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	280.25	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	390.20	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	310.52	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	401.23	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	313.21	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	395.72	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	508.38	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	302.30	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	373.76	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	368.25	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	310.52	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	373.76	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	357.23	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	305.00	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	272.04	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	343.50	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	349.00	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	461.68	03296



Backstop screw

84 950 ...

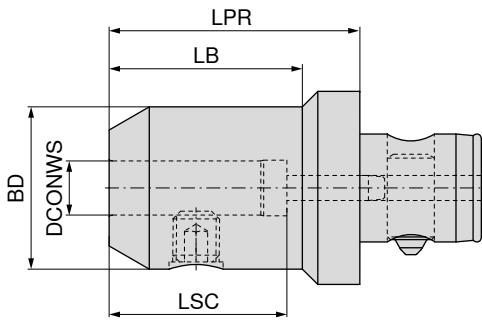
Spare parts

DCONWS	£	
6	5.38	M5x18 21400
8	5.38	M6x20 21500
10	3.98	M8x1x20 21600
12	5.00	M10x1x20 21700
14	5.00	M10x1x20 21700
16	6.91	M12x1x20 21800
18	6.91	M12x1x20 21800
20	8.96	M8x1x20 21900
25	8.96	M8x1x20 21900
32	8.96	M8x1x20 21900

1 For an overview of the ABS spare parts, take a look at **page 314**.

Cylindrical shank adapter (Weldon) with ABS connection

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



							84 221 ...	
Adapter	KOMET no.	DCONWS	LPR	BD	LB	LSC	£	
		mm	mm	mm	mm	mm	3E	
ABS 50	A32 40010	6	45	25.0	27	40	200.57	00697
ABS 50	A32 40020	8	45	28.0	27	40	200.57	00897
ABS 50	A32 40030	10	55	35.0	37	44	200.57	01097
ABS 50	A32 40040	12	65	42.0	50	49	225.31	01297
ABS 50	A32 40080	14	65	44.0	50	49	217.10	01497
ABS 50	A32 40050	16	65	48.0	50	52	222.62	01697
ABS 50	A32 40090	18	65	49.9	50	52	250.08	01897
ABS 50	A32 40060	20	65	52.0	50	54	239.05	02097
ABS 50	A32 40070	25	75	65.0	60	60	228.14	02597 ¹⁾
ABS 63	A32 50040	12	65	42.0	50	49	321.55	01296
ABS 63	A32 50100	14	65	44.0	50	49	343.50	01496
ABS 63	A32 50050	16	65	48.0	50	52	294.09	01696
ABS 63	A32 50110	18	65	50.0	50	52	302.30	01896
ABS 63	A32 50060	20	65	52.0	45	54	252.79	02096
ABS 63	A32 50070	25	75	65.0	60	60	250.08	02596 ¹⁾
ABS 63	A32 50080	32	80	72.0	65	64	255.60	03296 ¹⁾
ABS 80	A32 60060	20	65	52.0	45	54	360.04	02092
ABS 80	A32 60070	25	75	65.0	55	60	349.00	02592 ¹⁾
ABS 80	A32 60080	32	80	72.0	66	64	261.12	03292 ¹⁾

1) Version with two grub screws



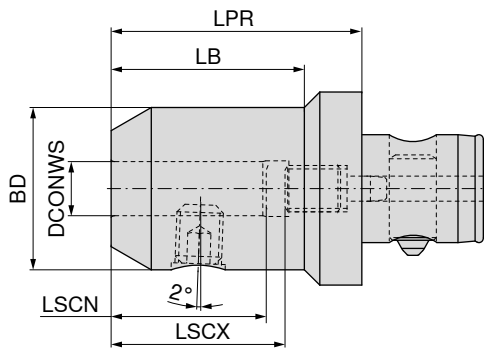
Grubscrew

			62 950 ...	
Spare parts	DCONWS		£	
			W7	
6		M6x10	1.16	006
8		M8x10	1.16	008
10		M10x12	2.22	010
12		M12x16	1.76	012
14		M12x16	1.76	012
16		M14x16	2.18	016
18		M14x16	2.18	016
20		M16x16	2.32	020
25		M18x2x20	4.48	025
32		M20x2x20	4.68	032

For an overview of the ABS spare parts, take a look at [page 314](#).

Cylindrical shank adapter (Whistle Notch) with ABS connection

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



84 220 ...

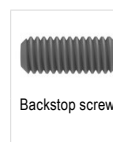
Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	£ 3E	
ABS 25	A30 10601	6	55	40	24.9	36	26	222.62	00690
ABS 25	A30 10801	8	55	40	28.0	36	26	236.35	00890
ABS 25	A30 11001	10	60	45	35.0	40	30	222.62	01090
ABS 32	A30 20601	6	55	40	25.0	36	26	228.14	00689
ABS 32	A30 20801	8	55	40	28.0	36	26	228.14	00889
ABS 32	A30 20901	9	55	40	28.0	36	26	247.27	00989
ABS 32	A30 21001	10	60	45	35.0	40	30	208.89	01089
ABS 32	A30 21201	12	65	50	42.0	45	35	230.83	01289
ABS 32	A30 21401	14	65		42.0	45	35	313.21	01489
ABS 40	A30 30601	6	55	35	25.0	36	26	316.04	00688
ABS 40	A30 30801	8	55	35	28.0	36	26	261.12	00888
ABS 40	A30 31001	10	60	45	35.0	40	30	285.77	01088
ABS 40	A30 31201	12	65	50	42.0	45	35	239.05	01288
ABS 40	A30 31401	14	65	50	42.0	45	35	329.77	01488
ABS 40	A30 31601	16	70	55	48.0	48	38	307.82	01688
ABS 40	A30 31801	18	70	55	48.0	48	38	327.07	01888
ABS 50	A30 40601	6	55	30	25.0	36	26	228.14	00697
ABS 50	A30 40801	8	55	30	28.0	36	26	244.57	00897
ABS 50	A30 41001	10	60	40	35.0	40	30	225.31	01097
ABS 50	A30 41201	12	65	50	42.0	45	35	239.05	01297
ABS 50	A30 41301	13	65	50	42.0	45	35	393.01	01397
ABS 50	A30 41401	14	65	50	42.0	45	35	272.04	01497
ABS 50	A30 41601	16	70	55	48.0	48	38	252.79	01697
ABS 50	A30 41801	18	70	55	48.0	48	38	299.49	01897
ABS 50	A30 42002	20	75	60	52.0	50	40	283.05	02097
ABS 50	A30 42202	22	75	60	52.0	50	40	393.01	02297
ABS 50	A30 42502	25	75	60	52.0	50	40	272.04	02597 ¹⁾
ABS 63	A30 51001	10	60	35	35.0	40	30	335.29	01096
ABS 63	A30 51201	12	65	45	42.0	45	35	294.09	01296
ABS 63	A30 51401	14	65	45	42.0	45	35	346.20	01496
ABS 63	A30 51601	16	70	50	48.0	48	38	327.07	01696
ABS 63	A30 51801	18	70	50	48.0	48	38	354.54	01896
ABS 63	A30 52001	20	75	55	52.0	50	40	313.21	02096
ABS 63	A30 52501	25	80	65	65.0	56	46	272.04	02596 ¹⁾
ABS 63	A30 52801	28	80	65	65.0	56	46	873.82	02896 ¹⁾
ABS 80	A30 62501	25	80	60	65.0	56	46	305.00	02592 ¹⁾
ABS 80	A30 63201	32	90	70	72.0	60	50	373.76	03292 ¹⁾

1) Version with two grub screws

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




Grubscrew



Backstop screw

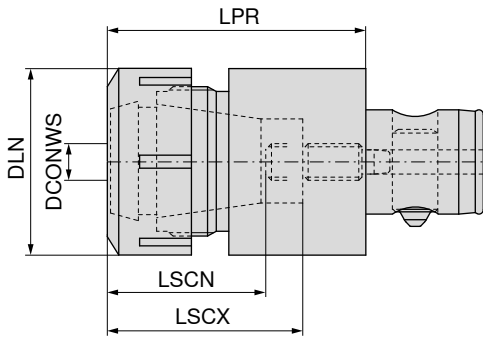
		62 950 ...		84 950 ...	
		£		£	
		W7		W7/6B	
Spare parts					
DCONWS					
6	M6x10	1.16	006	M5x16	3.98 20500
8	M8x10	1.16	008	M6x16 - SW2,5	3.98 20600
9	M8x10	1.16	008	M8x1x16 - SW3	3.98 20800
10	M10x12	2.22	010	M8x1x16 - SW2,5	3.98 20700
12	M12x16	1.76	012	M10x1x18 - SW3	5.00 20900
13	M12x16	1.76	012	M12x1x17 - SW3	6.91 21000
14	M12x16	1.76	012	M12x1x17 - SW3	6.91 21000
16	M14x16	2.18	016	M14x1x19 - SW4	8.33 21100
18	M14x16	2.18	016	M14x1x19 - SW4	8.33 21100
20	M16x16	2.32	020	M16x1x21 - SW5	8.96 21200
22	M16x16	2.32	020	M16x1x21 - SW5	8.96 21200
25	M16x16	2.32	020	M16x1x21 - SW5	8.96 21200
28	M18x2x20	4.48	025	M16x1x21 - SW5	8.96 21200
32	M20x2x20	4.68	032	M20x1x27 - SW8	13.71 21300

 For an overview of the ABS spare parts, take a look at [page 314](#).

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



Adapter	KOMET no.	for collet	DCONWS mm	LPR mm	DLN mm	LSCN mm	LSCX mm	84 224 ...	
ABS 25	A33 11120	426E (ER16)	1 - 10	40.1	28	31	28	£ 3E	01690 ¹⁾
ABS 32	A33 12130	428E (ER20)	1 - 13	52.5	34	39	35	248.06	02089 ¹⁾
ABS 40	A33 13141	430E (ER25)	1 - 16	62.0	42	46	43	272.48	02588
ABS 50	A33 14151	470E (ER32)	2 - 20	69.3	50	51	48	290.93	03297
ABS 63	A33 15161	472E (ER40)	3 - 26	78.3	63	55	52	336.17	04096
								331.57	

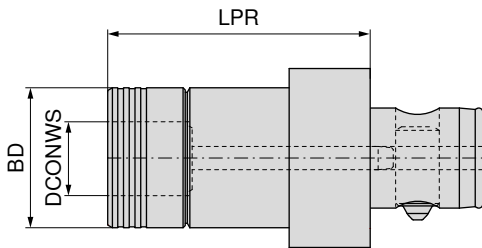
1) with 6 position lock nut

Spare parts for collet	62 950 ...		83 950 ...		62 950 ...		84 950 ...	
	£		£		£		£	
426E (ER16)	33.81	044	87.05	054	28.01	055	3.98	22500
428E (ER20)	27.26	045	98.88	053	35.87	65600	3.98	22000
430E (ER25)			101.40	055			4.35	22600
470E (ER32)			108.45	056	34.86	65700	5.00	22700
472E (ER40)			130.50	057			6.91	22800

For an overview of the ABS spare parts, take a look at **page 314**.

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)



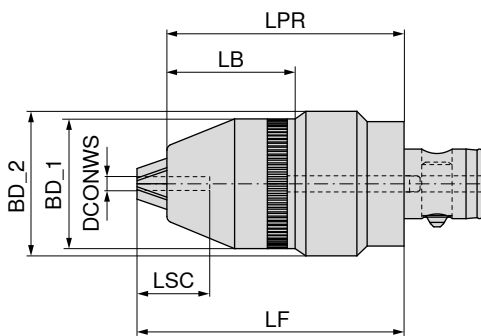
Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	SZID
ABS 32	A34 32060	19	39	69	01
ABS 40	A34 33060	19	39	73	01
ABS 50	A34 34060	19	39	72	01
ABS 50	A34 34070	31	60	98	02
ABS 63	A34 35070	31	60	111	02

84 225 ...	
£	
3E	
1,149.12	01989
1,489.01	01988
1,410.23	01997
1,728.73	03197
1,744.49	03196

Short drill chuck

Scope of supply:

Toolholder including clamping key SW4



G 6,3 n_{max} 10000

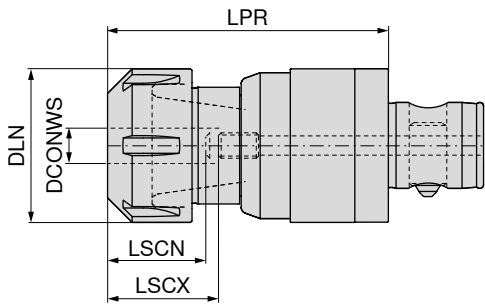
Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	LSC mm	LF mm	LB mm
ABS 50	0,5 - 13	49	57.5	95	29	104.0	51.5
ABS 50	2,5 - 16	52	57.5	95	29	105.5	52.0

84 247 ...	
£	
Y8	
1,370.74	01397
1,392.03	01697

Accessories

Collet	Pull studs	Others
→ 288-292	→ 58	→ 284


Synchro tapping shuck with ABS connection



84 226 ...

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

£
Y8/3K
1,615.44 02089
1,615.44 02097
1,772.05 03297

 For an overview of the ABS spare parts, take a look at **page 314**.

Accessories



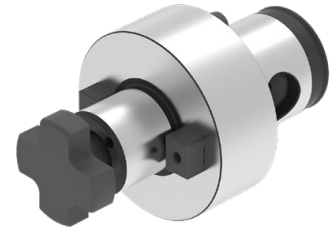
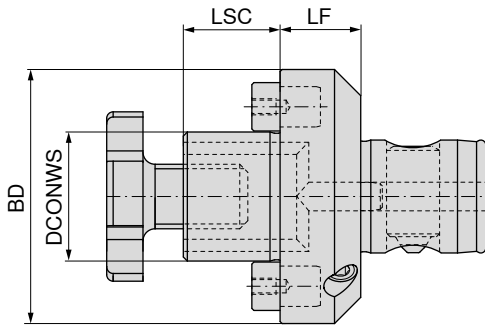
ER collet

→ 268-276, 278-279

Shell mill adapter with ABS connection

Scope of supply:

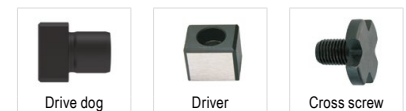
Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS	LSC	LF	BD	84 228 ...	84 228 ...
		mm	mm	mm	mm	£	£
ABS 50	A40 24023	16	17	20	50	3E	01697
ABS 50	A40 24034	22	19	20	50		02297
ABS 50	A40 24043	27	21	20	50		02797
ABS 50	A40 24053	32	24	20	63		03297
ABS 63	A40 25032	22	19	22	63		02296
ABS 63	A40 25042	27	21	22	63		02796
ABS 63	A40 25052	32	24	22	63		03296
ABS 63	A40 25062	40	27	22	80		04096
ABS 80	A40 26042	27	21	25	80		02792
ABS 80	A40 26052	32	24	25	80		03292
ABS 80	A40 26062	40	27	25	80		04092
ABS 80	A40 16062	40	30	43	88	581.99	14092
ABS 100	A40 27052	32	24	25	100		03291
ABS 100	A40 17062	40	30	38	88	494.97	14091
ABS 100	A40 27062	40	27	25	100		04091
ABS 100	A40 17072	60	40	56	130	631.84	06091

Spare parts

DCONWS	84 950 ...	83 950 ...	83 367 ...
	£	£	£
16	W7/6B	Y8/3B	Y8
22	43.73		7.10
27	22900		016
32	46.17		7.90
40	23000		022
40	43.73		10.10
40	23100		027
60		27.87	15.86
		295	032
		31.42	16.97
		298	040



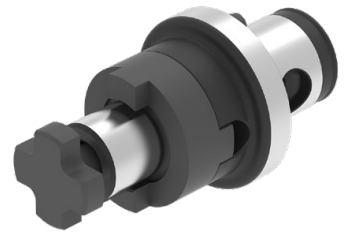
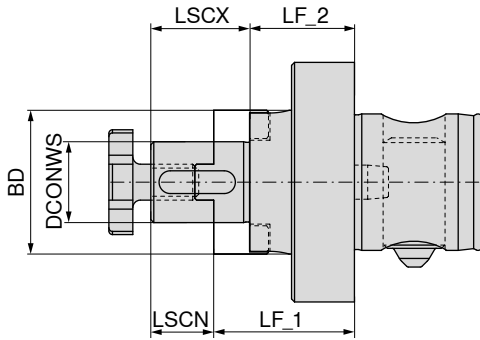
For an overview of the ABS spare parts, take a look at **page 314**.

Combination shell mill adapter with ABS connection

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

Scope of supply:

Base body including retaining screw, drive ring and drive key

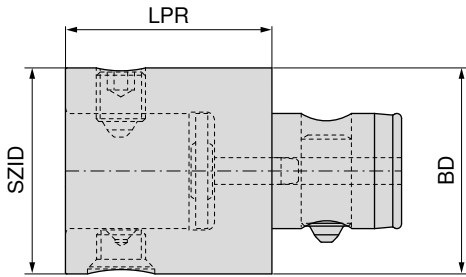


Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm	84 229 ...
ABS 50	A40 04022	16	32	32	22	27	17	£ 3E 267.76 01697
ABS 50	A40 04032	22	40	34	22	31	19	£ 258.53 02297
ABS 63	A40 05021	16	32	36	26	27	17	£ 375.57 01696
ABS 63	A40 05031	22	40	38	26	31	19	£ 421.94 02296
ABS 63	A40 05041	27	48	38	26	33	21	£ 328.07 02796
ABS 80	A40 06031	22	40	45	33	31	19	£ 493.86 02292
ABS 80	A40 06041	27	48	45	33	33	21	£ 444.01 02792
ABS 80	A40 06051	32	58	47	33	38	24	£ 370.97 03292
ABS 80	A40 06061	40	70	47	33	41	27	£ 390.65 04092

Spare parts	Parallel key			Drive ring			Cross screw		
	DCONWS	83 950 ...	83 370 ...	83 367 ...					
16	4 x 4 x 20	£ 4.37 284	£ 16.18 116	M8	£ 7.10 016				
22	6 x 6 x 25	£ 4.37 285	£ 15.51 122	M10	£ 7.90 022				
27	7 x 7 x 25	£ 6.94 286	£ 19.35 127	M12	£ 10.10 027				
32	8 x 7 x 28	£ 4.95 287	£ 20.31 132	M16	£ 15.86 032				
40	10 x 8 x 32	£ 5.84 288	£ 34.21 140	M20	£ 16.97 040				

For an overview of the ABS spare parts, take a look at **page 314**.

Extension with ABS Connection



					84 209 ...	
Adapter	KOMET no.	SZID	BD	LPR		
			mm	mm	£	
ABS 25	A20 00020	ABS 25	25	45	272.48	04590
ABS 25	A20 00220	ABS 25	25	60	272.48	06090
ABS 32	A20 00530	ABS 32	32	35	288.23	03589
ABS 32	A20 00030	ABS 32	32	50	288.23	05089
ABS 32	A20 00230	ABS 32	32	70	288.23	07089
ABS 40	A20 00540	ABS 40	40	40	303.87	04088
ABS 40	A20 00040	ABS 40	40	60	303.87	06088
ABS 40	A20 00240	ABS 40	40	90	303.87	09088
ABS 50	A20 00550	ABS 50	50	50	338.79	05097
ABS 50	A20 00050	ABS 50	50	65	338.79	06597
ABS 50	A20 00250	ABS 50	50	100	338.79	10097
ABS 50	A20 00150	ABS 50	50	150	338.79	15097
ABS 63	A20 00560	ABS 63	63	60	383.34	06096
ABS 63	A20 00060	ABS 63	63	85	383.34	08596
ABS 63	A20 00260	ABS 63	63	125	383.34	12596
ABS 63	A20 00160	ABS 63	63	190	383.34	19096
ABS 80	A20 00570	ABS 80	80	70	452.10	07092
ABS 80	A20 00070	ABS 80	80	85	452.10	08592
ABS 80	A20 00270	ABS 80	80	125	471.35	12592
ABS 80	A20 00170	ABS 80	80	240	471.35	24092
ABS 100	A20 00580	ABS 100	100	85	503.89	08591
ABS 100	A20 00080	ABS 100	100	125	503.89	12591
ABS 100	A20 00280	ABS 100	100	160	530.45	16091
ABS 125	A20 00090	ABS 125	125	160	596.72	16085
ABS 125	A20 00290	ABS 125	125	200	629.37	20085

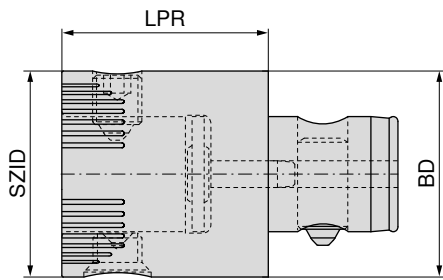
Spare parts	Clamping screw		Clamping screw		Positioning pin		Pendulum bolt		Coolant pipe		Taper screw	
	£	XX	£	XX	£	XX	£	XX	£	XX	£	XX
Adapter												
ABS 25			7.55	26800	0.44	23600	24.97	26000	7.64	24400	10.93	27000
ABS 32	12.60	13989			8.60	23700	18.57	26100	7.92	24500	10.93	27100
ABS 40			8.56	26900	8.60	23800	26.07	26200	7.92	24600	11.37	27200
ABS 50			11.49	20300	12.47	20200	34.10	20000	8.79	20100	14.59	20400
ABS 63			10.93	25500	9.55	23900	30.39	26300	8.55	24700	13.87	27300
ABS 80			13.45	25600	10.01	24000	32.75	26400	8.90	24800	16.36	25100
ABS 100			16.56	25700	11.71	24100	37.64	26500	10.00	24900	18.17	25200
ABS 125			28.30	25800	22.60	24200	57.60	26600	11.14	25000	29.39	25300

For an overview of the ABS spare parts, take a look at **page 314**.

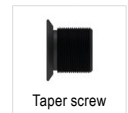
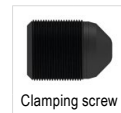
Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



Adapter	KOMET no.	SZID	BD	LPR	84 216 ...	
			mm	mm	£	
ABS 50	A20 00651	ABS 50	50	50	665.05	05097
ABS 63	A20 00661	ABS 63	63	60	832.62	06096
ABS 80	A20 00670	ABS 80	80	70	832.62	07092



Spare parts

Adapter	84 950 ...		84 950 ...	
	£		£	
ABS 50	11.49	20300	14.59	20400
ABS 63	10.93	25500	13.87	27300
ABS 80	13.45	25600	16.36	25100

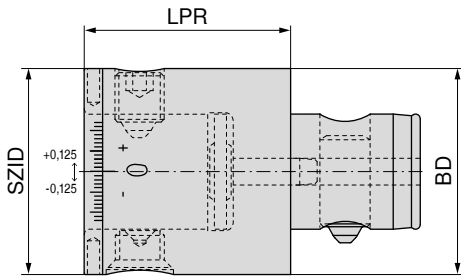
For an overview of the ABS spare parts, take a look at **page 314**.

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



Adapter	KOMET no.	SZID	BD	LPR	84 217 ...	
			mm	mm	£	
ABS 50	A20 00620	ABS 50	50	50	W4/6A	
ABS 63	A20 00630	ABS 63	63	60	716.24	05097
					774.11	06096

Clamping screw	Taper screw
84 950 ...	84 950 ...
£	£
XX	XX
11.49 20300	14.59 20400
10.93 25500	13.87 27300

Spare parts

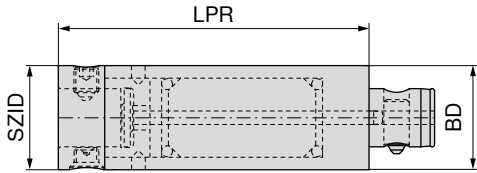
Adapter

ABS 50
ABS 63

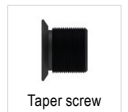
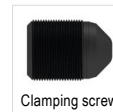
For an overview of the ABS spare parts, take a look at **page 314**.

Damping element with ABS connection

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



Adapter	KOMET no.	SZID	BD	LPR	RPMX	84 218 ...	
			mm	mm	1/min.	£	
ABS 40	A20 01240	ABS 40	40	120	8000	3E	12088
ABS 50	A20 01250	ABS 50	50	150	6300	1,348.32	15097
ABS 63	A20 01260	ABS 63	63	190	5000	1,566.67	19096
ABS 80	A20 01270	ABS 80	80	240	4000	2,048.37	24092
						2,853.08	

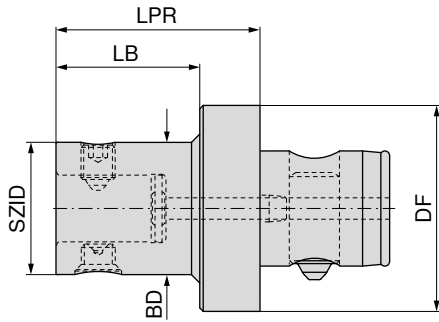


Spare parts

Adapter	84 950 ...		84 950 ...	
	£		£	
ABS 40	XX		XX	
ABS 50	8.56	26900	11.37	27200
ABS 63	11.49	20300	14.59	20400
ABS 80	10.93	25500	13.87	27300
	13.45	25600	16.36	25100

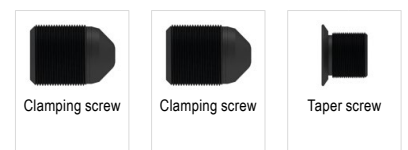
For an overview of the ABS spare parts, take a look at **page 314**.

Reduction with ABS connection



Adapter	KOMET no.	SZID	BD	DF	LPR	LB		84 219 ...
			mm	mm	mm	mm		£
ABS 32	A20 10120	ABS 25	25	32	40	30		3E
								305.00 03290
ABS 40	A20 10220	ABS 25	25	40	40	28		321.89 04090
ABS 40	A20 10230	ABS 32	32	40	40	28		321.89 04089
ABS 50	A20 10320	ABS 25	25	50	50	35		349.68 05090
ABS 50	A20 10330	ABS 32	32	50	50	35		349.68 05089
ABS 50	A20 10340	ABS 40	40	50	50	35		349.68 05088
ABS 63	A20 10420	ABS 25	25	63	60	40		391.77 06390
ABS 63	A20 10430	ABS 32	32	63	60	40		391.77 06389
ABS 63	A20 10440	ABS 40	40	63	60	40		391.77 06388
ABS 63	A20 10450	ABS 50	50	63	60	40		391.77 06397
ABS 80	A20 10530	ABS 32	32	80	60	35		463.02 08089
ABS 80	A20 10540	ABS 40	40	80	60	35		463.02 08088
ABS 80	A20 10550	ABS 50	50	80	60	35		463.02 08097
ABS 80	A20 10560	ABS 63	63	80	60	35		463.02 08096
ABS 100	A20 10650	ABS 50	50	100	80	50		505.23 10097
ABS 100	A20 10660	ABS 63	63	100	80	50		505.23 10096
ABS 100	A20 10670	ABS 80	80	100	80	50		505.23 10092
ABS 125	A20 10770	ABS 80	80	125	100	50		558.23 12592
ABS 125	A20 10780	ABS 100	100	125	100	50		558.23 12591

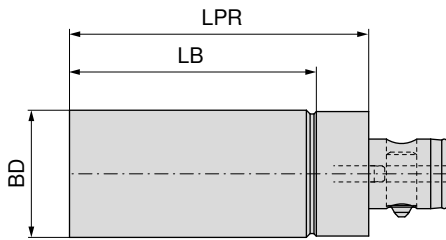
Spare parts SZID	62 950 ...		84 950 ...		84 950 ...	
	£	XX	£	XX	£	XX
ABS 25			7.55	26800	10.93	27000
ABS 32	12.60	13989			10.93	27100
ABS 40			8.56	26900	11.37	27200
ABS 50			11.49	20300	14.59	20400
ABS 63			10.93	25500	13.87	27300
ABS 80			13.45	25600	16.36	25100
ABS 100			16.56	25700	18.17	25200



For an overview of the ABS spare parts, take a look at **page 314**.

Blank with ABS connection

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



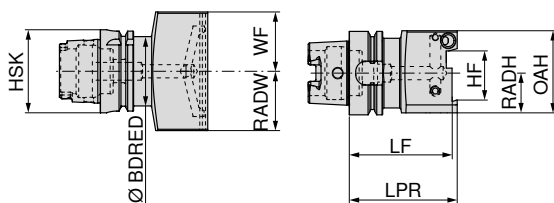
Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...

£	
W4/6A	
157.41	02690
165.92	03389
193.76	04188
188.91	05197
238.55	06496
369.35	08192
486.81	10191

 For an overview of the ABS spare parts, take a look at **page 314**.

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



radial

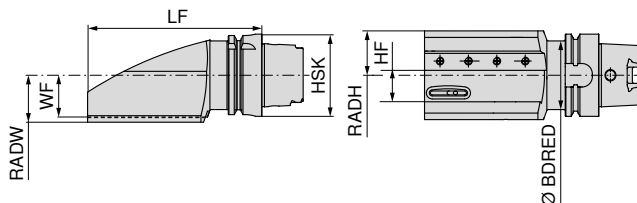
74 586 ...

£
2D/80

471.61 02637
471.61 03237

Adapter	LPR	LF	BDRED	WF	HF	OAH	RADW	RADH	for parting blades
	mm	mm	mm	mm	mm	mm	mm	mm	
HSK-T 63	84.0	80	52.6	45	26	62	45	30	XLCF N 26...
HSK-T 63	85.5	80	52.6	45	32	68	45	34	XLCF N 32...

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



Illustrations show right-hand versions



Left-hand

74 585 ...

£
2D/80

471.61 02637
471.61 03237



Right-hand

74 584 ...

£
2D/80

471.61 02637
471.61 03237

Adapter	LF	BDRED	WF	HF	RADW	RADH	for parting blades
	mm	mm	mm	mm	mm	mm	
HSK-T 63	155	52.6	32	26	36.0	34	XLCF R/L 26...
HSK-T 63	155	52.6	32	32	37.5	35	XLCF R/L 32...



70 950 ...

£
2A/28

5.21 293



70 950 ...

£
2A/28

5.21 292



70 950 ...

£
2A/28

75.17 860



70 950 ...

£
2A/28

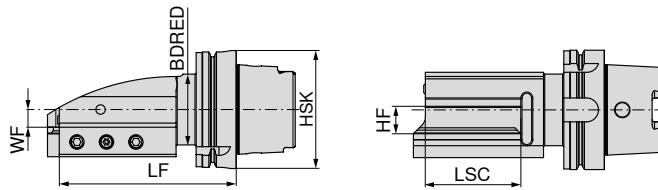
2.70 861

Spare parts for parting blades

XLCF R/L 26...	19x2,5	5.21	293	23x2,5	5.21	292	75.17	860	M6x12	2.70	861
XLCF R/L 32...	19x2,5	5.21	293	23x2,5	5.21	292	75.17	860	M6x12	2.70	861

HSK-T square shank holder 0° with DirectCooling

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



Illustrations show right-hand versions



Left-hand

74 571 ...

£
2D/80

368.74 02537
486.92 02535



Right-hand

74 570 ...

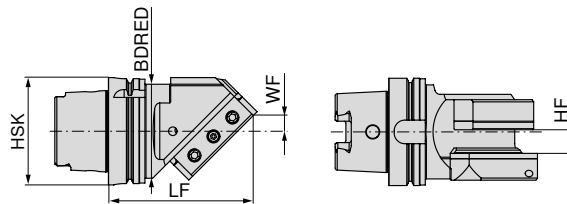
£
2D/80

368.74 02537
486.92 02535

Adapter	LF mm	BDRED mm	WF mm	LSC mm	HF mm
HSK-T 63	145	52.6	15	80	20 / 25 / 32
HSK-T 100	150	60.0	15	80	20 / 25 / 32

HSK-T square shank holder 45° with DirectCooling

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



Illustrations show right-hand versions



Left-hand

74 573 ...

£
2D/80

368.74 02537
501.15 02535



Right-hand

74 572 ...

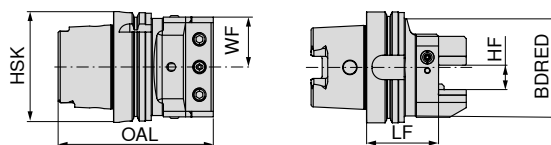
£
2D/80

368.74 02537
501.15 02535

Adapter	LF mm	BDRED mm	WF mm	HF mm
HSK-T 63	130	52.6	14.6	20 / 25 / 32
HSK-T 100	135	87.6	14.6	20 / 25 / 32

HSK-T square shank holder 90° with DirectCooling

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



Neutral

74 575 ...

£
2D/80

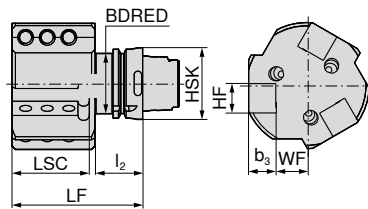
368.74 02537
486.92 02535

Adapter	LF mm	BDRED mm	WF mm	OAL mm	HF mm
HSK-T 63	60	52.6	45	117	20 / 25 / 32
HSK-T 100	65	87.6	45	140	20 / 25 / 32

Spare parts HSK-T square shank holders with DirectCooling

		Cylindrical screw		Clamping screw	
		83 950 ...		62 950 ...	
		£ Y7		£ W7/6B	
Spare parts					
Adapter					
HSK-T 63	M5x5 - SW2,5	3.85	157	M12x16 - SW6	1.28 51100
HSK-T 100	M5x5 - SW2,5	3.85	157	M12x16 - SW6	1.28 51100

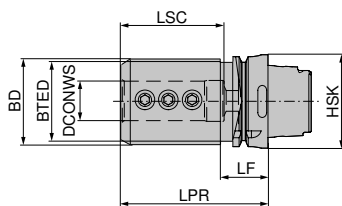
HSK-T square shank adapter 3-face 0°



ISO designation	Adapter	LF	l ₂	BDRED	WF	LSC	b ₃	HF	Left-hand	
mm	mm	mm	mm	mm	mm	mm	mm	mm	£	
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	2D/80	525
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	1,390.23	725

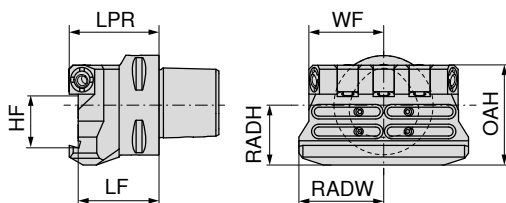
		Protection plugs		Nozzle		Hollow key with nose		Grubscrew		
		70 950 ...		70 950 ...		70 950 ...		70 950 ...		
		£ 2A/28		£ 2A/28		£ 2A/28		£ 2A/28		
Spare parts										
Adapter										
HSK-T 63	UNJF 7/16"-20	24.46	05600	UNJF 7/16"-20	35.18	05500	54.39	05700	M12x1,75x25	2.71 851
HSK-T 100	UNJF 7/16"-20	24.46	05600	UNJF 7/16"-20	35.18	05500	54.39	05700	M12x1,75x25	2.71 851

HSK-T Boring bar holder



ISO designation	Adapter	LPR	DCONWS	BD	LSC	LF	BTED	74 577 ...	
mm	mm	mm	mm	mm	mm	mm	mm	£	
HSK T63 BH08 80	HSK-T 63	80	8	32	41			2D/80	508
HSK T63 BH10 80	HSK-T 63	80	10	40	41			417.85	510
HSK T63 BH12 80	HSK-T 63	80	12	40	41			417.85	512
HSK T63 BH16 80	HSK-T 63	80	16	40	51			417.85	516
HSK T63 BH20 80	HSK-T 63	80	20	50	51			417.85	520
HSK T63 BH25 90	HSK-T 63	90	25	53	61			417.85	525
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53	417.85	532
HSK T100 BH20 90	HSK-T 100	90	20	55	56			532.46	720
HSK T100 BH25 95	HSK-T 100	95	25	55	61			532.46	725
HSK T100 BH32 110	HSK-T 100	110	32	68	61			532.46	732
HSK T100 BH40 120	HSK-T 100	120	40	83	81			532.46	740
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88	532.46	750

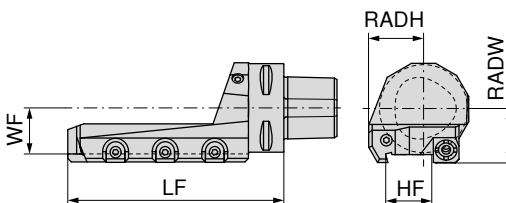
MonoClamp – PSC parting blade holder GX/LX/FX/SX with DirectCooling



84 617 ...

Adapter	LF mm	LPR mm	WF mm	HF mm	OAH mm	RADW mm	RADH mm	for parting blades	£	
PSC 40	40.5	45	37.5	26	50	42.5	30	XLCF N 26...	1,345.87	62695
PSC 50	40.5	45	37.5	26	50	42.5	30	XLCF N 26...	1,345.87	62694
PSC 63	45.5	50	40.0	32	57	45.0	35	XLCF N 32...	1,508.67	63293

MonoClamp – PSC parting blade holder GX/LX/FX/SX with DirectCooling



Diagrams show right hand versions



Left-hand



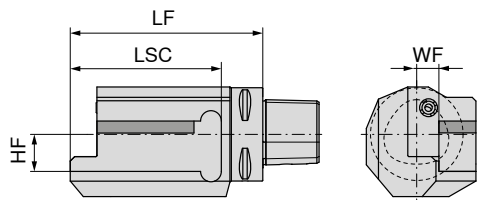
Right-hand

Adapter	LF mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades	£		£	
PSC 40	122	21	26	25.5	31	XLCF N 26...	1,345.87	32695	1,345.87	22695
PSC 50	122	26	26	30.5	31	XLCF N 26...	1,345.87	32694	1,345.87	22694
PSC 63	160	32	32	36.5	37	XLCF N 32...	1,508.67	33293	1,508.67	23293

PSC square shank holder 0° with DirectCooling

▲ Suitable for tool holders with PSC 63 – HF = 20 / 25 mm / PSC 80 – HF = 25 mm

▲ These HF values can be achieved by removing the clamping block



Diagrams show right hand versions



Left-hand

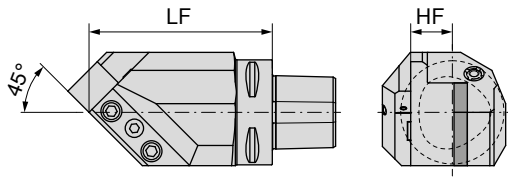


Right-hand

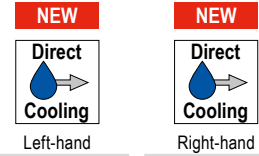
Adapter	LF mm	WF mm	LSC mm	HF mm	£		£	
PSC 63	130	15	102	20 / 25	1,010.40	32593	1,010.40	22593
PSC 80	130	20	102	25	1,127.05	32586	1,127.05	22586

PSC square shank holder 45° with DirectCooling

- ▲ Suitable for tool holders with PSC 50 – HF = 20 mm / PSC 63 – HF = 20 / 25 mm
- ▲ These HF values can be achieved by removing the clamping block



Diagrams show right hand versions

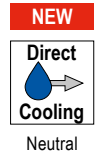
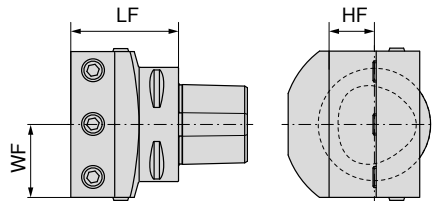


Adapter	LF mm	HF mm
PSC 50	85	20
PSC 63	110	20 / 25

NEW 84 616 ... Left-hand		NEW 84 616 ... Right-hand	
£		£	
Y8	1,061.80	Y8	1,061.80
	12094		02094
	1,340.62		1,340.62
	12593		02593

PSC square shank holder 90° with DirectCooling

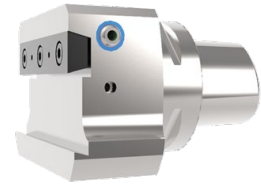
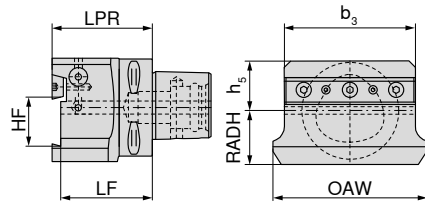
- ▲ Suitable for tool holders with PSC 40 – HF = 20 mm / PSC 63 HF = 20 / 25 mm
- ▲ These HF values can be achieved by removing the clamping block



Adapter	LF mm	WF mm	HF mm
PSC 40	55	40	20
PSC 63	71	40	20 / 25

NEW 84 616 ... Neutral	
£	
Y8	972.84
	62095
	1,010.40
	62593

Radial parting blade holder, right / left



Neutral

84 132 ...

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

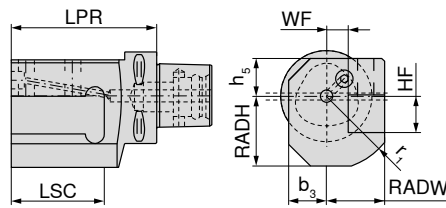
£

Y8

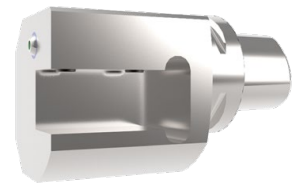
519.15 626

519.15 632

Square section adapter, single face



Illustrations show right-hand versions



Left-hand

Right-hand

84 611 ...

84 610 ...

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

£

Y8

421.44 520

421.44 525

421.44 532

486.51 620

486.51 625

486.51 632

584.25 820

584.25 825

584.25 832

£

Y8

421.44 520

421.44 525

421.44 532

486.51 620

486.51 625

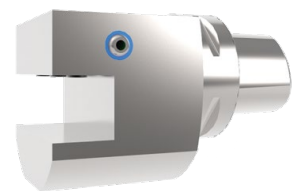
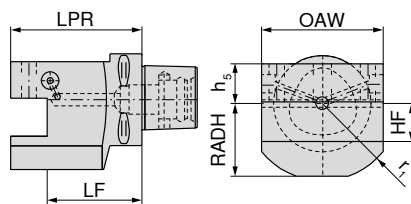
486.51 632

584.25 820

584.25 825

584.25 832

Radial square section tool holders 90°



Neutral

84 602 ...

Adapter	HF	LPR	OAW	r ₁	RADH	h ₅	LF
	mm	mm	mm	mm	mm	mm	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

421.44 520

437.76 525

470.38 532

486.51 620

519.15 625

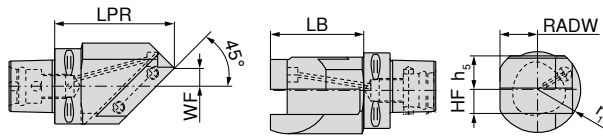
551.60 632

519.15 820

551.60 825

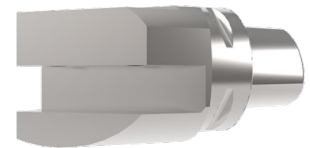
584.25 832

Square section adapter 45°



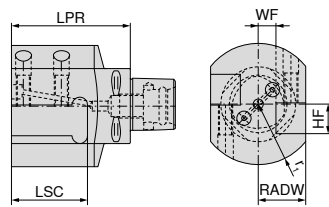
Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	h _s 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



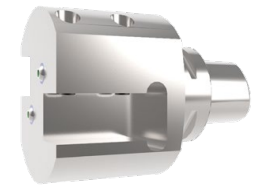
Left-hand		Right-hand	
84 605 ...		84 604 ...	
£		£	
Y8	520	Y8	520
421.44		421.44	
502.84	620	502.84	620
567.92	832	567.92	832

Square section adapter, double face



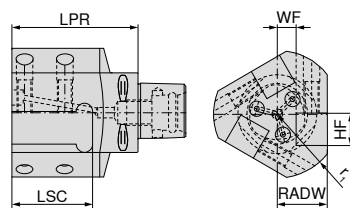
Illustrations show right-hand versions

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



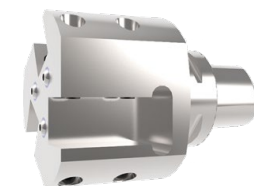
Left-hand		Right-hand	
84 613 ...		84 612 ...	
£		£	
Y8	520	Y8	520
714.42		714.42	
730.72	525	730.72	525
746.88	532	746.88	532
746.88	620	746.88	620
763.20	625	763.20	625
779.50	632	779.50	632
893.35	820	893.35	820
909.69	825	909.69	825
926.00	832	926.00	832

Square section adapter, triple face



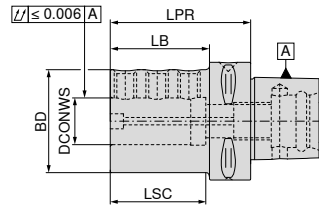
Illustrations show right-hand versions

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	520	Y8	520
958.44		958.44	
974.77	525	974.77	525
1,007.37	532	1,007.37	532
1,121.24	620	1,121.24	620
1,170.02	625	1,170.02	625
1,202.66	632	1,202.66	632
1,349.12	820	1,349.12	820
1,381.60	825	1,381.60	825
1,414.22	832	1,414.22	832

Boring bar holder



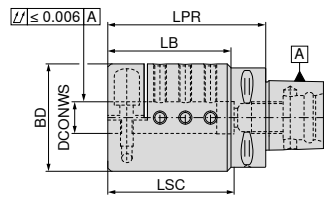
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 130 ...	
						£	
PSC 50	6	70	40	50	40	Y8	
PSC 50	8	70	44	50	40	372.67	506
PSC 50	10	70	44	50	45	372.67	508
PSC 50	12	70	44	50	45	372.67	512
PSC 50	16	75	44	55	45	372.67	516
PSC 50	20	75	50	75	51	372.67	520
PSC 50	25	80	55	50	51	372.67	525
PSC 50	32	90	63	70	60	372.67	532
PSC 63	6	75	40	53	40	372.67	606
PSC 63	8	75	44	53	40	372.67	608
PSC 63	10	75	44	53	45	372.67	610
PSC 63	12	75	44	53	45	372.67	612
PSC 63	16	75	44	53	45	372.67	616
PSC 63	20	75	50	53	51	372.67	620
PSC 63	25	75	55	53	51	372.67	625
PSC 63	32	75	72	52	60	372.67	632
PSC 63	40	105	70	82	90	372.67	640



Spare parts		84 950 ...	
DCONWS		£	
6	M6x16	Y8	8.58 153
8	M8x16	8.58	154
10	M10x16	8.58	155
12 - 40	M12x14	8.58	156

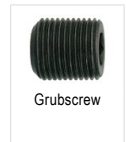
Boring bar adapter, split version

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



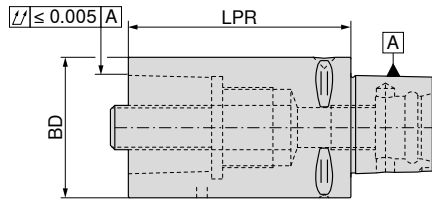
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ... £ Y8
PSC 63	6	80	40	58	60	454.06 606
PSC 63	8	85	45	63	65	454.06 608
PSC 63	10	85	50	63	65	454.06 610
PSC 63	12	100	63	78	80	454.06 612
PSC 63	16	100	63	78	80	454.06 616
PSC 63	20	100	68	78	80	454.06 620
PSC 63	25	100	68	78	80	454.06 625
PSC 63	32	100	72	78	80	454.06 632

Spare parts DCONWS		83 950 ...		84 950 ...	
		£ Y8		£ Y8	
8	M6x20	4.36	462		
10				M6x16	8.58 153
12 - 20	M8x20	4.36	468		
25	M8x25	4.36	467		
32	M10x20	4.36	471		



Extension, axial clamping

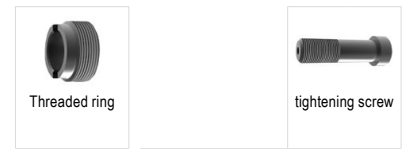
- ▲ Run-out ≤ 0.002 mm
- ▲ max. speed 8,000 rpm



Adapter	BD mm	LPR mm	84 620 ...	
			£	
			Y8	
PSC 32	32	60	307.58	301
PSC 32	32	80	307.58	302
PSC 40	40	60	323.90	401
PSC 40	40	80	323.90	402
PSC 50	50	80	340.02	501
PSC 50	50	100	340.02	502
PSC 63	63	100	356.35	601
PSC 63	63	140	356.35	602
PSC 80	80	100	372.67	801
PSC 80	80	125	372.67	802

Spare parts

Adapter	£		£	
PSC 32	52.21	127	37.89	122
PSC 40	52.21	128	42.70	123
PSC 50	52.21	129	42.70	124
PSC 63	104.24	130	47.53	126
PSC 80	104.24	130	47.53	126



84 950 ...		84 950 ...	
£		£	
Y8		Y8	

Accessories

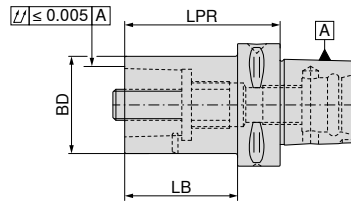


Hollow nose keys

→ 204

Cylindrical reduction

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



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

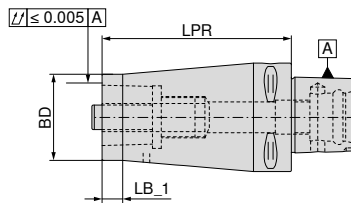
84 624 ...

£	
Y8	
291.27	403
323.90	503
323.90	504
340.02	603
340.02	604
340.02	605
356.35	803
356.35	804
356.35	805
356.35	806
470.38	816 ¹⁾
470.38	818 ¹⁾

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

Tapered reduction

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



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

84 625 ...

£	
Y8	
291.27	403
323.90	504
340.02	605
372.67	806
470.38	818 ¹⁾

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



84 950 ...

84 950 ...

Spare parts

Adapter	£		£	
PSC 40	52.21	128	42.70	123
PSC 50	52.21	129	42.70	124
PSC 63	104.24	130	47.53	126
PSC 80	104.24	130	47.53	126
PSC 80X	104.24	130	47.53	126

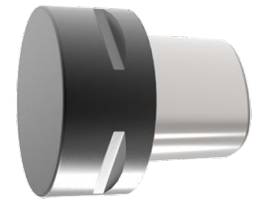
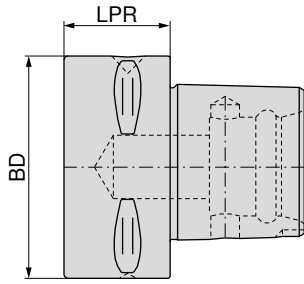
Accessories



Hollow nose keys

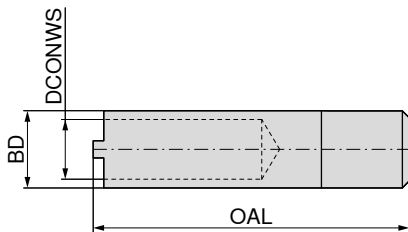
→ 204

Sealing plugs



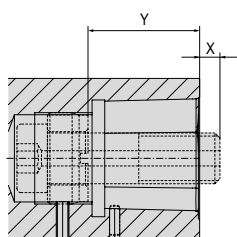
Adapter	BD mm	LPR mm	84 135 ...	
			£	
			Y8	
PSC 40	40	28	162.79	040
PSC 50	50	28	162.79	050
PSC 63	63	30	192.02	060
PSC 80	80	38	208.31	080

Hollow nose key for clamping screw for PSC extensions and reductions



Adapter	BD mm	OAL mm	DCONWS mm	84 651 ...	
				£	
				Y8	
PSC 32	16	80	12.5	84.77	032
PSC 40	20	80	15.0	89.48	040
PSC 50	22	90	17.0	89.48	050
PSC 63/80/80X	34	110	21.0	98.86	063

Installation instructions: clamping screw for PSC extensions and reductions



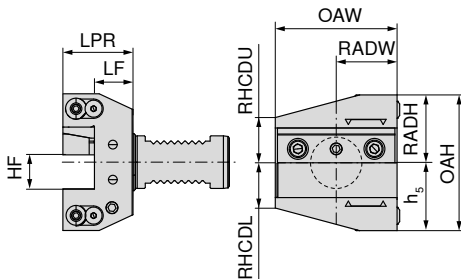
X = Screw leading edge
Y = Threaded ring insertion depth

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

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

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

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



double

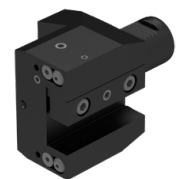
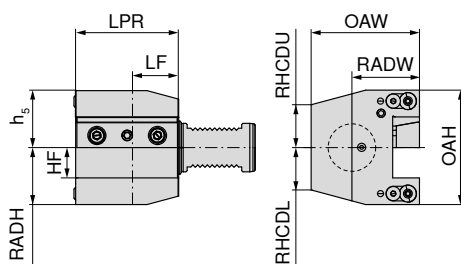
82 245 ...

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 20	16	16	30	55	30	30.0	30	60	22	22
VDI 20	16	26	40	55	30	30.0	30	60	22	22
VDI 25	16	16	30	55	30	30.0	30	60	22	22
VDI 30	20	22	40	70	39	35.0	39	78	26	26
VDI 40	25	22	44	85	47	42.5	47	94	33	33
VDI 50	25	22	44	98	55	50.0	55	110	42	42

£	
Y8	
417.90	01629
417.90	51629
417.90	01628
417.90	02027
493.00	02526
614.28	02525

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

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



double

82 246 ...

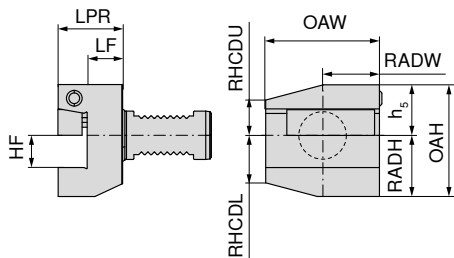
Adapter	HF _{0/-0,1} mm	LF mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	30	70	74	39	39.0	39	78	26	26
VDI 40	25	30	85	94	47	52.5	47	94	35	35
VDI 50	25	30	85	105	50	63.0	50	100	42	42

£	
Y8	
480.69	02027
572.66	02526
731.38	02525

You can find spare parts on → Page 264+265

Radial square section tool holder with DirectCooling – B1 / B4

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



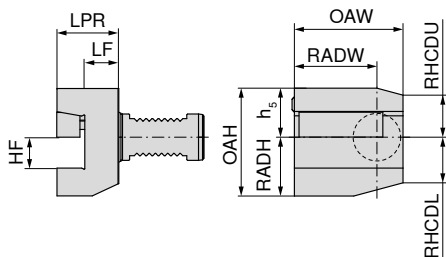
double

82 247 ...

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm	£	
VDI 30	20	22	40	70.0	38	35.0	31.5	69.5	29.5	22	321.73	02027
VDI 40	25	22	44	85.0	48	42.5	38.0	86.0	35.0	30	380.34	02526
VDI 50	25	22	44	92.5	48	50.0	43.0	91.0	43.0	30	472.20	02525

Radial square section tool holder with DirectCooling – B2 / B3

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



double

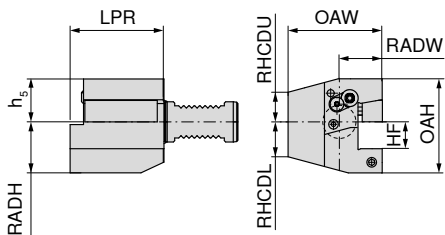
82 247 ...

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm	£	
VDI 30	20	22	40	70.0	38	35.0	31.5	69.5	29.5	27	321.73	12027
VDI 40	25	22	44	85.0	48	42.5	38.0	86.0	35.0	30	380.34	12526
VDI 50	25	22	44	92.5	48	50.0	43.0	91.0	35.0	38	472.20	12525

You can find spare parts on → **Page 264+265**

Axial square section tool holder with DirectCooling – C1 / C4

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



double

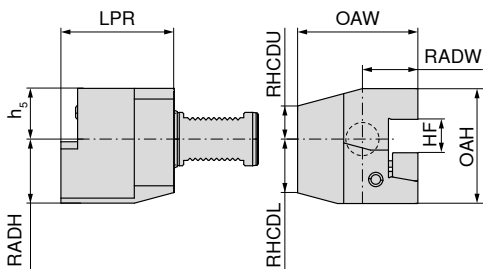
82 248 ...

Adapter	HF _{0/-0,1} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	70	70.0	38	35.0	32	70	26	22
VDI 40	25	85	85.0	48	42.5	38	86	35	30
VDI 50	25	85	90.5	48	48.0	44	92	42	35

£	
Y8	
367.79	02027
438.84	02526
559.99	02525

Axial square section tool holder with DirectCooling – C2 / C3

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



double

82 248 ...

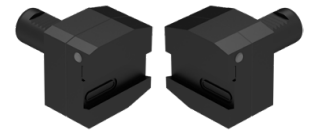
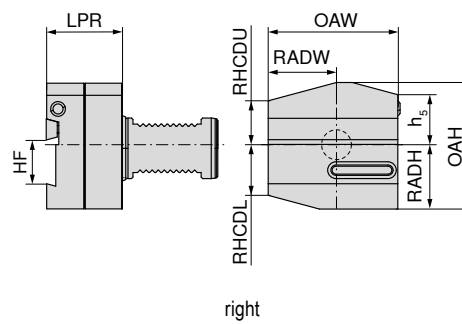
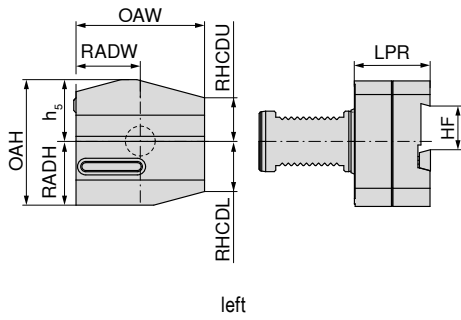
Adapter	HF _{0/-0,1} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	70	76	38	41.0	32	70	26	26
VDI 40	25	85	90	48	47.5	38	86	35	30
VDI 50	25	85	95	48	52.5	44	92	42	37

£	
Y8	
367.79	12027
438.84	12526
559.99	12525

You can find spare parts on → Page 264+265

Parting blade holder for parting blades with DirectCooling

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



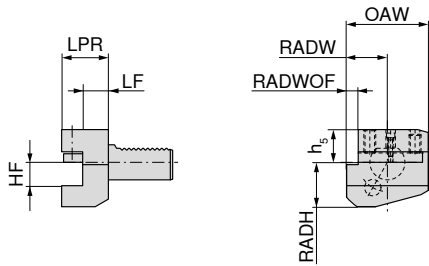
Left-hand

Right-hand

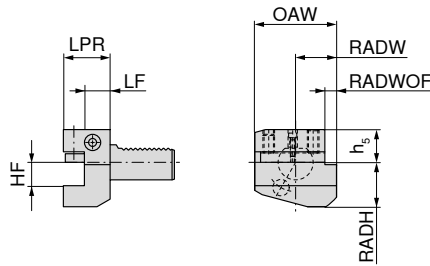
Adapter	HF mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm	82 249 ...			
										£	12627	£	02627
VDI 30	26	50	70	37	35.0	32	69	30	25	806.61	12627	806.61	02627
VDI 40	32	50	85	40	42.5	43	83	31	31	906.97	13226	906.97	03226
VDI 40	26	50	85	40	42.5	43	83	31	31	906.97	12626	906.97	02626
VDI 50	32	50	100	45	50.0	43	88	37	35	1,082.30	13225	1,082.30	03225

You can find spare parts on → Page 264+265

Radial tool holders, short



B2



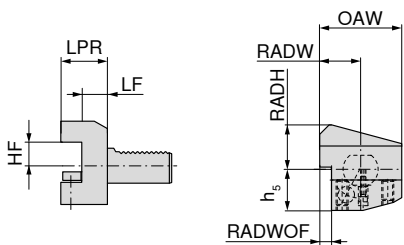
B1



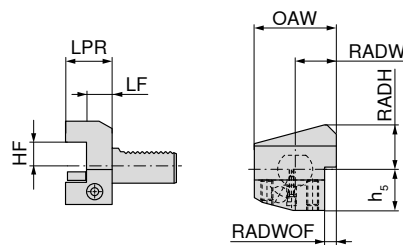
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	82 189 ...		82 185 ...	
									£		£	
									Y8		Y8	
									327.32	160	235.29	160
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	261.83	201	247.41	201
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	200.87	200	214.43	200
VDI 20	16	55	30.0	7.0	25.0	30	18.0	30	730.85	202 ¹⁾	698.55	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	25.5	40			618.20	203 ¹⁾
VDI 30	20	70	35.0	10.0	28.0	38	18.5	40	217.51	300	197.20	300
VDI 30	20	70	35.0	10.0	28.0	38	42.0	60	343.91	301	326.38	301
VDI 30	20	70	35.0	10.0	28.0	35	32.0	50			1,521.33	302 ¹⁾
VDI 40	25	85	42.5	12.5	32.5	48	18.5	44	220.41	400	201.23	400
VDI 50	32	100	50.0	16.0	35.0	60	30.0	55	341.74	500	336.13	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3

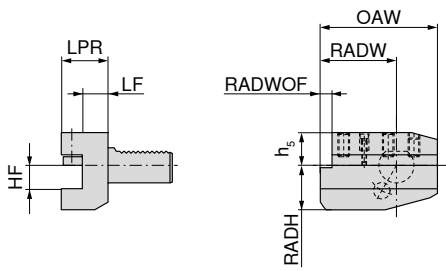


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	82 196 ...		82 193 ...	
									£		£	
									Y8		Y8	
											248.04	160
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	466.64	201	311.29	201
VDI 20	16	55	30.0	7.0	25.0	30	18.5	30	913.96	202 ¹⁾	755.74	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	1,217.63	203 ¹⁾	793.19	203 ¹⁾
VDI 30	20	70	35.0	10.0	35.0	38	18.5	40	220.41	300	203.19	300
VDI 40	25	85	42.5	12.5	42.5	48	18.5	44	226.41	400	214.88	400
VDI 50	32	100	50.0	16.0	50.0	60	30.0	55	401.59	500	341.74	500

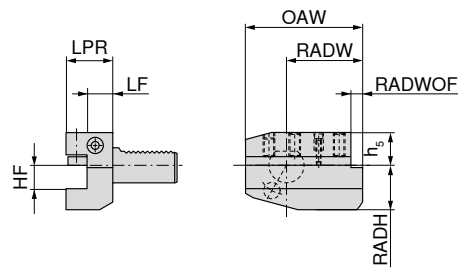
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 266

Radial tool holders, long



B6



B5

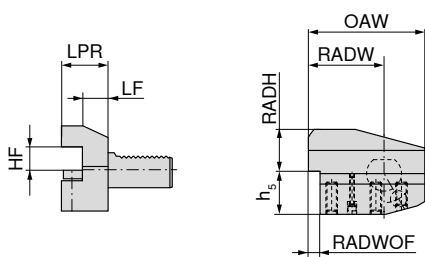


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30
VDI 30	20	100	65.0	10.0	28.0	38	18.5	40
VDI 40	25	118	75.5	12.5	32.5	48	18.5	44
VDI 50	32	130	80.0	16.0	35.0	60	30.0	55

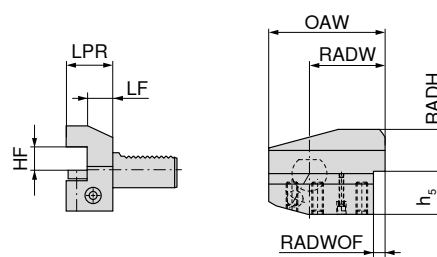
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 202 ...		82 199 ...	
£		£	
Y8		Y8	
376.96	201	345.43	201
		887.62	202 ¹⁾
254.85	300	247.71	300
252.92	400	257.97	400
478.43	500	472.71	500

Radial tool holders, overhead, long



B8



B7



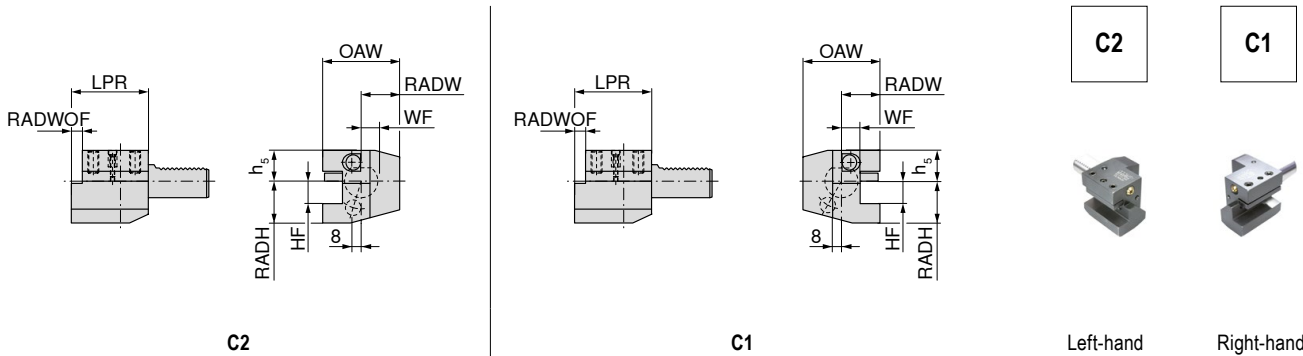
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30
VDI 30	20	100	65.0	10.0	35.0	38	42.0	60
VDI 30	20	100	65.0	10.0	35.0	38	18.5	40
VDI 40	25	118	75.5	12.5	42.5	48	18.5	44
VDI 50	32	130	80.0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

1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 208 ...		82 205 ...	
£		£	
Y8		Y8	
357.99	200	288.64	200
		873.49	202 ¹⁾
291.23	300	376.45	301
		254.85	300
282.52	400	282.52	400
459.60	500	480.78	500

You can find spare parts on → Page 266

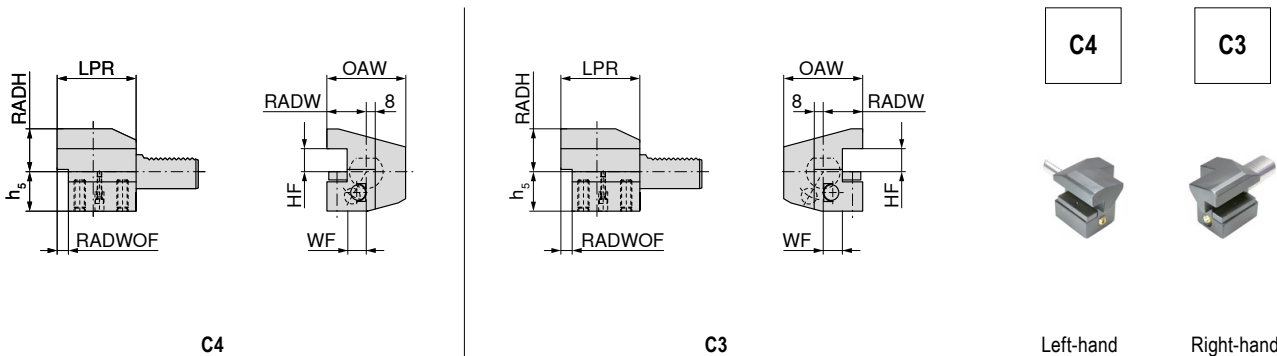
Axial tool holders



Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								£	Y8	£	Y8
VDI 16	12	43	24.0	13.0	20.0	22	44				
VDI 20	16	65	40.0	25.5	25.0	30	50			322.58	160
VDI 20	16	65	40.0	26.0	25.0	30	50	250.61	200	253.70	201
VDI 30	20	76	41.0	23.0	28.0	38	70	243.81	300		
VDI 30	20	70	35.0	17.0	28.0	38	70			228.74	300
VDI 40	25	85	42.5	20.5	32.5	48	85			266.09	400
VDI 40	25	90	47.5	25.5	32.5	48	85	269.18	400		
VDI 50	32	105	55.0	30.5	35.0	60	100	486.36	500		
VDI 50	32	100	50.0	25.5	35.0	60	100			387.97	500

1) Height adjustable +/- 1 mm

Axial tool holders, overhead

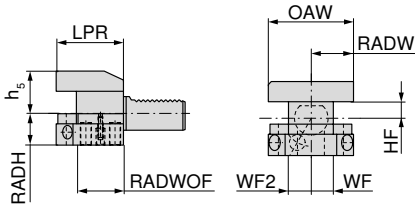


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								£	Y8	£	Y8
VDI 16	12	43	24.0	13.0	20.0	22	44			290.70	160
VDI 20	16	65	40.0	25.5	30.0	25	50			1,165.47	202 ¹⁾
VDI 20	16	65	40.0	26.0	25.0	30	50	268.22	200	306.52	201
VDI 20	16	65	40.0	25.5	25.0	30	50	941.22	201 ¹⁾		
VDI 30	20	70	35.0	17.0	35.0	38	70			233.60	300
VDI 30	20	76	41.0	23.0	35.0	38	70	245.76	300		
VDI 40	25	85	42.5	20.5	42.5	48	85			269.18	400
VDI 40	25	90	47.5	25.5	42.5	48	85	269.18	400		
VDI 50	32	100	50.0	25.5	50.0	60	100			394.76	500
VDI 50	32	105	55.0	30.5	50.0	60	100	336.13	500		

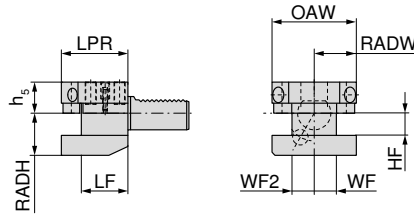
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 266

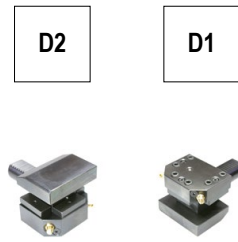
Multiple tool holders



D2



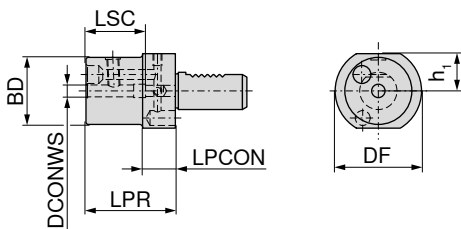
D1



Adapter	HF _{0/-0,1} mm	RADW mm	WF _{0/+0,3} mm	WF2 _{0/+0,3} mm	OAW mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	82 224 ...		82 222 ...	
										£	Y8	£	Y8
VDI 30	20	35.0	17.0	23.0	76	28.0	38	42	60	537.77	300	537.77	300
VDI 30	20	35.0	17.0	23.0	76	35.0	38	42	60	537.77	300		
VDI 40	25	42.5	20.5	25.5	90	32.5	48	50	72			563.11	400
VDI 40	25	42.5	20.5	25.5	90	42.5	48	50	72	563.11	400		

Cylindrical tool holders

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



E



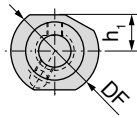
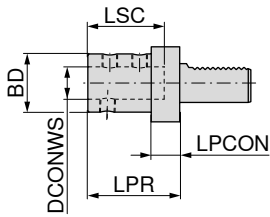
Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	83 269 ...	
								£	Y8
VDI 20	6	50	45	23.0	60	22	40	361.28	206
VDI 20	8	50	45	23.0	60	22	40	345.20	208
VDI 20	10	50	45	23.0	60	22	44	345.20	210
VDI 20	12	50	45	23.0	60	22	49	345.20	212
VDI 20	14	50	45	23.0	62	22	49	345.20	214
VDI 20	16	50	45	23.0	67	22	52	333.60	216
VDI 20	18	50	45	23.0	67	22	52	333.60	218
VDI 20	20	50	45	23.0	67	22	52	333.60	220
VDI 30	6	68	52	28.0	67	22	35	373.08	306
VDI 30	8	68	52	28.0	67	22	35	357.22	308
VDI 30	10	68	52	28.0	67	22	39	357.22	310
VDI 30	12	68	52	28.0	67	22	44	357.22	312
VDI 30	14	68	52	28.0	67	22	44	344.85	314
VDI 30	16	68	52	28.0	67	22	47	343.29	316
VDI 30	18	68	52	28.0	67	22	47	357.22	318
VDI 30	20	68	52	28.0	67	22	52	343.29	320
VDI 40	6	83	52	32.5	67	22	35	416.62	406
VDI 40	8	83	52	32.5	67	22	35	400.77	408
VDI 40	10	83	52	32.5	67	22	39	400.77	410
VDI 40	12	83	52	32.5	67	22	44	400.77	412
VDI 40	14	83	52	32.5	67	22	44	400.77	414
VDI 40	16	83	52	32.5	67	22	47	387.03	416
VDI 40	18	83	52	32.5	67	22	47	387.03	418
VDI 40	20	83	52	32.5	67	22	52	387.03	420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply

E1



AD

82 274 ...

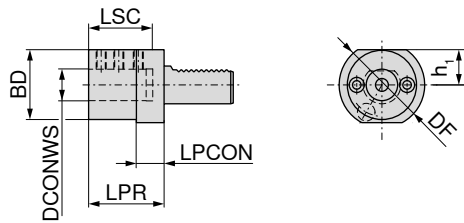
Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£	
VDI 20	16	50	36	23.0	67	18	54	191.98	200
VDI 20	20	50	40	23.0	67	18	54	191.98	201
VDI 20	25	50	45	23.0	71	18	59	191.98	202
VDI 30	16	68	36	28.0	67	22	54	177.85	300
VDI 30	20	68	40	28.0	67	22	54	177.85	301
VDI 30	25	68	45	28.0	71	22	59	177.85	302
VDI 30	32	68	52	28.0	75	22	63	177.85	303
VDI 30	40	68	60	28.0	87	22	73	258.21	304
VDI 40	16	83	36	32.5	67	22	54	201.23	400
VDI 40	20	83	40	32.5	67	22	54	201.23	401
VDI 40	25	83	45	32.5	75	22	59	201.23	402
VDI 40	32	83	52	32.5	75	22	63	201.23	403
VDI 40	40	83	60	32.5	90	22	73	201.23	404
VDI 50	20	98	40	35.0	80	30	54	284.26	500
VDI 50	25	98	45	35.0	80	30	59	284.26	501
VDI 50	32	98	52	35.0	80	30	63	284.26	502
VDI 50	40	98	60	35.0	90	30	73	284.26	503
VDI 50	50	98	70	35.0	100	30	83	257.29	504



You can find spare parts on → Page 266

Boring bar holder

- ▲ for turning tools with cylindrical shank
- ▲ Coolant supply either through the tool or via the ball-shaped spray nozzle



E2



Cooling through nozzle

82 268 ...

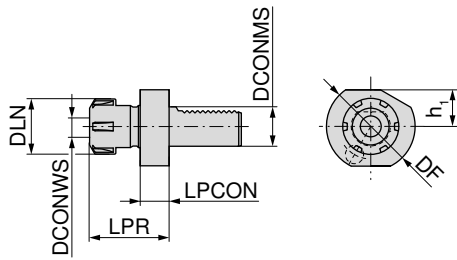
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£	
VDI 16	6	40	32	18.0	44	13	34	291.00	160 ¹⁾
VDI 16	8	40	32	18.0	44	13	34	222.08	161 ¹⁾
VDI 16	10	40	32	18.0	44	13	34	222.08	162 ¹⁾
VDI 16	12	40	40	18.0	44	13	34	222.08	163 ¹⁾
VDI 16	16	40	40	18.0	44	13	34	222.08	164 ¹⁾
VDI 20	8	50	40	23.0	50	18	41	206.47	200
VDI 20	10	50	40	23.0	50	18	41	206.47	201
VDI 20	12	50	40	23.0	50	18	41	206.47	202
VDI 20	16	50	40	23.0	50	18	41	206.47	203
VDI 20	20	50	50	23.0	50	18	41	206.47	204
VDI 20	25	50	50	23.0	60	18	51	206.47	205
VDI 30	8	68	55	28.0	60	22	51	201.23	300
VDI 30	10	68	55	28.0	60	22	51	201.23	301
VDI 30	12	68	55	28.0	60	22	51	201.23	302
VDI 30	16	68	55	28.0	60	22	51	201.23	303
VDI 30	20	68	55	28.0	60	22	51	201.23	304
VDI 30	25	68	55	28.0	60	22	51	201.23	305
VDI 30	32	68	68	28.0	75	22	61	201.23	306
VDI 40	8	83	55	32.5	75	22	61	205.14	400
VDI 40	10	83	55	32.5	75	22	61	205.14	401
VDI 40	12	83	55	32.5	75	22	61	205.14	402
VDI 40	16	83	55	32.5	75	22	61	205.14	403
VDI 40	20	83	55	32.5	75	22	61	205.14	404
VDI 40	25	83	55	32.5	75	22	61	205.14	405
VDI 40	32	83	83	32.5	75	22	61	205.14	406
VDI 40	40	83	83	32.5	90	22	76	205.14	407
VDI 50	12	98	68	35.0	90	30	76	295.49	500
VDI 50	16	98	68	35.0	90	30	76	295.49	501
VDI 50	20	98	68	35.0	90	30	76	295.49	502
VDI 50	25	98	68	35.0	90	30	76	283.31	503
VDI 50	32	98	68	35.0	90	30	76	283.31	504
VDI 50	40	98	98	35.0	90	30	76	283.31	505
VDI 50	50	98	98	35.0	100	30	86	283.31	506

1) Coolant supply through pipe joint

You can find spare parts on → Page 266

ER Collet chucks

E4



82 286 ...

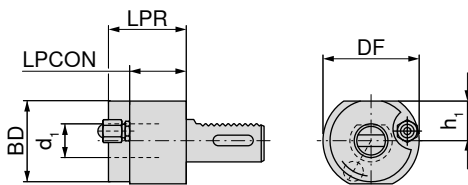
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	£	
VDI 16	1 - 10	40	28	18.0	43.5	14	426E (ER16)	339.24	160
VDI 16	1 - 13	40	34	18.0	44.0	14	428E (ER20)	335.69	161
VDI 20	1 - 16	50	42	23.0	57.0	18	430E (ER25)	276.34	202
VDI 20	2 - 20	50	50	23.0	62.0	18	470E (ER32)	288.92	203
VDI 30	1 - 16	68	42	28.0	57.0	22	430E (ER25)	272.77	300
VDI 30	2 - 20	68	50	28.0	75.0	22	470E (ER32)	273.02	301
VDI 40	1 - 16	83	42	32.5	75.0	22	430E (ER25)	295.76	400
VDI 40	2 - 20	83	50	32.5	75.0	22	470E (ER32)	295.76	401
VDI 40	3 - 26	83	63	32.5	75.0	22	472E (ER40)	290.46	402
VDI 50	2 - 20	94	50	35.0	75.0	30	470E (ER32)	430.76	500
VDI 50	3 - 26	94	63	35.0	63.0	30	472E (ER40)	430.76	501

ER collets can be found on → Pages 268–279.

Morse taper adapters

▲ For taper shanks with ejector tang

F1

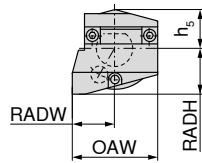
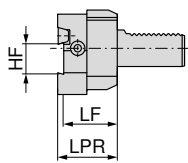


82 277 ...

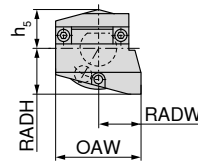
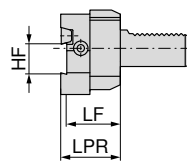
Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	£	
VDI 20	MK1		50	23.0	23		204.79	200
VDI 20	MK2		50	23.0	87		204.79	201
VDI 30	MK1		68	28.0	27		201.03	300
VDI 30	MK2		68	28.0	27		202.43	301
VDI 30	MK3	58	68	28.0	55	40	202.43	302
VDI 40	MK2	55	83	32.5	36	22	206.10	401
VDI 40	MK3	58	83	32.5	36	22	206.10	402
VDI 40	MK4	68	83	32.5	80	22	206.10	403
VDI 50	MK2	55	98	35.0	36	30	312.53	500
VDI 50	MK3	58	98	35.0	36	30	312.53	501
VDI 50	MK4	68	98	35.0	50	30	312.53	502

Parting blade holders, height adjustable

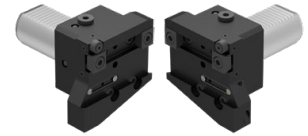
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



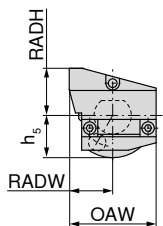
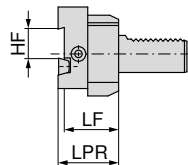
right



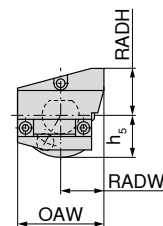
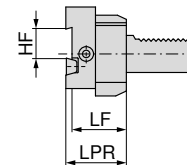
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 237 ...	82 236 ...		
VDI 30	70	35.0	26	28.0	38	44	49	£ Y8		£ Y8	
VDI 30	70	35.0	32	30.5	38	44	49	722.93	300	722.93	300
								916.67	302	916.67	302
VDI 40	73	42.5	26	32.0	48	44	49	949.67	040	949.67	040
VDI 40	85	42.5	32	32.0	48	44	49	854.33	400	744.91	400

Parting blade holders, height adjustable, overhead

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



left



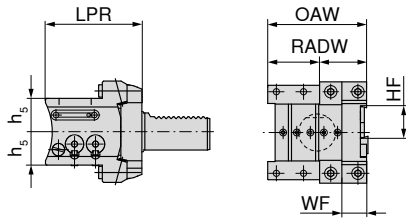
right



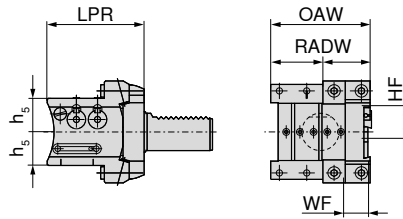
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 243 ...	82 242 ...		
VDI 30	70	35.0	26	34.0	38	44	49	£ Y8		£ Y8	
VDI 30	70	35.0	32	30.5	38	44	49	1,086.70	300	1,086.70	300
								916.67	302	1,027.83	302
VDI 40	73	42.5	26	32.0	48	44	49	949.67	040	949.67	040
VDI 40	85	42.5	32	32.0	48	44	49	743.86	400	743.86	400

Parting blade holders, height adjustable

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



Universal-overhead



Universal



Universal-overhead

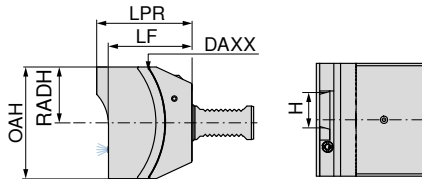
Universal

Adapter	OAW mm	RADW mm	HF mm	h _s 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

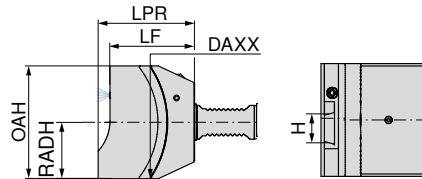
82 244 ...		82 238 ...	
£		£	
Y8		Y8	
1,460.06	300	1,460.06	300
1,620.04	400	1,620.04	400
1,620.04	402	1,620.04	402

Parting blade holder

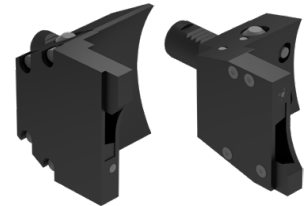
- ▲ doubles = reciprocally interlocked VDI shank



double – overhead



double




double – overhead

double

Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm
VDI 20	85.5	75	94	47	85	60	15.5	176	26
VDI 30	85.5	75	100	50	95	60	15.5	176	32
VDI 30	85.5	75	100	50	95	60	15.5	176	26
VDI 40	88.5	78	100	50	95	60	15.5	176	32
VDI 40	88.5	78	100	50	95	60	15.5	176	26

83 227 ...		83 226 ...	
£		£	
Y7		Y7	
1,573.90	02629 ¹⁾	1,573.90	02629 ¹⁾
1,573.90	03227 ¹⁾	1,573.90	03227 ¹⁾
1,573.90	02627 ¹⁾	1,573.90	02627 ¹⁾
1,697.23	03226 ¹⁾	1,697.23	03226 ¹⁾
1,697.23	02626 ¹⁾	1,697.23	02626 ¹⁾

1) Not ex-stock

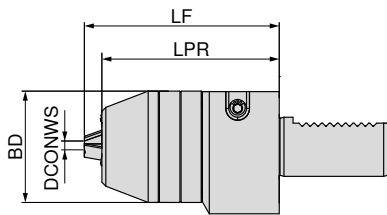
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Short drill chuck – NC 2010

- ▲ Coolant supply via 3 adjustable ball-shaped spray nozzles in the housing
- ▲ Independent of direction of rotation

Scope of supply:

Basic body including chuck key SW 4

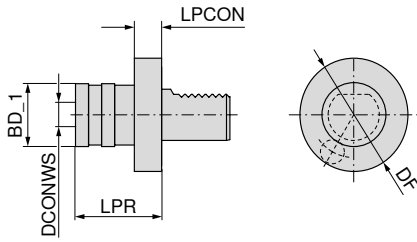


Adapter	DCONWS mm	BD mm	LPR mm	LF mm	84 297 ...
VDI 20	0,5 - 10	48.5	40	50	£ Y8 712.86 210 ¹⁾
VDI 30	0,5 - 13	56.5	90	99	718.30 313
VDI 30	2,5 - 16	56.5	90	99	762.22 316
VDI 40	0,5 - 13	56.5	90	99	718.30 413
VDI 40	2,5 - 16	56.5	90	99	762.22 416

1) Without Through Coolant

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	83 307 ...	
							£	
							Y8	
VDI 20	M3 - M12	01	19	38	55	9	792.04	112
VDI 30	M3 - M12	01	19	38	55	9	607.21	312
VDI 40	M3 - M12	01	19	38	55	9	680.38	412
VDI 20	M6 - M20	02	31	55	77	15	865.16	120
VDI 30	M6 - M20	02	31	55	77	15	802.47	320
VDI 40	M6 - M20	02	31	55	77	15	837.46	420

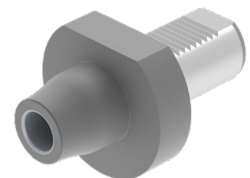
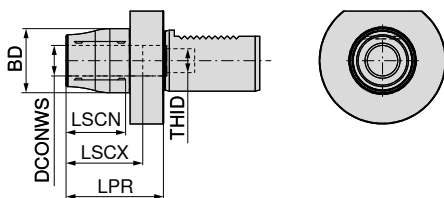
Quick change adapters can be found on → Page 288–292.

HyTens – Turn

- ▲ Hydraulic chuck
- ▲ For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- ▲ One screw for locking the boring bar
- ▲ High-precision clamping with a repeatability of 3 µm

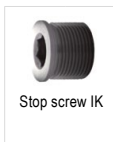
Scope of supply:

Base body with backstop screw and pressure screw



AD

Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID	83 402 ...	
							£	
							Y8	
VDI 30	20	42	64	51	41	M16x1	992.43	02027
VDI 40	20	42	64	51	41	M16x1	1,036.55	02026



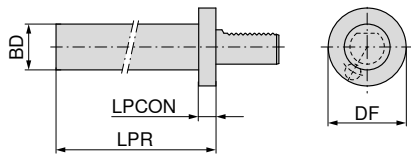
Spare parts
DCONWS

20

83 950 ...	
£	
Y7	
M16x1x31 - SW5	32.78 48700

Test arbors

▲ Radial run-out ≤ 0.02 mm



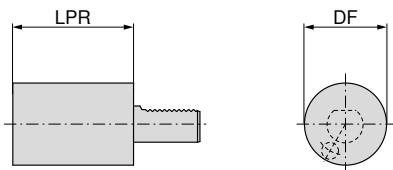
Adapter	BD _{H5} mm	DF mm	LPR mm	LPCON mm
VDI 16	30	40	120	15
VDI 20	40	50	150	15
VDI 30	40	68	200	15
VDI 40	40	83	200	15
VDI 50	40	98	200	15

83 324 ...

£	
Y8	
454.61	016
494.47	020
534.07	030
563.56	040
615.66	050

Tool holders, rough machined, round

▲ Manufactured from C45



A2



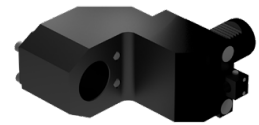
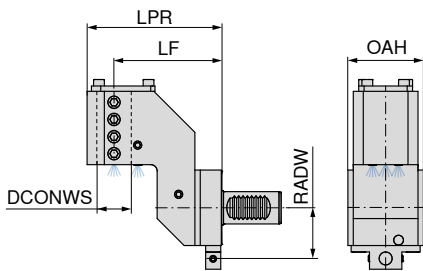
Adapter	LPR mm	DF mm
VDI 16	60	40
VDI 20	70	50
VDI 30	100	68
VDI 30	240	68
VDI 40	120	83
VDI 40	320	83
VDI 50	135	98
VDI 50	400	98

82 330 ...

£	
Y8	
154.22	160
134.54	200
157.63	300
191.44	303
184.73	400
278.91	403
259.39	500
418.76	502

Boring bar holder, with offset, with through coolant

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



IC

double

83 229 ...

£

Y7

1,411.91 02528¹⁾

1,650.98 03227¹⁾

1,936.24 04026¹⁾

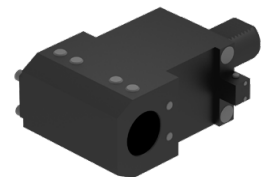
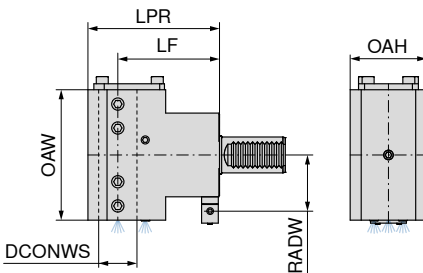
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	99.5	75	30	40
VDI 30	32	125.0	100	70	47
VDI 40	40	133.0	100	85	56

1) Not ex-stock

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

Double boring bar holder with through coolant

- ▲ for use of two boring bars for main and sub-spindle machining
- ▲ external coolant supply available



IC

83 230 ...

£

Y7

1,589.62 02528¹⁾

1,689.53 03227¹⁾

1,689.53 13227¹⁾

1,832.15 04026¹⁾

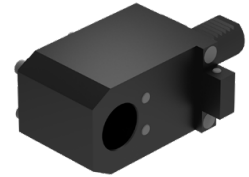
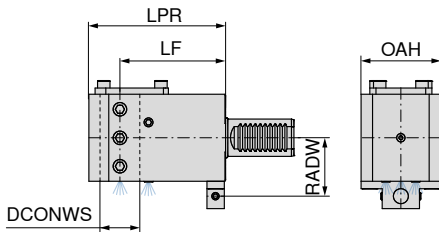
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	OAW mm
VDI 25	25	99.5	75	54	40	104
VDI 30	32	110.0	85	62	47	109
VDI 30	32	125.0	100	62	47	118
VDI 40	40	152.0	120	76	56	116

1) Not ex-stock

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

Boring bar holder with through coolant

▲ external coolant supply available




IC

83 228 ...

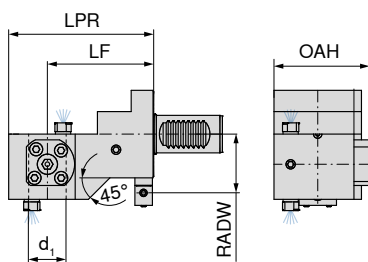
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	£	
VDI 25	25	100	75	60	40	938.17	02528 ¹⁾
VDI 30	32	110	85	64	47	1,099.34	03227 ¹⁾
VDI 30	32	125	100	64	47	1,141.83	13227 ¹⁾
VDI 40	40	130	100	76	56	1,380.89	04026 ¹⁾
VDI 40	40	152	120	76	56	1,427.30	14026 ¹⁾
VDI 50	50	155	120	98	64	1,647.00	05025 ¹⁾

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



IC

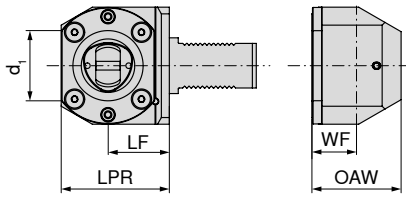
83 225 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	£	
VDI 25	25	104	75	38.0	40	1,184.29	02528 ¹⁾
VDI 25	20	104	75	67.5	40	1,184.29	02028 ¹⁾
VDI 30	30	116	85	76.5	47	1,361.73	03027 ¹⁾
VDI 30	30	131	100	76.5	47	1,404.00	13027 ¹⁾
VDI 40	40	133	100	89.0	56	1,647.00	04026 ¹⁾
VDI 40	40	153	120	89.0	56	1,647.00	14026 ¹⁾

1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:
including pull stud

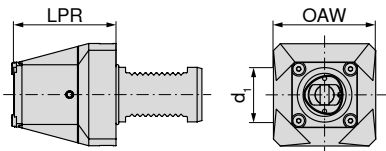


						90°
						83 231 ...
						£
						Y7
VDI 30	PSC 40	41	65	21	56	1,717.92 04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	1,795.00 04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	1,795.00 05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	1,891.70 06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	1,795.00 05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	1,891.70 06325 ¹⁾

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud



				83 232 ...
				£
				Y7
VDI 30	PSC 40	70	60	1,717.92 04027 ¹⁾
VDI 40	PSC 40	75	75	1,717.92 04026 ¹⁾
VDI 40	PSC 50	85	82	1,795.00 05026 ¹⁾
VDI 40	PSC 63	90	105	1,891.70 06326 ¹⁾
VDI 50	PSC 50	85	91	1,795.00 05025 ¹⁾
VDI 50	PSC 63	100	105	1,891.70 06325 ¹⁾

1) Not ex-stock

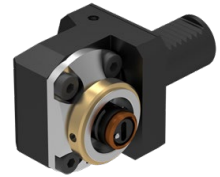
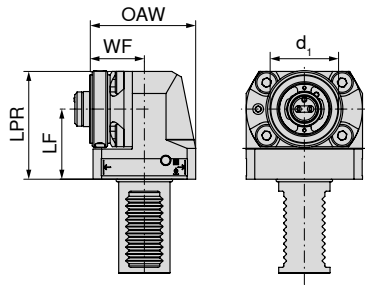
Accessories



Pull stud PSC

→ 176

90° VDI to HSK-T adapter



90°

83 233 ...

£

Y7

1,717.92 04027¹⁾

1,717.92 04026¹⁾

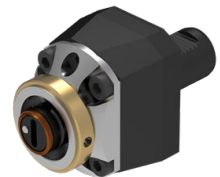
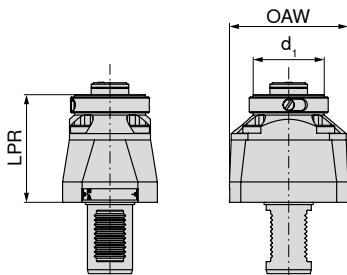
1,891.70 06326¹⁾

1,891.70 06325¹⁾

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

1) Not ex-stock

VDI to HSK-T adapter



83 234 ...

£

Y7

1,861.21 04027¹⁾

1,861.21 04026¹⁾

2,049.36 06326¹⁾

2,049.36 06325¹⁾

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

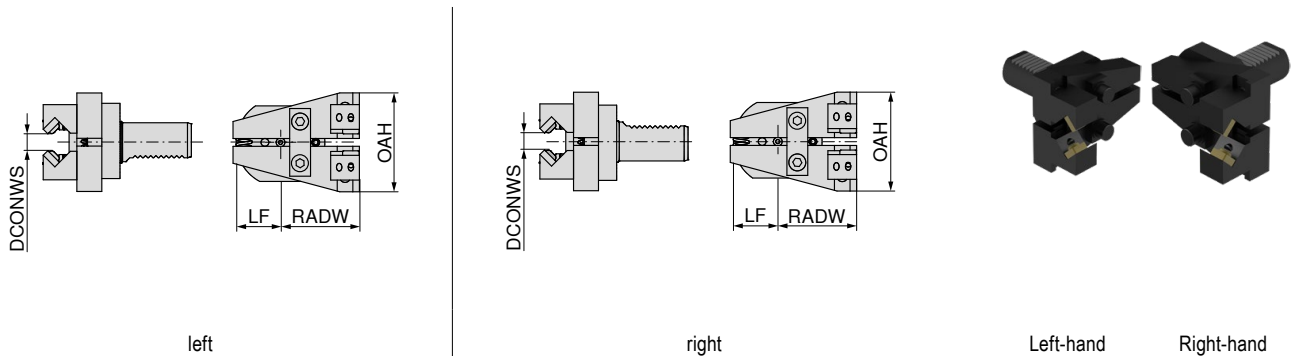
1) Not ex-stock

Bar pullers for disc turrets, radial

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

Scope of supply:

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



Adapter	DCONWS mm	LF mm	OAH mm	RADW mm	GA	Left-hand		Right-hand	
						80 309 ...	80 306 ...	£	£
VDI 16	2 - 22	28	74	35	1	£ Y7		£ Y7	
VDI 20	2 - 42	34	85	61	3			2,203.42	01600
VDI 30	2 - 42	34	105	61	3 - 4	2,604.17	03000	2,604.17	02000
VDI 40	2 - 65	34	125	61	3 - 4	3,644.06	04000	3,644.06	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:

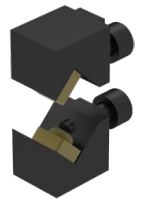
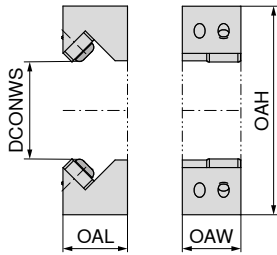
Bar puller with GA 3



Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA	Left-hand	
						80 310 ...	£
VDI 30	2 - 42	122.5	129	37.0	3 - 4	£ Y7	
VDI 40	2 - 65	142.5	149	41.5	3 - 4	2,860.77	03000
						3,738.87	04000

Gripper accessories

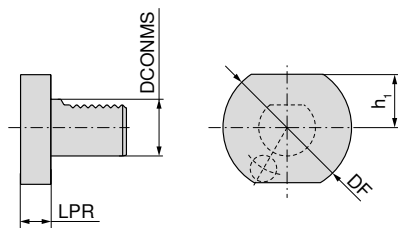
▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
▲ Price per pair



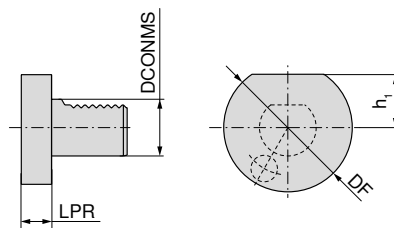
80 312 ...

GA	DCONWS mm	OAL mm	OAW mm	OAH mm	£	
1	2 - 22	24.5	13	58	Y7	12200
3	2 - 42	26.0	22	86	476.63	14200
4	42 - 65	29.5	22	102	637.76	16500

Protection plugs



Steel



Plastic



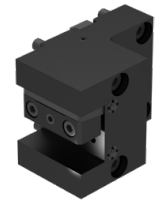
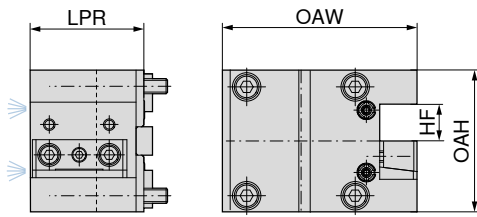
Steel

Plastic

DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm	82 317 ... £	83 318 ... £
16	40	18.0	16	Y8	Y8
20	50	23.0	16	46.69	39.03
30	68	28.0	16	92.72	15.82
40	83	32.5	20	49.53	15.78
50	98	35.0	20	58.26	18.19
				114.10	25.86

Doosan/Spinner – BMT 45 – Axial square section tool holder

▲ directly screwed version

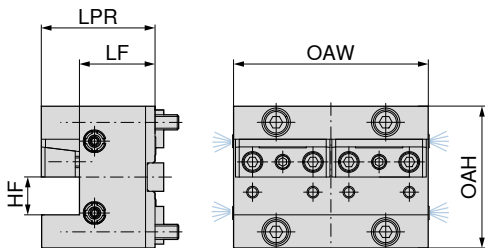


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	99.5

Left-hand		Left-hand	
82 480 ...	82 480 ...	82 480 ...	82 480 ...
£	£	£	£
Y7	Y7	Y7	Y7
1,067.34	00001	923.84	00006

Doosan/Spinner – BMT 45 – Radial square section tool holder

▲ directly screwed version

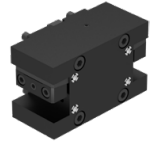
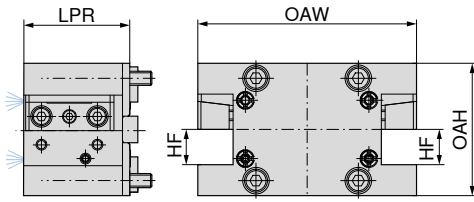


Adapter	Hole pattern	HF mm	LF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	40	60	75	103
BMT 45	58 x 58	20	40	60	75	80

Left-hand		Left-hand	
82 480 ...	82 480 ...	82 480 ...	82 480 ...
£	£	£	£
Y7	Y7	Y7	Y7
1,121.62	01002	972.00	01007

Doosan/Spinner – BMT 45 – Multi square section tool holder

▲ directly screwed version

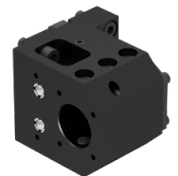
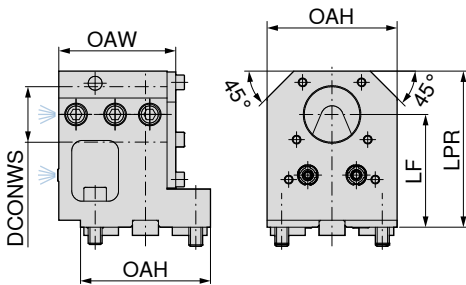


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	124

82 480 ...	82 480 ...
£ Y7 1,483.61 02003	£ Y7 1,291.40 02008

Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version



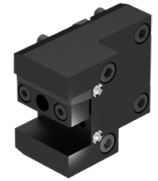
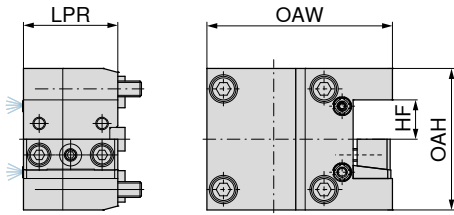
IC

Adapter	Hole pattern	DCONWS mm	LF mm	OAW mm	OAH mm	LPR mm
BMT 45	58 x 58	32	65	67.5	75	90
BMT 45	58 x 58	32	85	67.5	75	110

82 480 ...
£ Y7 1,140.26 03004
£ Y7 1,929.87 03005

Doosan – BMT 55 – Axial square section tool holder

▲ directly screwed version

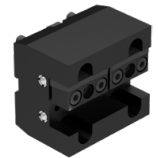
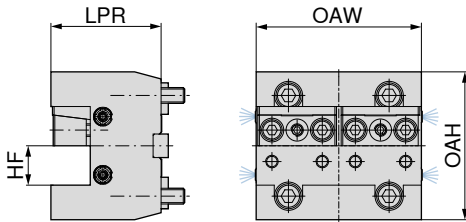


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	60	90	118

Left-hand		Left-hand	
82 481 ...		82 481 ...	
£		£	
Y7	1,157.92 00001	Y7	1,159.21 00005

Doosan – BMT 55 – Radial square section tool holder

▲ directly screwed version

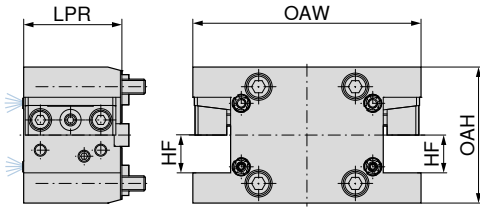


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105
BMT 55	64 x 64	25	95	94	105

Left-hand		Left-hand	
82 481 ...		82 481 ...	
£		£	
Y7	1,157.92 01002	Y7	1,656.43 01006

Doosan – BMT 55 – Multi square section tool holder

▲ directly screwed version

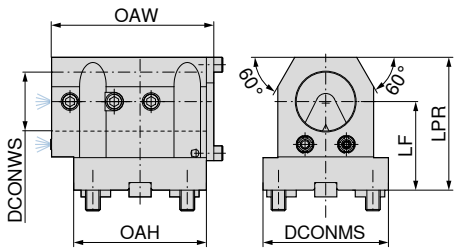


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	65	90	151
BMT 55	64 x 64	25	60	90	151

82 481 ...	82 481 ...
£ Y7	£ Y7
1,689.08 02003	1,629.81 02007

Doosan – BMT 55 – Boring bar holder

▲ directly screwed version



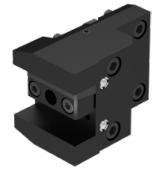
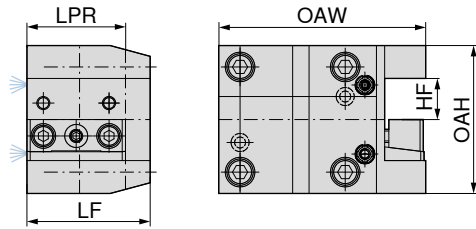
IC

Adapter	Hole pattern	DCONWS mm	LF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT55	64 x 64	40	60	85	90	90	110

82 481 ...
£ Y7
1,140.26 04004

EMAG – BMT 55 – Axial square section tool holder

▲ directly screwed version

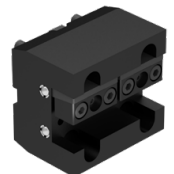
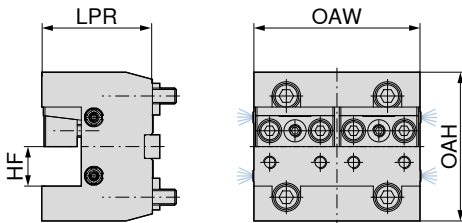


Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm
BMT 55	64 X 64	25	60	75	90	126

Left-hand	Left-hand
82 482 ...	82 482 ...
£ Y7	£ Y7
1,130.29 00001	1,134.86 00004

EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



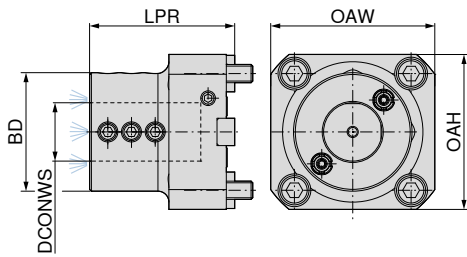
IC

Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105

Left-hand
82 482 ...
£ Y7
1,157.92 01002

EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

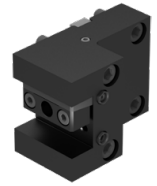
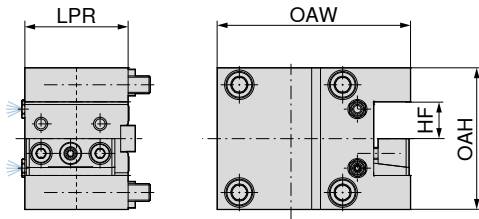
82 482 ...

£
Y7
1,381.70 04003

Adapter	Hole pattern	DCONWS mm	BD mm	LPR mm	OAW mm	OAH mm
BMT55	64 x 64	32	65	75	85	90

HAAS/Doosan – BMT 65 – Axial square section tool holder

▲ directly screwed version

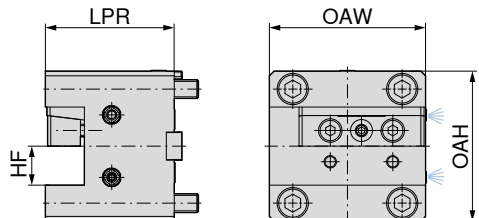


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	70	96	131
BMT 65	70 x 73	25	75	97	131

Left-hand	Left-hand
82 483 ...	82 483 ...
£ Y7	£ Y7
1,821.97 00001	1,384.68 00005

HAAS/Doosan – BMT 65 – Radial square section tool holder

▲ directly screwed version

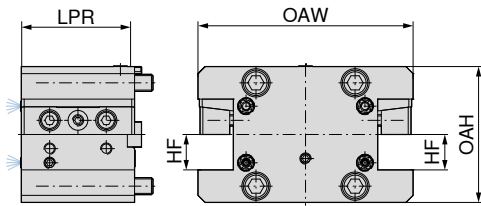


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	82.5	96	100

Right-hand	Right-hand
82 483 ...	82 483 ...
£ Y7	£ Y7
1,375.39 05002	1,351.85 05006

HAAS/Doosan – BMT 65 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



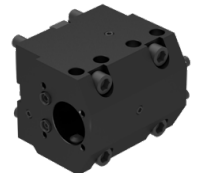
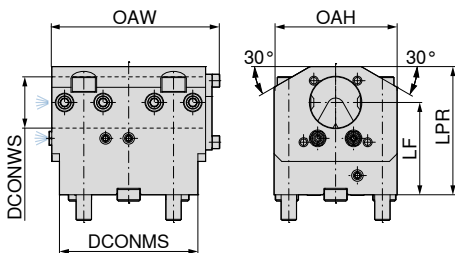
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	80	96	152

82 483 ...
£
Y7
1,773.33 02003

82 483 ...
£
Y7
1,704.71 02007

HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



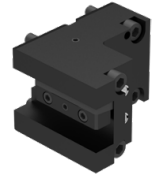
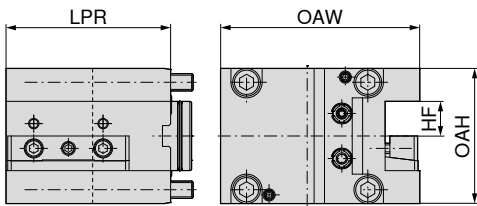
IC

Adapter	Hole pattern	DCONWS mm	LF mm	OAH mm	LPR mm	DCONMS mm	OAW mm
BMT 65	70 x 73	40	78	96	100	108	125

82 483 ...
£
Y7
2,416.41 03004

Mori/Seiki – BMT 40 – Axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

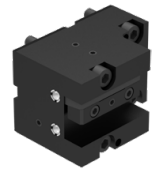
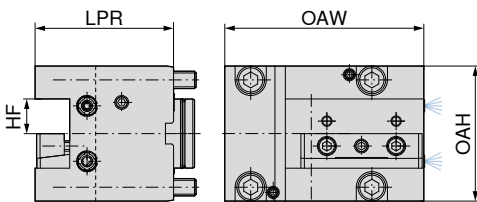


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	115

Left-hand	Left-hand
82 484 ...	82 484 ...
£ Y7	£ Y7
1,067.34 00001	1,078.97 00005

Mori/Seiki – BMT 40 – Radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

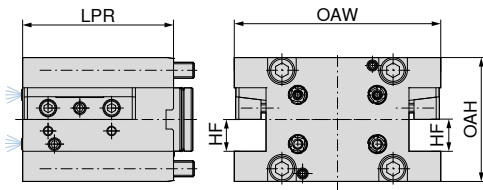


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	80	78	115

Left-hand	Left-hand
82 484 ...	82 484 ...
£ Y7	£ Y7
1,121.62 01002	1,127.14 01006

Mori/Seiki – BMT 40 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



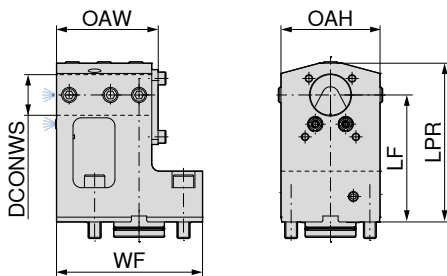
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	130

82 484 ...
£
Y7
1,176.23 02003

82 484 ...
£
Y7
1,175.43 02007

Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version



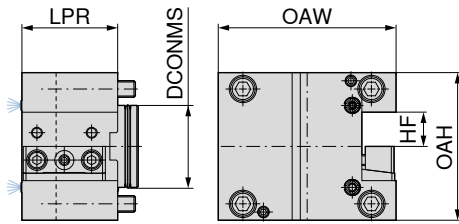
IC

Adapter	Hole pattern	DCONWS mm	OAH mm	OAW mm	LF mm	WF mm	LPR mm
BMT 40	70 x 62	32	78	80	100	115	125

82 484 ...
£
Y7
1,067.34 03004

Mori/Seiki – BMT 60 – Axial square section tool holder

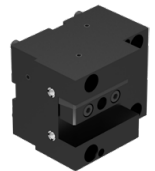
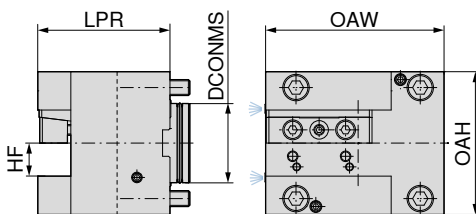
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	70	108	130	£ Y7 1,067.34 00001	£ Y7 1,078.97 00005

Mori/Seiki – BMT 60 – Radial square section tool holder

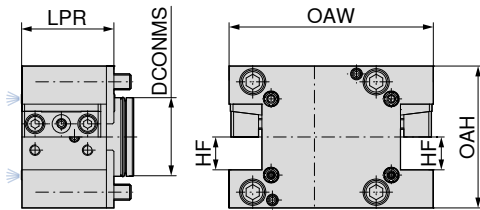
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	100	108	135	£ Y7 1,121.62 01002	£ Y7 1,127.14 01006

Mori/Seiki – BMT 60 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation

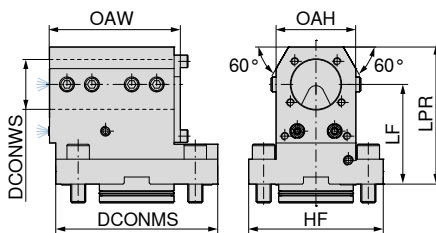


Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155.5

82 485 ...	82 485 ...
£ Y7	£ Y7
1,284.82 02003	1,271.88 02007

Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



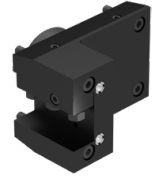
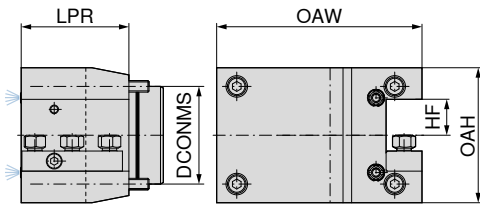
IC

Adapter	Hole pattern	DCONWS mm	OAH mm	LF mm	OAW mm	HF mm	LPR mm	DCONMS mm
BMT 60	94 x 84	40	64	80	105	108	110	130

82 485 ...
£ Y7
1,067.34 03004

Mazak – BMT 68 – Axial square section tool holder

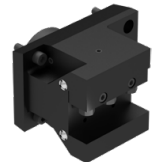
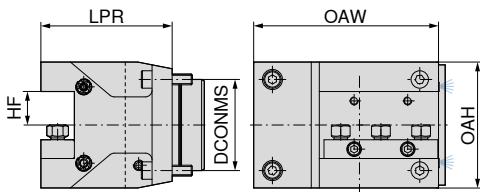
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	75	94	143	£ Y7 1,022.04 00001	£ Y7 1,038.93 00005

Mazak – BMT 68 – Radial square section tool holder

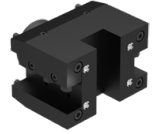
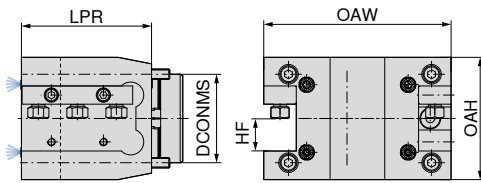
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	94	98	143	£ Y7 1,038.70 01002	£ Y7 1,053.63 01006

EMAG – BMT 68 – Multi square section tool holder

▲ directly screwed version

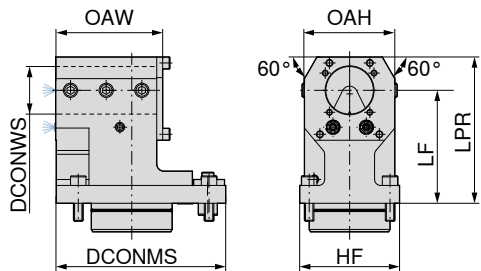


Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm
BMT 68	110 x 68	25	68	94	100	144

82 486 ...	82 486 ...
£ Y7	£ Y7
1,635.80 02003	1,582.66 02007

Mazak – BMT 68 – Combi tool holder

▲ directly screwed version



IC

Adapter	Hole pattern	DCONWS mm	OAH mm	HF mm	OAW mm	LF mm	LPR mm	DCONMS mm
BMT 68	110 x 68	40	76	84	90	95	123	142.5

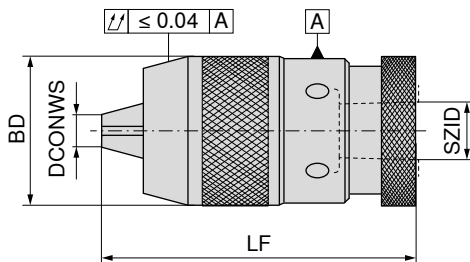
82 486 ...
£ Y7
999.39 03004

Drill chuck

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

Scope of supply:

Holder with clamping key



SZID	DCONWS mm	LF mm	BD mm		
				83 636 ...	
				£	
				Y8	
B12	0 - 8	73	35	195.44	012
B12	0 - 10	92	43	231.09	112
B16	1 - 13	106	50	276.99	016
B16	3 - 16	110	57	226.14	116
B18	3 - 16	110	57	294.93	018



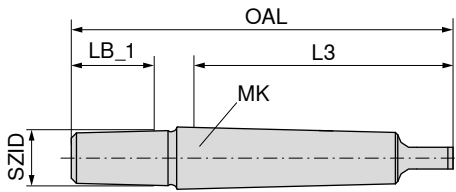
NC clamping key

Spare parts
DCONWS

DCONWS				
			83 302 ...	
			£	
			Y8	
0 - 8			20.72	008
0 - 10			22.08	010
1 - 13			18.22	013
3 - 16			21.64	016

Drill chuck adapter DIN 238

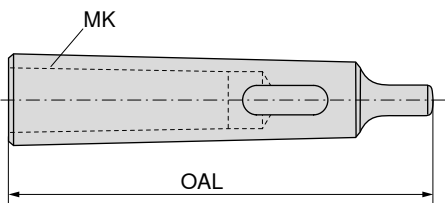
▲ Through-hardened and ground



Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm	83 642 ...	
					£	
					Y8	
MK1	B12	62.0	18.5	89.0	18.06	120
MK1	B16	62.0	24.0	97.0	18.06	160
MK1	B18	62.0	32.0	106.0	18.06	180
MK2	B12	75.0	18.5	106.5	18.06	121
MK2	B16	75.0	24.0	110.5	18.06	161
MK2	B18	75.0	32.0	117.5	18.45	181
MK3	B12	94.0	18.5	125.0	18.06	122
MK3	B16	94.0	24.0	134.0	18.06	162
MK3	B18	94.0	32.0	141.0	24.53	182
MK4	B16	117.5	24.0	159.0	41.49	163
MK4	B18	117.5	32.0	168.0	41.49	183
MK5	B16	149.5	24.0	196.0	156.47	164
MK5	B18	149.5	32.0	204.5	156.47	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



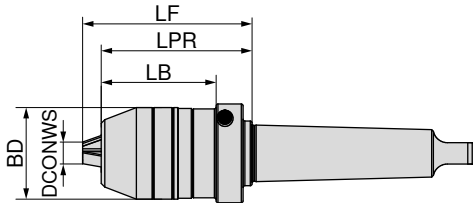
Adapter	d _i	OAL mm	83 644 ...	
			£	
			Y8	
MK1	MK0	80	30.64	010
MK2	MK1	92	32.87	020
MK3	MK1	99	35.26	130
MK3	MK2	112	37.65	030
MK4	MK1	124	46.77	240
MK4	MK2	124	46.77	140
MK4	MK3	140	68.26	040
MK5	MK2	156	89.20	250
MK5	MK3	156	93.96	150
MK5	MK4	171	98.29	050

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
MK3	0,5 - 13	48.5	64	84	93.0
MK3	2,5 - 16	51.0	64	84	94.5
MK4	2,5 - 16	51.0	64	84	94.5

84 314 ...

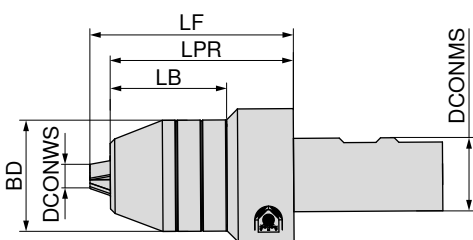
£	
Y8	
584.59	313
603.15	316
646.10	416

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

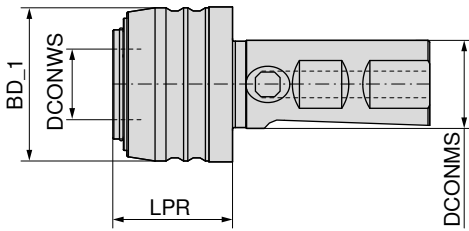
DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
25	0,5 - 13	48.5	50.9	80	89.0
32	0,5 - 13	48.5	50.9	80	89.0
32	2,5 - 16	51.0	50.9	80	90.5

84 311 ...

£	
Y8	
645.90	213
645.90	313
815.24	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)
- ▲ $p_{max.} = 50 \text{ bar}$



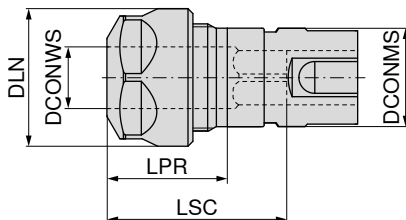
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	83 641 ...	
20	M3 - M12	1	35	43.5	25	1,0 / 0,2	£ Y8	
32	M6 - M20	2	56	60.0	25	1,0 / 0,2	300.14	012
							342.10	020

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

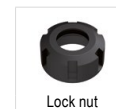
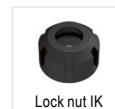
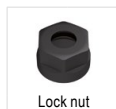
Scope of supply:

Includes lock nut



SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ...	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	£ Y8	
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	247.61	012 ¹⁾
								288.42	020

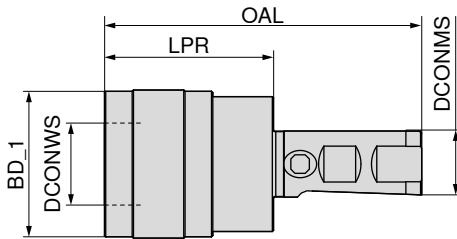
1) with 6 position lock nut



Spare parts for Article no.	62 950 ...	83 950 ...	62 950 ...	83 357 ...
	£ W7	£ Y8	£ W7	£ Y8
83 608 012	M22x1,5 - SW25 33.81 044	M22x1,5 87.05 054	M22x1,5 26.90 054	29.58 116
83 608 020		M32x1,5 101.40 055	M32x1,5 28.01 055	29.58 125

Quick change tap chuck with length compensation

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



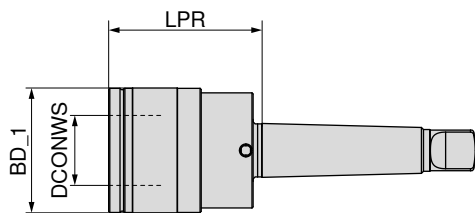
DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm
20	M3 - M12	01	41	38	19	91	9
20	M6 - M20	02	63	55	31	138	15
25	M3 - M12	01	41	38	19	97	9
25	M6 - M20	02	63	55	31	119	15
32	M3 - M12	01	41	38	19	102	9
32	M6 - M20	02	63	55	31	124	15

83 648 ...

£	
Y8	
444.50	112
609.14	120
444.50	212
548.97	220
453.77	312
567.95	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
MK 2	M3 - M12	01	46	38	19	9
MK 3	M3 - M12	01	46	38	19	9
MK 3	M6 - M20	02	69	55	31	15
MK 4	M6 - M20	02	70	55	31	15

83 646 ...

£	
Y8	
387.24	212
380.81	312
476.24	320
476.24	420

Accessories

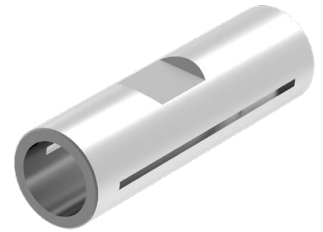
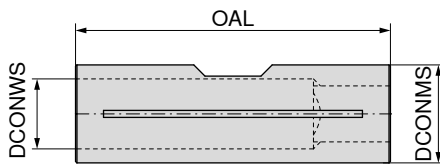


Collet

→ 288, 290-292

Clamping sleeve for taps in Weldon chucks

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

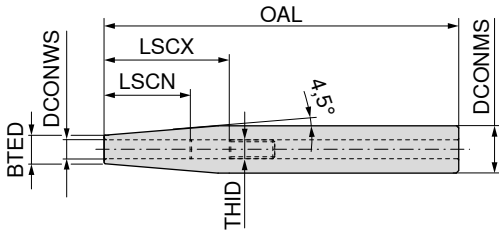


DCONWS _{H7}	DCONMS _{H6}	OAL	80 699 ...	
			£	Y7
3.5	6	26	94.85	03500
4.0	8	32	91.91	04000
4.5	8	26	91.91	04500
6.0	10	30	88.83	06000
7.0	10	31	88.83	07000
8.0	12	38	88.83	08000
9.0	12	38	88.83	09000
10.0	14	42	88.83	10000
11.0	14	42	88.83	11000
12.0	16	44	88.83	12000
14.0	18	45	88.83	14000
16.0	20	46	88.83	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 ...	
								£	
								Y8	
DCONWS _{h6}	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS		
mm	mm	mm	mm	mm	mm		mm		mm
12	3	8	150					267.83	003
12	4	8	150					267.83	004
12	5	10	150					267.83	005
12	6	10	150	36	26	M5	2.5	267.83	006
16	3	10	150					267.83	103
16	4	10	150					267.83	104
16	5	10	150					267.83	105
16	6	10	150	36	26	M5	2.5	267.83	106
16	8	12	150	36	26	M6	3.0	267.83	108
20	3	10	150					267.83	203
20	4	10	150					267.83	204
20	5	10	150					267.83	205
20	6	10	150	36	26	M5	2.5	267.83	206
20	8	12	150	36	26	M6	3.0	267.83	208
20	10	14	150	42	32	M8x1	3.0	267.83	210
20	12	16	150	47	37	M10x1	5.0	267.83	212
25	3	10	150					267.83	303
25	4	10	150					267.83	304
25	5	15	150					267.83	305
25	6	20	150	36	26	M5	2.5	267.83	306
25	8	20	150	36	26	M6	3.0	267.83	308
25	10	20	150	42	32	M8x1	3.0	267.83	310
25	12	20	150	47	37	M10x1	5.0	267.83	312
25	14	20	150	47	37	M10x1	5.0	267.83	314
25	16	22	150	50	40	M10x1	5.0	267.83	316
32	6	20	150	36	26	M5	2.5	267.83	406
32	8	20	150	36	26	M6	3.0	267.83	408
32	10	24	150	42	32	M8x1	3.0	267.83	410
32	12	24	150	47	37	M10x1	5.0	267.83	412
32	14	27	150	47	37	M10x1	5.0	267.83	414
32	16	27	150	50	40	M10x1	5.0	267.83	416
32	18	27	150	50	40	M10x1	5.0	267.83	418
32	20	27	150	52	42	M10x1	5.0	267.83	420

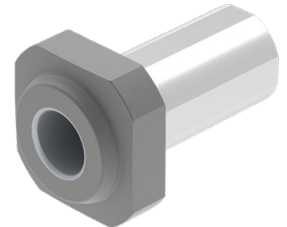
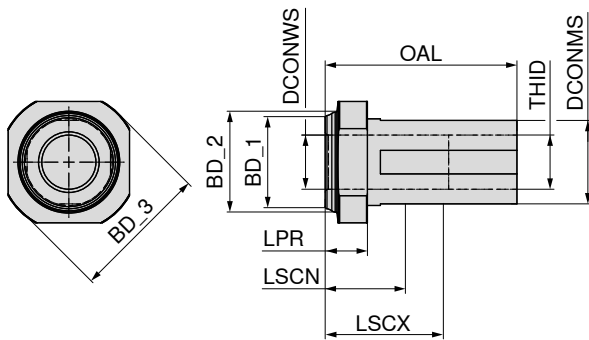
Observe the minimum clamping depth on → Page 312.

HyTens – Turn

- ▲ Hydraulic chuck with cylindrical shank
- ▲ For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- ▲ One screw for locking the boring bar
- ▲ With length setting screw – can also be removed, to enable the boring bar to be slid through
- ▲ High-precision clamping with a repeatability of 3 µm

Scope of supply:

Base body with backstop screw and pressure screw



DCONMS	DCONWS	BD_1	BD_2	BD_3	LPR	OAL	LSCX	LSCN	THID
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
32	16	38	41	59	19.5	78.5	51	41	M22x1
32	20	38	41	59	19.5	78.5	51	41	M22x1
40	16	43	46	64	19.5	88.5	51	41	M22x1
40	20	43	46	64	19.5	88.5	51	41	M22x1
40	25	43	46	64	19.5	88.5	57	47	M27x1

83 402 ...

£	Y8
704.94	31699
704.94	32099
727.00	41699
727.00	42099
727.00	42599

Spare parts

DCONWS

16 - 20
25



Stop screw IK

83 950 ...

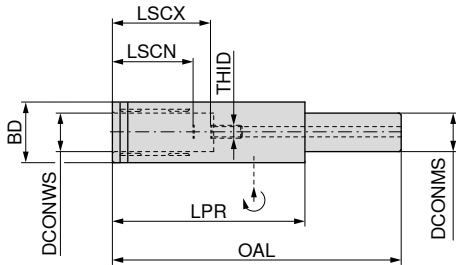
£	Y7
51.50	48500
81.26	48600

Hydraulic expansion extension especially for Hydraulic Chucks

▲ For solid carbide and HSS shanks with h6 tolerance or better

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

84 313 ...

DCONMS	DCONWS	BD	LPR	OAL	LSCX	LSCN	THID		£	
mm	mm	mm	mm	mm	mm	mm	mm		Y8	
20	12	25.0	100	150	46	36	M6	936.01	112	
20	20	31.5	100	150	51	41	M10x1	936.01	120	
32	20	31.5	90	150	51	41	M10x1	936.01	132	
32	20	31.5	90	200	51	41	M10x1	967.66	232	



Observe the minimum clamping depth on → **Page 312.**



Stop screw IK

83 950 ...

Spare parts for Article no.

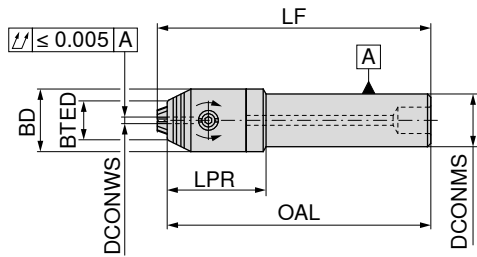
Article no.	Part description	£	
		Y7	
84 313 112	M6x12,5 - SW3	25.16	419
84 313 120	M10x1x13,5 - SW5	25.16	421
84 313 132	M10x1x13,5 - SW5	25.16	421
84 313 232	M10x1x13,5 - SW5	25.16	421

Micro-precision collet chuck

- ▲ bidirectional
- ▲ for speeds up to 60,000 1/min.

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000

84 315 ...

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm	£	
16	0,2 - 3,4	30	80	83	19	12	2	1,152.00	161
16	0,2 - 3,4	30	100	103	19	12	2	1,212.79	162
16	0,2 - 3,4	30	160	163	19	12	2	1,328.01	163
20	0,2 - 3,4	28	80	83	19	12	2	1,152.00	201
20	0,2 - 3,4	28	100	103	19	12	2	1,212.79	202
20	0,2 - 3,4	28	160	163	19	12	2	1,328.01	203

Torx blade

80 950 ...

£
Y7

Torque screwdriver

80 950 ...

£
Y7

Spare parts for Article no.

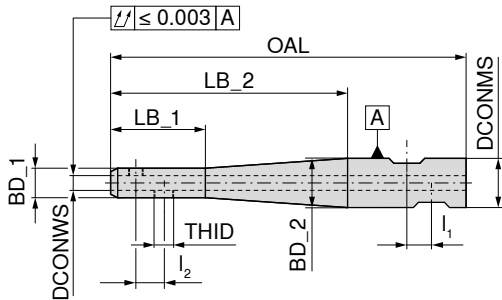
84 315 161	11.95	152	0,5 - 2,0 Nm	217.91	191
84 315 162	11.95	152	0,5 - 2,0 Nm	217.91	191
84 315 163	11.95	152	0,5 - 2,0 Nm	217.91	191
84 315 201	11.95	152	0,5 - 2,0 Nm	217.91	191
84 315 202	11.95	152	0,5 - 2,0 Nm	217.91	191
84 315 203	11.95	152	0,5 - 2,0 Nm	217.91	191

Micro-extension

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

Scope of supply:

Holder with shank clamping screw



80 642 ...

DCONWS	BD_1	LB_1	LB_2	OAL	DCONMS	BD_2	l ₁	l ₂	THID	TQX	£	
mm	mm	mm	mm	mm	mm	mm	mm	mm		Nm	Y7	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	280.17	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	341.79	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	277.37	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	333.38	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	277.37	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	333.38	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	277.37	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	333.38	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	282.97	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	341.79	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	288.55	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	361.42	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	302.55	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	369.79	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	299.79	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	364.21	12000 ¹⁾

1) only pre-balanced design



80 950 ...

Spare parts

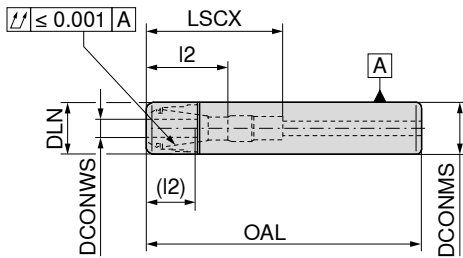
DCONWS	£	
	Y7	
6	19.74	M6X0,5X3 21700
8	19.74	M8x0,75x4 21800
10	19.74	M10x1x5 21900
12 - 14	20.31	M12x1x5 30000
16 - 18	20.85	M14x1x6,5 31000
20	21.46	M16x1x6,5 32000

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	Y8	
mm	mm	mm	mm	mm	mm			
10	1 - 5	10	80	16		4004E (ER08)	274.31	00400
10	1 - 5	10	150	16		4004E (ER08)	433.07	005
10	1 - 5	10	200	16		4004E (ER08)	416.20	006
12	1 - 5	10	120	16		4004E (ER08)	294.49	11000
12	1 - 5	10	160	16		4004E (ER08)	306.60	11200
12	1 - 5	10	200	16		4004E (ER08)	375.16	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	318.75	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	330.08	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	318.75	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	304.57	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	282.29	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	330.08	104

i LSCX = Clamping depth without back stop screw for shanks
 l₂ = with back stop screw 1, dimension in brackets (l₂) = with back stop screw 2
 dimension OAL when using tightening nuts with seals 4 mm longer

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
4004E (ER08)	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
4008E (ER11)	Y8		Y8		Y8		Y8	
426E (ER16)	97.92	035	120.83	040	57.32	340	38.17	336
			100.56	041	60.14	341	40.28	337
			80.34	034				
					M8x1 - SW4		M8x1 - SW4	
					M11x1 - SW6		M11x1 - SW6	

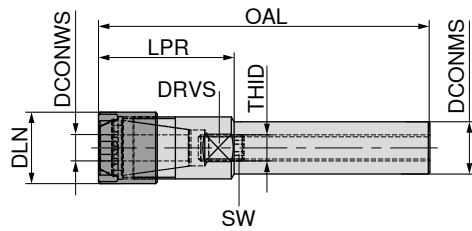
Accessories

ER collet	Device	Roll key	Roll key device
→ 268-276, 279	→ 285	→ 286	→ 286

i The transferable torques can be found on → **Page 313.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



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

83 453 ...

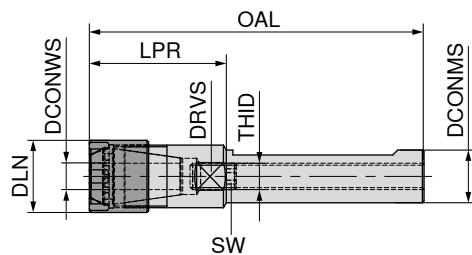
£
Y8

164.61	081 ¹⁾
348.14	122
342.04	163
348.14	164
342.04	165
245.32	204
283.82	254
357.53	256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



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

83 454 ...

£
Y8

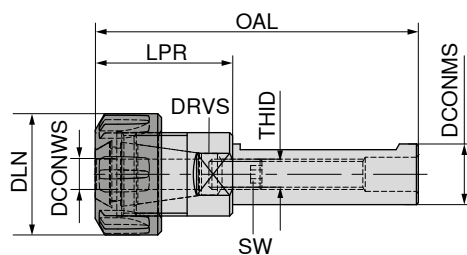
245.32	204
176.38	206
205.67	208
283.82	254
357.53	256

Spare parts for ER collet chuck with mini lock nut

	ER Mini clamping key		Mini lock nut		Mini IK		Stop screw IK	
	83 950 ...		62 950 ...		83 950 ...		83 950 ...	
Spare parts for collet	£		£		£		£	
4004E (ER08)	44.43	099	M10x0,75	74.48	067			
4004E (ER08)	44.43	099	M10x0,75	74.48	067		M5x0,8 SW 2,5	3.34 003
4008E (ER11)	44.43	100	M13x0,75	66.89	065		M7,5x0,5 SW 3	3.89 004
426E (ER16)	49.71	101	M19x1	46.66	066	M19x1	M11x1 SW 5	4.43 006
426E (ER16)	49.71	101	M19x1	46.66	066	M19x1	M8x1,25 SW 4	4.26 005
428E (ER20)	46.65	102	M24x1	74.08	068	M24x1	M14x1 SW 5	4.64 007
430E (ER25)	46.65	103	M30x1	74.08	069	M30x1	M18x1 SW 5	4.98 008

ER Collet Chuck

▲ with cylindrical shank and clamping flat



DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	83 455 ...
mm	mm	mm	mm	mm	mm	mm	mm		£
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	208.98 401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	258.02 402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	239.57 405

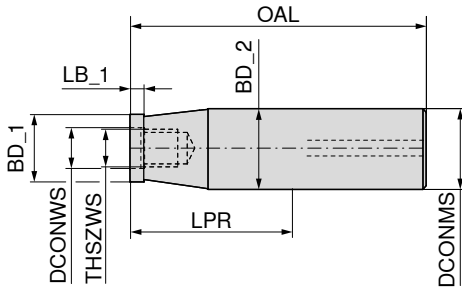
	Y clamping key		Stop screw IK		Stop screw		
	83 357 ...		83 950 ...		83 950 ...		
Spare parts for collet	£		£		£		
470E (ER32)	43.08	132					
472E (ER40)	48.80	140	M28x1,5x25 SW 6	7.94	096	M22x1,5x20 SW 5	6.44 095

	Lock nut IK		Lock nut	
	83 950 ...		62 950 ...	
Spare parts for collet	£		£	
470E (ER32)	108.45	056	M40x1,5	35.87 65600
472E (ER40)	130.50	057	M50x1,5	34.86 65700

Accessories



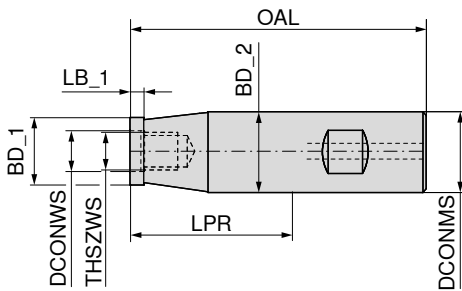
Cylindrical milling bar for cutters with threaded end



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	149.74	052
12	M6	6.5	20	11.5	7.8	11.5	65	138.80	060
12	M6	6.5	40	11.5	7.8	11.5	85	149.73	062
16	M8	8.5	20	13.8	7.8	15.8	68	154.94	081
16	M8	8.5	40	13.8	7.8	15.8	88	166.58	082
20	M10	10.5	25	18.0	7.8	19.8	75	161.41	101
20	M10	10.5	45	18.0	7.8	19.8	95	174.51	102
25	M12	12.5	50	21.0	7.8	24.8	106	182.24	122
32	M16	17.0	50	29.0	12.0	31.8	110	196.59	162

Milling bar for cutters with threaded end (Weldon)

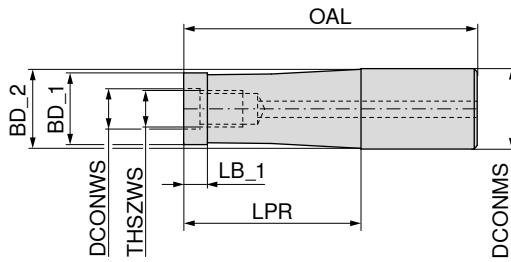


56 729 ...

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	138.80	060
12	M6	6.5	40	11.5	7.8	11.5	85	149.73	062
16	M8	8.5	20	13.8	12.0	15.8	68	154.94	081
16	M8	8.5	40	13.8	8.0	15.8	88	166.58	082
20	M10	10.5	25	18.0	8.0	19.8	75	161.41	101
20	M10	10.5	45	18.0	12.0	19.8	95	174.51	102
25	M12	12.5	30	21.0	12.0	24.9	86	168.06	121
25	M12	12.5	50	21.0	8.0	24.9	106	182.24	122
32	M16	17.0	50	29.0	12.0	31.8	110	196.59	162

Screw-in adapter with cylindrical shank

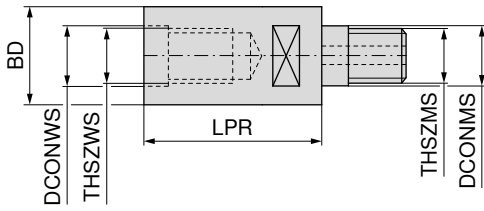
▲ Vibration-damped



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	Solid carbide		Densimet	
								£ WC		£ WC	
12	M5	5.5	40	9.5	9	11.3	85	56 743 ...		56 744 ...	
12	M5	5.5	60	9.5	9	11.3	105			554.71	052
12	M5	5.5	80	9.5	9	11.3	125			599.53	053
										666.79	054
12	M6	6.5	20	11.5		11.5	65	730.53	060		
12	M6	6.5	40	11.5		11.5	85	780.15	062		
12	M6	6.5	60	11.5		11.5	105	864.91	063		
12	M6	6.5	80	11.5		11.5	125	946.71	064		
12	M6	6.5	100	11.5		11.5	145	1,028.53	065		
16	M8	8.5	40	14.2	9	15.3	88	827.57	082	680.77	082
16	M8	8.5	60	14.2	9	15.3	108	914.63	083	736.83	083
16	M8	8.5	80	14.2	9	15.3	128	985.82	084	806.87	084
16	M8	8.5	100	14.2	9	15.3	148	970.09	085	888.11	085
16	M8	8.5	120	14.2	9	15.3	168	1,037.26	086	977.76	086
16	M8	8.5	150	14.2	9	15.3	198			1,232.69	087
20	M10	10.5	60	18.5	9	19.3	110	1,052.08	103	860.09	103
20	M10	10.5	80	18.5	9	19.3	130	1,072.36	104	958.18	104
20	M10	10.5	100	18.5	9	19.3	150	1,286.75	105	1,070.22	105
20	M10	10.5	120	18.5	9	19.3	170	1,326.53	106	1,187.88	106
20	M10	10.5	140	18.5	9	19.3	190	1,478.51	107	1,384.01	107
25	M12	12.5	75	23.0	9	24.3	131			1,291.54	124
25	M12	12.5	80	23.0	9	24.3	136	1,145.40	124		
25	M12	12.5	100	23.0	9	24.3	156	1,472.91	125	1,428.82	125
25	M12	12.5	120	23.0	9	24.3	176	1,656.76	126		
25	M12	12.5	125	23.0	9	24.3	181			1,563.29	126
25	M12	12.5	140	23.0	9	24.3	196	1,913.88	127		
25	M12	12.5	150	23.0	9	24.3	206			1,756.62	127
25	M12	12.5	160	23.0	9	24.3	216	2,171.00	128		
25	M12	12.5	175	23.0	9	24.3	231			1,989.16	128
32	M16	17.0	100	29.0	9	31.5	160	2,439.83	165 ¹⁾		
32	M16	17.0	150	29.0	9	31.5	210	2,959.93	166 ¹⁾		
32	M16	17.0	200	29.0	9	31.5	260	3,567.69	167 ¹⁾		
32	M16	17.0	250	29.0	9	31.5	310	4,286.52	168 ¹⁾		
32	M16	17.0	300	29.0	9	31.5	360	4,900.12	169 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

168.06 081

207.01 082

174.51 101

213.46 102

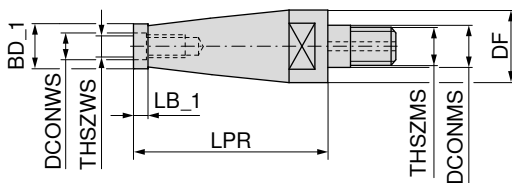
180.96 121

219.91 122

187.44 161

226.59 162

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

148.57 060

174.51 081

188.67 082

180.96 101

219.91 102

180.96 121

MultiChange – Programme Overview

The "MultiChange" interchangeable head system enables an extremely fast and problem free tool change. Provides quick changeover and concentricity with the highest stability at the same time. For a multitude of applications, the suitable interchangeable heads are available in the following chapters.

Exchangeable heads	
<p>→ Chapter 2, Solid carbide drilling</p> <p>Solid Carbide NC Spot Drills</p> <p>Ø 8, 10, 12, 16, 20 mm NOF 2</p> <p>SIG 90° SIG 120° SIG 142°</p>	<p>Page No. 2 107</p>
<p>→ Chapter 4, Reaming and countersinking</p> <p>Replaceable reaming heads</p> <p>Ø 8,00 – 30,20 mm</p> <p>Through hole</p> <p>Ø 12,20 – 30,20 mm</p> <p>Blind hole</p>	<p>Page No. 4 18 + 4 19</p>
<p>→ Chapter 14, Solid carbide milling cutters</p> <p>Solid carbide shoulder mills</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 3+4</p> <p>Type PCR-UNI Type PCR-ALU Type N</p> <p>Solid carbide torus bull nose milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 3+4</p> <p>Type W Type N</p> <p>Solid carbide rough and finish milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 4+6</p> <p>Type NF</p> <p>Solid carbide finish milling cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide ball-nosed end mills</p> <p>Ø 10, 12, 16, 20 mm / ZEFP 4</p> <p>Type N</p> <p>Solid carbide high-feed cutters</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide quarter round cutter</p> <p>Ø 8, 10, 12, 16, 20 mm / ZEFP 6</p> <p>Type N</p> <p>Solid carbide deburring cutters</p> <p>Ø 10, 12, 16, 20 mm / ZEFP 4+6</p> <p>Type N Type N</p>	<p>Page No. 14 198 – 14 202</p>
<p>NOF / ZEFP = Number of cutting edges</p>	

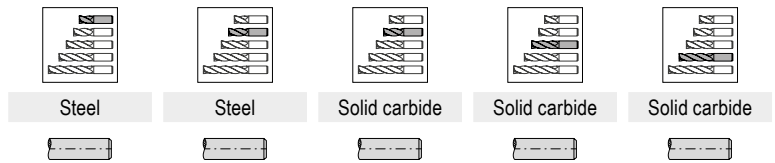
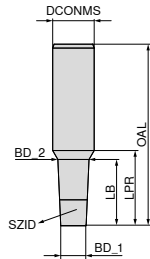
Tool holder	
<p>→ Catalogue – Clamping technology, Chapter 16 Accessories</p> <p>Page No. 16 259 – 16 261</p> <p>OAL 60 – 90 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>OAL 85 – 120 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>OAL 110 – 150 mm</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>OAL 150 – 200 mm</p> <p>Tapered 87° / Solid carbide Cylindrical* / Steel Cylindrical* / Solid carbide</p> <p>OAL 200 – 250 mm</p> <p>Cylindrical* / Steel Cylindrical* / Solid carbide</p>	
<p>* only conditionally suitable for milling</p>	

MultiChange – Holders

- ▲ Tapered 87°
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	84 001 ...		84 004 ...		84 005 ...		84 007 ...		84 010 ...	
							£		£		£		£		£	
06	7.8	9.4	10	60	18	19	196.88	080								
06	7.8	9.4	10	85	43	44			233.11	080	394.74	080				
06	7.8	9.4	10	110	68	69							436.84	080		
06	7.8	9.4	10	150	108	109									503.36	080
08	9.8	12.0	16	70	25	29	200.09	100								
08	9.8	13.0	16	90	38	41			238.98	100	430.50	100				
08	9.8	14.9	16	110	60	61							483.39	100		
08	9.8	15.4	16	150	100	101									562.62	100
10	11.8	14.2	16	70	27	29	221.82	120								
10	11.8	15.2	16	90	40	41			243.98	120	430.50	120				
10	11.8	16.6	20	110	56	59							617.39	120		
10	11.8	19.5	20	150	98	99									664.94	120
12	15.8	18.2	20	80	27	29	238.10	160								
12	15.8	19.5	20	105	53	54			293.76	160	605.21	160				
12	15.8	19.5	20	130	78	79							722.90	160		
12	15.8	19.5	20	150	98	99									741.64	160
16	19.8	23.2	25	90	39	41	279.32	200								
16	19.8	24.5	25	120	60	61			343.56	200	741.87	200				
16	19.8	24.5	25	150	90	91							838.75	200		
16	19.8	24.5	25	200	140	141									941.03	200

Assembly instructions can be found on → **Page 293**

Accessories



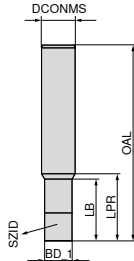
insertion key → 293 Adjustable wrench → 293

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel

Steel

Steel

Steel



SZID	BD_1	DCONMS	OAL	LB	LPR
	mm	mm	mm	mm	mm
06	7.8	10	60	17	19
06	7.8	10	85	42	44
06	7.8	10	150	107	109
08	9.8	12	70	22	24
08	9.8	12	90	42	44
08	9.8	12	150	102	104
10	11.8	16	70	17	21
10	11.8	16	90	37	41
10	11.8	16	150	97	101
12	15.8	16	80	30	31
12	15.8	16	105	55	56
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	90	26	31
16	19.8	25	120	56	61
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 000 ...	84 002 ...	84 008 ...	84 011 ...
£ Y8	£ Y8	£ Y8	£ Y8
178.80	209.79	293.76	
181.75	215.00	301.01	
201.65	219.55	307.37	
216.58	264.35	370.26	
253.94	309.14	432.72	670.85
			745.50

Assembly instructions can be found on → **Page 293**

Accessories



insertion key

Adjustable wrench

→ 293

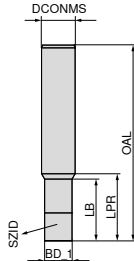
→ 293

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Solid carbide

Solid carbide

Solid carbide

Solid carbide



SZID	BD_1	DCONMS	OAL	LB	LPR
	mm	mm	mm	mm	mm
06	7.8	10	85	42	44
06	7.8	10	110	67	69
06	7.8	10	150	107	109
08	9.8	12	90	42	44
08	9.8	12	110	62	64
08	9.8	12	150	102	104
10	11.8	16	90	37	41
10	11.8	16	110	57	61
10	11.8	16	150	97	101
12	15.8	16	105	55	56
12	15.8	16	130	80	81
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	120	56	61
16	19.8	25	150	86	91
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 003 ...	84 006 ...	84 009 ...	84 012 ...
£ Y8	£ Y8	£ Y8	£ Y8
394.74	080		
	436.84	080	
		503.36	080
418.22	100		
	455.38	100	
		534.11	100
430.50	120		
	483.39	120	
		562.62	120
468.47	160		
	639.39	160	
		725.55	160
741.87	200		957.81
	838.75	200	
		941.03	200
			1,449.81
			200

Assembly instructions can be found on → **Page 293**

Accessories

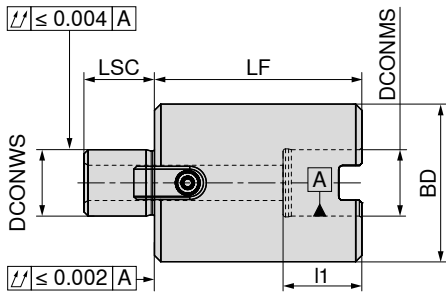
insertion key	Adjustable wrench
→ 293	→ 293

Extension for Shell mill arbors





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


Scope of supply:

Holder without clamping screw

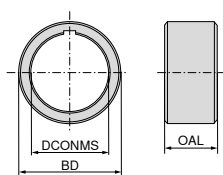


						82 648 ...	
						£	
						Y8/3B	
DCONWS _{h5}	DCONMS _{h5}	LF	BD	LSC	l ₁		
mm	mm	mm	mm	mm	mm		
16	16	50	38	17	19	152.71	050
16	16	75	38	17	19	153.78	075
22	22	50	48	19	21	156.38	150
22	22	75	48	19	21	157.90	175
27	27	50	58	21	23	163.73	250
27	27	75	58	21	23	166.76	275
32	32	50	78	24	26	177.55	350
32	32	75	78	24	26	183.85	375
40	40	50	88	27	29	220.33	450
40	40	75	88	27	29	228.95	475

		 Screw for drivers		 Driver		 Cross screw		 Cross screw				
		83 950 ...		83 950 ...		82 649 ...		82 649 ...				
		£		£		£		£				
		Y8/3B		Y8/3B		Y8/3B		Y8/3B				
Spare parts for Article no.												
82 648 050	M3x8	1.29	296	8x9x17,5	18.20	120	M8x125	8.64	001	M8x80	5.32	050
82 648 075	M3x8	1.29	296	8x9x17,5	18.20	120				M8x100	7.38	075
82 648 150	M4x12	1.69	297	10x11x20,5	18.79	121	M10x125	12.80	100	M10x80	8.44	150
82 648 175	M4x12	1.69	297	10x11x20,5	18.79	121				M10x100	11.15	175
82 648 250	M5x12	1.74	136	12x13x24,3	20.72	122	M12x125	19.58	200	M12x80	12.35	250
82 648 275	M5x12	1.74	136	12x13x24,3	20.72	122				M12x100	16.68	275
82 648 350	M5x20	1.84	137	14x21x21,2	20.94	123	M16x125	28.74	300	M16x80	18.15	350
82 648 375	M5x20	1.84	137	14x21x21,2	20.94	123				M16x100	25.28	375
82 648 450	M6x16	2.09	138	15,9x16,3x19,5	27.87	295						
82 648 475	M6x16	2.09	138	15,9x16,3x19,5	27.87	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

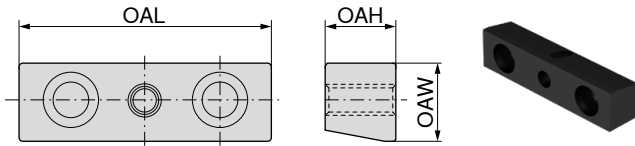


83 385 ...

DCONMS mm	BD mm	OAL mm	£ Y8	
13	22	2	15.24	013
	22	3	15.32	113
	22	4	15.96	213
	22	5	16.48	313
	22	6	17.31	413
	22	10	19.28	513
16	26	2	13.50	016
	26	3	13.50	116
	26	4	13.70	216
	26	5	14.21	316
	26	6	14.69	416
	26	10	20.84	516
	26	20	26.54	616
26	30	33.04	716	
22	34	2	13.90	022
	34	3	14.21	122
	34	4	14.40	222
	34	5	15.77	322
	34	6	17.78	422
	34	10	24.45	522
	34	20	30.65	622
	34	30	40.65	722
27	41	2	15.32	027
	41	3	15.71	127
	41	4	17.31	227
	41	5	17.96	327
	41	6	20.14	427
	41	10	25.00	527
	41	20	33.66	627
	41	30	45.02	727
32	47	2	17.09	032
	47	3	18.17	132
	47	4	19.74	232
	47	5	21.38	332
	47	6	22.64	432
	47	10	27.59	532
	47	20	41.68	632
	47	30	50.64	732
40	55	2	19.88	040
	55	3	22.08	140
	55	4	24.35	240
	55	5	26.54	340
	55	6	28.60	440
	55	10	38.33	540
	55	20	52.74	640
	55	30	65.12	740

Spare parts for VDI holders with DirectCooling

Clamping rail



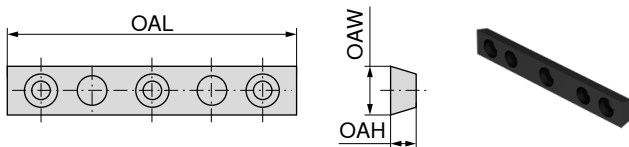
			82 250 ...	
OAL	OAW	OAH	£	
mm	mm	mm	Y8	
53.0	12.7	11.5	23.35	05300
54.0	16.0	15.0	23.35	05400
67.5	16.0	15.0	29.31	06750
68.0	21.0	19.0	29.31	06800
83.0	20.5	19.0	35.15	08300
90.0	20.5	19.0	41.74	09000

Screw for ball-shaped spray nozzle



		82 950 ...	
THOD		£	
		Y8	
M3x10		4.57	31000
M4x10		4.57	31300
M5x12		5.84	31100
M6x12		7.10	31200

Clamping wedge



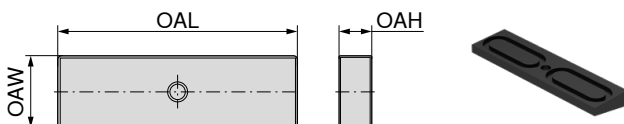
			82 250 ...	
OAL	OAW	OAH	£	
mm	mm	mm	Y8	
70	14	7.3	29.31	07000
85	14	7.3	35.15	08500
100	14	7.3	41.74	10000

Ball-shaped spray nozzle



		82 950 ...	
THID	BD	£	
	mm	Y8	
M5	8	11.66	30600
M6	10	14.59	30900
M6	12	17.51	30700
M6	14	20.94	30800

Levelling plates



			82 250 ...	
OAL	OAW	OAH	£	
mm	mm	mm	Y8	
53.0	14	6.1	46.82	15300
67.5	18	6.3	58.49	16750
83.0	22	7.5	71.04	18300
90.0	22	7.5	81.95	19000

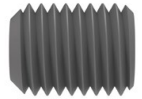
Spare parts for VDI holders with DirectCooling

O ring
for clamping wedge



Size	82 950 ...	
	£	Y8
Ø13 x Ø2	8.77	32600
Ø18 x Ø2	11.66	32700
Ø22 x Ø2	11.66	32800

Screw plug for ball-shaped
spray nozzle



THOD	OAL mm	82 950 ...	
		£	Y8
M5	6	5.08	32900
M6	6	5.08	33000

O ring for ball-shaped
spray nozzle



Size	82 950 ...	
	£	Y8
Ø10 x Ø2	4.57	31600
Ø5 x Ø1,5	4.57	31400
Ø7 x Ø1,5	4.57	31700
Ø7 x Ø2,5	4.57	31500

Screw for clamping wedge



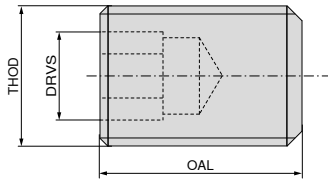
THOD	82 950 ...	
	£	Y8
M5x12	5.84	31800
M6x16	8.77	32200
M6x20	8.77	31900
M8x20	11.66	32300
M8x25	14.59	32100

Quad ring



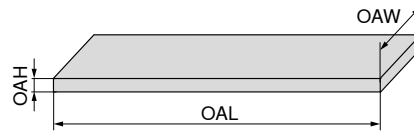
Size	82 950 ...	
	£	Y8
Ø21,95 x Ø1,78	17.51	32400
Ø28,3 x Ø1,78	20.94	32500

Screw for cylindrical adapters E2



Levelling plates

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



83 950 ...

THOD	OAL mm	DRVS mm	£ Y8	
M6	12	3	4.49	461
M6	16	3	4.36	462
M6	25	3	4.49	463
M8	10	4	4.49	464
M8	12	4	4.49	465
M8	16	4	4.49	466
M8	20	4	4.36	467
M8	25	4	4.36	468
M8	30	4	4.49	469
M10	16	5	4.49	470
M10	20	5	4.36	471
M10	25	5	5.34	472
M10	30	5	4.93	473
M12	12	6	5.34	474
M12	16	6	5.34	475
M12	20	6	5.34	476
M12	25	6	5.34	477

83 950 ...

OAH mm	OAL mm	OAW mm	£ Y8	
4	38	14	25.63	210
4	48	14	21.91	211
4	54	14	21.91	212
4	55	12	25.63	213
4	69	16	21.91	214
4	72	14	21.91	215
4	75	12	25.63	216
4	99	16	21.91	217
5	84	20	25.16	218
5	117	20	21.91	219
7	99	25	21.91	220
7	120	25	29.85	221
7	129	25	25.63	222
7	143	25	25.63	223

Clamping screw for cylindrical adapters E1



83 950 ...

THOD	£ Y8	
M10x1x10	9.05	180
M12x1x12	9.05	181
M16x1x13	8.08	182

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



for collet	THOD	DRVS mm	83 950 ...	
			£	
			Y8	
ER 16	M24x1	19	110.31	45600
ER 20	M28x1,5	22	115.73	45700
ER 25	M32x1,5	24	113.29	45800
ER 32	M40x1,5	32	123.21	45900

Ball-shaped spray nozzle



		83 950 ...	
		£	
		Y8	
Ø 8 - M 5		6.92	200
Ø 10 - M 6		8.73	201
Ø 14 - M 8		8.61	202

Pipe joints

▲ steel pipe



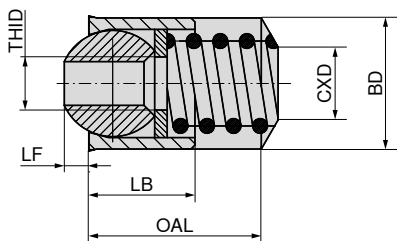
THOD	CXD mm	Type	83 950 ...	
			£	
			Y7	
M8x1	5	A	18.79	372
M10x1	6	A	40.83	373
M10x1	8	A	23.94	374
M8x1	5	B	18.79	375
M10x1	6	B	40.83	376
M10x1	8	B	40.83	377

O-Ring



Adapter	Size	83 950 ...	
		£	
		Y8	
VDI 16	15 x 1,5	2.09	205
VDI 20	18,77 x 1,78	2.09	206
VDI 30	28,3 x 1,78	2.43	207
VDI 40	37,77 x 2,62	2.80	208
VDI 50	47,29 x 2,62	2.80	209

Spray nozzle element

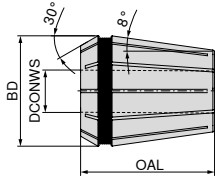


BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ...	
						£	
						Y8	
9.88	M4	13	8	2.2	5.5	18.21	247
11.88	M6	15	10	3.0	6.8	18.21	248
13.88	M6	17	12	4.0	6.8	18.21	249

ER precision collet for precision collet chucks – Centro-P

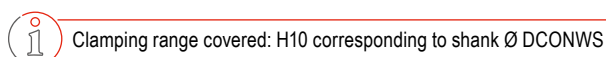
- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet

ER-B
2 µm



DCONWS mm	BD = 8.5 OAL = 13.6 4004 E / ER08		BD = 11.5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	£		£		£		£		£		£	
		84 577 ...		84 585 ...		84 596 ...		84 597 ...		84 598 ...		84 599 ...
	Y8		Y8		Y8		Y8		Y8		Y8	
1.0	125.81	010	121.63	010	119.54	010						
1.1					213.82	011						
1.2					213.82	012						
1.4					213.82	014						
1.5	125.81	015	121.63	015	119.54	015						
1.6					213.82	016						
1.8					213.82	018						
2.0	111.73	020	106.91	020	102.11	020	105.71	020	108.11	020		
2.2					189.80	022						
2.4					189.80	024						
2.5	111.73	025	106.91	025	102.11	025	105.71	025				
2.6					189.80	026						
2.8					189.80	028						
3.0	94.89	030	90.11	030	86.49	030	88.90	030	90.11	030	132.11	030
3.2					168.19	032						
3.4					148.91	034						
3.5	94.89	035	90.11	035	110.11	035	115.35	035				
3.6					168.19	036						
3.8					168.19	038						
4.0	94.89	040	90.11	040	86.49	040	88.90	040	90.11	040	115.33	040
4.5	94.89	045	90.11	045	110.11	045	115.35	045				
5.0	94.89	050	90.11	050	86.49	050	88.90	050	90.11	050	115.33	050
5.5			90.11	055	110.11	055	115.35	055				
5.6					168.19	056						
6.0			90.11	060	86.49	060	88.90	060	90.11	060	115.33	060
6.3					168.19	063						
6.5			90.11	065	110.11	065	115.35	065				
7.0			90.11	070	86.49	070	88.90	070	90.11	070	115.33	070
7.1					168.19	071						
7.5					110.11	075	115.35	075				
8.0					86.49	080	88.90	080	90.11	080	115.33	080
8.5					110.11	085	115.35	085				
9.0					86.49	090	88.90	090	90.11	090	115.33	090
9.5					110.11	095	115.35	095				
10.0					86.49	100	88.90	100	90.11	100	115.33	100
10.5							115.35	105				
11.0							88.90	110	90.11	110	115.33	110
11.5							115.35	115				
12.0							88.90	120	90.11	120	115.33	120
12.5							115.35	125				
13.0							88.90	130	90.11	130	115.33	130
13.5							115.35	135				
14.0							88.90	140	90.11	140	115.33	140
14.5							115.35	145				
15.0							88.90	150	90.11	150	115.33	150
15.5							115.35	155				
16.0							88.90	160	90.11	160	115.33	160
17.0									90.11	170	115.33	170
18.0									90.11	180	115.33	180
19.0									90.11	190	115.33	190
20.0									90.11	200	115.33	200
21.0											115.33	210
22.0											115.33	220
23.0											115.33	230
24.0											115.33	240
25.0											115.33	250
26.0											115.33	260
		Set in wooden box			557.37	999	672.71	999	773.61	999		

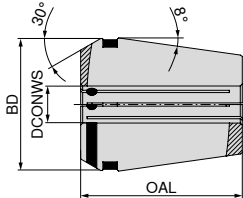
1) Included in the set



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

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ $p_{max.} = 60$ bar
- ▲ Coated precision collet

ER-B
2 µm

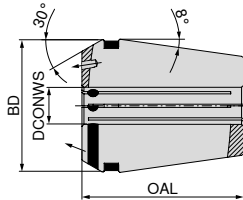


DCONWS mm	BD = 11.3 OAL = 18 425 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
	£		£		£		£		£	
3	113.23	030	117.72	030	119.54	030	123.76	030		
4	113.23	040	117.72	040	124.94	040	113.23	040		
5	123.76	050	113.23	050	119.54	050	123.76	050		
6	113.23	060	117.72	060	124.94	060	113.23	060	130.01	060
7			113.23	070	119.54	070	123.76	070		
8			117.72	080	124.94	080	113.23	080	130.01	080
9			113.23	090	119.54	090	123.76	090		
10			117.72	100	124.94	100	113.23	100	130.01	100
11					119.54	110	123.76	110		
12					124.94	120	113.23	120	130.01	120
13					119.54	130	123.76	130		
14					124.94	140	113.23	140	130.01	140
15					119.54	150	123.76	150		
16					124.94	160	113.23	160	130.01	160
17							123.76	170		
18							113.23	180	130.01	180
19							123.76	190		
20							113.23	200	130.01	200
22									142.60	220
25									130.01	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

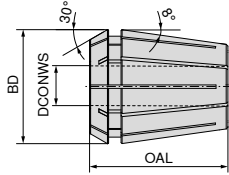


DCONWS mm	BD = 11.3 OAL = 18 4012 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
3	173.46	03000	155.19	03000						
4	173.46	04000	155.19	040	165.68	040	171.95	040		
6	173.46	06000	155.19	060	165.68	060	171.95	060	199.24	06000
8			155.19	080	165.68	080	171.95	080	199.24	08000
10			155.19	10000	165.68	100	171.95	100	199.24	100
12					165.68	120	171.95	120	199.24	120
14					165.68	140	171.95	140		
16					165.68	16000	171.95	160	199.24	160
18							171.95	180		
20							171.95	200	199.24	200
25									199.24	250

ER precision collet

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

ER-B
5 µm



DCONWS mm	BD = 11.5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27.5 426 E / ER16		BD = 21 OAL = 31.5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40		
	£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		
1.0	52.11	010	50.34	010	51.92	010 ¹⁾	54.77	010 ¹⁾					
1.5	52.11	015	50.34	015 ¹⁾	51.92	015 ¹⁾	54.77	015 ¹⁾					
2.0	52.11	020	50.34	020	51.92	020	54.77	020	57.84	020 ¹⁾			
2.5	52.11	025	50.34	025 ¹⁾	51.92	025 ¹⁾	54.77	025 ¹⁾	57.84	025 ¹⁾			
3.0	42.22	030	39.81	030	41.12	030	42.22	030	45.10	030	78.08	030 ¹⁾	
3.5	42.22	035											
4.0	42.22	040	39.81	040	41.12	040	42.22	040	45.10	040	58.28	040	
4.5	42.22	045											
5.0	42.22	050	39.81	050	41.12	050	42.22	050	45.10	050	58.28	050	
5.5	42.22	055											
6.0	42.22	060	39.81	060	41.12	060	42.22	060	45.10	060	58.28	060	
6.5	42.22	065											
7.0	42.22	070	39.81	070	41.12	070	42.22	070	45.10	070	58.28	070	
8.0			39.81	080	41.12	080	42.22	080	45.10	080	58.28	080	
9.0			39.81	090	41.12	090	42.10	090	45.10	090	58.28	090	
10.0			39.81	100	41.12	100	42.22	100	45.10	100	58.28	100	
11.0					41.12	110	42.22	110	45.10	110	58.28	110	
12.0					41.12	120	42.22	120	45.10	120	58.28	120	
13.0					41.12	130	42.22	130	45.10	130	58.28	130	
14.0							42.22	140	45.10	140	58.28	140	
15.0							42.22	150	45.10	150	58.28	150	
16.0							42.22	160	45.10	160	58.28	160	
17.0									45.10	170	58.28	170	
18.0									45.10	180	58.28	180	
19.0									45.10	190	58.28	190	
20.0									45.10	200	58.28	200	
21.0											58.28	210	
22.0											58.28	220	
23.0											58.28	230	
24.0											58.28	240	
25.0											58.28	250	
26.0											58.28	260	
Set in wooden box		628.90	999	455.18	999	554.12	999	701.47	999	877.34	999	1,418.31	999

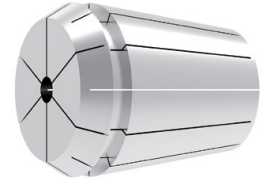
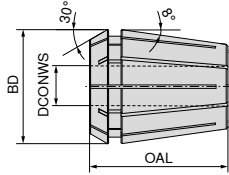
1) not included in the set

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- ▲ DIN ISO 15488-B (alt DIN 6499-B)
- ▲ 16 times slotted
- ▲ Double taper clamping

ER-B
10 µm



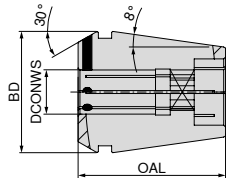
DCONWS mm	NEW		NEW		NEW		NEW	
	BD = 8.5 OAL = 13.6 4004 E / ER08	BD = 17 OAL = 27.5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 8.5 OAL = 13.6 4004 E / ER08	BD = 17 OAL = 27.5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
	82 683 ...	82 684 ...	82 685 ...	82 686 ...				
	£ Y8	£ Y8	£ Y8	£ Y8				
1.0	39.29 01000	31.24 01000						
1.5	39.29 01500							
2.0	39.29 02000	31.24 02000	32.67 02000					
2.5	39.29 02500							
3.0	39.29 03000	31.24 03000	32.67 03000	34.59 03000				
3.5	39.29 03500							
4.0	39.29 04000	31.24 04000	32.67 04000	34.59 04000				
4.5	39.29 04500							
5.0	39.29 05000	31.24 05000	32.67 05000	34.59 05000				
6.0		31.24 06000	32.67 06000	34.59 06000				
7.0		31.24 07000	32.67 07000	34.59 07000				
8.0		31.24 08000	32.67 08000	34.59 08000				
9.0		31.24 09000	32.67 09000	34.59 09000				
10.0		31.24 10000	32.67 10000	34.59 10000				
11.0			32.67 11000	34.59 11000				
12.0			32.67 12000	34.59 12000				
13.0			32.67 13000	34.59 13000				
14.0			32.67 14000	34.59 14000				
15.0			32.67 15000	34.59 15000				
16.0			32.67 16000	34.59 16000				
17.0				34.59 17000				
18.0				34.59 18000				
19.0				34.59 19000				
20.0				34.59 20000				
Set in plastic case	391.64 99900	345.79 99900	523.08 99900	661.75 99900				

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

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max.} = 60$ bar
- ▲ Coated collet

ER-A
10 µm



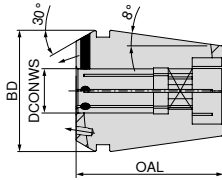
BD = 16.7 OAL = 27.5 4031 E / ER16	BD = 25.7 OAL = 34 4282 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
84 531 ...	84 533 ...	84 534 ...
£ Y8	£ Y8	£ Y8
110.03 028		
83.90 035	92.27 035	
83.90 040	92.27 040	113.56 040
83.90 045	92.27 045	113.56 045
83.90 060	92.27 060	113.56 060
83.90 070	92.27 070	113.56 070
83.90 080	92.27 080	113.56 080
83.90 090	92.27 090	113.56 090
	92.27 100	113.56 100
	92.27 110	113.56 110
	92.27 120	113.56 120
	92.27 140	113.56 140
	92.27 160	113.56 160
		113.56 180
		113.56 200

DCONWS mm
2.8
3.5
4.0
4.5
6.0
7.0
8.0
9.0
10.0
11.0
12.0
14.0
16.0
18.0
20.0

ER precision collet, sealed with coolant channels

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

ER-A
10 µm



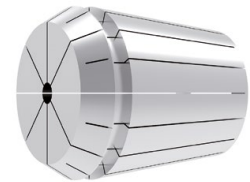
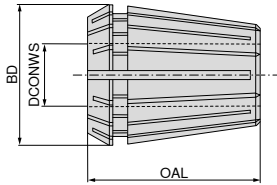
BD = 16.7 OAL = 27.5 4537 E / ER16	BD = 25.7 OAL = 34 4537 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
--	--	--

DCONWS mm	84 567 ...		84 568 ...		84 569 ...	
	£		£		£	
3.5	Y8		Y8		Y8	
4.5	152.20	035	168.56	045	182.62	045
6.0	152.20	060	168.56	060	182.62	060
7.0	152.20	070	168.56	070	182.62	070
8.0	152.20	080	168.56	080	182.62	080
9.0	152.20	09000	168.56	090	182.62	090
10.0			168.56	100	182.62	100
11.0			168.56	110	182.62	110
12.0			168.56	120	182.62	120
14.0			168.56	140	182.62	140
16.0			168.56	16000	182.62	160
18.0					182.62	180
20.0					182.62	200

ER precision collet

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

ER-B
20 µm



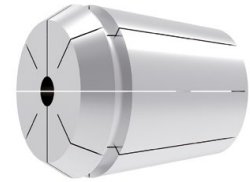
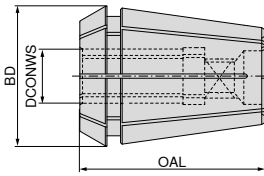
DCONWS mm	NEW		NEW		NEW		NEW		NEW		
	£		£		£		£		£		
		BD = 17 OAL = 27.5 426 E / ER16		BD = 21 OAL = 31.5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
		82 687 ...		82 688 ...		82 689 ...		82 690 ...		82 691 ...	
	Y8		Y8		Y8		Y8		Y8		
1	30.59	01000	31.62	01000							
2	30.59	02000	31.62	02000	32.83	02000					
3	24.87	03000	22.99	03000	24.64	03000	26.53	03000	33.48	03000	
4	24.87	04000	22.99	04000	24.64	04000	26.53	04000	33.48	04000	
5	24.87	05000	22.99	05000	24.64	05000	26.53	05000	33.48	05000	
6	24.87	06000	22.99	06000	24.64	06000	26.53	06000	33.48	06000	
7	24.87	07000	22.99	07000	24.64	07000	26.53	07000	33.48	07000	
8	24.87	08000	22.99	08000	24.64	08000	26.53	08000	33.48	08000	
9	24.87	09000	22.99	09000	24.64	09000	26.53	09000	33.48	09000	
10	24.87	10000	22.99	10000	24.64	10000	26.53	10000	33.48	10000	
11			22.99	11000	24.64	11000	26.53	11000	33.48	11000	
12			22.99	12000	24.64	12000	26.53	12000	33.48	12000	
13			22.99	13000	24.64	13000	26.53	13000	33.48	13000	
14					24.64	14000	26.53	14000	33.48	14000	
15					24.64	15000	26.53	15000	33.48	15000	
16					24.64	16000	26.53	16000	33.48	16000	
17							26.53	17000	33.48	17000	
18							26.53	18000	33.48	18000	
19							26.53	19000	33.48	19000	
20							26.53	20000	33.48	20000	
21									33.48	21000	
22									33.48	22000	
23									33.48	23000	
24									33.48	24000	
25									33.48	25000	
26									33.48	26000	
Set in plastic case		275.43	99900	295.76	99900	388.42	99900	476.68	99900	805.36	99900

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet with internal square

- ▲ Similar DIN ISO 15488-A (old DIN 6499-A)
- ▲ 8 times slotted
- ▲ Double taper collets for holding taps on synchronised spindle machines, without compensating lengths

ER-A
15 µm



DCONWS mm	NEW		NEW		NEW		NEW	
	£		£		£		£	
		BD = 16.7 OAL = 27.5 426 E / ER16		BD = 25.7 OAL = 34 430 E / ER25		BD = 32.7 OAL = 40 470 E / ER32		BD = 40.7 OAL = 46 472 E / ER40
		82 695 ...		82 692 ...		82 693 ...		82 694 ...
	Y8		Y8		Y8		Y8	
2.8	43.59	02800						
3.5	43.59	03500						
4.0	43.59	04000						
4.5	43.59	04500	65.13	04500	71.30	04500		
5.0	43.59	05000						
5.5	43.59	05500	65.13	05500	71.30	05500		
6.0	43.59	06000	65.13	06000	71.30	06000		
7.0	43.59	07000	65.13	07000	71.30	07000	85.28	07000
8.0	43.59	08000	65.13	08000	71.30	08000	85.28	08000
9.0	43.59	09000	65.13	09000	71.30	09000	85.28	09000
10.0			65.13	10000	71.30	10000	85.28	10000
11.0			65.13	11000	71.30	11000	85.28	11000
12.0			65.13	12000	71.30	12000	85.28	12000
14.0					71.30	14000	85.28	14000
16.0					71.30	16000	85.28	16000
18.0							85.28	18000
20.0							85.28	20000

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box

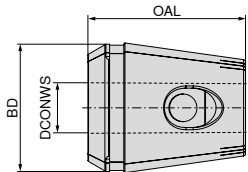


for collet	capacity	83 689 ...
		£
		Y8/3B
4004E (ER08)	9	36.69 008
426E (ER16)	10	41.47 116
428E (ER20)	11	65.79 020
4008E (ER11)	13	54.94 011
430E (ER25)	14	68.55 025
470E (ER32)	18	88.83 032
472E (ER40)	24	112.22 040

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

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

ER
5 μm



BD = 32.7
OAL = 40
ER 32

83 629 ...

DCONWS	mm	£	Y8
12		228.35	120
16		228.35	160



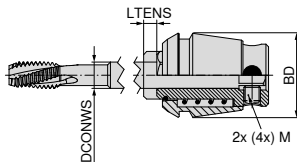
83 950 ...

Spare parts	DCONWS	CP 32	CP 32	£	Y8
	12			13.70	455
	16			13.70	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



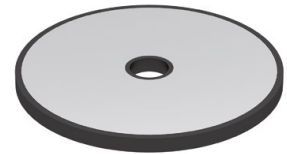
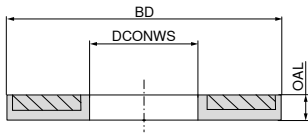
DCONWS mm	BD = 17 LTENS = 7 426 E / ER16		BD = 21 LTENS = 7 428 E / ER20		BD = 26 LTENS = 8 430 E / ER25		BD = 33 LTENS = 10 470 E / ER32		BD = 41 LTENS = 13 472 E / ER40	
	£		£		£		£		£	
	Y7		Y7		Y7		Y7		Y7	
2.2	289.09	022	289.09	022						
2.5	289.09	025	289.09	025	306.54	025				
2.8	289.09	028	289.09	028	306.54	028				
3.0	289.09	030	289.09	030	306.54	030				
3.5	289.09	035	289.09	035	306.54	035				
4.0	289.09	040	289.09	040	306.54	040				
4.5	289.09	045	289.09	045	306.54	045	326.27	045		
5.0							326.27	050		
5.5	289.09	055	289.09	055	306.54	055	326.27	055		
6.0	289.09	060	289.09	060	306.54	060	326.27	060	358.19	060
7.0			289.09	070	306.54	070	326.27	070	358.19	070
8.0					306.54	080	326.27	080	358.19	080
9.0					306.54	090	326.27	090	368.37	090
10.0					306.54	100	326.27	100	368.37	100
11.0							326.27	110	368.37	110
12.0							326.27	120	368.37	120
14.0									368.37	140
16.0									368.37	160



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

Sealing discs for precision collet chucks – Centro-P, ER-Standard and ER-Mini with thro' coolant

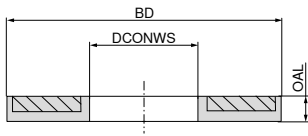
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



DCONWS mm	BD = 12.6 OAL = 2 426E (ER16)		BD = 15.8 OAL = 2 428E (ER20)		BD = 20.2 OAL = 2 430E (ER25)		BD = 26.2 OAL = 2 444E / OZ (ER32)		BD = 34.2 OAL = 2 472E (ER40)	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
1.0	36.67	010								
1.5	36.67	015								
2.0	33.38	020	37.50	020	33.38	020	40.62	020		
2.5	33.38	025	37.50	025	33.38	025	40.62	025		
3.0	31.77	030	28.99	030	31.77	030	33.07	030	39.61	030
3.5	31.77	035	28.99	035	31.77	035	33.07	035	39.61	035
4.0	31.77	040	28.99	040	31.77	040	33.07	040	39.61	040
4.5	31.77	045	28.99	045	31.77	045	33.07	045	39.61	045
5.0	31.77	050	28.99	050	31.77	050	33.07	050	39.61	050
5.5	31.77	055	28.99	055	31.77	055	33.07	055	39.61	055
6.0	31.77	060	28.99	060	31.77	060	33.07	060	39.61	060
6.5	31.77	065	28.99	065	31.77	065	33.07	065	39.61	065
7.0	31.77	070	28.99	070	31.77	070	33.07	070	39.61	070
7.5	31.77	075	28.99	075	31.77	075	33.07	075	39.61	075
8.0	31.77	080	28.99	080	31.77	080	33.07	080	39.61	080
8.5	31.77	085	28.99	085	31.77	085	33.07	085	39.61	085
9.0	31.77	090	28.99	090	31.77	090	33.07	090	39.61	090
9.5	31.77	095	28.99	095	31.77	095	33.07	095	39.61	095
10.0	31.77	100	28.99	100	31.77	100	33.07	100	39.61	100
10.5			28.99	105	31.77	105	33.07	105	39.61	105
11.0			28.99	110	31.77	110	33.07	110	39.61	110
11.5			28.99	115	31.77	115	33.07	115	39.61	115
12.0			28.99	120	31.77	120	33.07	120	39.61	120
12.5			28.99	125	31.77	125	33.07	125	39.61	125
13.0			28.99	130	31.77	130	33.07	130	39.61	130
13.5					31.77	135	33.07	135	39.61	135
14.0					31.77	140	33.07	140	39.61	140
14.5					31.77	145	33.07	145	39.61	145
15.0					31.77	150	33.07	150	39.61	150
15.5					31.77	155	33.07	155	39.61	155
16.0					31.77	160	33.07	160	39.61	160
16.5							33.07	165	39.61	165
17.0							33.07	170	39.61	170
17.5							33.07	175	39.61	175
18.0							33.07	180	39.61	180
18.5							33.07	185	39.61	185
19.0							33.07	190	39.61	190
19.5							33.07	195	39.61	195
20.0							33.07	200	39.61	200
20.5									39.61	205
21.0									39.61	210
21.5									39.61	215
22.0									39.61	220
22.5									39.61	225
23.0									39.61	230
23.5									39.61	235
24.0									39.61	240
24.5									39.61	245
25.0									39.61	250
25.5									39.61	255
26.0									39.61	260

Sealing rings for precision collet chucks – PCC

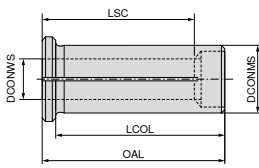
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	BD = 13 OAL = 4 426E (ER16)		BD = 21 OAL = 4 430E (ER25)		BD = 27 OAL = 4 470E (ER32)	
	£ Y8		£ Y8		£ Y8	
		82 630 ...		82 631 ...		82 632 ...
3.0	42.88	03000	42.88	03000	42.88	03000
3.5	42.88	03500	42.88	03500	42.88	03500
4.0	42.88	04000	42.88	04000	42.88	04000
4.5	42.88	04500	42.88	04500	42.88	04500
5.0	42.88	05000	42.88	05000	42.88	05000
5.5	42.88	05500	42.88	05500	42.88	05500
6.0	42.88	06000	42.88	06000	42.88	06000
6.5	42.88	06500	42.88	06500	42.88	06500
7.0	42.88	07000	42.88	07000	42.88	07000
7.5	42.88	07500	42.88	07500	42.88	07500
8.0	42.88	08000	42.88	08000	42.88	08000
8.5	42.88	08500	42.88	08500	42.88	08500
9.0	42.88	09000	42.88	09000	42.88	09000
9.5	42.88	09500	42.88	09500	42.88	09500
10.0	42.88	10000	42.88	10000	42.88	10000
10.5			42.88	10500	42.88	10500
11.0			42.88	11000	42.88	11000
11.5			42.88	11500	42.88	11500
12.0			42.88	12000	42.88	12000
12.5			42.88	12500	42.88	12500
13.0			42.88	13000	42.88	13000
13.5			42.88	13500	42.88	13500
14.0			42.88	14000	42.88	14000
14.5			42.88	14500	42.88	14500
15.0			42.88	15000	42.88	15000
15.5			42.88	15500	42.88	15500
16.0			42.88	16000	42.88	16000
16.5					42.88	16500
17.0					42.88	17000
17.5					42.88	17500
18.0					42.88	18000
18.5					42.88	18500
19.0					42.88	19000
19.5					42.88	19500
20.0					42.88	20000

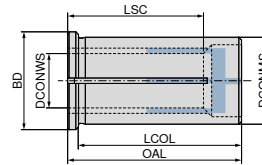
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



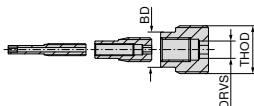
83 609 ...

DCONMS	DCONWS	OAL	LCOL	LSC	£	
mm	mm	mm	mm	mm	Y8	
12	3	40	36	29	286.38	103
12	4	40	36	29	286.38	104
12	5	40	36	29	286.38	105
12	6	40	36	36	286.38	106
12	8	40	36	37	286.38	108
20	3	54	50	28	269.00	203
20	4	54	50	28	269.00	204
20	5	54	50	28	269.00	205
20	6	54	50	36	208.98	206
20	8	54	50	37	208.98	208
20	10	54	50	40	208.98	210
20	12	54	50	45	208.98	212
20	14	54	50	45	208.98	214
20	16	54	50	48	208.98	216
25	6	60	56	37	219.39	256
25	8	60	56	37	219.39	258
25	10	60	56	40	219.39	260
25	12	60	56	46	219.39	262
25	14	60	56	47	219.39	264
25	16	60	56	48	219.39	266
25	18	60	56	48	219.39	268
25	20	60	56	50	219.39	270
32	6	64	60	36	269.00	306
32	8	64	60	36	269.00	308
32	10	64	60	40	269.00	310
32	12	64	60	45	269.00	312
32	14	64	60	46	269.00	314
32	16	64	60	48	269.00	316
32	18	64	60	49	269.00	318
32	20	64	60	50	269.00	320
32	25	64	60	56	269.00	325




83 611 ...

DCONMS	DCONWS	BD	OAL	LCOL	LSC	£	
mm	mm	mm	mm	mm	mm	Y8	
12	3	16	44	40	29	465.00	10300
12	4	16	44	40	29	465.00	10400
12	5	16	44	40	29	465.00	10500
12	6	16	44	40	36	465.00	10600
12	8	16	44	40	37	465.00	10800
20	3	25	54	50	28	292.64	20300
20	4	25	54	50	28	292.64	20400
20	5	25	54	50	28	292.64	20500
20	6	25	54	50	36	292.64	20600
20	8	25	54	50	37	292.64	20800
20	10	25	54	50	40	292.64	21000
20	12	25	54	50	45	292.64	21200
20	14	25	54	50	45	292.64	21400
20	16	25	54	50	48	292.64	21600
32	6	36	64	60	36	330.92	30600
32	8	36	64	60	36	330.92	30800
32	10	36	64	60	40	330.92	31000
32	12	36	64	60	45	330.92	31200
32	14	36	64	60	46	330.92	31400
32	16	36	64	60	48	330.92	31600
32	18	36	64	60	49	330.92	31800
32	20	36	64	60	50	330.92	32000
32	25	36	64	60	56	330.92	32500

Stop screw for use with reducing sleeves in hydraulic chuck



Adaptation for the use of stop screws for reducing sleeves

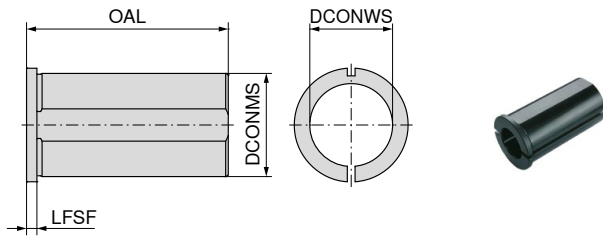
DCONMS in mm			
12		83 950 425	83 950 426
20	83 950 425	83 950 428	83 950 427
25	83 950 425	83 950 428	83 950 427
32		83 950 428	83 950 427

83 950 ...

THOD	BD	DRVS	£	
	mm	mm	Y7	
M4x0,5x26	2.8	2	25.16	425
M8x1x19	5.8	2,5	25.16	428
M10x1x16	5.8	3	25.16	426
M16x1x16	11.7	5	25.16	427

Slotted reduction sleeves

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

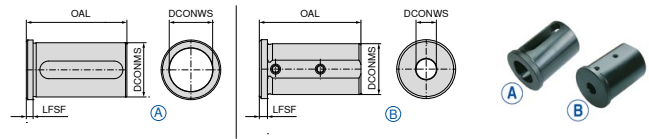


83 271 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	£ Y8	
20	6	30	4	130.58	206
20	8	30	4	102.80	208
20	10	30	4	102.80	210
20	12	30	4	102.80	212
20	15	30	4	102.80	215
20	16	30	4	102.80	216
25	6	40	4	146.83	256
25	8	40	4	109.55	258
25	10	40	4	109.55	260
25	12	40	4	109.55	262
25	15	40	4	117.02	265
25	16	40	4	109.55	266
25	20	40	4	109.55	270
32	6	50	4	141.81	326
32	8	50	4	109.55	328
32	10	50	4	109.55	330
32	12	50	4	109.55	332
32	15	50	4	109.55	335
32	16	50	4	109.55	336
32	20	50	4	109.55	340
40	10	78	4	132.03	410
40	12	78	4	132.03	412
40	15	78	4	132.03	415
40	16	78	4	132.03	416
40	20	78	4	132.03	420
40	25	78	4	132.03	425
40	32	78	4	132.03	432
50	20	88	4	177.20	520
50	25	88	4	177.20	525
50	32	88	4	177.20	532
50	40	88	4	177.20	540

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	£ Y8	
25	6	50	4	B	175.54	256
25	8	50	4	B	133.85	258
25	10	50	4	B	133.85	260
25	12	50	4	B	133.85	262
25	14	50	4	A	123.28	264
25	16	50	4	A	133.85	266
25	20	50	4	A	133.85	270
32	6	58	5	B	181.13	326
32	8	58	5	B	181.13	328
32	10	58	5	B	137.63	330
32	12	58	5	B	137.63	332
32	16	58	5	A	137.63	336
32	20	58	5	A	137.63	340
32	25	58	5	A	137.63	345
40	8	58	5	B	220.04	408
40	10	58	5	B	181.13	410
40	12	58	5	B	181.13	412
40	16	58	5	A	181.13	416
40	20	58	5	A	181.13	420
40	25	58	5	A	181.13	425
40	32	58	5	A	181.13	432
50	12	75	5	B	204.35	512
50	16	75	5	A	204.35	516
50	20	75	5	A	204.35	520
50	25	75	5	A	204.35	525
50	32	75	5	A	204.35	532
50	40	75	5	A	204.35	540

Taper wiper

▲ Version made from hard wood with felt inserts



		83 715 ...	
		£	
Adapter		Y8	
MK 1		14.91	001
MK 2		18.06	002
MK 3		23.24	003
MK 4		28.59	004
MK 5		40.74	005
HSK 32		98.50	320
HSK 40		107.03	400
HSK 50		108.60	500
HSK 63		103.11	630
HSK 80		163.92	800
HSK 100		156.86	100
SK 30		27.32	130
SK 40		32.32	140
SK 50		42.06	150

Assembly device for ISO adaptors

▲ Aluminium



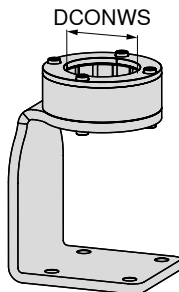
		80 720 ...	
		£	
Adapter		Y7	
SK 30		265.76	030
SK 40		265.76	040
SK 50		442.13	050

Assembly fixture for tool holders


▲ gripping by roller

▲ secure clamping

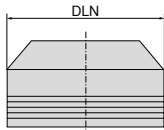
▲ quick assembly, no additional clamping necessary



		80 722 ...	
		£	
		Y7	
Holder Type	DCONWS mm		
HSK 32, PSC 32	32.0	383.66	032
HSK 40, PSC 40	40.0	383.66	040
MAS-BT 30	46.0	336.91	046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	336.91	050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	336.91	063
ISO 7388-1 - SK 50	97.5	670.44	097
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	670.44	100

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

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



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	30	80	72.00	001	96.95	011
430E (ER25)	2 - 16	40	90	80.00	003	108.06	013
470E (ER32)	2 - 20	50	180	88.00	005	115.55	015
472E (ER40)	3 - 26	63	200	128.02	007	158.03	017

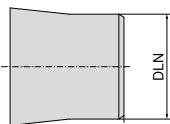
Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



84 950 ...

for collet	£ Y8	
4004E (ER08)	60.14	070
4008E (ER11)	84.59	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	100.56	031	119.03	033

Mini lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
4004E (ER08)	1 - 5	10	5 - 8	120.83	040		
4008E (ER11)	1 - 7	16	10	100.56	041		
4008E (ER11)	Ø 3,0	16	10	209.20	042 ¹⁾		
4008E (ER11)	Ø 4,0	16	10	209.20	043 ¹⁾		
4008E (ER11)	Ø 5,0	16	10	209.20	044 ¹⁾		
4008E (ER11)	Ø 6,0	16	10	209.20	045 ¹⁾		
4008E (ER11)	Ø 7,0	16	10	209.20	046 ¹⁾		
426E (ER16)	1 - 10	22	30	80.34	034		
426E (ER16)	1 - 10	22	28			97.92	035

1) directly sealed

Roll key

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



		84 950 ...		
for lock nut	DLN mm	£ Y8		
4004E / ER08 CP mini	10	355.31	050	1)
4008E / ER 11 CP mini	16	163.80	080	1)
426E / ER 16 CP / ER 16 mini	22	145.89	026	1)
426E / ER 16 CP Conical	24	163.80	082	2)
426E / ER 16 CP	30	145.89	027	
426E / ER 16 STD	32	145.89	028	
430E / ER 25 CP	40	171.03	054	
470E / ER 32 CP + STD	50	160.34	056	
470E / ER 32 HDC	53	194.88	30200	
472E / ER 40 CP + STD	63	182.64	057	

- 1) Special key for mini lock nuts
- 2) Key for tapered lock nuts

Torque key



		84 435 ...		
TQX Nm	Square mm	£ Y8		
5 - 30	9 x 12	301.80	030	
10 - 80	9 x 12	357.09	080	
20 - 200	14 x 18	364.67	200	

Additional roll key device for torque key

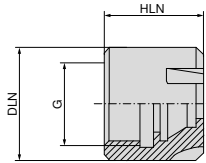
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



		84 950 ...			
for lock nut	DLN mm	TQX Nm	Square mm	£ Y8	
4008E / ER 11 CP mini	16	5 - 30	9 x 12	163.83	060 1)
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	145.89	170 1)
426E / ER 16 CP Conical	24	10 - 80	9 x 12	163.83	061 2)
426E / ER 16 CP	30	20 - 200	14 x 18	145.89	171
426E / ER 16 STD	32	20 - 200	14 x 18	145.89	172
430E / ER 25 CP	40	20 - 200	14 x 18	163.83	065
470E / ER 32 CP + STD	50	20 - 200	14 x 18	163.83	067
470E / ER 32 HDC	53	20 - 200	14 x 18	194.88	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	163.83	068

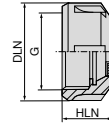
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



					62 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7	
4004E (ER08)	M10x0,75	12	11.0	8	74.48	067
4008E (ER11)	M13x0,75	16	12.0	18	66.89	065
426E (ER16)	M19x1	22	18.0	28	46.66	066
428E (ER20)	M24x1	28	19.5	35	74.08	068
430E (ER25)	M30x1	35	21.0	40	74.08	069

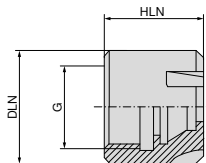
ER Lock nut



for seals

				62 950 ...		83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	£ W7		£ Y8	
426E (ER16)	M22x1,5	32	17.0	26.90	054		
426E (ER16)	M22x1,5	32	22.0			87.05	054
428E (ER20)	M25x1,5	35	23.2			98.88	053
430E (ER25)	M32x1,5	42	20.0	28.01	055		
430E (ER25)	M32x1,5	42	24.7			101.40	055
470E (ER32)	M40x1,5	50	22.3	35.87	65600		
470E (ER32)	M40x1,5	50	27.0			108.45	056
472E (ER40)	M50x1,5	63	25.3	34.86	65700		
472E (ER40)	M50x1,5	63	30.7			130.50	057

Mini ER lock nut for sealing rings



for seals

					83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ Y8	
426E (ER16-DS)	M19x1	22	22.0	28	112.26	058
428E (ER20-DS)	M24x1	28	23.2	35	114.35	059
430E (ER25-DS)	M30x1	35	24.7	40	120.54	060

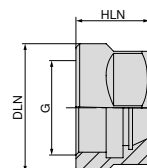
Y clamping key



		83 357 ...	
for lock nut		£ Y8	
ER 16		29.58	116
ER 20		42.89	12000
ER 25		29.58	125
ER 32		43.08	132
ER 40		48.80	140

ER Lock nut

▲ DRVS = Drive size



ER Mini clamping key

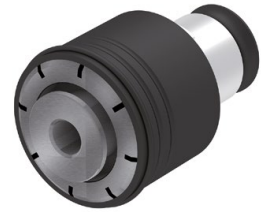
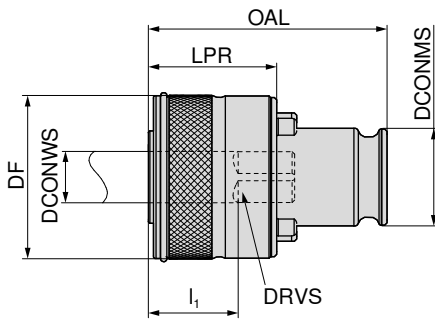


					83 950 ...	
for collet					£ Y8	
4004E (ER08)					44.43	099
4008E (ER11)					44.43	100
426E (ER16)					49.71	101
428E (ER20)					46.65	102
430E (ER25)					46.65	103

				62 950 ...		
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	£ W7	
426E (ER16)	M22x1,5	25	28	18.0	33.81	044
428E (ER20)	M25x1,5	30	34	19.5	27.26	045

Quick change tap adapter with overload clutch

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

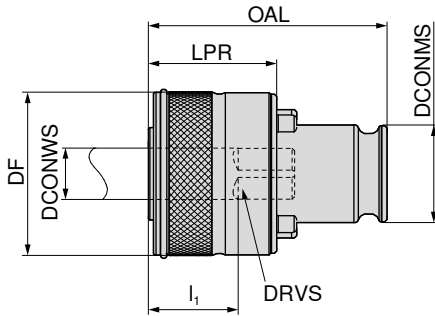


83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR	83 612 ...	
										£	
	mm	mm			mm	mm	mm	mm	mm	Y8	
01	2.8	2.1	M2		33	19	46.5	17	25	133.50	100
01	2.8	2.1	M2,5		33	19	46.5	17	25	133.50	101
01	3.5	2.7	M3		33	19	46.5	17	25	133.50	102
01	4.0	3.0	M3,5		33	19	46.5	17	25	133.50	103
01	4.5	3.4	M4		33	19	46.5	17	25	133.50	104
01	6.0	4.9	M4,5		33	19	46.5	17	25	133.50	105
01	6.0	4.9	M5		33	19	46.5	17	25	133.50	106
01	4.5	3.4		M6	33	19	46.5	17	25	133.50	107
01	6.0	4.9	M6		33	19	46.5	17	25	133.50	108
01	5.5	4.3		M7	33	19	46.5	17	25	133.50	109
01	7.0	5.5	M7		33	19	46.5	17	25	133.50	110
01	6.0	4.9		M8	33	19	46.5	17	25	133.50	111
01	8.0	6.2	M8		33	19	46.5	17	25	133.50	112
01	9.0	7.0	M9		33	19	46.5	17	25	133.50	113
01	7.0	5.5		M10	33	19	46.5	17	25	133.50	114
01	10.0	8.0	M10		33	19	46.5	17	25	133.50	115
01	8.0	6.2		M11	33	19	46.5	17	25	133.50	116
01	9.0	7.0		M12	33	19	46.5	17	25	133.50	117
02	6.0	4.9	M4,5 - M6		50	31	69.0	30	34	174.76	200
02	6.0	4.9	M7 (DIN 352)		50	31	69.0	30	34	174.76	201
02	7.0	5.5	M7		50	31	69.0	30	34	174.76	202
02	6.0	4.9		M8	50	31	69.0	30	34	174.76	203
02	8.0	6.2	M8		50	31	69.0	30	34	174.76	204
02	9.0	7.0	M9		50	31	69.0	30	34	174.76	205
02	7.0	5.5		M10	50	31	69.0	30	34	174.76	206
02	10.0	8.0	M10		50	31	69.0	30	34	174.76	207
02	8.0	6.2		M11	50	31	69.0	30	34	174.76	208
02	9.0	7.0		M12	50	31	69.0	30	34	174.76	209
02	11.0	9.0		M14	50	31	69.0	30	34	174.76	210
02	12.0	9.0		M16	50	31	69.0	30	34	174.76	211
02	14.0	11.0		M18	50	31	69.0	30	34	174.76	212
02	16.0	12.0		M20	50	31	69.0	30	34	174.76	213

Quick change tap adapter with overload clutch, with through coolant

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

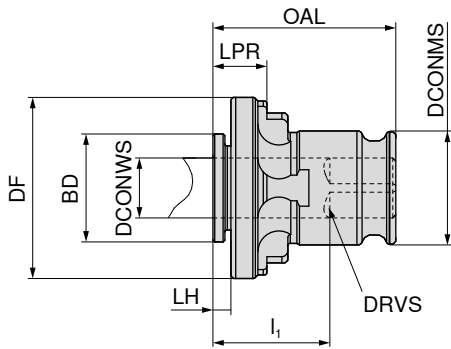


83 616 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	83 616 ...	
										£	Y8
01	3.5	2.7	M3	M4,5 - M5	33	19	46.5	17	25	222.36	100
01	4.5	3.4	M4	M6	33	19	46.5	17	25	222.36	102
01	5.5	4.3		M7	33	19	46.5	17	25	222.36	104
01	6.0	4.9	M4,5 - M6	M8	33	19	46.5	17	25	222.36	106
01	7.0	5.5	M7	M10	33	19	46.5	17	25	222.36	108
01	8.0	6.2	M8	M11	33	19	46.5	17	25	222.36	110
01	9.0	7.0	M9	M12	33	19	46.5	17	25	222.36	112
01	10.0	8.0	M10		33	19	46.5	17	25	222.36	114
01	11.0	9.0		M14	33	19	46.5	17	25	222.36	116
02	6.0	4.9	M4,5 - M6	M8	50	31	69.0	30	34	269.94	200
02	7.0	5.5	M7	M10	50	31	69.0	30	34	269.94	202
02	8.0	6.2	M8	M11	50	31	69.0	30	34	269.94	204
02	9.0	7.0	M9	M12	50	31	69.0	30	34	269.94	206
02	10.0	8.0	M10		50	31	69.0	30	34	269.94	208
02	11.0	9.0		M14	50	31	69.0	30	34	269.94	210
02	12.0	9.0	M12	M16	50	31	69.0	30	34	269.94	212
02	14.0	11.0		M18	50	31	69.0	30	34	269.94	214
02	16.0	12.0		M20	50	31	69.0	30	34	269.94	216

Quick change tap adapter

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

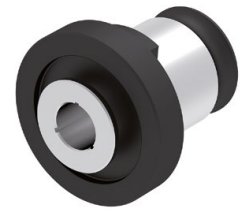
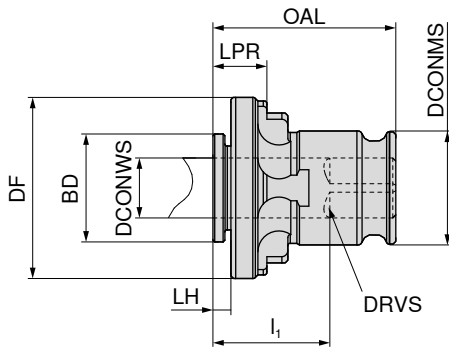


83 610 ...

SZID	DCONWS mm	BD mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LH mm	I ₁ mm	LPR mm	83 610 ...	
												£	
01	3.5	18	2.7	M3		30.2	19	31	3.5	17	9.5	51.10	100
01	4.5	18	3.4	M4		30.2	19	31	3.5	17	9.5	51.10	101
01	4.0	18	3.0	M3,5		30.2	19	31	3.5	17	9.5	51.10	102
01	2.8	18	2.1	M2 - M2,6		30.2	19	31	3.5	17	9.5	51.10	103
01	5.5	18	4.3		M7	30.2	19	31	3.5	17	9.5	51.10	104
01	6.0	18	4.9	M4,5 - M6	M8	30.2	19	31	3.5	17	9.5	51.10	105
01	7.0	18	5.5	M7	M10	30.2	19	31	3.5	17	9.5	51.10	106
01	8.0	18	6.2	M8	M11	30.2	19	31	3.5	17	9.5	51.10	107
01	9.0	18	7.0	M9	M12	30.2	19	31	3.5	17	9.5	51.10	108
01	10.0	18	8.0	M10		30.2	19	31	3.5	17	9.5	51.10	109
01	11.0	18	9.0		M14	30.2	19	31	3.5	17	9.5	51.10	110
02	6.0	26	4.9	M4,5 - M6		46.3	31	46	2.5	30	11.0	70.27	200
02	7.0	26	5.5	M7		46.3	31	46	2.5	30	11.0	70.27	201
02	8.0	26	6.2	M8		46.3	31	46	2.5	30	11.0	70.27	202
02	9.0	26	7.0	M9		46.3	31	46	2.5	30	11.0	70.27	203
02	10.0	26	8.0	M10		46.3	31	46	2.5	30	11.0	70.27	204
02	11.0	26	9.0		M14	46.3	31	46	2.5	30	11.0	70.27	205
02	12.0	26	9.0		M16	46.3	31	46	2.5	30	11.0	70.27	206
02	14.0	26	11.0		M18	46.3	31	46	2.5	30	11.0	70.27	207
02	16.0	26	12.0		M20	46.3	31	46	2.5	30	11.0	70.27	208
02	18.0	26	14.5		M22 - M24	46.3	31	46	2.5	30	11.0	70.27	209

Quick change tap adapter, with through coolant

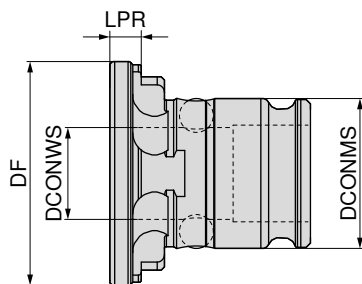
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS mm	BD mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LH mm	I ₁ mm	LPR mm	83 614 ...	
												£	
01	3.5	18	2.7		M4,5 - M5	30.2	19	31	3.5	17	9.5	101.99	100
01	4.5	18	3.4	M4	M6	30.2	19	31	3.5	17	9.5	101.99	102
01	5.5	18	4.3		M7	30.2	19	31	3.5	17	9.5	101.99	104
01	6.0	18	4.9	M4,5 - M6	M8	30.2	19	31	3.5	17	9.5	101.99	106
01	7.0	18	5.5	M7	M10	30.2	19	31	3.5	17	9.5	101.99	108
01	8.0	18	6.2	M8	M11	30.2	19	31	3.5	17	9.5	101.99	110
01	9.0	18	7.0	M9	M12	30.2	19	31	3.5	17	9.5	101.99	112
01	10.0	18	8.0	M10		30.2	19	31	3.5	17	9.5	101.99	114
02	6.0	26	4.9	M4,5 - M6	M8	46.3	31	46	2.5	30	11.0	133.50	200
02	7.0	26	5.5	M7	M10	46.3	31	46	2.5	30	11.0	133.50	202
02	8.0	26	6.2	M8	M11	46.3	31	46	2.5	30	11.0	133.50	204
02	9.0	26	7.0	M9	M12	46.3	31	46	2.5	30	11.0	133.50	206
02	10.0	26	8.0	M10		46.3	31	46	2.5	30	11.0	133.50	208
02	11.0	26	9.0		M14	46.3	31	46	2.5	30	11.0	133.50	210
02	12.0	26	9.0	M12	M16	46.3	31	46	2.5	30	11.0	133.50	212
02	14.0	26	11.0		M18	46.3	31	46	2.5	30	11.0	133.50	214
02	16.0	26	12.0		M20	46.3	31	46	2.5	30	11.0	133.50	216

Reducing adapter for quick change adapters

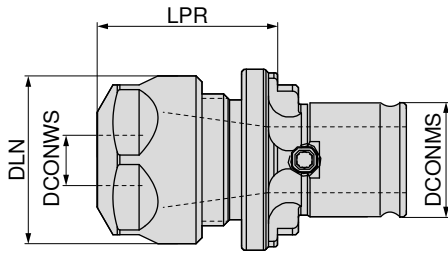
- ▲ Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.



SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	83 624 ...	
					£	
02	46	31	19	8.5	157.33	200

Quick change tap adapters

▲ Adaptors for collets ER 16 / ER 25



SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet
01	1 - 10	28	19	29.5	ER 16
02	2 - 16	42	31	38.5	ER 25

83 618 ...

£

Y8

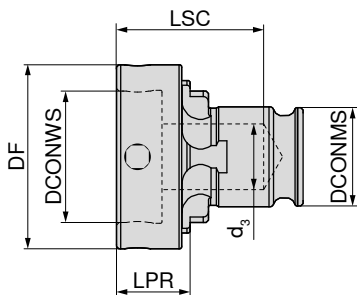
215.97 010 ¹⁾

304.55 016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



SZID	for size	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
01	16 x 5	25	19	16	9	12.5	23
01	20 x 5	30	19	20	9	12.5	23
01	20 x 7	30	19	20	11	12.5	25
01	25 x 9	35	19	25	14	12.5	28
01	38 x 10	48	19	38	15	14.2	29
01	30 x 11	40	19	30	16	12.5	30
01	38 x 14	48	19	38	19	14.2	33
02	20 x 5	30	31	20	22	15.0	57
02	20 x 7	30	31	20	22	15.0	57
02	25 x 9	35	31	35	22	15.0	57
02	38 x 10	48	31	38	22	22.0	57
02	30 x 11	40	31	30	22	22.0	57
02	38 x 14	48	31	38	25	22.0	60
02	45 x 14	57	31	45	29	22.0	64
02	45 x 18	57	31	45	29	22.0	64

83 622 ...

£

Y8

219.04 116

293.23 120

204.17 121

293.23 125

293.23 138

293.23 130

204.17 139

307.86 220

286.77 221

286.77 225

307.86 238

286.77 230

286.77 239

307.86 245

286.77 246

MultiChange – Spanner

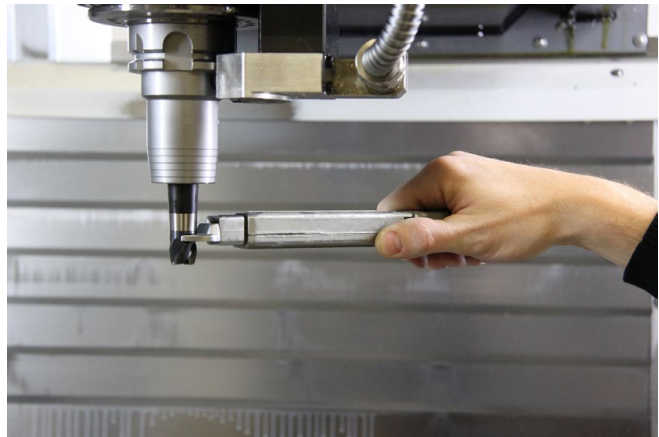


84 357 ...		£	
DRVS mm	TQX Nm	Y8	
6	5	14.49	006
8	12,5	14.93	008
10	15	16.77	010
13	20	18.15	013
16	25	24.43	016
19	25	36.10	019 ¹⁾
21	25	39.51	021 ¹⁾
24	25	41.62	024 ¹⁾

1) only for MultiChange reamers

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ Cleaning of cone and thread face of the holder
- ▲ Cleaning of cone, thread and face of the holders
- ▲ Cutter head screwed clockwise by hand into the holder (be careful if using gloves)
- ▲ Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- ▲ The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area

MultiChange – Spanner Head




84 358 ...				£	
DRVS mm	TQX Nm	Square mm		Y8	
6	5	9 x 12		104.59	006
8	12,5	9 x 12		104.59	008
10	15	9 x 12		104.59	010
13	20	9 x 12		104.59	013
16	25	9 x 12		104.59	016
19	25	9 x 12		167.76	190
19	25	14 x 18		210.87	019 ¹⁾
21	25	9 x 12		234.56	210
21	25	14 x 18		256.96	021 ¹⁾
24	25	9 x 12		234.56	240
24	25	14 x 18		256.96	024 ¹⁾

1) only for MultiChange reamers



Important for the sensitive tuning is an additional placing of the hand on the exchange milling head. This means the torque can be better maintained.

 Suitable torque keys can be found on → **Page 286.**

TORX® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05	35	0,5	8.08	082
T06	35	0,9	8.18	083
T07	35	1,7	8.18	084
T08	40	2,6	8.18	085
T09	40	3,4	8.85	086
T10	40	4,5	8.85	087
T15	45	7,7	9.32	088
T20	45	12,7	10.19	089

TORX® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06, T07, T08, T09, T10, T15, T20	76.72	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05-IP	35	0,5	10.21	057
T06-IP	35	0,9	10.21	058
T07-IP	35	1,7	10.00	059
T08-IP	40	2,6	11.07	060
T09-IP	40	3,4	10.85	061
T10-IP	40	4,5	10.85	062
T15-IP	45	7,7	11.44	063
T20-IP	45	12,7	12.73	064

TORX PLUS® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	119.57	091

Allen key with cross handle



DRVS mm	TQX Nm	80 397 ...	
		£ Y7	
2	1,9	6.37	020
2,5	3,8	6.61	025
3	6,6	6.37	030
4	16	6.37	040
5	30	8.11	050
6	52	7.96	060
8	120	9.89	080
10	220	16.50	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	96.33	99900

TORX® Screwdriver



		80 950 ...	
Size	LB mm	£ Y7	
T06	60	11.15	100
T07	60	11.15	101
T08	60	11.15	102
T09	60	12.00	103
T10	80	12.11	104
T15	80	12.47	105
T20	100	12.80	106
T25	100	13.95	107
T30	115	14.84	092

TORX PLUS® Screwdriver



		80 950 ...	
Size	LB mm	£ Y7	
T06-IP	60	14.22	116
T07-IP	60	13.95	117
T08-IP	60	11.62	039
T09-IP	60	15.06	118
T10-IP	80	15.63	119
T15-IP	80	16.05	120
T20-IP	100	17.19	121
T25-IP	100	17.97	122

TORX® MagicSpring®



		80 950 ...	
Size	LB mm	£ Y7	
MS T06	60	14.85	108
MS T07	60	13.73	109
MS T08	60	13.73	110
MS T09	60	15.63	111
MS T10	80	16.05	112
MS T15	80	16.32	113
MS T20	100	17.48	114
MS T25	100	17.97	115
MS T30	100	18.84	131

TORX PLUS® MagicSpring®



		80 950 ...	
Size	LB mm	£ Y7	
MS T06-IP	60	18.22	123
MS T07-IP	60	17.97	124
MS T08-IP	60	17.97	125
MS T09-IP	60	19.68	126
MS T10-IP	80	20.40	127
MS T15-IP	80	21.01	128
MS T20-IP	100	22.06	129



A stainless steel spring holds MagicSpring® Torx® and Torx Plus® screws in place.



TorqueFix® Handle

- ▲ with fixed torque moment
- ▲ Standard: EN ISO 6798, BS EN 26789, ASME B107.14M
- ▲ Accuracy: ± 6 %, based on national standards
- ▲ Bits to be clamped in the universal holder only



		80 021 ...	
TQX Nm		£ Y7	
0,4		124.23	00400
0,5		124.23	00500
0,6		156.74	006
0,7		137.63	007
0,8		140.73	008
0,9		124.23	00900
1		140.73	010
1,1		123.10	01100
1,2		155.19	012
1,5		123.10	01500
1,6		155.19	016
2		155.19	020
2,5		123.10	02500
3		164.05	030
3,2		164.05	032
3,8		130.03	03800
4		164.05	040
5		164.05	050
5,5		184.09	055
6		184.09	060
7,2		145.27	07200

easyTorque® Handle

- ▲ with a fixed torque
- ▲ Accuracy: ± 10%
- ▲ Bits can only be clamped in the universal holder



					NEW	
					80 024 ...	
TQX Nm	DRVS mm	BD mm	OAL mm	WT kg	£ Y7	
0,5	4	34	130	0.950	81.82	00500
0,6	4	34	130	0.950	81.82	00600
0,9	4	34	130	0.940	81.82	00900
1,1	4	34	130	0.101	81.82	01100
1,2	4	34	130	0.990	81.82	01200
1,4	4	34	130	0.101	81.82	01400
2,0	4	34	130	0.101	86.02	02000
2,5	4	34	130	0.106	86.02	02500
3,0	4	34	130	0.104	86.02	03000
3,8	4	34	130	0.105	86.02	03800
4,0	4	34	130	0.105	88.12	04000
4,5	4	34	130	0.105	88.12	04500
5,0	4	34	130	0.105	88.12	05000

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: ± 6%, traceable to national standards

Scope of supply:
incl. Plastic box and inspection report



		80 392 ...	
TQX Nm	DRVS mm	£ Y7	
0,5	4	98.63	00500
0,6	4	98.63	00600
0,9	4	98.63	00900
1,1	4	98.63	01100
1,2	4	98.63	01200
1,4	4	98.63	01400
2,0	4	98.63	02000
2,5	4	98.63	02500
3,0	4	98.63	03000
3,8	4	98.63	03800
4,0	4	98.63	04000

TorqueVario®-S

- ▲ Patented handle

Scope of supply:
incl. Torque-Setter setting tool



		80 950 ...	
TQX Nm		£ Y7	
0,4 - 1,0		218.70	046
0,5 - 2,0		217.91	191
0,8 - 5,0		205.52	192
2,0 - 7,0		244.07	193

Universal holder for Bits

- ▲ 162 mm long



		80 950 ...	
for		£ Y7	
DIN3126-C/E 6,3-1/4"		13.49	014

Interchangeable blade for hex drive



Size	TQX Nm	short 75 mm		long 175 mm	
		£ Y7	80 393 ...	£ Y7	80 950 ...
SW1,5	0,9	8.06	01500	11.95	151
SW2	1,8	8.06	02000	11.95	152
SW2,5	3,8	8.06	02500	11.95	153
SW3	5,5	8.06	03000	11.95	154
SW4	8,0	8.06	04000	11.95	155

Replaceable Blade for TORX®



Size	TQX Nm	short 75 mm		long 175 mm	
		£ Y7	80 394 ...	£ Y7	80 950 ...
T05	0,4			9.66	048
T06	0,6	8.06	00600	8.91	031
T07	0,9	8.06	00700	8.91	032
T08	1,3	8.06	00800	8.91	033
T09	2,5	8.06	00900	8.91	034
T10	3,8	8.06	01000	8.91	035
T15	5,5	8.06	01500	8.91	036
T20	8,0	8.06	02000	8.91	037
T25	8,0	8.06	02500	8.91	038

Replaceable Blade for TORX PLUS®



Size	TQX Nm	long 175 mm	
		£ Y7	80 950 ...
T05-IP	0,5	8.91	049
T06-IP	0,8	8.91	050
T07-IP	1,3	8.91	051
T08-IP	2,0	8.91	043
T09-IP	3,0	8.91	052
T10-IP	4,5	8.91	053
T15-IP	6,6	8.91	054
T20-IP	8,0	8.91	055
T25-IP	8,0	8.91	056



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → Page 296.

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → Page 296.

TORX® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T06	0,9	1.96	015
T07	1,7	1.96	016
T08	2,6	1.96	017
T09	3,4	1.96	018
T10	4,5	1.96	019
T15	7,7	1.96	020
T20	12,7	1.96	021
T25	19	1.96	022
T30	37,4	1.66	093

TORX® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T06	0,9	6.27	023
T07	1,7	6.27	024
T08	2,6	6.27	025
T09	3,4	6.27	026
T10	4,5	6.27	027
T15	7,7	6.27	028
T20	12,7	6.27	029
T25	19	6.27	030
T30	37,4	7.63	094

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T08-IP	2,6	4.71	068
T09-IP	3,4	4.71	069
T10-IP	4,5	4.71	070
T15-IP	7,7	4.71	071
T20-IP	12,7	4.71	072
T25-IP	19	4.71	073

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T08-IP	2,6	9.55	040
T09-IP	3,4	9.38	077
T10-IP	4,5	9.38	078
T15-IP	7,7	9.38	079
T20-IP	12,7	9.38	080
T25-IP	19	9.38	081

Bit – hexagonal (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	80 398 ...	
	£ Y7	
SW1,5	8.15	01500
SW2	8.15	02000
SW2,5	8.15	02500
SW3	7.41	03000
SW3,5	8.22	03500
SW4	6.08	04000
SW4,5	8.22	04500
SW5	7.41	05000
SW6	6.08	06000
SW8	12.80	08000

TORX PLUS® Allen key



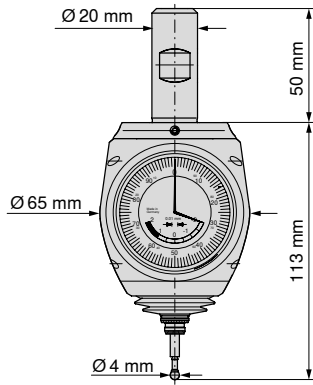
Size	OAL mm	80 951 ...	
		£ Y7	
T07-IP	44	9.86	00700
T08-IP	47	9.86	00800
T09-IP	51	9.86	00900
T10-IP	54	10.08	01000
T15-IP	58	10.18	01500
T20-IP	62	10.84	02000
T25-IP	67	11.39	02500
T27-IP	73	11.84	02700
T30-IP	79	12.77	03000
T40-IP	88	14.56	04000

Universal 3D-tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

£
XX
420.01 100

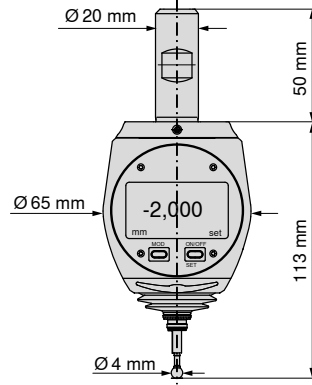
Universal-3D-Tester

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
955.84 100

Digital 3D Tester

Zero height setting gauge

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

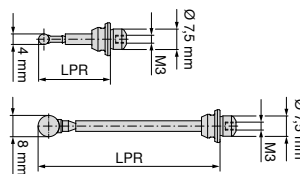


85 900 ...

OAH	£	Y7	
mm			
100		280.17	018

Stylus for 3D-tester

- ▲ With movement of 2 mm beyond the zero point a break-off ceramic insert prevents damage to the unit
- ▲ If the stylus is broken remove and insert a new stylus
- ▲ Check concentricity and adjust if necessary



85 290 ...

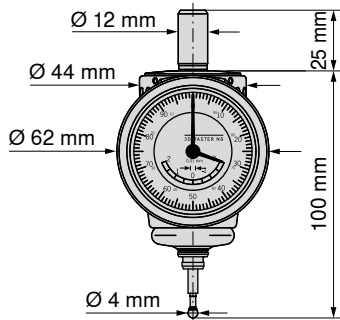
LPR	£	XX	
mm			
25		32.96	102
65		70.23	104

Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

£
XX
440.00 100

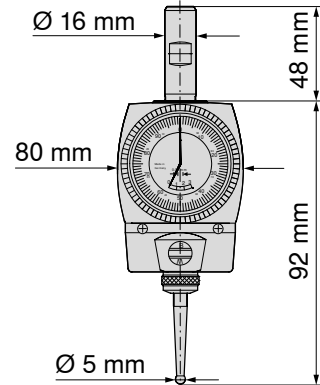
Universal 3D-Tester HQ

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
554.40 100

Centre finder



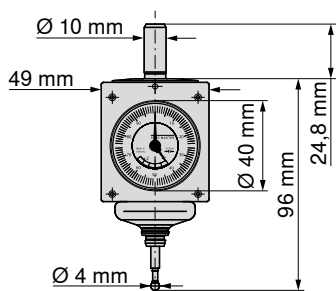
Range with probe tip Ø 5 mm holes
Ø 6–125 mm, shaft Ø 0–125 mm

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

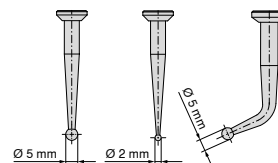


85 295 ...

£
XX
420.01 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

£
XX
42.00 102
41.20 104
50.41 106

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

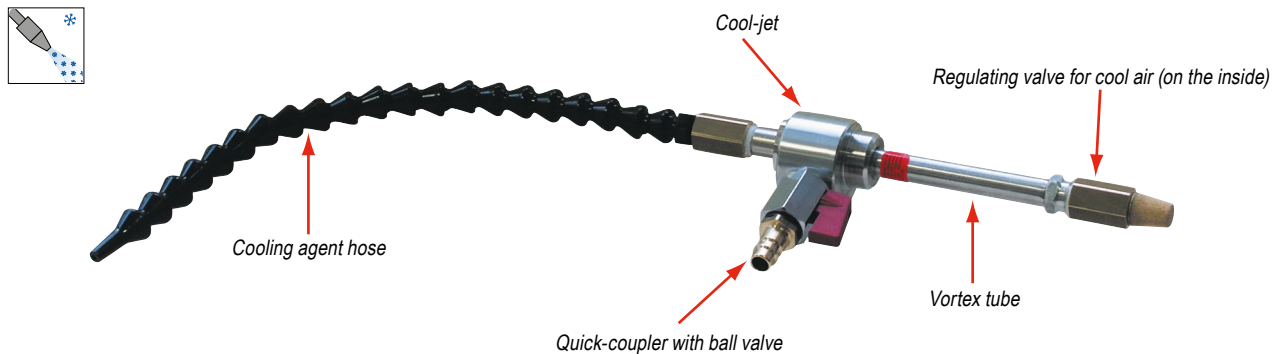
£
XX
16.49 111

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.



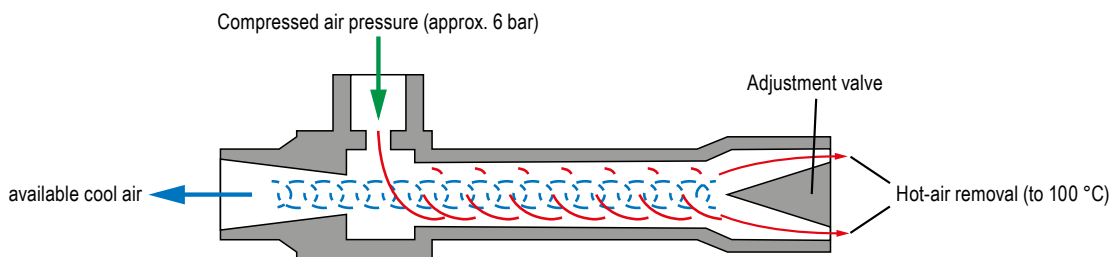
Cool-jet		81 900 ...	Accessories		81 900 ...
		£			£
		Y7			Y7
3–7 bar air pressure, at -46 °C		1,605.40	Magnetic plate Ø 80 mm without clamping arm		85.96
		100	Spare tube, length 300 mm		85.96
			Jet silencer (air filter)		18.05
			Clamping arm, length 75 mm		253.63
			Complete set (with magnetic set and clamping arm), weight 0,4 kg		334.69
					107

Technical description – operating instruction


The principle of the cold-air nozzle is based on the use of vortex tubes. Ordinary air is divided into cold and hot air streams.

Without additional power supply or moving parts the cool air nozzle can produce **cooling performance of up to 733 W** or **Temperatures of approx. -42 °C** are produced and requires only operating pressure air of approx. 6 bar.

A water trap or service unit should be mounted. A regulating valve in the hot-air outlet regulates the temperatures and currents



1 Utilizable air temperature measured at the effective discharge of the vortex tube (not the nozzle end)

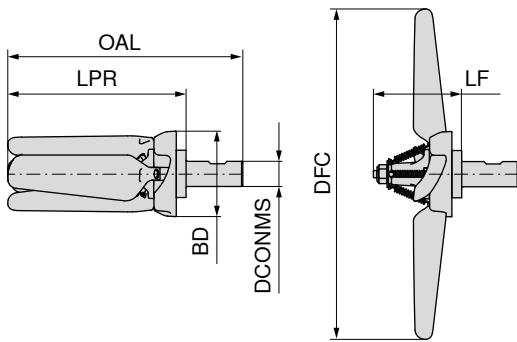
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

Entrance pressure	3 bar	-31 °C	up to	-6 °C
	4 bar	-35 °C	up to	-8 °C
	5 bar	-39 °C	up to	-10 °C
	6 bar	-42 °C	up to	-11 °C
	7 bar	-46 °C	up to	-13 °C

1 In order to operate the regulating valve, the silencer must be unscrewed – there is a burn danger! The valve of the hot air side can reach up to 100 °C: Before contact, allow cooling!

Cleaning propeller – large

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



IK central

80 399 ...

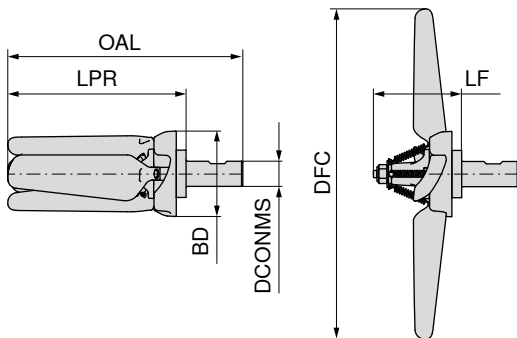
£
Y7

571.13 02000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	186.3	141.3	69.75	254	67.68	5000 - 8000

Cleaning propeller – small

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



IK central

80 399 ...

£
Y7

459.13 16000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	135	90	70	160	68	6000 - 12000

Rotor blade kit



1 rotary blade
and 1 tension
spring

4 rotary blades
and 4 tension
springs

80 399 ...

80 399 ...

Size	£ Y7	30100	£ Y7	30200
Large	70.06	30100	270.78	30200
Small	48.33	36000	193.32	46000

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



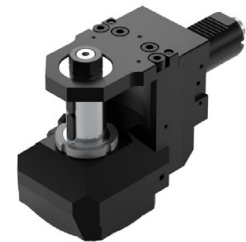
Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- | | | | |
|--------------|-----------|----------------------|-----------------|
| ▲ Sauter | ▲ DIN1809 | ▲ Baruffaldi Toem | milling |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | ▲ BMT (bolt on) |
| ▲ Duplomatic | ▲ 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 → cutting.tools/en/download

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options! With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

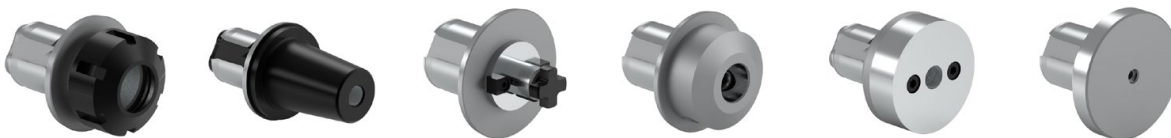
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



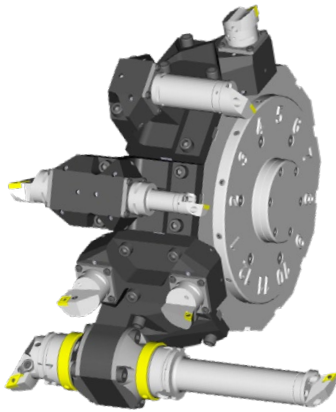
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



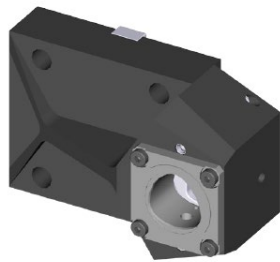
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and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

Quick-Change

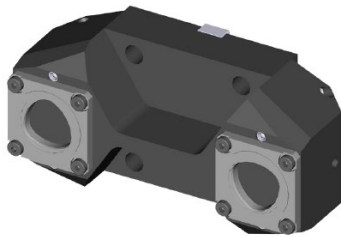


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

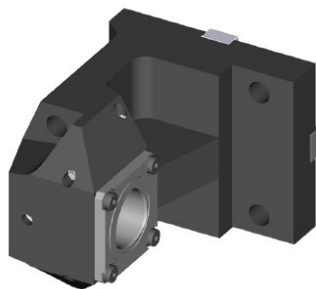
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



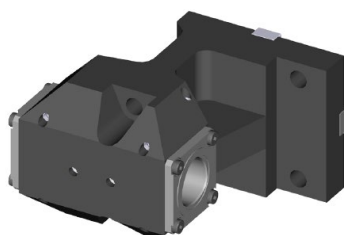
Tool holder single and straight



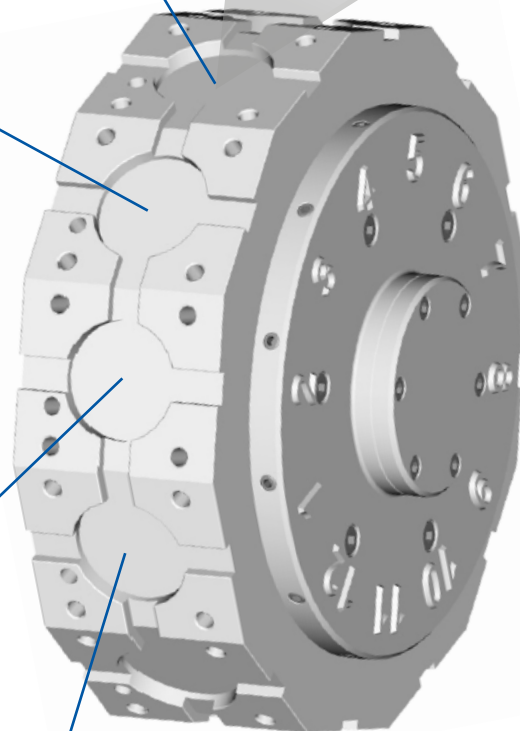
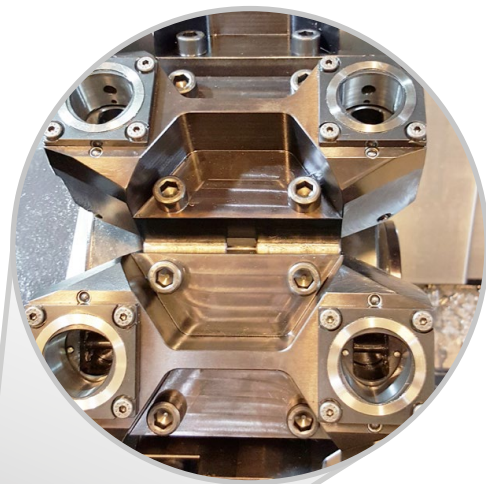
Tool holder double and straight



Single angle tool holder



Double angle tool holder

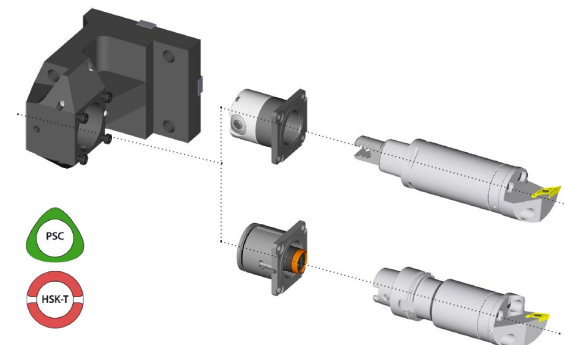


Revolverdisk BMT/VDI/...

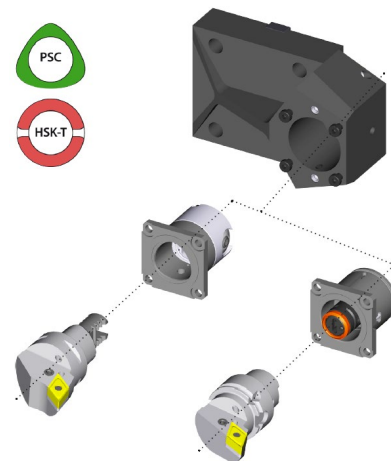
HSK/PSC clamping units

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

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

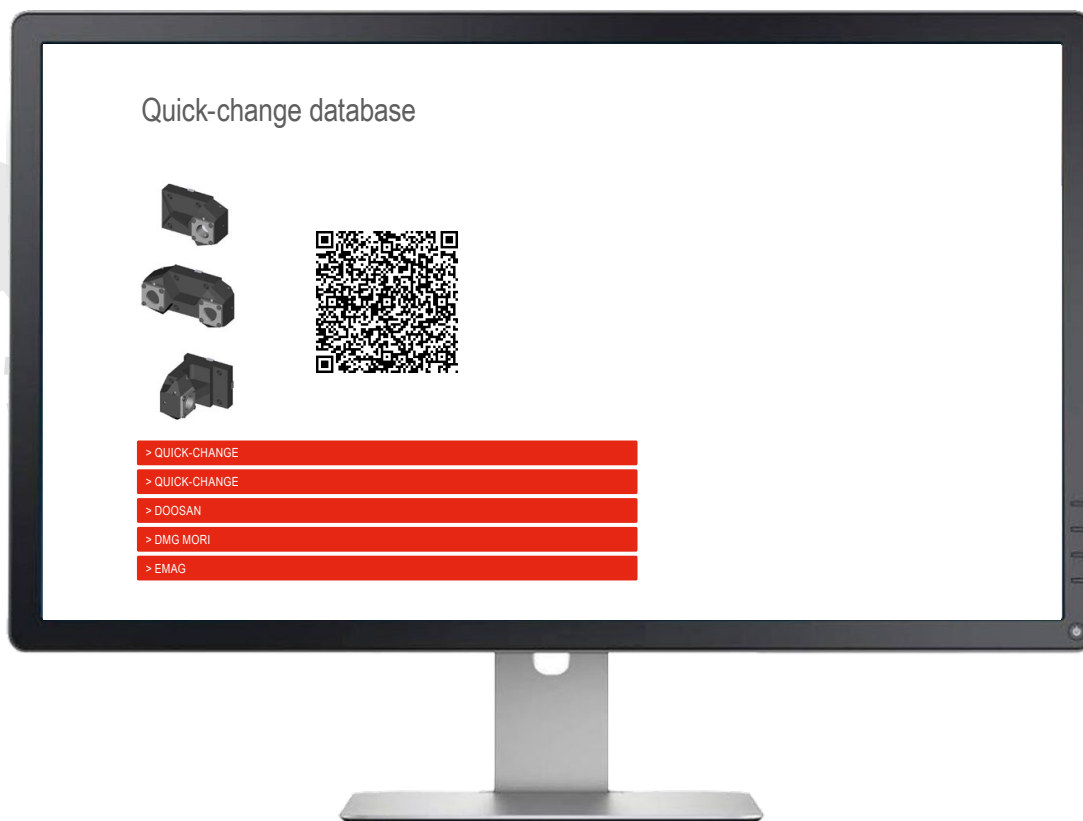


➤ The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



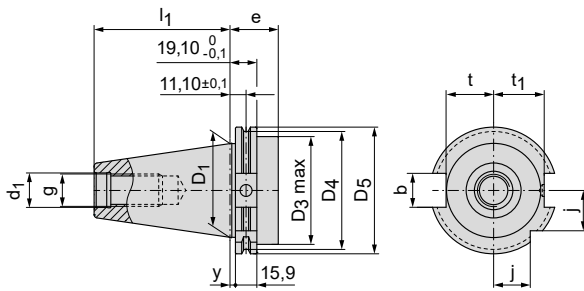
Information on enquiry process

To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process. Please fill in this form carefully and send it to us by email or fax. → cutting.tools/gb/download-quickchange

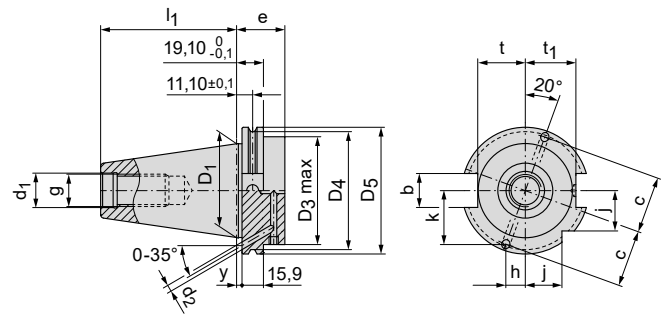
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

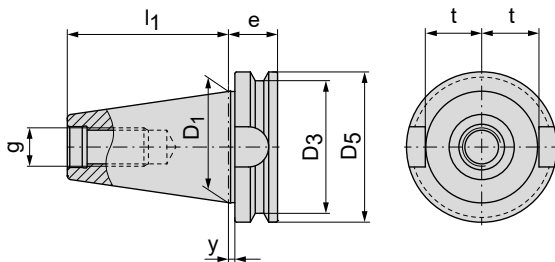


ISO 7388-1 – 871 Form B



	D ₁ mm	D _{3 max} mm	D ₄ mm	D ₅ mm	l ₁ ^{+0.2} mm	g	d ₁ ^{H7} mm	e mm	y ^{±0.1} mm	t mm	t ₁ mm	j mm	d ₂ mm	h mm	k mm	c mm	b mm	
SK 30	31,75	45	44,30	50	47,8	M 12	13	35	3,2	16,4	19	15						16,1
SK 40	44,45	50	56,25	63,55	68,4	M 16	17	35	3,2	22,8	25	18,5	4	9,2	25,4	27		16,1
SK 50	69,85	80	91,25	97,5	101,75	M 24	25	35	3,2	35,5	37,7	30	6	14,4	39,5	42		25,7

ISO 7388-2



Maximum recommended rpm
for steep taper toolholders:

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

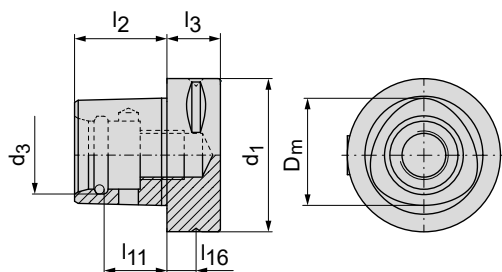
SK / BT 40 to 20,000 1/min.

SK / BT 50 to 16,000 1/min.

	D ₁ mm	D ₃ mm	D ₅ mm	l ₁ mm	g	e mm	t mm	y mm	b mm
BT 30	31,75	38	46	48,4	M 12	22	16,3	2	16,1
BT 40	44,45	53	63	65,4	M 16	27	22,5	2	16,1
BT 50	69,85	85	100	101,8	M 24	38	35,3	3,2	25,7

Technical Data for Polygon shank adapters

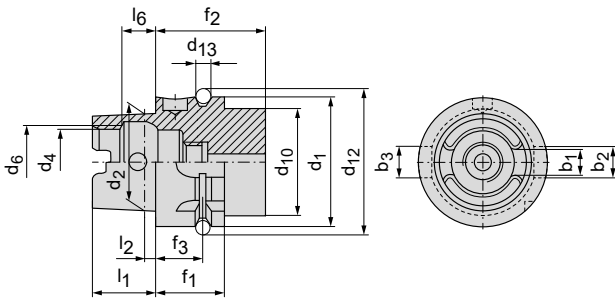
ISO 26623-1



Shank size	d ₁ mm	d ₃ ^{±0.05} mm	l ₂ ^{±0.1} mm	l ₃ mm	l ₁₁ ^{±0.1} mm	l ₁₆ mm	D _m mm
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Technical Data for HSK Adapters

ISO 12164 – HSK-A / HSK-C



Maximum rpm recommended
for HSK adapters:

HSK-A 32 to 50.000 $\frac{1}{min}$.

HSK-A 40 to 42.000 $\frac{1}{min}$.

HSK-A 50 to 30.000 $\frac{1}{min}$.

HSK-A 63 to 25.000 $\frac{1}{min}$.

HSK-A 100 to 16.000 $\frac{1}{min}$.

	b ₁ mm	b ₂ mm	b ₃ mm	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₁₀ mm	d ₁₂ mm	d ₁₃ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₆ mm
HSK 32	7,05	7	9	32	24	17	19	26	37	4	20	35	16	16	3,2	8,92
HSK 40	8,05	9	11	40	30	21	23	34	45	4	20	35	16	20	4	11,42
HSK 50	10,54	12	14	50	38	26	29	42	59,3	7	26	42	18	25	5	14,13
HSK 63	12,54	16	18	63	48	34	37	53	72,3	7	26	42	18	32	6,3	18,13
HSK 100	20,02	20	22	100	75	53	58	88	109,75	7	29	45	20	50	10	28,56

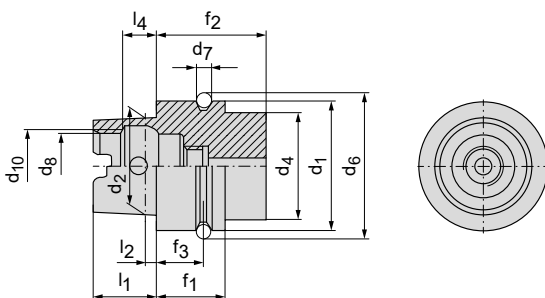
ISO 12164 – HSK-A

- ▲ Applied for machining centres, milling and special machines with automatic tool change
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end
- ▲ 2 grooves on the flange for the tool magazine, positioning notch, bore for data storage medium DIN 69873 in the flange

ISO 12164 – HSK-C

- ▲ Applied for machine spindles without automatic tool change as well as tool extensions and reducers
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end

ISO 12164 – HSK-E



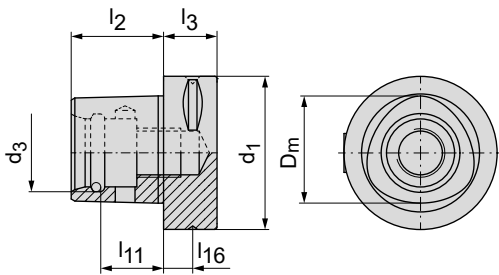
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

ISO 12164 – HSK-E

- ▲ Applied for high rpm (HSC) for high speed spindles with automatic tool change
- ▲ Rotation symmetrical, without driving grooves
- ▲ Torque transmission through friction
- ▲ **Possibility of central coolant supply via coolant pipe**

Technical Information for Polygon Shank Adapters

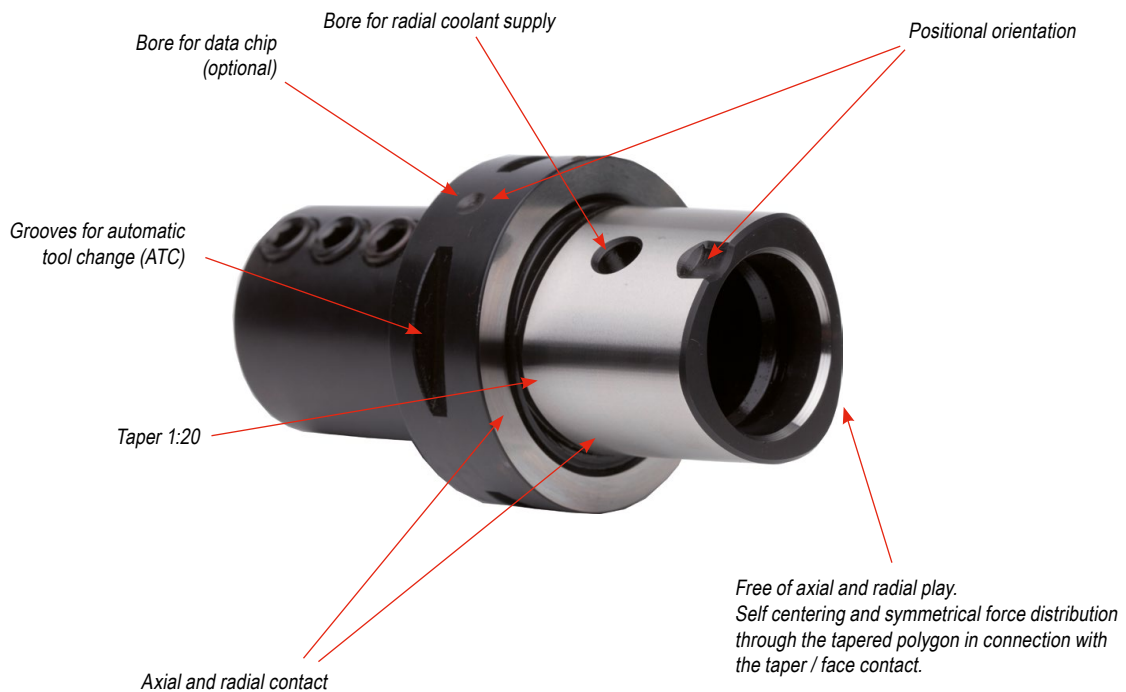
ISO 26623-1



Shank size	d_1	d_3 $\pm 0,05$	l_2 $\pm 0,1$	l_3	l_{11} $\pm 0,1$	l_{16}	D_m
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

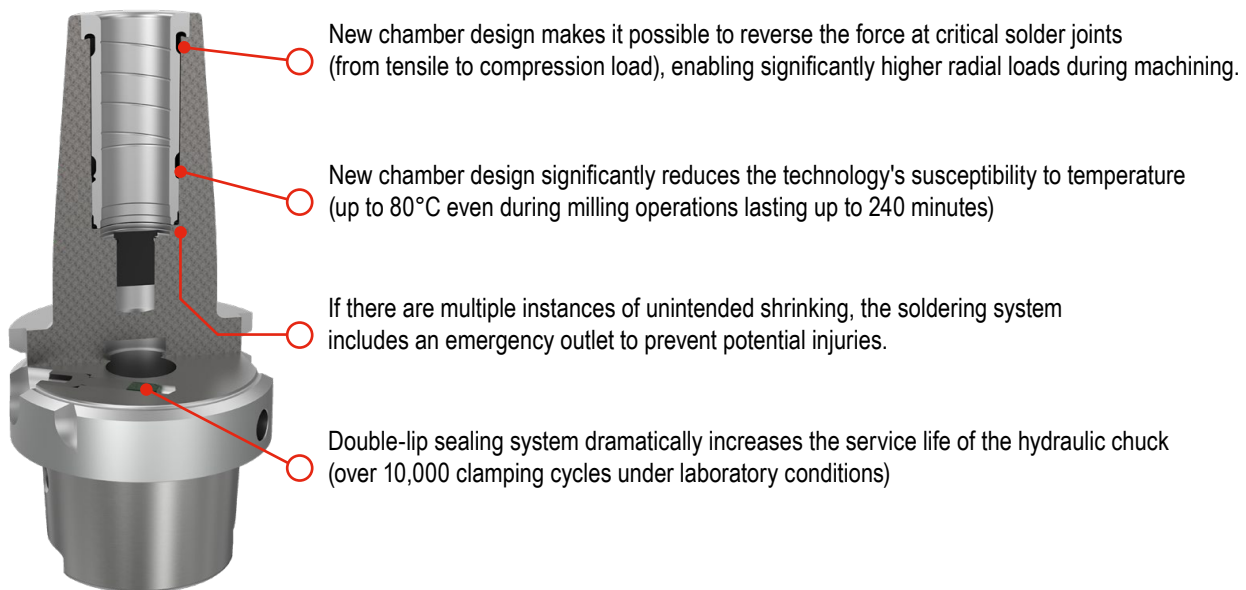
HyPower / HyTens

The right hydraulic chuck for so many different machining scenarios!

Are you looking for higher cutting speeds to enhance productivity and facilitate handling? The entire range of **HyPower** high pressure chucks and the range of **HyTens** hydraulic chucks from CERATIZIT guarantee easy, process-secure tool clamping for every application.

HyPower –	High pressure chuck	Application range		
Rough	Milling with strong forces > roughing	▽▽▽	▽	▽
Complus	All-rounder	▽▽▽	▽	▽
Access 3°	Optimum accessibility	▽▽▽		
Access 4.5°	Optimum accessibility thanks to same interference contour as heat shrink adapter, latest technology	▽▽▽	▽	
HyTens –	Hydraulic chuck	Application range		
Fit	All-rounder	▽▽▽	▽	
Turn	Perfect for turning operations	▽▽▽	▽	
Compact	affordable all-round alternative	▽▽▽	▽	
Main Application	▽▽▽ Finishing	▽▽ Roughing - Finishing	▽ Roughing	
Extended application	▽▽▽	▽▽	▽	

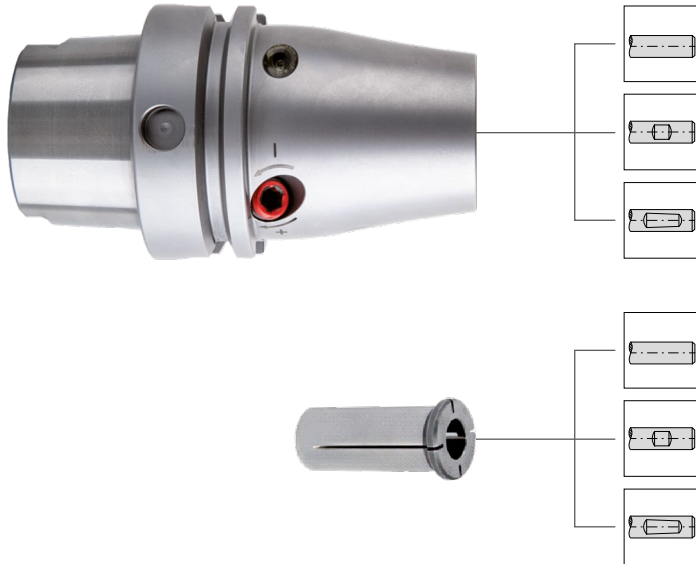
Maximum performance and productivity



HyPower / HyTens

Clamping of shanks with flats possible with or without reduction sleeve

HSS shank DIN1835 and
Solid Carbide shank DIN6535



The main applications for Milling Chuck

- ▲ HPC Milling
- ▲ HSC Milling
- ▲ Hard Machining
- ▲ Drilling
- ▲ Reaming

Clamping Force Comparison with Different Systems

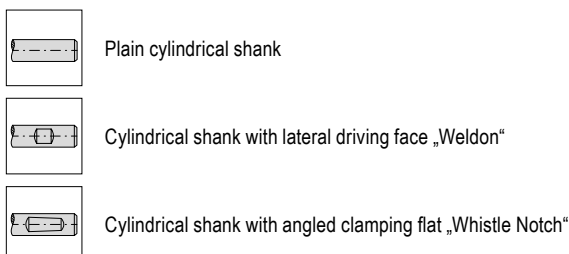
This comparison shows the higher retention forces of the Milling Chuck (**HyPower**). Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. **HyPower** now offers this process reliability.

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

Shank type & size	16	18	20	25	32	mm
	Maximum transmissible torque with shank tolerance h6					
HyTens – Hydraulic chuck	170	240	330	400	650	Nm
HyPower – High pressure chuck	350	430	520	650–750	800–890	Nm
Heat Shrink Adapter	200	290	450	530	700	Nm

Symbol explanation



Clamping Torque Values (Md) and minimum shank clamping depths for hydraulic- and high pressure chucks



Minimum shank clamping depths

Shank type & size		6	8	10	12	14	16	18	20	25	32	mm
HyTens	Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm
HyPower	Minimum clamping depth						39	39	41	47	51	mm

Clamping Torque Values (Md) for direct clamping

Clamping diameter (d1 h6)		6	8	10	12	14	16	18	20	25	32	mm
HyTens	Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
HyTens	Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm
HyPower	Md with shank at minimum size						280	360	550	650	800	Nm
HyPower	Md with shank at maximum size						380	450	650	750	890	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 32 mm

Clamping diameter (d1 h6)		6	8	10	12	14	16	18	20	25	mm
HyTens	Md with shank at minimum size	30	45	60	120	120	180	220	250	330	Nm
HyTens	Md with shank at maximum size	45	65	110	170	170	230	300	320	440	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 20 mm

Clamping diameter (d1 h6)		3	4	5	6	8	10	12	14	16	mm
HyTens	Md with shank at minimum size	6	9	16	30	55	90	120	135	190	Nm
HyTens	Md with shank at maximum size	10	12	22	40	75	120	150	170	260	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 12 mm

Clamping diameter (d1 h6)		3	4	5	6	8	mm
HyTens	Md with shank at minimum size	3	4	7	12	18	Nm
HyTens	Md with shank at maximum size	4	8	12	20	26	Nm

For Shrink Fit Adapter

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

Static clamping moments

Static clamping moments of the Centro-P and HDC ER precision collet chucks with different tightening torques measured at the lock nut.

Centro-P

Clamping diameter (d1 h6)	2	3	3,5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	mm	
ER 16 torque moment 30 Nm	2	3,5	5																							Nm
ER 16 torque moment 50 Nm				12	20	30	45	60	72	80																Nm
ER 25 torque moment 40 Nm				10	20	40																				Nm
ER 25 torque moment 75 Nm							62	75	85	95																Nm
ER 25 torque moment 90 Nm											122	145	160	175	190	200										Nm
ER 32 torque moment 60 Nm				20	30	40																				Nm
ER 32 torque moment 120 Nm							75	90	110	120	135	150	160	180	190											Nm
ER 32 torque moment 140 Nm																220	240	260	280	300						Nm
ER 40 torque moment 70 Nm				60	75	90	100																			Nm
ER 40 torque moment 110 Nm							110	125	140	150																Nm
ER 40 torque moment 150 Nm											200	220	240	260	300	350										Nm
ER 40 torque moment 200 Nm																			420	440	460	480	515	530		Nm

HDC – Heavy Duty Chuck

Clamping diameter (d1 h6)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	mm						
ER 32 tightening torque 40 Nm			25	37	50																					Nm
ER 32 torque moment 120 Nm						93	112	137	150	168	187	200	225	237												Nm
ER 32 torque moment 140 Nm															275	300	325	350								Nm
ER 32 tightening torque 180 Nm																							375			Nm

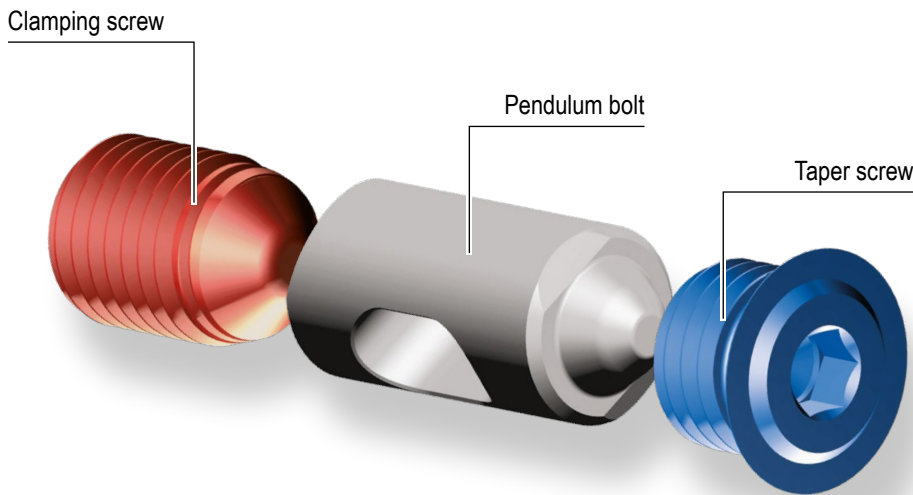


Measurement of the specified clamping forces was performed exclusively statically. The actual clamping forces that arise during machining may deviate due to various influences (vibrations, oscillations, machining situation).

Technical information – ABS

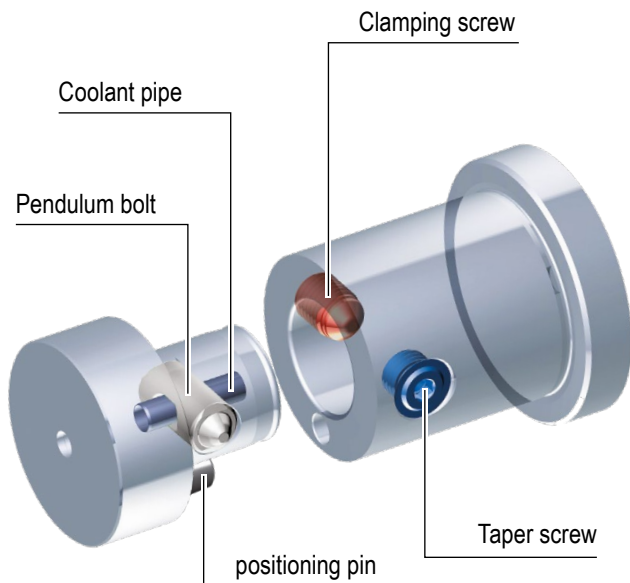
Even better connected









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 23500	84 950 24300		

DAH compensation holders

- ▲ Compensation systems for μ -precision run-out
- ▲ Simple correction of run-out and axis errors
- ▲ Optimised for high rpm
- ▲ Designed for internal coolant supply
- ▲ Rotary tools provide long tool life



84 327 ...

DAH adapter for tools
with ABS adapter



DAH hydraulic expansion adapter
for tools with cylindrical shank



84 329 ...

With HSK interface
ISO 12164

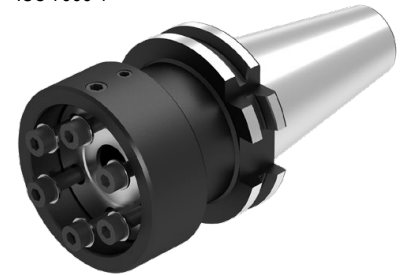


With ABS interface



84 329 ...

SK steep taper per
ISO 7388-1



BT steep taper per
ISO 7388-2



DAH 50 HS compensation holder for high-speed machining

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision $< 1 \mu$ ensures consistent cutting action
- ▲ Very simple run-out adjustment
- ▲ Compact design
- ▲ Unbeatable vibration damping, meaning outstanding surface quality
- ▲ Flexible clamping range with reduction sleeves
- ▲ Speeds of up to 25,000 rpm
- ▲ Suitable for minimum quantity lubrication (MMS)



84 326 ...

With HSK interface
ISO 12164



SK steep taper per
ISO 7388-1



BT steep taper per
ISO 7388-2



A detailed operating manual is available for download in the online shop next to the product.