

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



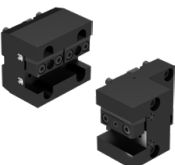
These shell mill adapters, which were developed specially for the MaxiMill 211-KN porcupine cutters, are being added to our product range. Now the porcupine cutters can be securely clamped thanks to the adapted flange diameters.

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

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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.

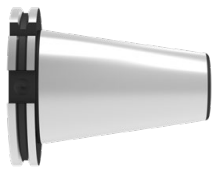
Symbol explanation

Coolant supply version

	without coolant supply (Form A)		Coolant supply centrally or via the collar with eroded cooling channels
	Coolant supply central Steep taper Form AD		Adapter with two additional coolant holes
	Coolant supply either via the flange, or central (Form AD/B)		Coolant supply centrally or via the collar also additional coolant holes
	with eroded cooling ducts		Central coolant supply or via a coolant nozzle
	DC = DirectCooling		
	specialty matched adapter for ThermoGrip® shrinking process		Collet description ▲ Type version ▲ Radial run-out accuracy

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders

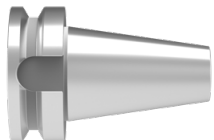


- ▲ SK 30
- ▲ SK 40
- ▲ SK 50
- ▲ SK-FC 50

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

ISO 7388-2 – MAS-BT taper shank

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

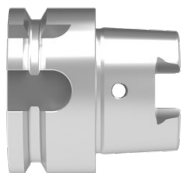


- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

▶ 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	8+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

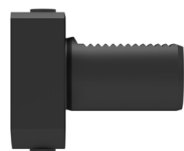
▶ Toolfinder – Adapters, rotating	6+7
▶ Product programme	157–176

PSC, stationary

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

▶ Toolfinder – Adapters, stationary	8+9
▶ Product programme	198–204

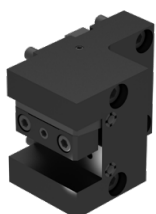
ISO 10889 – VDI tool holders with cylindrical shank



- ▲ 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	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	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			
Accuracy Medium										
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

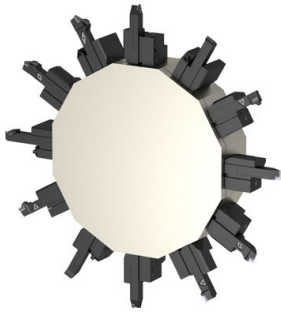
PARTING BLADE HOLDERS

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

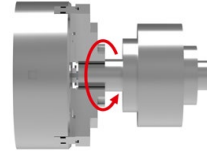
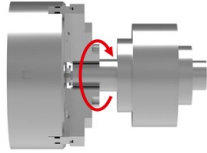
ACCESSORIES





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

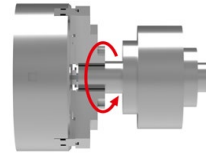
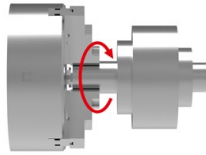
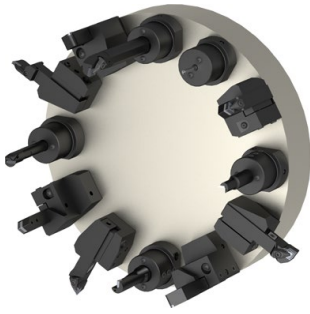
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double – overhead 208 216+217	double 208 216+217
 Adapter VDI to VDI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

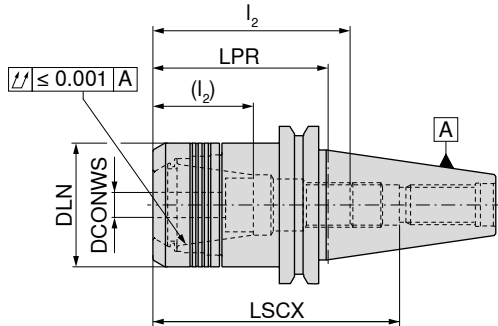
Type		Page No.	Type		Page No.	
Pull stud	SK	58–60	Spare parts for VDI		264–266	
	MAS-BT	110+111		Spare parts driven tools		267
	PSC	176			Quick change applications	
Coolant pipe/key	HSK-A	156	Reduction sleeve and reducing bushings			282+283
	PSC	176		3D tester and zero setting device		299+300
Drill chuck 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



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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	AD		AD/B	
							EUR		EUR	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	155,50	016		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	116,70	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	129,70	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			177,60	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			200,90	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			141,30	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	116,70	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	129,70	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			190,50	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			213,90	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	123,20	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	116,70	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	129,70	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			190,50	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			213,90	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	155,60	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	258,00	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			213,90	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			258,00	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			324,50	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			369,50	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			226,90	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			274,60	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			337,60	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			387,50	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
 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

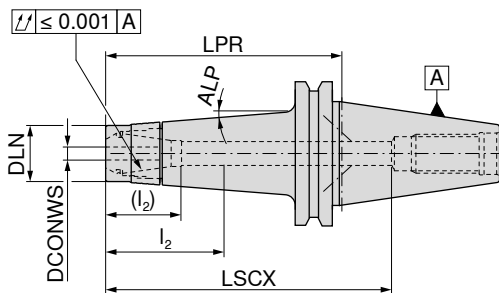
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	EUR		EUR		EUR		EUR	
426E (ER16)	45,38	011	36,28	001	18,15	341	12,81	337
430E (ER25)	49,29	013	40,16	003	20,50	432	14,72	431
470E (ER32)	51,87	015	42,72	005	20,50	402	14,72	401
472E (ER40)	70,01	017	58,34	007			13,34	400

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	EUR	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4,5°	147,70	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)	3,5°	189,10	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2,5°	197,00	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	
	EUR		EUR		EUR		EUR	
426E (ER16)	53,16	033	42,72	031	18,15	341	12,81	337

Accessories

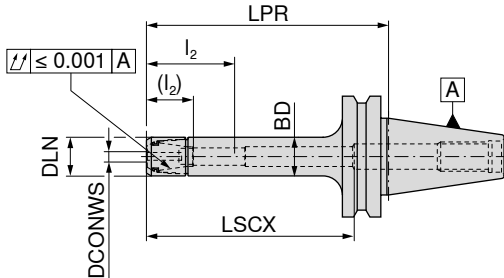
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268–276, 279	→ 280	→ 286	→ 286	→ 58, 60	→ 284

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	EUR Y8	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	151,70	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	151,70	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	201,00	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	224,30	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	151,70	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	151,70	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	201,00	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	224,30	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
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
	EUR Y8	EUR Y8	EUR Y8	EUR Y8
4008E (ER11)		42,72 041	17,45 340	12,81 336
426E (ER16)	53,15 035	42,72 034	18,15 341	12,81 337

Accessories

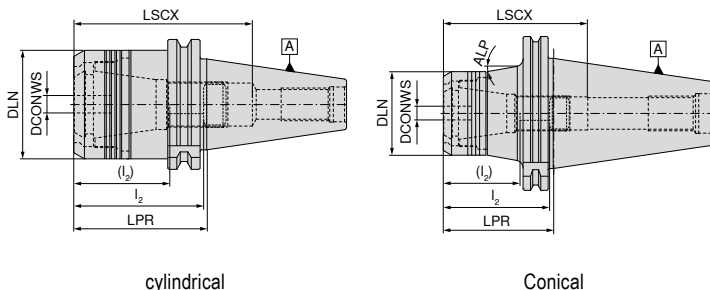
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 58, 60	→ 284

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 η_{max} 18000

cylindrical



AD
G 6,3 η_{max} 18000

conical

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

84 400 ...	84 400 ...
EUR Y8	EUR Y8
210,20	12079
	337,90 12078
	394,60 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 ... EUR Y8 90,88 30100	83 950 ... EUR Y8 20,50 402	83 950 ... EUR Y8 14,72 401

Accessories

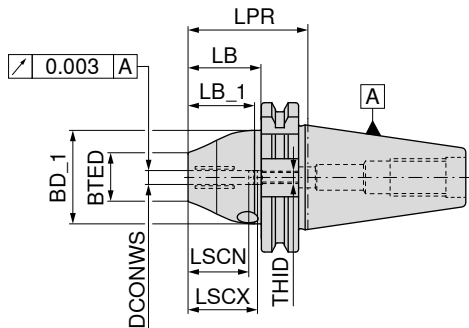
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 58, 60	→ 284

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



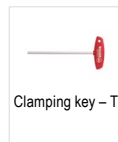
AD/B
G 2,5 n_{max} 25000

84 254 ...

EUR
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	50,0	26	42	27,1	30,9	37	27	M5	384,30 10679
SK 40	8	50,0	28	42	27,1	30,9	37	27	M6	384,30 10879
SK 40	10	50,0	30	42	27,1	30,9	41	31	M8x1	384,30 11079
SK 40	12	50,0	32	49	27,1	30,9	46	36	M10x1	384,30 11279
SK 40	16	64,5	38	49	41,6	45,4	49	39	M12x1	384,30 11679
SK 40	20	64,5	38	49	41,6	45,4	51	41	M16x1	384,30 12079

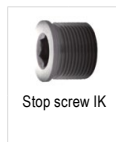
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS		EUR			EUR		EUR	
		Y7			Y8		Y7	
6	SW5	5,46	050	M10x12	7,56	55000	M5x12,5 - SW2,5	10,45 418
8	SW5	5,46	050	M10x12	7,56	55000	M6x12,5 - SW3	10,45 419
10	SW5	5,46	050	M10x12	7,56	55000	M8x1x13,5 - SW3	10,45 420
12	SW5	5,46	050	M10x12	7,56	55000	M10x1x13,5 - SW5	10,45 421
16	SW5	5,46	050	M10x12	7,56	55000	M12x1x13,5 - SW5	10,45 422
20	SW5	5,46	050	M10x12	7,56	55000	M16x1x13,5 - SW8	12,04 424

Accessories

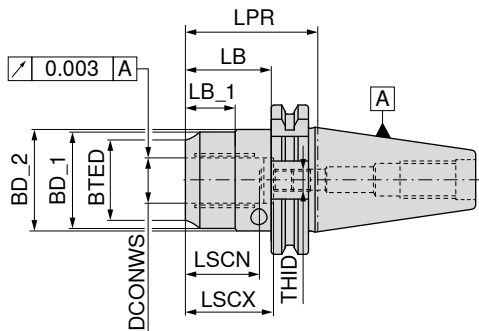
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

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

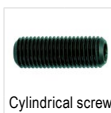


AD/B
G 2,5 n_{max} 25000

83 427 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	EUR	
SK 40	20	64,5	38					51	40	M16x1x13,5	310,90	120
SK 40	32	81,0	57	63	70	61,9	26	61	51	M16x1x13,5	302,70	13279
SK 50	20	64,5	38	49		45,4		51	41	M16x1x13,5	359,60	12078
SK 50	32	81,0	57	68	72	61,9	35	61	51	M16x1x13,5	359,60	13278

→ Min. clamping depth, Page 312



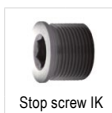
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...				
	EUR		EUR		EUR		EUR				
83 427 13279		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424
83 427 12078		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424
83 427 13278		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424

Accessories

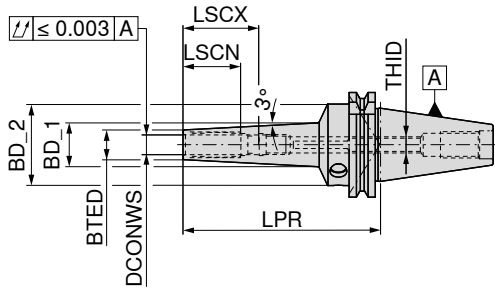
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

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	EUR	
										mm	mm
medium length	SK 40	3	120	9	17,40	49,5	28	12	M3	538,10	103
	SK 40	4	120	10	18,40	49,5	28	16	M3	538,10	104
	SK 40	5	120	11	19,40	49,5	28	20	M3	538,10	105
	SK 40	6	120	12	20,40	49,5	37	27	M5	458,30	106
	SK 40	8	120	14	22,40	49,5	37	27	M6	458,30	108
	SK 40	10	120	16	24,50	49,5	41	31	M8x1	458,30	110
	SK 40	12	120	18	26,60	49,5	46	36	M10x1	458,30	112
	SK 40	16	120	24	32,30	49,5	49	39	M12x1	742,10	116
	SK 40	20	120	28	36,40	49,5	51	41	M16x1	742,10	120
	SK 40	6	160	16	34,37	49,5	37	27	M5	661,20	206
	SK 40	8	160	18	35,45	49,5	37	27	M6	661,20	208
	SK 40	10	160	20	37,10	49,5	41	31	M8x1	661,20	210
	SK 40	12	160	22	38,72	49,5	46	36	M10x1	661,20	212
	SK 40	6	200	16	38,72	49,5	37	27	M5	782,70	306
	SK 40	8	200	18	39,74	49,5	37	27	M6	782,70	308
	SK 40	10	200	20	41,40	49,5	41	31	M8x1	782,70	310
	SK 40	12	200	22	43,02	49,5	46	36	M10x1	782,70	312

→ Min. clamping depth, Page 312



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

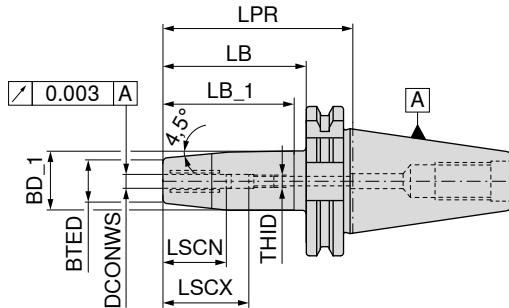
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...					
	EUR	Y7	EUR	Y7	EUR	Y7	EUR	Y7				
83 421 103	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 421 104	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 421 105	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 421 106	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 421 108	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 421 110	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 421 112	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M10x1x13,5 - SW5	10,45	421
83 421 116	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M12x1x13,5 - SW5	10,45	422
83 421 120	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M16x1x13,5 - SW8	12,04	424
83 421 206	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 421 208	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 421 210	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 421 212	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 421 306	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 421 308	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 421 310	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 421 312	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	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 ...

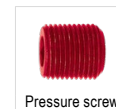
EUR
Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	
SK 40	6	80	21	27	55,7	60,9	37	27	M5	459,90 10679
SK 40	8	80	21	27	55,7	60,9	37	27	M6	459,90 10879
SK 40	10	80	24	32	55,7	60,9	41	31	M8x1	459,90 11079
SK 40	12	80	24	32	55,7	60,9	46	36	M10x1	459,90 11279
SK 40	16	80	27	34	55,8	60,9	49	39	M12x1	459,90 11679
SK 40	20	80	33	42	57,2	60,9	51	41	M16x1	459,90 12079

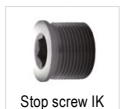
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

EUR
Y7

83 950 ...

EUR
Y8

83 950 ...

EUR
Y7

Spare parts	DCONWS								
6		SW5	5,46	050	M10x12	7,56	55000	M5x12,5 - SW2,5	10,45 418
8		SW5	5,46	050	M10x12	7,56	55000	M6x12,5 - SW3	10,45 419
10		SW5	5,46	050	M10x12	7,56	55000	M8x1x13,5 - SW3	10,45 420
12		SW5	5,46	050	M10x12	7,56	55000	M10x1x13,5 - SW5	10,45 421
16		SW5	5,46	050	M10x12	7,56	55000	M12x1x13,5 - SW5	10,45 422
20		SW5	5,46	050	M10x12	7,56	55000	M16x1x13,5 - SW8	12,04 424

Accessories

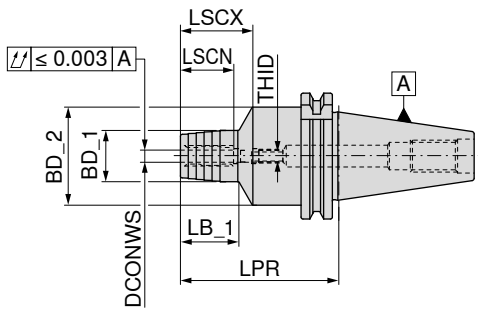
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

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

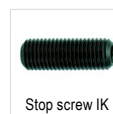
83 402 ...

Adapter	DCONWS	LPR	BD_1	BD_2	LSCX	LSCN	LB_1	THID	EUR	
	mm	mm	mm	mm	mm	mm	mm		Y8	
SK 40	6	80,5	26	49,5	37	27	29,5	M5	474,50	106
SK 40	8	80,5	28	49,5	37	27	30,0	M6	474,50	108
SK 40	10	80,5	30	49,5	41	31	35,0	M8x1	474,50	110
SK 40	12	80,5	32	49,5	46	36	40,0	M10x1	412,30	112
SK 40	16	80,5	38	49,5	49	39	45,0	M12x1	474,50	116
SK 40	20	80,5	42	49,5	51	41	47,0	M16x1	412,30	120
SK 40	25	80,5	55	63,0	57	47	28,0	M16x1	474,50	125
SK 40	32	80,5	63	70,0	61	51	25,5	M16x1	474,50	132
SK 50	6	80,5	26	49,5	37	27	29,5	M5	663,70	306
SK 50	8	80,5	28	49,5	37	27	30,0	M6	663,70	308
SK 50	10	80,5	30	49,5	41	31	35,0	M8x1	663,70	310
SK 50	12	80,5	32	49,5	46	36	40,0	M10x1	601,70	312
SK 50	16	80,5	38	49,5	49	39	45,0	M12x1	663,70	316
SK 50	20	80,5	42	49,5	51	41	42,0	M16x1	601,70	320
SK 50	25	100,0	55	63,0	57	47	48,0	M16x1	663,70	325
SK 50	32	100,0	63	70,0	61	51	51,0	M16x1	663,70	332

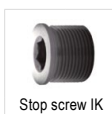
→ Min. clamping depth, Page 312



Pressure screw



Stop screw IK



Stop screw IK

Spare parts	83 950 ...		83 950 ...		83 950 ...		
	DCONWS	EUR Y7		EUR Y7		EUR Y7	
6	M8x1x10	7,07	439		M5x12,5 - SW2,5	10,45	418
8	M8x1x10	7,07	439	M6x14 - SW2	10,45	417	419
10	M10x1x12	7,07	440		M8x1x13,5 - SW3	10,45	420
12	M10x1x12	7,07	440		M10x1x13,5 - SW5	10,45	421
16	M10x1x12	7,07	440		M12x1x13,5 - SW5	10,45	422
20 - 32	M10x1x12	7,07	440		M16x1x13,5 - SW8	12,04	424

Accessories

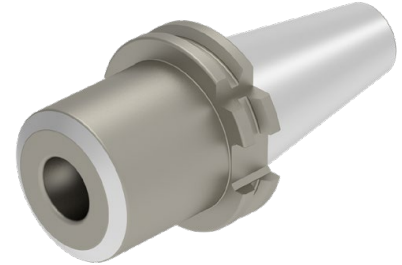
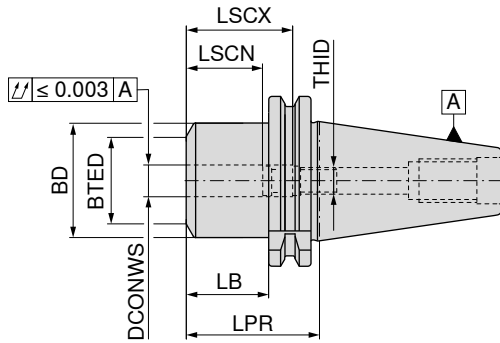
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

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

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

83 430 ...
EUR Y8
196,40 01279
196,40 02079
351,00 02078

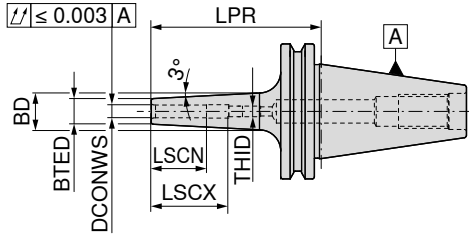
→ Min. clamping depth, Page 312

Spare parts	DCONWS	SW5	SW5	M10x1x12	M10x1x12	M8x1x13,5 - SW3	M16x1x13,5 - SW8	Clamping key – T		Pressure screw		Stop screw IK	
								80 397 ...	EUR Y7	83 950 ...	EUR Y7	83 950 ...	EUR Y7
12		SW5	SW5	M10x1x12	M10x1x12	M8x1x13,5 - SW3	M16x1x13,5 - SW8	5,46	050	7,07	440	10,45	420
20		SW5	SW5	M10x1x12	M10x1x12	M16x1x13,5 - SW8		5,46	050	7,07	440	12,04	424

Heat shrink adapter, slim 3°

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

TG

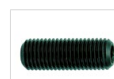


AD/B
G 2,5 n_{max} 25000

84 320 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		EUR	
		mm	mm	mm	mm	mm	mm			Y8	
short	SK 40	3	80	9	14	28	12	M6		196,10	103
	SK 40	4	80	10	15	28	16	M6		190,60	104
	SK 40	5	80	11	16	30	20	M6		190,60	105
	SK 40	6	80	12	17	36	26	M5		166,20	106
	SK 40	8	80	14	19	36	26	M6		166,20	108
	SK 40	10	80	16	21	41	31	M8x1		166,20	110
	SK 40	12	80	18	23	47	37	M10x1		166,20	112
	SK 40	14	80	20	26	47	37	M10x1		166,20	114
	SK 40	16	80	22	28	50	40	M12x1		166,20	116
	SK 40	18	80	24	30	50	40	M12x1		166,20	118
SK 40	20	80	26	32	52	42	M16x1		166,20	120	
medium length	SK 40	3	120	9	16	12	12			220,30	203
	SK 40	4	120	10	17	16	16			213,70	204
	SK 40	5	120	11	18	20	20			213,70	205
	SK 40	6	120	12	22	36	26	M5		192,00	206
	SK 40	8	120	14	24	36	26	M6		192,00	208
	SK 40	10	120	16	26	41	31	M8x1		192,00	210
	SK 40	12	120	18	28	47	37	M10x1		192,00	212
	SK 40	14	120	20	30	47	37	M10x1		192,00	214
	SK 40	16	120	22	32	50	40	M12x1		192,00	216
	SK 40	18	120	24	34	50	40	M12x1		192,00	218
SK 40	20	120	26	36	52	42	M16x1		192,00	220	
extra-long	SK 40	3	160	9	19	12	12			248,70	303
	SK 40	4	160	10	20	16	16			243,30	304
	SK 40	5	160	11	21	20	20			243,30	305
	SK 40	6	160	12	24	36	26	M5		221,80	306
	SK 40	8	160	14	26	36	26	M6		221,80	308
	SK 40	10	160	16	28	41	31	M8x1		221,80	310
	SK 40	12	160	18	30	47	37	M10x1		221,80	312
	SK 40	14	160	20	32	47	37	M10x1		221,80	314
	SK 40	16	160	22	34	50	40	M12x1		221,80	316
	SK 40	18	160	24	36	50	40	M12x1		221,80	318
SK 40	20	160	26	38	52	42	M16x1		221,80	320	

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

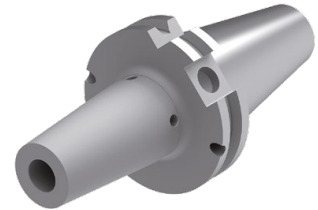
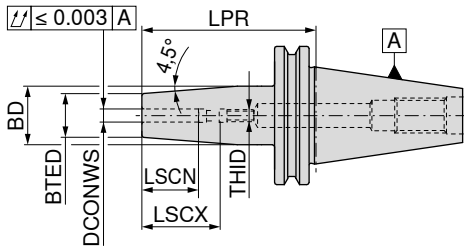
Spare parts
DCONWS

		EUR		EUR	
		Y7		Y7	
3 - 5	M6x14 - SW2	10,45	417		
6				M5x12,5 - SW2,5	10,45 418
8				M6x12,5 - SW3	10,45 419
10				M8x1x13,5 - SW3	10,45 420
12 - 14				M10x1x13,5 - SW5	10,45 421
16 - 18				M12x1x13,5 - SW5	10,45 422
20				M16x1x13,5 - SW8	12,04 424

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 ...

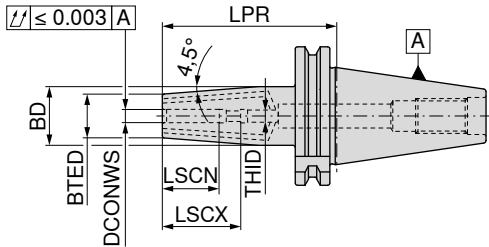
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR	
short	SK 40	3	80	10	17	22	12	M6	143,20	103
	SK 40	4	80	15	22	26	16	M6	143,20	104
	SK 40	5	80	15	22	30	20	M6	143,20	105
	SK 40	6	80	21	27	36	26	M5	136,60	106
	SK 40	8	80	21	27	26	26	M6	136,60	108
	SK 40	10	80	24	32	41	31	M8x1	136,60	110
	SK 40	12	80	24	32	47	37	M10x1	136,60	112
	SK 40	14	80	27	34	47	37	M10x1	136,60	114
	SK 40	16	80	27	34	50	40	M12x1	136,60	116
	SK 40	18	80	33	42	50	40	M12x1	136,60	118
	SK 40	20	80	33	42	52	42	M16x1	136,60	120
SK 40	25	100	44	53	58	48	M16x1	136,60	125	
medium length	SK 40	3	120	10	20	12	12		171,70	203
	SK 40	4	120	15	22	16	16		171,70	204
	SK 40	5	120	15	22	20	20		171,70	205
	SK 40	6	120	21	27	36	26	M5	171,70	206
	SK 40	8	120	21	27	36	26	M6	171,70	208
	SK 40	10	120	24	32	41	31	M8x1	171,70	210
	SK 40	12	120	24	32	47	37	M10x1	171,70	212
	SK 40	14	120	27	34	47	37	M10x1	171,70	214
	SK 40	16	120	27	34	50	40	M12x1	171,70	216
	SK 40	18	120	33	42	50	40	M12x1	171,70	218
	SK 40	20	120	33	42	52	42	M16x1	171,70	220
SK 40	25	120	44	53	58	48	M16x1	173,00	225	
extra-long	SK 40	3	160	10	20	12	12		235,20	303
	SK 40	4	160	15	22	16	16		229,80	304
	SK 40	5	160	15	22	20	20		229,80	305
	SK 40	6	160	21	27	36	26	M5	205,50	306
	SK 40	8	160	21	27	36	26	M6	205,50	308
	SK 40	10	160	24	32	41	31	M8x1	205,50	310
	SK 40	12	160	24	32	47	37	M10x1	205,50	312
	SK 40	14	160	27	34	47	37	M10x1	205,50	314
	SK 40	16	160	27	34	50	40	M12x1	205,50	316
	SK 40	18	160	33	42	50	40	M12x1	205,50	318
	SK 40	20	160	33	42	52	42	M16x1	205,50	320
SK 40	25	160	44	53	58	48	M16x1	205,50	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

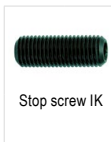


AD/B – 2KMB
G 2,5 n_{max} 25000

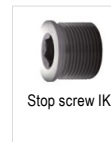
84 317 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	EUR	
		mm	mm	mm	mm	mm	mm	mm		
short	SK 40	3	80	10	17	28	12	M6	209,70	103
	SK 40	4	80	15	22	28	16	M6	202,80	104
	SK 40	5	80	15	22	30	20	M6	202,80	105
	SK 40	6	80	21	27	36	26	M5	178,50	106
	SK 40	8	80	21	27	36	26	M6	178,50	108
	SK 40	10	80	24	32	41	31	M8x1	178,50	110
	SK 40	12	80	24	32	47	37	M10x1	178,50	112
	SK 40	14	80	27	34	47	37	M10x1	178,50	114
	SK 40	16	80	27	34	50	40	M12x1	178,50	116
	SK 40	18	80	33	42	50	40	M12x1	178,50	118
	SK 40	20	80	33	42	52	42	M16x1	178,50	120
	SK 40	25	100	44	53	58	48	M16x1	178,50	125
SK 40	32	100	44	53	62	52	M16x1	178,50	132	

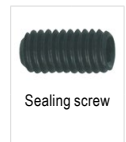
→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK



Sealing screw

Spare parts

DCONWS		83 950 ...	EUR		83 950 ...	EUR		83 950 ...	EUR	
			Y7			Y7			Y7	
3 - 5			10,45	417						
6	M6x14 - SW2							M2x6	0,61	512
8					M5x12,5 - SW2,5	10,45	418	M2x6	0,61	512
10					M6x12,5 - SW3	10,45	419	M2x6	0,61	512
12 - 14					M8x1x13,5 - SW3	10,45	420	M2x6	0,61	512
16 - 18					M10x1x13,5 - SW5	10,45	421	M2x6	0,61	512
20 - 25					M12x1x13,5 - SW5	10,45	422	M2x6	0,61	512
32	M16x1 - SW5		6,20	511	M16x1x13,5 - SW8	12,04	424	M2x6	0,61	512

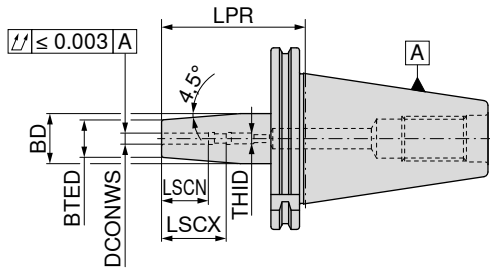
Accessories

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

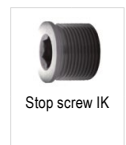


AD/B
G 2,5 n_{max} 25000

84 301 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		EUR	
		mm	mm	mm	mm	mm	mm	mm		Y8	
short	SK 50	6	80	21	27	36	26	M5		231,30	106
	SK 50	8	80	21	27	36	26	M6		231,30	108
	SK 50	10	80	24	32	41	31	M8x1		231,30	110
	SK 50	12	80	24	32	47	37	M10x1		231,30	112
	SK 50	14	80	27	34	47	37	M10x1		231,30	114
	SK 50	16	80	27	34	50	40	M12x1		231,30	116
	SK 50	18	80	33	42	50	40	M12x1		231,30	118
	SK 50	20	80	33	42	52	42	M16x1		231,30	120
	SK 50	25	100	44	53	58	48	M16x1		231,30	125
	SK 50	32	100	44	53	62	52	M16x1		231,30	132
medium length	SK 50	6	120	21	27	36	26	M5		252,80	206
	SK 50	8	120	21	27	36	26	M6		252,80	208
	SK 50	10	120	24	32	41	31	M8x1		252,80	210
	SK 50	12	120	24	32	47	37	M10x1		252,80	212
	SK 50	14	120	27	34	47	37	M10x1		252,80	214
	SK 50	16	120	27	34	50	40	M12x1		252,80	216
	SK 50	18	120	33	42	50	40	M12x1		252,80	218
	SK 50	20	120	33	42	52	42	M16x1		252,80	220
	SK 50	25	120	44	53	58	48	M16x1		252,80	225
	SK 50	32	120	44	53	62	52	M16x1		252,80	232
extra-long	SK 50	6	160	21	27	36	26	M5		282,60	306
	SK 50	8	160	21	27	36	26	M6		282,60	308
	SK 50	10	160	24	32	41	31	M8x1		282,60	310
	SK 50	12	160	24	32	47	37	M10x1		282,60	312
	SK 50	14	160	27	34	47	37	M10x1		282,60	314
	SK 50	16	160	27	34	50	40	M12x1		282,60	316
	SK 50	18	160	33	42	50	40	M12x1		282,60	318
	SK 50	20	160	33	42	52	42	M16x1		282,60	320
	SK 50	25	160	44	53	58	48	M16x1		282,60	325
	SK 50	32	160	44	53	62	52	M16x1		282,60	332

→ Min. clamping depth, Page 312



Spare parts
DCONWS

		EUR	
		Y7	
6	M5x12,5 - SW2,5	10,45	418
8	M6x12,5 - SW3	10,45	419
10	M8x1x13,5 - SW3	10,45	420
12 - 14	M10x1x13,5 - SW5	10,45	421
16 - 18	M12x1x13,5 - SW5	10,45	422
20 - 32	M16x1x13,5 - SW8	12,04	424

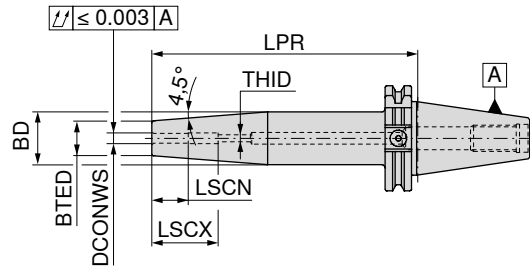
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG



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

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR	
									Y8/3B	
short	SK 40	3	70	12	17,0				127,90	10379
	SK 40	4	70	12	17,0				127,90	10479
	SK 40	5	70	12	17,0				127,90	10579
	SK 40	6	80	21	30,5	36	26	M5	122,20	10679
	SK 40	8	80	21	30,5	36	26	M6	122,20	10879
	SK 40	10	80	24	33,5	41	31	M8x1	122,20	11079
	SK 40	12	80	24	33,5	47	37	M10x1	122,20	11279
	SK 40	14	80	27	36,5	47	37	M10x1	122,20	11479
	SK 40	16	80	27	36,5	50	40	M12x1	122,20	11679
	SK 40	18	80	33	42,5	50	40	M12x1	122,20	11879
	SK 40	20	80	33	42,5	52	42	M16x1	122,20	12079
	SK 40	25	100	44	50,0	58	48	M16x1	122,20	12579
	SK 50	6	80	21	27,0	36	26	M5	181,30	10678
	SK 50	8	80	21	27,0	36	26	M6	181,30	10878
	SK 50	10	80	24	32,0	41	31	M8x1	181,30	11078
	SK 50	12	80	24	32,0	47	37	M10x1	181,30	11278
	SK 50	14	80	27	34,0	47	37	M10x1	181,30	11478
	SK 50	16	80	27	34,0	50	40	M12x1	181,30	11678
SK 50	18	80	33	42,0	50	40	M12x1	181,30	11878	
SK 50	20	80	33	42,0	52	42	M12x1	181,30	12078	
SK 50	25	100	44	53,0	58	48	M16x1	181,30	12578	
SK 50	32	100	44	53,0	62	52	M16x1	181,30	13278	
medium length	SK 40	3	120	12	17,0				154,20	20379
	SK 40	4	120	12	17,0				154,20	20479
	SK 40	5	120	12	17,0				154,20	20579
	SK 40	6	120	21	31,0	36	26	M5	154,20	20679
	SK 40	8	120	21	32,0	36	26	M6	154,20	20879
	SK 40	10	120	24	34,0	41	31	M8x1	154,20	21079
	SK 40	12	120	24	34,0	47	37	M10x1	154,20	21279
	SK 40	16	120	27	36,0	50	40	M12x1	154,20	21679
	SK 40	20	120	33	44,0	52	42	M16x1	154,20	22079
	SK 50	6	120	21	27,0	36	26	M5	199,00	20678
	SK 50	8	120	21	27,0	36	26	M6	199,00	20878
	SK 50	10	120	24	32,0	41	31	M8x1	199,00	21078
	SK 50	12	120	24	32,0	47	37	M10x1	199,00	21278
	SK 50	14	120	27	34,0	47	37	M10x1	199,00	21478
	SK 50	16	120	27	34,0	50	40	M12x1	199,00	21678
	SK 50	18	120	33	42,0	50	40	M12x1	199,00	21878
	SK 50	20	120	33	42,0	52	42	M16x1	199,00	22078
	SK 50	25	120	44	53,0	58	48	M16x1	199,00	22578
	SK 50	32	120	44	53,0	62	52	M16x1	199,00	23278

→ Min. clamping depth, Page 312

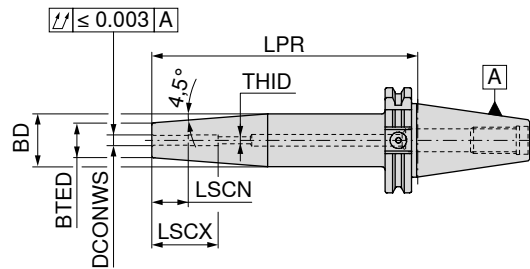
Shrink fit adapters 4.5°

- ▲ 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 ...

EUR
Y8/3B

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
									EUR	
extra-long	SK 40	6	160	21	31,0	36	26	M5	183,90	30679
	SK 40	8	160	21	32,0	36	26	M6	183,90	30879
	SK 40	10	160	24	34,0	41	31	M8x1	183,90	31079
	SK 40	12	160	24	34,0	47	37	M10x1	183,90	31279
	SK 40	14	160	27	36,0	47	37	M10x1	183,90	31479
	SK 40	16	160	27	36,0	50	40	M12x1	183,90	31679
	SK 40	18	160	33	44,0	50	40	M12x1	183,90	31879
	SK 40	20	160	33	44,0	52	42	M16x1	183,90	32079
	SK 40	25	160	44	50,0	58	48	M16x1	183,90	32579
	SK 50	6	160	21	27,0	36	26	M5	221,20	30678
	SK 50	8	160	21	27,0	36	26	M6	221,20	30878
	SK 50	10	160	24	32,0	41	31	M8x1	221,20	31078
	SK 50	12	160	24	32,0	47	37	M10x1	221,20	31278
	SK 50	14	160	27	34,0	47	37	M10x1	221,20	31478
	SK 50	16	160	27	34,0	50	40	M12x1	221,20	31678
	SK 50	18	160	33	42,0	50	40	M12x1	221,20	31878
	SK 50	20	160	33	42,0	52	42	M16x1	221,20	32078
	SK 50	25	160	44	53,0	58	48	M16x1	221,20	32578
	SK 50	32	160	44	53,0	62	52	M16x1	221,20	33278

→ Min. clamping depth, Page 312



Stop screw IK

82 950 ...

EUR
Y8/3B

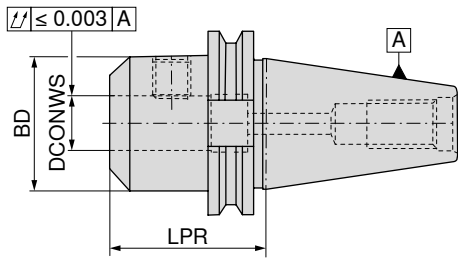
Spare parts

DCONWS

6	M5x16 - SW2,5	2,72	30000
8	M6x16 - SW3	2,91	30100
10	M8x1x16 - SW4	3,08	30200
12	M10x1x14 - SW5	3,27	30300
14	M10x1x14 - SW5	3,27	30300
16	M12x1x16 - SW6	3,44	30400
18	M12x1x16 - SW6	3,44	30400
20	M16x1x16 - SW8	3,62	30500
25	M16x1x16 - SW8	3,62	30500
32	M16x1x16 - SW8	3,62	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**



NEW



AD
G 2,5 n_{max} 25000

82 741 ...

EUR
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
short	SK 30	6	50	25	106,00	10680
	SK 30	8	50	28	96,54	10880
	SK 30	10	50	35	96,54	11080
	SK 30	12	50	42	96,54	11280
	SK 30	14	63	44	96,54	11480
	SK 30	16	63	48	96,54	11680
	SK 30	18	63	50	96,54	11880
	SK 30	20	70	52	115,60	12080
extra short	SK 40	16	35	48	57,00	01679
	SK 40	20	35	50	57,00	02079
	SK 40	25	40	50	62,31	02579
	SK 40	32	75	72	78,74	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

		EUR W7	
6	M6x10	0,84	006
8	M8x10	0,99	008
10	M10x12	1,31	010
12	M12x16	1,32	012
14	M12x16	1,32	012
16	M14x16	1,66	016
18	M14x16	1,66	016
20	M16x16	2,01	020
25	M18x2x20	3,66	025
32	M20x2x20	4,04	032

Accessories



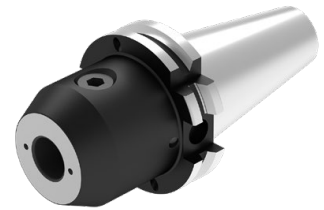
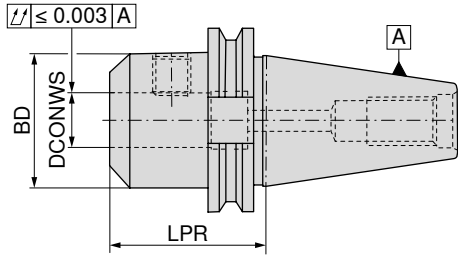
Coolant transfer pipe
→ 156



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 ...

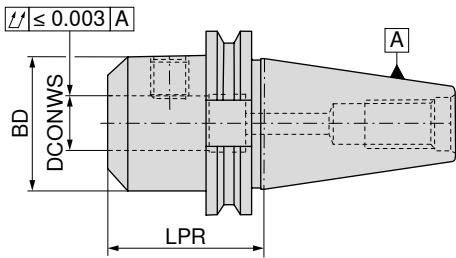
EUR
Y8

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	SK 40	6	50	25	52,74 10679
	SK 40	8	50	28	52,74 10879
	SK 40	10	50	35	49,78 11079
	SK 40	12	50	42	49,78 11279
	SK 40	14	50	44	49,78 11479
	SK 40	16	63	48	53,91 11679
	SK 40	18	63	50	53,91 11879
	SK 40	20	63	52	53,91 12079
	SK 40	25	100	65	59,14 12579 ¹⁾
	SK 40	32	100	72	64,33 13279 ¹⁾
	SK 40	40	120	80	70,36 14079 ¹⁾
short	SK 50	6	63	25	79,33 10678
	SK 50	8	63	28	79,33 10878
	SK 50	10	63	35	75,92 11078
	SK 50	12	63	42	75,92 11278
	SK 50	14	63	44	75,92 11478
	SK 50	16	63	48	76,15 11678
	SK 50	18	63	50	76,15 11878
	SK 50	20	63	52	76,15 12078
	SK 50	25	80	65	83,25 12578 ¹⁾
	SK 50	32	100	72	84,42 13278 ¹⁾
	SK 50	40	100	80	88,10 14078 ¹⁾
medium length	SK 40	6	100	25	54,98 20679
	SK 40	8	100	28	54,98 20879
	SK 40	10	100	35	51,90 21079
	SK 40	12	100	42	51,90 21279
	SK 40	14	100	44	51,56 21479
	SK 40	16	100	48	57,00 21679
	SK 40	18	100	50	56,75 21879
	SK 40	20	100	52	57,00 22079
	SK 50	6	100	25	87,85 20678
	SK 50	8	100	28	87,85 20878
SK 50	10	100	35	84,32 21078	
SK 50	12	100	42	84,32 21278	
SK 50	14	100	44	84,32 21478	
SK 50	16	100	48	84,55 21678	
SK 50	18	100	50	84,55 21878	
SK 50	20	100	52	84,55 22078	
	SK 50	25	100	65	89,51 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 ...

EUR
Y8

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
long	SK 40	6	130	25	60,77	30679
	SK 40	8	130	28	60,77	30879
	SK 40	10	130	35	57,23	31079
	SK 40	12	130	42	57,23	31279
	SK 40	14	130	44	57,23	31479
	SK 40	16	130	48	58,31	31679
	SK 40	18	130	50	58,31	31879
	SK 40	20	130	52	58,31	32079
	SK 50	6	130	25	94,71	30678
	SK 50	8	130	28	94,71	30878
	SK 50	10	130	35	92,94	31078
	SK 50	12	130	42	92,94	31278
	SK 50	14	130	44	92,94	31478
	SK 50	16	130	48	93,06	31678
	SK 50	18	130	50	93,06	31878
	SK 50	20	130	52	93,06	32078
	SK 50	25	130	65	95,54	32578 ¹⁾
	extra-long	SK 40	6	160	25	63,26
SK 40		8	160	28	63,26	40879
SK 40		10	160	35	59,94	41079
SK 40		12	160	42	59,94	41279
SK 40		14	160	44	59,94	41479
SK 40		16	160	48	60,19	41679
SK 40		18	160	50	60,19	41879
SK 40		20	160	52	60,19	42079
SK 40		25	160	65	64,33	42579 ¹⁾
SK 50		6	160	25	98,48	40678
SK 50		8	160	28	98,48	40878
SK 50		10	160	35	98,26	41078
SK 50		12	160	42	98,26	41278
SK 50		14	160	44	98,26	41478
SK 50		16	160	48	98,84	41678
SK 50		18	160	50	98,84	41878
SK 50		20	160	52	98,84	42078
SK 50		25	160	65	98,60	42578 ¹⁾
SK 50		32	160	72	99,08	43278 ¹⁾

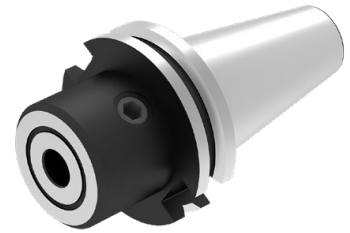
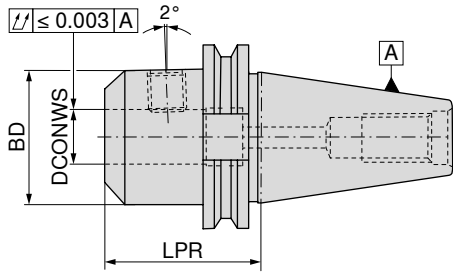
1) Version with two grub screws

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		
short	SK 40	6	50	25	65,05	10679
	SK 40	8	50	28	65,05	10879
	SK 40	10	50	35	60,30	11079
	SK 40	12	50	42	60,30	11279
	SK 40	14	50	44	60,30	11479
	SK 40	16	63	48	66,20	11679
	SK 40	18	63	50	66,20	11879
	SK 40	20	63	52	66,20	12079
	SK 40	25	100	65	84,19	12579 ¹⁾
	SK 40	32	100	72	79,09	13279 ¹⁾
	SK 50	6	63	25	111,00	10678
	SK 50	8	63	28	111,00	10878
	SK 50	10	63	35	106,10	11078
	SK 50	12	63	42	106,10	11278
	SK 50	14	63	44	106,10	11478
	SK 50	16	63	48	106,70	11678
	SK 50	18	63	50	106,70	11878
	SK 50	20	63	52	106,70	12078
SK 50	25	80	65	116,30	12578 ¹⁾	
SK 50	32	100	72	118,20	13278 ¹⁾	
long	SK 40	6	130	25	81,95	30679
	SK 40	8	130	28	81,95	30879
	SK 40	10	130	35	77,22	31079
	SK 40	12	130	42	77,22	31279
	SK 40	16	130	48	82,41	31679
	SK 40	20	130	52	82,41	32079
	SK 40	25	130	65	98,60	32579 ¹⁾
	SK 50	6	130	25	128,90	30678
	SK 50	8	130	28	128,90	30878
	SK 50	10	130	35	124,10	31078
	SK 50	12	130	42	124,10	31278
	SK 50	16	130	48	125,30	31678
	SK 50	20	130	52	125,30	32078
	SK 50	25	130	65	131,40	32578 ¹⁾
	SK 50	32	130	72	131,40	33278 ¹⁾

1) Version with two grub screws

Spare parts cylindrical shank adaptors (Weldon and Whistle Notch)

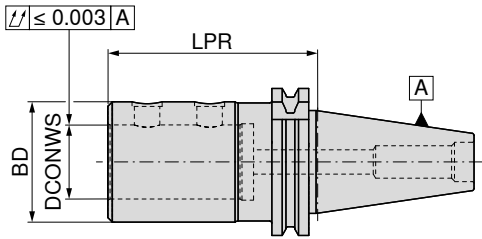
				
	10 950 ...	62 950 ...	62 950 ...	84 950 ...
Spare parts DCONWS _{H4}	EUR W7/6B	EUR W7/6B	EUR W7	EUR Y8
6			M6x10 0,84 006	M5x20 9,70 44100
8			M8x10 0,99 008	M6x20 4,73 21500
10			M10x12 1,31 010	M8x16 9,70 44200
12 - 14	M10X20 DIN 913 3,47 17500		M12x16 1,32 012	
16 - 18			M14x16 1,66 016	M12x20 9,70 44300
20		M16x20 - SW8 1,13 51200	M16x16 2,01 020	
25			M18x2x20 3,66 025	M20x24 9,70 44000
32			M20x2x20 4,04 032	M20x24 9,70 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	EUR	
SK 40	20	80	40	166,70	12079
SK 40	25	85	45	166,70	12579
SK 40	32	90	52	166,70	13279
SK 50	20	80	40	211,80	12078
SK 50	25	85	45	211,80	12578
SK 50	32	90	52	211,80	13278
SK 50	40	90	65	211,80	14078
SK 50	50	100	75	211,80	15078

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



10 950 ...

Spare parts	DCONWS	EUR	
20	M10x1x10	4,96	001
25 - 32	M12x1x10	5,04	002
40 - 50	M16x1x12	5,04	003

Accessories

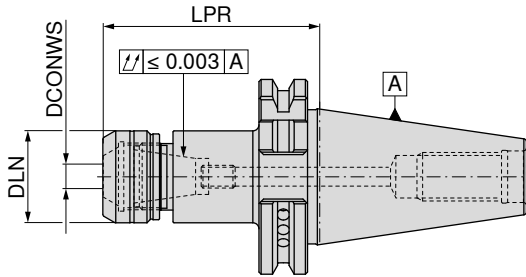
Pull studs	Others
→ 58, 60	→ 284

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	EUR Y8	
SK 40	1 - 10	70	30	426E (ER16)	115,70	11079
SK 40	1 - 10	100	30	426E (ER16)	166,70	21079
SK 40	2 - 16	70	40	430E (ER25)	115,70	11679
SK 40	2 - 16	100	40	430E (ER25)	166,70	21679
SK 40	2 - 20	70	50	470E (ER32)	115,70	12079
SK 40	2 - 20	100	50	470E (ER32)	166,70	22079
SK 50	2 - 16	70	40	430E (ER25)	218,00	11678
SK 50	2 - 16	100	40	430E (ER25)	270,70	21678
SK 50	2 - 20	70	50	470E (ER32)	218,00	12078
SK 50	2 - 20	100	50	470E (ER32)	270,70	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

	EUR Y8	11000	EUR Y8	01000	EUR Y8	00200	EUR Y8	00300
426E (ER16)	43,98	11000	41,44	01000	5,64	00200	4,15	00100
430E (ER25)	43,98	11600	41,44	01600	5,64	00200	4,15	00300
470E (ER32)	43,98	12000	41,44	02000	5,64	00200	4,15	00300

Accessories

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

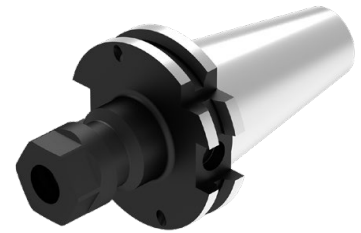
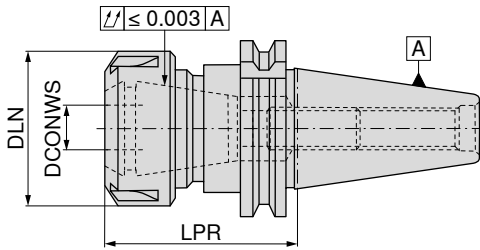
Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
82 950 ...	82 950 ...	82 950 ...	82 950 ...
EUR Y8	EUR Y8	EUR Y8	EUR Y8

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000












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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	1 - 10	70	28	8 - 56	426E (ER16)	109,40	11080 ¹⁾
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	109,40	11680
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	109,40	12080
	SK 40	1 - 10	60	22	8 - 56	426E (ER16 mini)		140,10 11179
	SK 40	1 - 10	60	28	8 - 56	426E (ER16)		73,65 11079 ¹⁾
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		76,98 11679
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		77,22 12079
	SK 40	3 - 26	70	63	176	472E (ER40)		80,27 12679
	SK 50	1 - 10	60	28	8 - 56	426E (ER16)		99,44 11078 ¹⁾
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		103,60 11678
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		105,30 12078
	SK 50	3 - 26	70	63	176	472E (ER40)		107,80 12678
medium length	SK 30	1 - 10	100	28	8 - 56	426E (ER16)	152,90	21080 ¹⁾
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	152,90	21680
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	152,90	22080
	SK 40	1 - 10	120	28	8 - 56	426E (ER16)		80,76 21079 ¹⁾
	SK 40	1 - 10	120	22	8 - 56	426E (ER16 mini)		140,10 21179
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		84,08 21679
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		84,32 22079
	SK 40	3 - 26	100	63	176	472E (ER40)		101,30 22679
	SK 50	1 - 10	100	28	8 - 56	426E (ER16)		95,54 21078 ¹⁾
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		99,44 21678
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		105,80 22078
	SK 50	3 - 26	100	63	176	472E (ER40)		111,00 22678
extra-long	SK 40	1 - 10	160	28	8 - 56	426E (ER16)		126,30 41079 ¹⁾
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		126,30 41679
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		126,30 42079
	SK 40	3 - 26	160	63	176	472E (ER40)		146,10 42679
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		108,40 41678
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		119,40 42078


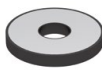


1) with 6 position lock nut

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	EUR W7	EUR Y8	EUR W7	EUR Y8	EUR Y8	EUR W7	EUR Y8	EUR Y8
426E (ER16 mini)					20,81	101		28,31 44600
426E (ER16)	22,96 044					30,82 066	46,98 058	28,31 44600
430E (ER25)		51,29 055	25,68 055	22,85 125				28,31 44400
470E (ER32)		54,43 056	23,93 65600	31,09 132				28,31 44400
472E (ER40)		64,23 057	23,26 65700	34,22 140				28,31 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

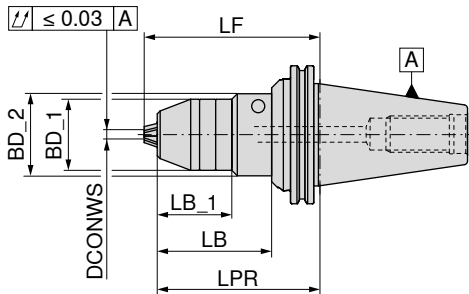
			
→ 271–276, 279	→ 280	→ 58, 60	→ 284

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 ... EUR Y8	313	84 419 ... EUR Y8	
SK 30	0,5 - 10	80	43,0			59,9	89,0	348,70			
SK 40	0,5 - 13	80	48,5			60,8	89,0	267,80	413	285,10	413
SK 40	2,5 - 16	80	51,0			60,0	90,5			310,90	416
SK 40	2,5 - 16	80	51,0			60,8	90,5	285,10	416		
SK 50	0,5 - 13	110	48,5	56	50,9	78,0	119,0			361,00	513
SK 50	0,5 - 13	110	48,5	56	50,9	78,1	119,0	348,70	513		
SK 50	2,5 - 16	110	51,0	56	50,9	78,0	120,5			361,00	516
SK 50	2,5 - 16	110	56,0		50,9	78,0	120,5	354,10	516		

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

Accessories



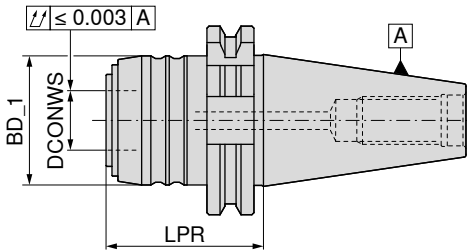
Others
→ 284

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

EUR
Y8
208,30 012
270,40 020
225,80 112
347,50 120

Accessories

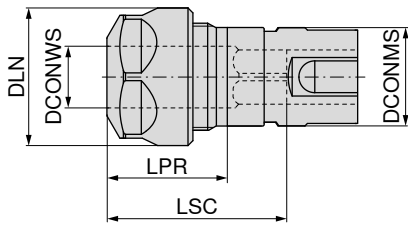
	
Pull studs	Others
→ 58, 60	→ 284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

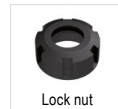
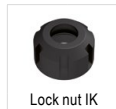
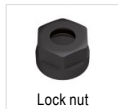
Includes lock nut



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	EUR Y8	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	142,00	164,90 020

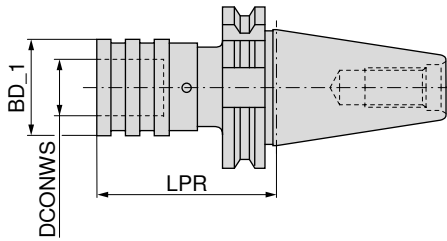
1) with 6 position lock nut

Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...		
	EUR W7	044	EUR Y8	054	EUR W7	054	EUR Y8	116	
83 608 012		M22x1,5 - SW25	22,96	054	39,48	054	22,96	20,69	116
83 608 020					51,29	055	25,68	22,85	125



Quick change tap chuck with length compensation

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



A

83 428 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	EUR Y8	
SK 30	M3 - M12	01	60	38	19	9	340,70	312
SK 30	M6 - M20	02	101	55	31	15	388,00	320
SK 40	M3 - M12	01	60	38	19	9	265,00	412
SK 40	M6 - M20	02	100	55	31	15	285,10	420
SK 50	M3 - M12	01	62	38	19	9	393,40	512
SK 50	M6 - M20	02	83	55	31	15	428,60	520

Accessories

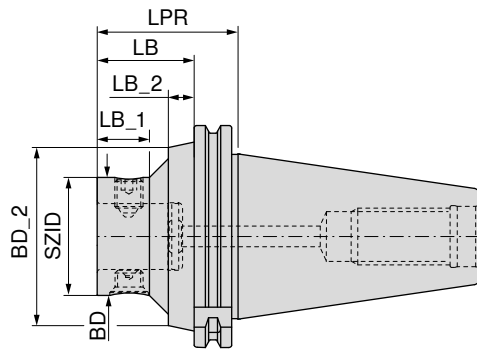
		
Collet	Pull studs	Others
→ 288, 290-292	→ 58, 60	→ 284

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	
SK 40	A50 55120	ABS 25	25	50	30,9	20,0	7,9	50	EUR 257,90 04090
SK 40	A50 55130	ABS 32	32	50	30,9	20,0	7,9	50	EUR 257,90 04089
SK 40	A50 55140	ABS 40	40	50	30,9	20,0		50	EUR 257,90 04088
SK 40	A50 55150	ABS 50	50	50	30,9				EUR 257,90 04097
SK 40	A50 55160	ABS 63	63	90	70,9		15,9	50	EUR 257,90 04096
SK 50	A50 55320	ABS 25	25	60	40,9	20,0	12,9	80	EUR 290,80 05090
SK 50	A50 55330	ABS 32	32	60	40,9	20,0	12,9	80	EUR 290,80 05089
SK 50	A50 55340	ABS 40	40	60	40,9	20,0	12,9	80	EUR 290,80 05088
SK 50	A50 55350	ABS 50	50	60	40,9	22,0	10,9	80	EUR 290,80 05097
SK 50	A50 55360	ABS 63	63	60	40,9	30,4	7,3	80	EUR 290,80 05096
SK 50	A50 55370	ABS 80	80	70	50,9				EUR 290,80 05092
SK 50	A50 55380	ABS 100	100	115	95,9		15,9	80	EUR 290,80 05091

Conversion kit – SK



84 950 ...

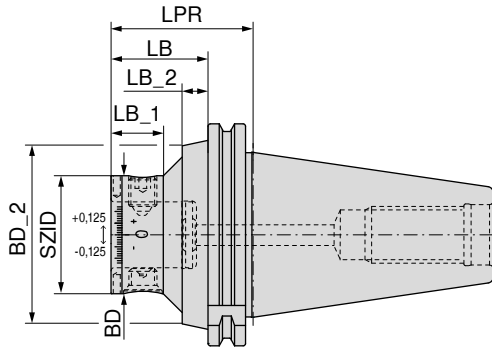
for	Adapter	EUR	
4 mm	SK 40	6,43	23200
6 mm	SK 50	6,43	23400

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 ...

EUR
W4/6A
518,80 04097
518,80 04096

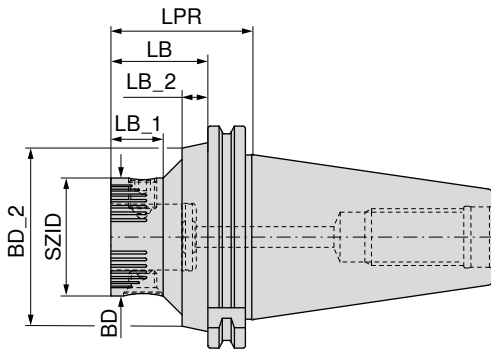
Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	LB_2	BD_2
			mm	mm	mm	mm	mm	mm
SK 40	A50 56150	ABS 50	50	50	30,9			
SK 40	A50 56160	ABS 63	63	90	70,9		15,9	50
SK 50	A50 56350	ABS 50	50	60	40,9	22,0	10,9	80
SK 50	A50 56360	ABS 63	63	60	40,9	30,4	7,3	80

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 ...

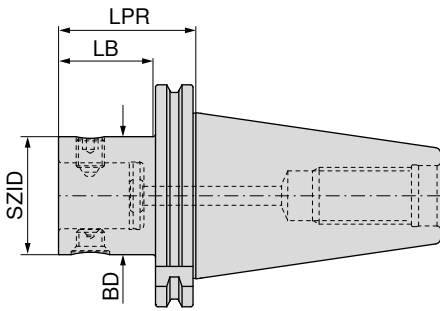
EUR
3E
707,50 04097
842,50 04096

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

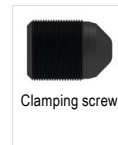
▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

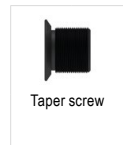
84 264 ...
EUR
Y8
851,80 05073
874,70 06373
888,00 08073
897,60 10073

Adapter	SZID	BD	LPR	LB
		mm	mm	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 ...
EUR
XX
15,74 20300
17,32 25500
19,61 25600
23,21 25700



Taper screw

84 950 ...
EUR
XX
20,18 20400
21,62 27300
24,15 25100
25,41 25200

Spare parts

SZID

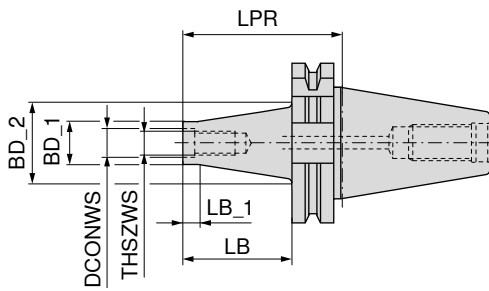
ABS 50	15,74	20300	20,18	20400
ABS 63	17,32	25500	21,62	27300
ABS 80	19,61	25600	24,15	25100
ABS 100	23,21	25700	25,41	25200

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

56 705 ...

56 707 ...

EUR
WA

EUR
WA

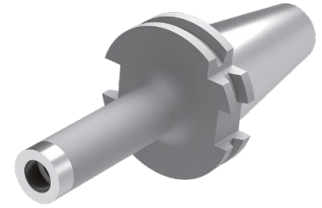
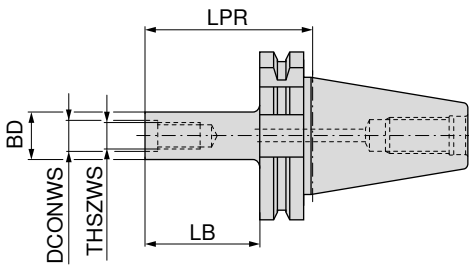
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR		
		mm	mm	mm	mm	mm	mm		
SK 40	M8	8,5	25	13,8	15	12	44	122,90	081
SK 40	M8	8,5	50	13,8	23	12	69	131,70	082
SK 40	M8	8,5	75	13,8	25	12	94	142,00	083
SK 40	M10	10,5	25	18,0	23	12	44	122,90	101
SK 40	M10	10,5	50	18,0	25	12	69	131,70	102
SK 40	M10	10,5	75	18,0	30	12	94	142,00	103
SK 40	M10	10,5	100	18,0	35	12	119	152,80	104
SK 40	M12	12,5	25	21,0	24	12	44	122,90	121
SK 40	M12	12,5	50	21,0	30	12	69	131,70	122
SK 40	M12	12,5	75	21,0	35	12	94	142,00	123
SK 40	M12	12,5	100	21,0	38	12	119	152,80	124
SK 40	M16	17,0	25	29,0	29	12	44	122,90	161
SK 40	M16	17,0	50	29,0	34	12	69	131,70	162
SK 40	M16	17,0	75	29,0	35	12	94	142,00	163
SK 40	M16	17,0	100	29,0	40	12	119	152,80	164
SK 40	M16	17,0	125	29,0	44	12	144	162,40	165
SK 40	M16	17,0	150	29,0	48	12	169	173,00	166
SK 40	M16	17,0	200	29,0	50	12	219	200,20	167
SK 50	M12	12,5	50	21,0	30	12	69	183,90	122
SK 50	M12	12,5	100	21,0	38	12	119	209,70	124
SK 50	M12	12,5	150	21,0	52	12	169	240,70	126
SK 50	M16	17,0	50	29,0	34	12	69	183,90	162
SK 50	M16	17,0	100	29,0	40	12	119	209,70	164
SK 50	M16	17,0	150	29,0	48	12	169	240,70	166
SK 50	M16	17,0	200	29,0	58	12	219	277,30	167
SK 50	M16	17,0	250	29,0	62	12	269	319,10	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	140,70	082
SK 40	M10	10,5	75	18,0	94	151,30	103
SK 40	M10	10,5	100	18,0	119	160,90	104
SK 40	M12	12,5	50	21,0	69	140,70	122
SK 40	M12	12,5	75	21,0	94	151,30	123
SK 40	M12	12,5	100	21,0	119	160,90	124
SK 40	M16	17,0	50	29,0	69	140,70	162
SK 40	M16	17,0	75	29,0	94	151,30	163
SK 40	M16	17,0	100	29,0	119	160,90	164

Accessories

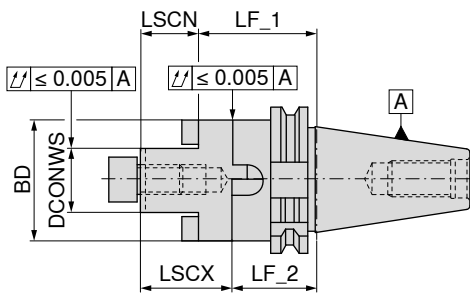
Extension-Reduction set → 257	Pull studs → 58, 60	Others → 284

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 mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm	EUR	
								Y8	
short	SK 30	16	50	32	27	17	40	106,00	11680
	SK 30	22	50	40	31	19	38	106,00	12280
	SK 30	27	55	48	33	21	43	112,60	12780
	SK 30	32	60	58	38	24	46	119,10	13280
	SK 40	16	55	32	27	17	45	72,83	11679
	SK 40	22	55	40	31	19	43	75,68	12279
	SK 40	27	55	48	33	21	43	77,22	12779
	SK 40	32	60	58	38	24	46	81,60	13279
	SK 40	40	60	70	41	27	46	85,85	14079 ¹⁾
	SK 50	16	55	32	27	17	45	109,30	11678
	SK 50	22	55	40	31	19	43	113,10	12278
	SK 50	27	55	48	33	21	43	121,90	12778
	SK 50	32	55	58	38	24	41	125,30	13278
	SK 50	40	55	70	41	27	41	128,90	14078 ¹⁾
	SK 50	50	70	90	46	30	54	140,80	15078 ¹⁾
	medium length	SK 40	16	100	32	27	17	90	97,05
SK 40		22	100	40	31	19	88	101,10	22279
SK 40		27	100	48	33	21	88	103,00	22779
SK 40		32	100	58	38	24	86	108,60	23279
SK 40		40	100	70	41	27	86	114,50	24079

1) With cross screw



Spare parts	DCONWS	83 950 ...		83 370 ...		83 368 ...		83 367 ...		83 950 ...			
		EUR Y8/3B		EUR Y8		EUR Y8		EUR Y8		EUR Y8/3B			
16	4 x 4 x 20	2,11	284	12,79	116	13,79	116	M8	4,17	016	M8x25	3,72	113
22	6 x 6 x 25	2,11	285	14,21	122	17,18	122	M10	4,58	022	M10x25	4,28	124
27	7 x 7 x 25	4,04	286	15,28	127	22,03	127	M12	5,85	027	M12x30	4,73	125
32	8 x 7 x 28	2,43	287	18,25	132	28,38	132	M16	9,39	032	M16x35	5,88	126
40	10 x 8 x 32	2,57	288	27,16	140	39,63	140	M20	14,89	040	M20x40 - SW17	8,35	112
50	12 x 8 x 36	2,91	289	47,86	150	53,96	150	M24	32,98	050			

Accessories

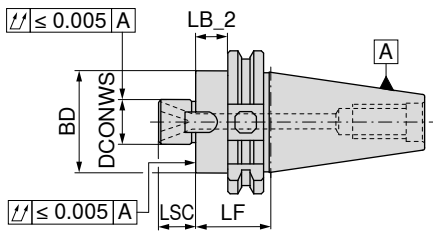
Image	Item	Price
	Pull studs	58, 60
	Milling Adapter Rings	263
	Others	284

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



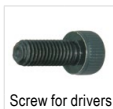
AD
G 2,5 n_{max} 25000

82 315 ...

EUR	
Y8/3B	
116,10	12279
113,20	12779
159,70	12278
162,50	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

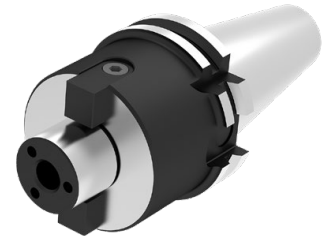
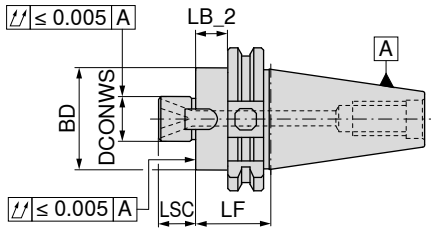
Spare parts	DCONWS		83 950 ...		83 950 ...		83 950 ...
			EUR		EUR		EUR
			Y8/3B		Y8/3B		Y8/3B
	22	M4x8	0,75	51700	10x7x20,5	10,58	51500
	27	M5x8	0,92	51800	12x9x24,3	12,06	51600
					M10x25	4,28	124
					M12x30	4,73	125

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 ...

EUR
Y8

NEW



AD/B

G 2,5 n_{max} 25000

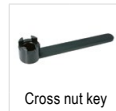
82 745 ...

EUR
Y8

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	SK 30	16	20,9	40	38	17		
	SK 30	22	30,9	50	48	19	99,65	11680
	SK 30	27	35,9	55	58	21	99,65	12280
	SK 30	32	30,9	50	78	24	106,00	12780
	SK 30	32	30,9	50	78	24	113,00	13280
	SK 40	16	25,0	44	38	17		
	SK 40	22	25,0	44	48	19		72,83 11679
	SK 40	27	36,0	55	58	21		77,22 12279
	SK 40	27	36,0	55	58	21		78,62 12779
	SK 40	32	31,0	50	78	24		82,77 13279
medium length	SK 40	40	31,0	50	88	27		90,00 14079 ¹⁾
	SK 50	16	25,0	44	38	17		
	SK 50	22	25,0	44	48	19		112,50 11678
	SK 50	27	25,0	44	58	21		115,40 12278
	SK 50	27	25,0	44	58	21		118,20 12778
	SK 50	32	21,0	40	78	24		127,80 13278
	SK 50	32	21,0	40	78	24		130,10 14078 ¹⁾
	SK 50	40	31,0	50	88	27		
	SK 40	16	81,0	100	38	17		75,32 21679
	SK 40	22	81,0	100	48	19		77,81 22279
long	SK 40	27	81,0	100	58	21		79,09 22779
	SK 40	32	81,0	100	78	24		83,25 23279
	SK 40	40	81,0	100	88	27		86,91 24079 ¹⁾
	SK 50	16	81,0	100	38	17		
	SK 50	22	81,0	100	48	19		119,40 21678
	SK 50	27	81,0	100	58	21		121,90 22278
	SK 50	27	81,0	100	58	21		125,30 22778
	SK 50	32	81,0	100	78	24		128,90 23278
	SK 50	32	81,0	100	78	24		128,90 23278
	SK 50	40	81,0	100	88	27		131,40 24078 ¹⁾
extra-long	SK 40	16	111,0	130	38	17		80,04 31679
	SK 40	22	111,0	130	48	19		82,77 32279
	SK 40	27	111,0	130	58	21		84,08 32779
	SK 40	32	111,0	130	78	24		88,10 33279
	SK 40	40	111,0	130	88	27		91,99 34079 ¹⁾
	SK 50	16	111,0	130	38	17		
	SK 50	22	111,0	130	48	19		126,40 31678
	SK 50	27	111,0	130	58	21		128,90 32278
	SK 50	27	111,0	130	58	21		132,40 32778
	SK 50	32	111,0	130	78	24		136,10 33278
extra-long	SK 50	32	111,0	130	78	24		136,10 33278
	SK 50	40	111,0	130	88	27		138,30 34078 ¹⁾
	SK 40	16	141,0	160	38	17		
	SK 40	22	141,0	160	48	19		82,77 41679
	SK 40	22	141,0	160	48	19		85,48 42279
	SK 40	27	141,0	160	58	21		86,67 42779
	SK 40	32	141,0	160	78	24		90,69 43279
	SK 40	32	141,0	160	78	24		94,48 44079 ¹⁾
	SK 50	16	141,0	160	38	17		130,10 41678
	SK 50	22	141,0	160	48	19		133,70 42278
extra-long	SK 50	27	141,0	160	58	21		136,10 42778
	SK 50	32	141,0	160	78	24		139,60 43278
	SK 50	32	141,0	160	78	24		143,10 44078 ¹⁾
	SK 50	40	141,0	160	88	27		

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

Spare parts facemill adapters



Cross nut key

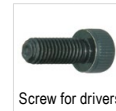


Cross screw

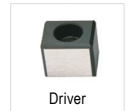


clamping screw

Spare parts DCONWS	83 368 ...		83 367 ...		83 950 ...	
	EUR Y8		EUR Y8		EUR Y8/3B	
16	13,79	116	4,17	016	3,72	113
22	17,18	122	4,58	022	4,28	124
27	22,03	127	5,85	027	4,73	125
32	28,38	132	9,39	032	5,88	126
40	39,63	140	14,89	040	8,35	112



Screw for drivers



Driver

Spare parts DCONWS	84 950 ...		84 950 ...				
	EUR Y8		EUR Y8				
16		M3x12	4,89	162	8x9,8x10	28,76	43400
22		M4x10	4,89	163	10x11,2x12	28,76	43200
27		M4x16	4,89	164	12x12,6x14	28,76	43300
32		M5x16	4,89	166	14x14x22,5	17,98	160
40		M5x16	4,89	166	16x16x23	20,01	161

Accessories

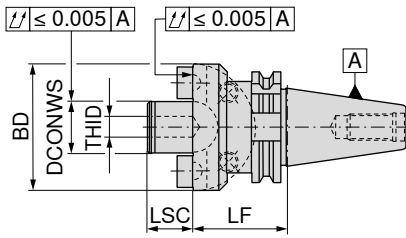
Pull studs	Extensions	Others
→ 58, 60	→ 262	→ 284

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

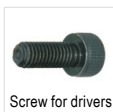


A
G 6,3 n_{max} 8000

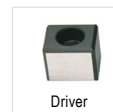
82 432 ...

EUR
Y8
149,10 14079
172,60 14078
209,40 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

84 950 ...

EUR
Y8

4,89 166

84 950 ...

EUR
Y8

20,01 161

83 950 ...

EUR
Y8/3B

4,70 140

Spare parts
DCONWS

40	M5x16	4,89	166	16x16x23	20,01	161	M12x50	4,70	140
60	M12x25	4,67	43500	25,4x25x26,5	28,76	43100	M16x45	12,00	160

Accessories



Pull studs

→ 58, 60

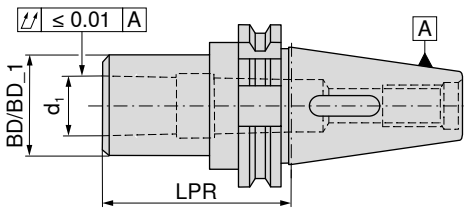


Others

→ 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 ...

EUR

Y8

	Adapter	d ₁	LPR	BD			
			mm	mm			
short	SK 30	MK1	50	25	94,63	11080	
	SK 30	MK2	63	32	94,63	12080	
	SK 30	MK3	80	40	102,90	13080	
	SK 40	MK2	50	32	64,09	12079	
	SK 40	MK1	50	25	64,09	11079	
	SK 40	MK3	70	40	68,45	13079	
	SK 40	MK4	95	48	71,42	14079	
	SK 50	MK1	50	25	87,62	11078	
	SK 50	MK2	60	32	90,69	12078	
	SK 50	MK3	65	40	90,69	13078	
	SK 50	MK4	95	48	93,64	14078	
	SK 50	MK5	105	63	101,80	15078	
	medium length	SK 40	MK2	117	32	91,25	22079
		SK 40	MK3	133	40	101,40	23079
		SK 40	MK4	156	48	110,60	24079

Accessories

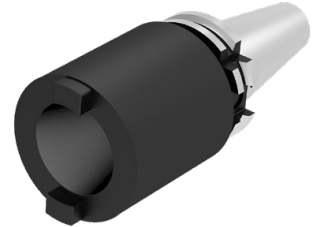
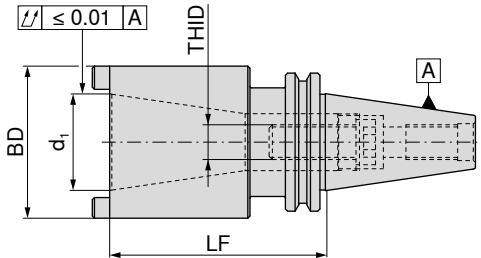
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 58, 60	→ 284

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 ...

EUR

Y8

154,30 13079

120,50 14079

164,20 14078

172,60 15078

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

Spare parts for Article no.

Article no.	Clamping screw SK	Clamping Screw	Counterscrew	Hollow key with nose	Threaded ring	clamping screw
84 040 13079	83 950 ...	84 950 ...	83 950 ...	83 359 ...	84 950 ...	83 950 ...
84 040 14079	EUR Y8/3B 8,35 264	EUR Y8 4,67 43700	EUR Y8/3B 0,61 030	EUR Y8/3B 26,91 017	EUR Y8 33,13 127	EUR Y8/3B 4,73 125
84 040 14078	7,54 009	4,67 43600	0,61 030	32,58 023	30,91 43800	
84 040 15078	26,22 256		0,61 030	40,55 133	30,91 43900	

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

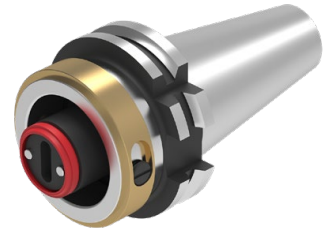
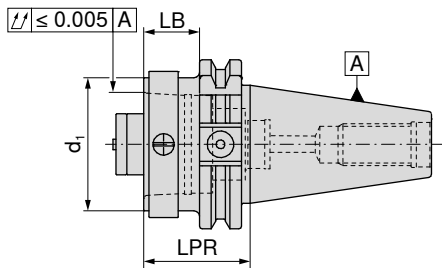
ISO 7388-1	Norm of the SK-shank		Clamping screw length	Clamping screw SK Article no.	Threaded ring Article no.	lock screw Article no.	hollow key Article no.
	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080					
84 040 13079		SK 30	M12 x 30	83 950 125	84 950 127	83 950 030	83 359 017
84 040 14079	SK40		M16 x 70	83 950 264	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 ...

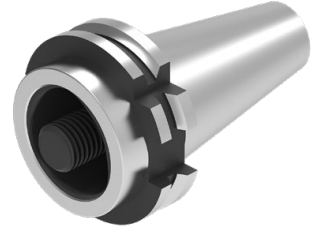
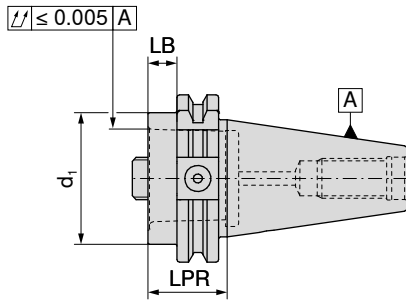
EUR
Y8

Adapter	d ₁	LB mm	LPR mm		
SK 40	HSK-A 32	20,9	40	591,80	04060
SK 40	HSK-A 40	20,9	40	603,70	04059
SK 40	HSK-A 50	20,9	40	615,60	04058
SK 40	HSK-A 63	60,9	80	603,70	04057
SK 50	HSK-A 32	20,9	40	746,30	05060
SK 50	HSK-A 40	20,9	40	746,30	05059
SK 50	HSK-A 50	20,9	40	758,20	05058
SK 50	HSK-A 63	20,9	40	805,90	05057
SK 50	HSK-A 100	80,9	100	948,40	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	EUR Y8	
SK 40	PSC 32	10,9	30	377,80	04087
SK 40	PSC 40	10,9	30	389,80	04095
SK 40	PSC 50	10,9	30	389,80	04094
SK 40	PSC 63	65,9	85	377,80	04093
SK 50	PSC 32	10,9	30	520,60	05087
SK 50	PSC 40	10,9	30	615,60	05095
SK 50	PSC 50	10,9	30	532,40	05094
SK 50	PSC 63	10,9	30	544,30	05093
SK 50	PSC 80	50,9	70	579,90	05086



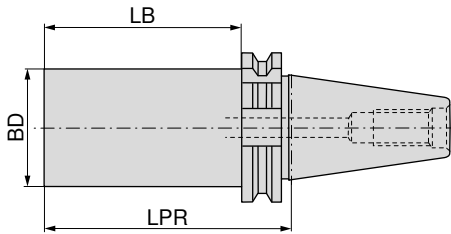
84 950 ...

84 950 ...

Spare parts	d ₁	EUR Y8		EUR Y8	
PSC 32		33,13	127	23,93	122
PSC 40		33,13	128	27,05	123
PSC 50		33,13	129	27,05	124
PSC 63		66,12	130	30,28	126
PSC 80		66,12	130	30,28	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 ...

EUR
Y8

84,89 16379
156,10 16378

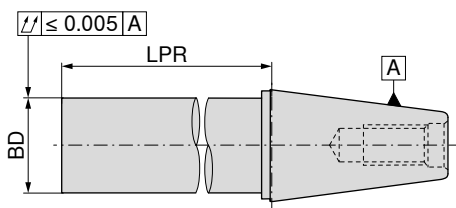
Adapter	BD mm	LPR mm	LB mm
SK 40	63,0	250	231
SK 50	63,5	300	281

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 ...

EUR
Y8

370,10 14079
456,30 15078

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

Accessories

Pull studs	Others
→ 58, 60	→ 284

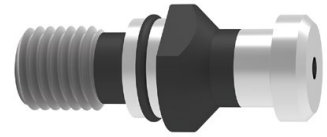
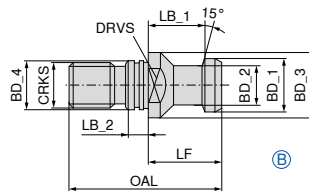
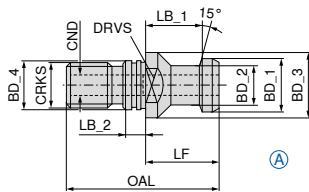
Pull studs for tool holders according to ISO 7388-1

▲ 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 ...	
														EUR		EUR	
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	20	A			12,16	030
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	50	A			6,66	040
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	150	A			10,11	050
SK 30	13	9	17	13	M12	44	24	19	5		14	20	B	12,16	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	50	B	6,66	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	150	B	10,11	050		

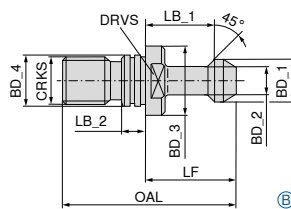
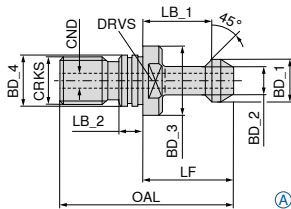
Pull studs for tool holders according to ISO 7388-1

▲ 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 ...	
														EUR		EUR	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	50	A			11,98	040
SK 40	15	10	23	17	M16	57	32	25	5		19	50	B	12,35	040		



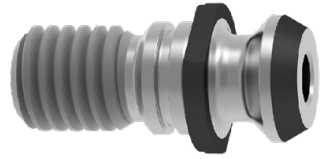
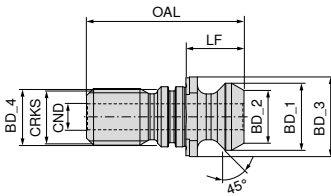
Spare parts

BD_4

	83 476 ...	
	EUR	
17	0,59	040
25	0,59	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 ...

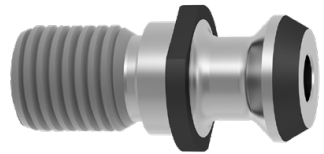
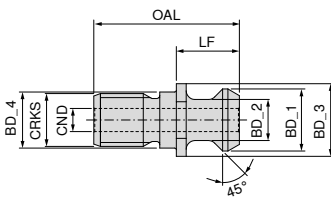
EUR
Y8

7,61 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 ...

EUR
Y8

7,61 14000

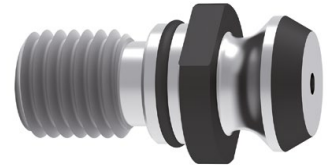
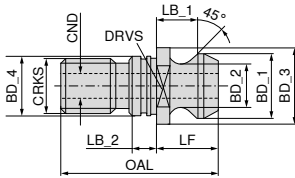
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	CND mm	DRVS mm	TQX Nm
SK 40	18,796	12,449	22	17	M16	44,106	19,106	14,026	7	19	50

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



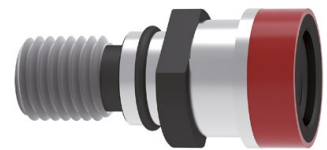
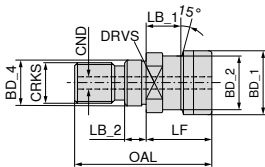
82 487 ...

Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm
SK 40	18,79	12,44	21,8	17	M16	41,26	16,25	11,17	4,0	7,0	19	50
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	150

EUR	
Y8	
7,05	040
10,11	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



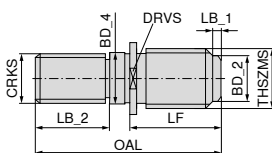
Adapter	BD_1 mm	BD_2 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	50
SK 50	39,3	32,0	25	M24	65	25	13,3	10		30	150

without internal thread		with internal thread	
82 493 ...		82 494 ...	
EUR		EUR	
Y8		Y8	
7,93	040	8,31	040
11,11	050 ¹⁾	12,37	050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

- ▲ DECKEL thread S 20 x 2



83 471 ...

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

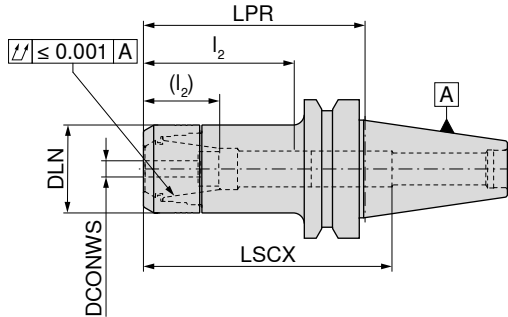
EUR	
Y8	
26,22	040

ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without 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	EUR Y8	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	116,70	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	130,90	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	151,70	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	164,50	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	128,30	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	131,10	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	144,00	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	164,60	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	128,30	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	131,10	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	144,00	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	116,70	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	129,70	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	175,00	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	193,20	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	257,90	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	123,20	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	116,70	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	129,70	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	164,50	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	188,00	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	206,20	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	258,00	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	123,20	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	116,70	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	129,70	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	188,00	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	206,20	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	155,60	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	181,50	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	213,90	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	258,00	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	369,50	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	226,80	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	271,00	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

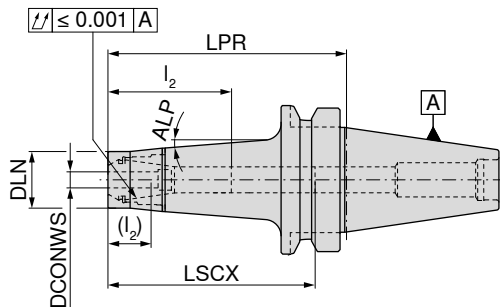
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	45,38 011	36,28 001	M11x1 - SW6 18,15 341	M11x1 - SW6 12,81 337
430E (ER25)	49,29 013	40,16 003	M18x1,5 - SW6 20,50 432	M18x1,5 - SW6 14,72 431
470E (ER32)	51,87 015	42,72 005	M22x1,5 - SW6 20,50 402	M22x1,5 - SW6 14,72 401
472E (ER40)	70,01 017	58,34 007		M28x1,5 - SW6 13,34 400

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 ...
EUR Y8
147,70 410
189,10 31000
197,00 510

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4,5°
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)	4,5°
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4,5°







→ 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

				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	53,16 033	42,72 031	M11x1 - SW6 18,15 341	M11x1 - SW6 12,81 337

Accessories

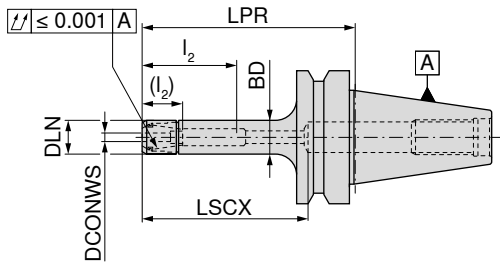
					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 286	→ 286	→ 110-111	→ 284

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



AD/B

G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	AD EUR Y8	AD/B EUR Y8
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)	136,20	
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	151,70	
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		151,70 307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		151,70 40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		201,00 507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		224,30 90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		151,70 216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		151,70 316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		201,00 416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		224,30 516

→ 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 84 950 ... EUR Y8	Mini lock nut 84 950 ... EUR Y8	Stop screw 2 83 950 ... EUR Y8	Stop screw 1 83 950 ... EUR Y8
4008E (ER11)		42,72 041	17,45 340	12,81 336
426E (ER16)	53,15 035	42,72 034	18,15 341	12,81 337

Accessories

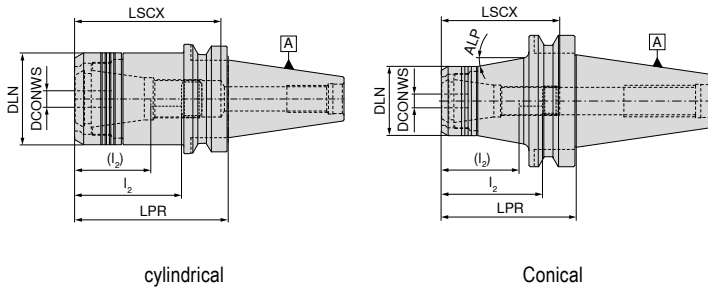
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 110-111	→ 284

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 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	84 400 ... EUR Y8	84 400 ... EUR Y8
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	217,90	12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	226,90	22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		337,90 12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		394,60 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	84 950 ... EUR Y8	83 950 ... EUR Y8	83 950 ... EUR Y8
2 - 20	90,88 30100	M22x1,5 - SW6 20,50 402	M22x1,5 - SW6 14,72 401

Accessories

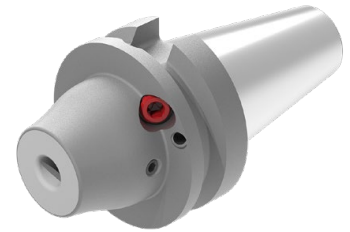
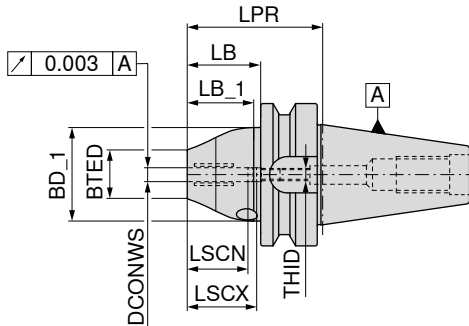
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 110-111	→ 284

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 ...

EUR
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	384,30 10669
BT 40	8	58,0	28	42	27,2	31,0	37	27	M6	384,30 10869
BT 40	10	58,0	30	42	27,2	31,0	41	31	M8x1	384,30 11069
BT 40	12	58,0	32	49	27,2	31,0	46	36	M10x1	384,30 11269
BT 40	16	72,5	38	49	41,7	45,5	49	38	M12x1	384,30 11669
BT 40	20	72,5	38	49	41,7	45,5	51	41	M16x1	384,30 12069

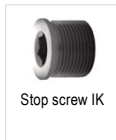
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts

DCONWS			80 397 ... EUR Y7		83 950 ... EUR Y8		83 950 ... EUR Y7
6	SW5	5,46 050	M10x12	7,56 55000	M5x12,5 - SW2,5	10,45 418	
8	SW5	5,46 050	M10x12	7,56 55000	M6x12,5 - SW3	10,45 419	
10	SW5	5,46 050	M10x12	7,56 55000	M8x1x13,5 - SW3	10,45 420	
12	SW5	5,46 050	M10x12	7,56 55000	M10x1x13,5 - SW5	10,45 421	
16	SW5	5,46 050	M10x12	7,56 55000	M12x1x13,5 - SW5	10,45 422	
20	SW5	5,46 050	M10x12	7,56 55000	M16x1x13,5 - SW8	12,04 424	

Accessories

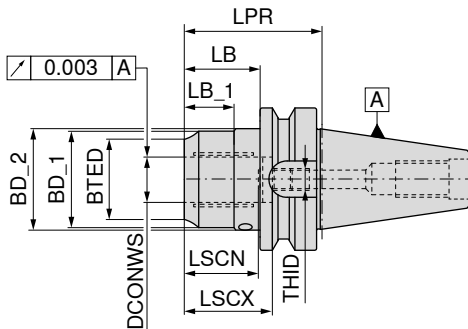
Reduction sleeve	Pull studs	Others
→ 282	→ 110–111	→ 284

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

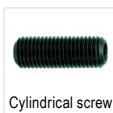


AD/B
G 2,5 n_{max} 25000

83 513 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	EUR	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Y8	
BT 40	20	72,5	38					51	40	M16x1x13,5	310,90	120
BT 40	32	90,0	54	63		63,0		61	51	M16x1x13,5	302,70	13269
BT 50	20	83,5	38	49		45,5		51	41	M16x1x13,5	376,20	12068
BT 50	32	90,0	57	68	72	52,0	35	61	51	M16x1x13,5	376,20	13268

→ Min. clamping depth, Page 312



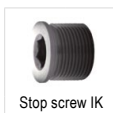
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...				
	EUR		EUR		EUR		EUR				
83 513 13269		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424
83 513 12068		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424
83 513 13268		M5x5 - SW2,5	2,39	157	5,46	050	5,51	429	M16x1x13,5 - SW8	12,04	424

Accessories

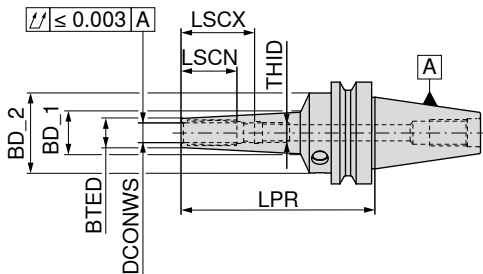
Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

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

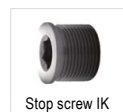
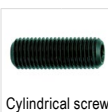


AD/B
G 2,5 n_{max} 25000

83 522 ...

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LSCX	LSCN	THID	EUR	
										mm	mm
medium length	BT40	3	120	9	16,55	49,5	28	12	M3	551,60	103
	BT40	4	120	10	17,55	49,5	28	16	M3	551,60	104
	BT40	5	120	11	18,55	49,5	28	20	M3	551,60	105
	BT40	6	120	12	19,55	49,5	37	27	M5	470,50	106
	BT40	8	120	14	21,55	49,5	37	27	M6	470,50	108
	BT40	10	120	16	23,65	49,5	41	31	M8x1	470,50	110
	BT40	12	120	18	25,76	49,5	46	36	M10x1	470,50	112
	BT40	16	120	24	31,45	49,5	49	39	M12x1	755,70	116
	BT40	20	120	28	35,55	49,5	51	41	M16x1	755,70	120
	BT40	6	160	16	33,53	49,5	37	27	M5	708,50	206
	BT40	8	160	18	34,60	49,5	37	27	M6	708,50	208
	BT40	10	160	20	36,27	49,5	41	31	M8x1	708,50	210
	BT40	12	160	22	37,88	49,5	46	36	M10x1	708,50	212
	BT40	6	200	16	37,88	49,5	37	27	M5	796,20	306
	BT40	8	200	18	38,90	49,5	37	27	M6	796,20	308
	BT40	10	200	20	40,57	49,5	41	31	M8x1	796,20	310
	BT40	12	200	22	42,18	49,5	46	36	M10x1	796,20	312

→ Min. clamping depth, Page 312



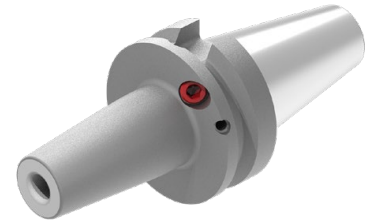
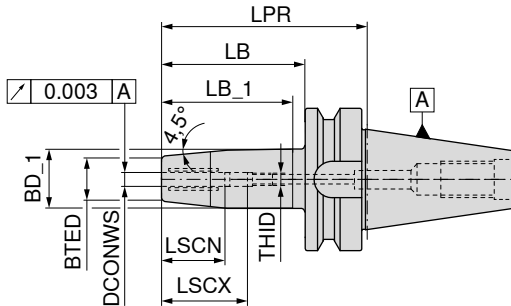
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...					
	EUR	Y7	EUR	Y7	EUR	Y7	EUR	Y7				
83 522 103	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 522 104	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 522 105	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172
83 522 106	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 522 108	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 522 110	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 522 112	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M10x1x13,5 - SW5	10,45	421
83 522 116	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M12x1x13,5 - SW5	10,45	422
83 522 120	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M16x1x13,5 - SW8	12,04	424
83 522 206	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 522 208	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 522 210	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 522 212	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M10x1x13,5 - SW5	10,45	421
83 522 306	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418
83 522 308	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419
83 522 310	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420
83 522 312	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x12	15,28	159	M10x1x13,5 - SW5	10,45	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 ...

EUR
Y8
459,90 10669
459,90 10869
459,90 11069
459,90 11269
459,90 11669
459,90 12069

Adapter	DCONWS	LPR	BTED	BD_1	LB_1	LB	LSCX	LSCN	THID
	mm	mm	mm	mm	mm	mm	mm	mm	
BT 40	6	90	21	27	57,7	63	37	27	M5
BT 40	8	90	21	27	57,7	63	37	27	M6
BT 40	10	90	24	32	57,7	63	41	31	M8x1
BT 40	12	90	24	32	57,7	63	46	36	M10x1
BT 40	16	90	27	34	57,2	63	49	39	M12x1
BT 40	20	90	33	42	57,5	63	51	41	M16x1

→ Min. clamping depth, Page 312



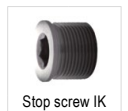
80 397 ...

EUR
Y7



83 950 ...

EUR
Y8



83 950 ...

EUR
Y7

Spare parts

DCONWS								
6	SW5	5,46	050	M10x12	7,56	55000	M5x12,5 - SW2,5	10,45 418
8	SW5	5,46	050	M10x12	7,56	55000	M6x12,5 - SW3	10,45 419
10	SW5	5,46	050	M10x12	7,56	55000	M8x1x13,5 - SW3	10,45 420
12	SW5	5,46	050	M10x12	7,56	55000	M10x1x13,5 - SW5	10,45 421
16	SW5	5,46	050	M10x12	7,56	55000	M12x1x13,5 - SW5	10,45 422
20	SW5	5,46	050	M10x12	7,56	55000	M16x1x13,5 - SW8	12,04 424



Reduction sleeve
→ 282



Pull studs
→ 110–111



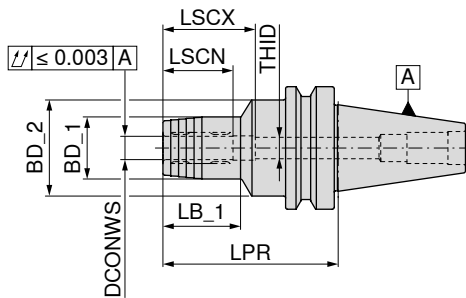
Others
→ 284

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

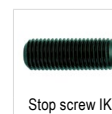
83 521 ...

Adapter	DCONWS	LPR	BD_1	BD_2	LSCX	LSCN	LB_1	THID	EUR	
	mm	mm	mm	mm	mm	mm	mm		Y8	
BT 40	6	90	26	49,5	37	27	29	M5	474,50	106
BT 40	8	90	28	49,5	37	27	30	M6	474,50	108
BT 40	10	90	30	49,5	41	31	35	M8x1	474,50	110
BT 40	12	90	32	49,5	46	36	40	M10x1	412,30	112
BT 40	16	90	38	49,5	49	39	45	M12x1	474,50	116
BT 40	20	90	42	49,5	51	41	47	M16x1	412,30	120
BT 40	25	90	55	52,0	57	47	50	M16x1	474,50	125
BT 40	32	90	63	62,0	61	51	48	M16x1	474,50	132
BT 50	6	90	26	49,5	37	27	29	M5	663,70	306
BT 50	8	90	28	49,5	37	27	30	M6	663,70	308
BT 50	10	90	30	49,5	41	31	34	M8x1	663,70	310
BT 50	12	90	32	49,5	46	36	34	M10x1	601,70	312
BT 50	16	90	38	49,5	49	39	35	M12x1	663,70	316
BT 50	20	90	42	49,5	51	41	35	M16x1	601,70	320
BT 50	25	110	55	63,0	57	47	48	M16x1	663,70	325
BT 50	32	110	63	70,0	61	51	50	M16x1	663,70	332

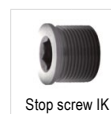
→ Min. clamping depth, Page 312



Pressure screw



Stop screw IK



Stop screw IK

Spare parts	83 950 ...		83 950 ...		83 950 ...	
	DCONWS	EUR Y7		EUR Y7		EUR Y7
6	M8x1x10	7,07 439			M5x12,5 - SW2,5	10,45 418
8	M8x1x10	7,07 439	M6x14 - SW2	10,45 417	M6x12,5 - SW3	10,45 419
10	M10x1x12	7,07 440			M8x1x13,5 - SW3	10,45 420
12	M10x1x12	7,07 440			M10x1x13,5 - SW5	10,45 421
16	M10x1x12	7,07 440			M12x1x13,5 - SW5	10,45 422
20 - 32	M10x1x12	7,07 440			M16x1x13,5 - SW8	12,04 424

Accessories

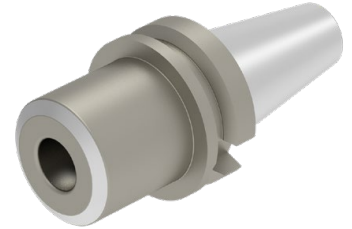
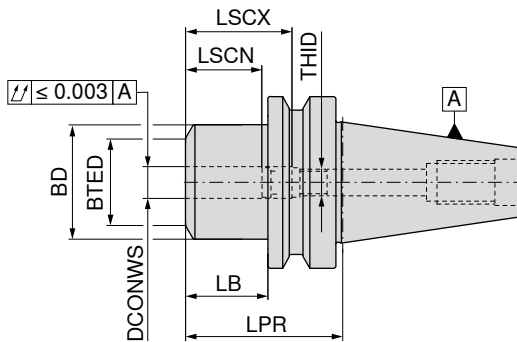
Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

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 ...

Adapter	DCONWS	LPR	BD	BTED	LB	LSCN	LSCX	THID	EUR	Article no.
	mm	mm	mm	mm	mm	mm	mm			
BT 40	12	58,0	42	32	31,0	36	46	M8x1	196,40	01269
BT 40	20	72,5	49	38	45,5	41	51	M16x1	196,40	02069
BT 50	20	83,5	49	38	45,5	41	51	M16x1	351,00	02068

→ Min. clamping depth, Page 312

Spare parts for Article no.

Article no.	EUR	Y7	EUR	Y7	EUR	Y7	EUR	Y7
83 430 01269	5,46	050	7,07	440	10,45	420		
83 430 02069	5,46	050	7,07	440	12,04	424		
83 430 02068	5,46	050	7,07	440	12,04	424		

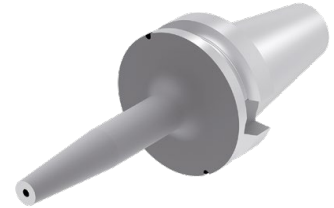
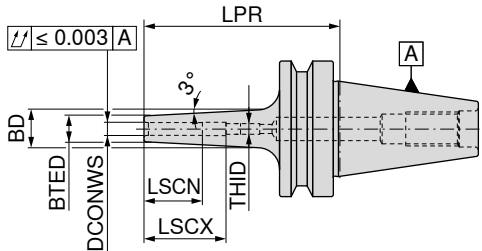


Article no.	EUR	Y7	EUR	Y7	EUR	Y7
80 397 ...	5,46	050	7,07	440	10,45	420
83 950 ...	5,46	050	7,07	440	12,04	424
83 950 ...	5,46	050	7,07	440	12,04	424

Shrink adapter, Slim 3°

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

TG

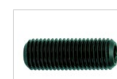


AD/B
G 2,5 n_{max} 25000

84 323 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		EUR	
		mm	mm	mm	mm	mm	mm			Y8	
short	BT 40	3	90	9	15	28	12	M6		206,80	103
	BT 40	4	90	10	16	28	16	M6		201,40	104
	BT 40	5	90	11	17	30	20	M6		201,40	105
	BT 40	6	90	12	18	36	26	M5		178,50	106
	BT 40	8	90	14	20	36	26	M6		178,50	108
	BT 40	10	90	16	22	41	31	M8x1		178,50	110
	BT 40	12	90	18	24	47	37	M10x1		178,50	112
	BT 40	14	90	20	26	47	37	M10x1		178,50	114
	BT 40	16	90	22	28	50	40	M12x1		178,50	116
	BT 40	18	90	24	30	50	40	M12x1		178,50	118
	BT 40	20	90	26	32	52	42	M16x1		178,50	120
medium length	BT 40	3	120	9	16	12	12			231,30	203
	BT 40	4	120	10	17	16	16			227,20	204
	BT 40	5	120	11	18	20	20			227,20	205
	BT 40	6	120	12	21	36	26	M5		202,80	206
	BT 40	8	120	14	23	36	26	M6		202,80	208
	BT 40	10	120	16	25	41	31	M8x1		202,80	210
	BT 40	12	120	18	27	47	37	M10x1		202,80	212
	BT 40	14	120	20	29	47	37	M10x1		202,80	214
	BT 40	16	120	22	31	50	40	M12x1		202,80	216
	BT 40	18	120	24	33	50	40	M12x1		202,80	218
	BT 40	20	120	26	35	52	42	M16x1		202,80	220
extra-long	BT 40	3	160	9	19	12	12			261,00	303
	BT 40	4	160	10	20	16	16			255,60	304
	BT 40	5	160	11	21	20	20			255,60	305
	BT 40	6	160	12	24	36	26	M5		232,60	306
	BT 40	8	160	14	26	36	26	M6		232,60	308
	BT 40	10	160	16	28	41	31	M8x1		232,60	310
	BT 40	12	160	18	30	47	37	M10x1		232,60	312
	BT 40	14	160	20	32	47	37	M10x1		232,60	314
	BT 40	16	160	22	34	50	40	M12x1		232,60	316
	BT 40	18	160	24	36	50	40	M12x1		232,60	318
	BT 40	20	160	26	38	52	42	M16x1		232,60	320

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts
DCONWS

DCONWS		EUR	
3 - 5	M6x14 - SW2	10,45	417
6			
8			
10			
12 - 14			
16 - 18			
20			

83 950 ...

EUR Y7

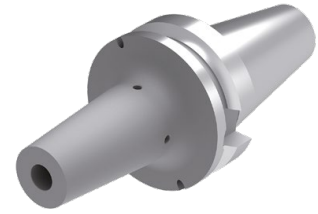
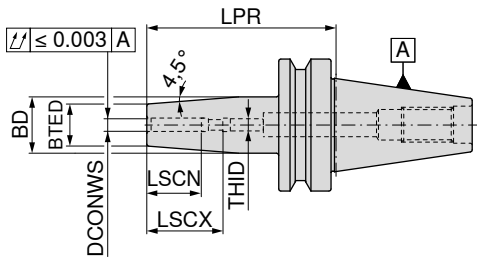
83 950 ...

EUR Y7

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 ...	
									EUR Y8	EUR Y8
short	BT 30	3	85	10	17	28	12	M6	208,30	003
	BT 30	4	85	15	22	28	16	M6	201,40	004
	BT 30	5	85	15	22	30	20	M6	201,40	005
	BT 30	6	85	21	27	36	26	M5	178,50	006
	BT 30	8	85	21	27	36	26	M6	178,50	008
	BT 30	10	85	24	32	41	31	M8x1	178,50	010
	BT 30	12	85	24	32	47	37	M10x1	178,50	012
	BT 30	14	85	27	34	47	37	M10x1	178,50	014
	BT 30	16	85	27	34	50	40	M12x1	178,50	016
	BT 30	18	85	33	42	50	40	M12x1	178,50	018
	BT 30	20	85	33	42	52	42	M16x1	178,50	020
	BT 40	3	90	10	17	28	12	M6		183,90 103
	BT 40	4	90	15	22	28	16	M6		177,10 104
	BT 40	5	90	15	22	30	20	M6		177,10 105
	BT 40	6	90	21	27	36	26	M5		158,20 106
	BT 40	8	90	21	27	36	26	M6		158,20 108
	BT 40	10	90	24	32	41	31	M8x1		158,20 110
	BT 40	12	90	24	32	47	37	M10x1		158,20 112
	BT 40	14	90	27	34	47	37	M10x1		158,20 114
	BT 40	16	90	27	34	50	40	M12x1		158,20 116
	BT 40	18	90	33	42	50	40	M12x1		158,20 118
medium length	BT 40	20	90	33	42	52	42	M16x1		158,20 120
	BT 40	25	100	44	53	58	48	M16x1		158,20 125
	BT 40	3	120	10	20	12	12			204,30 203
	BT 40	4	120	15	22	16	16			200,20 204
	BT 40	5	120	15	22	20	20			200,20 205
	BT 40	6	120	21	27	36	26	M5		177,10 206
	BT 40	8	120	21	27	36	26	M6		177,10 208
	BT 40	10	120	24	32	41	31	M8x1		177,10 210
	BT 40	12	120	24	32	47	37	M10x1		177,10 212
	BT 40	14	120	27	34	47	37	M10x1		177,10 214
extra-long	BT 40	16	120	27	34	50	40	M12x1		177,10 216
	BT 40	18	120	33	42	50	40	M12x1		177,10 218
	BT 40	20	120	33	42	52	42	M16x1		177,10 220
	BT 40	25	120	44	53	58	48	M16x1		177,10 225
	BT 40	3	160	10	20	12	12			232,60 303
	BT 40	4	160	15	22	16	16			227,20 304
	BT 40	5	160	15	22	20	20			227,20 305
	BT 40	6	160	21	27	36	26	M5		205,50 306
	BT 40	8	160	21	27	36	26	M6		205,50 308
	BT 40	10	160	24	32	41	31	M8x1		205,50 310
BT 40	12	160	24	32	47	37	M10x1		205,50 312	
BT 40	14	160	27	34	47	37	M10x1		205,50 314	
BT 40	16	160	27	34	50	40	M12x1		205,50 316	
BT 40	18	160	33	42	50	40	M12x1		205,50 318	
BT 40	20	160	33	42	52	42	M16x1		205,50 320	
BT 40	25	160	44	53	58	48	M16x1		205,50 325	

→ Min. clamping depth, Page 312

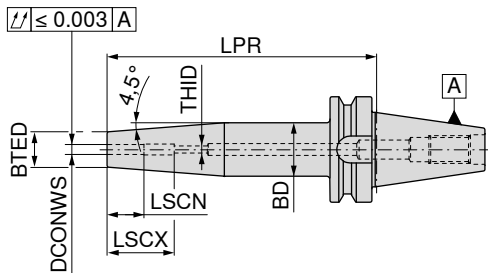
Spare parts heat shrink adapter 4.5°

Spare parts DCONWS		 Stop screw IK		 Stop screw IK	
		83 950 ...	EUR Y7	83 950 ...	EUR Y7
3 - 5	M6x14 - SW2	10,45	417		
6				M5x12,5 - SW2,5	10,45 418
8				M6x12,5 - SW3	10,45 419
10				M8x1x13,5 - SW3	10,45 420
12 - 14				M10x1x13,5 - SW5	10,45 421
16 - 18				M12x1x13,5 - SW5	10,45 422
20 - 25				M16x1x13,5 - SW8	12,04 424

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 ...

EUR
Y8/3B

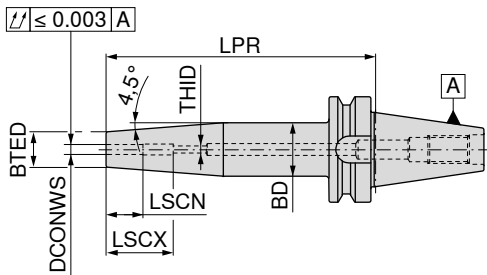
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	BT 40	3	90	11	15				164,90 10369
	BT 40	4	90	11	15				158,20 10469
	BT 40	5	90	11	15				158,20 10569
	BT 40	6	90	21	27	36	26	M5	142,00 10669
	BT 40	8	90	21	27	36	26	M6	142,00 10869
	BT 40	10	90	24	34	41	31	M8x1	142,00 11069
	BT 40	12	90	24	34	46	36	M10x1	142,00 11269
	BT 40	14	90	27	34	46	36	M10x1	142,00 11469
	BT 40	16	90	27	34	49	39	M12x1	142,00 11669
	BT 40	18	90	33	42	49	39	M12x1	142,00 11869
	BT 40	20	90	33	42	51	41	M16x1	142,00 12069
	BT 40	25	100	44	53	57	47	M16x1	142,00 12569
	BT 50	6	100	21	27	36	26	M5	181,30 10668
	BT 50	8	100	21	27	36	26	M6	181,30 10868
	BT 50	10	100	24	32	41	31	M8x1	181,30 11068
	BT 50	12	100	24	32	47	37	M10x1	181,30 11268
	BT 50	14	100	27	34	47	37	M10x1	181,30 11468
	BT 50	16	100	27	34	50	40	M12x1	181,30 11668
	BT 50	18	100	33	42	50	40	M12x1	181,30 11868
	BT 50	20	100	33	42	52	42	M16x1	181,30 12068
	BT 50	25	100	44	53	58	48	M16x1	181,30 12568
	BT 50	32	100	44	53	62	52	M16x1	181,30 13268
medium length	BT 50	6	120	21	27	36	26	M5	199,00 20668
	BT 50	8	120	21	27	36	26	M6	199,00 20868
	BT 50	10	120	24	32	41	31	M8x1	199,00 21068
	BT 50	12	120	24	32	47	37	M10x1	199,00 21268
	BT 50	14	120	27	34	47	37	M10x1	199,00 21468
	BT 50	16	120	27	34	50	40	M12x1	199,00 21668
	BT 50	18	120	33	42	50	40	M12x1	199,00 21868
	BT 50	20	120	33	42	52	42	M16x1	199,00 22068
	BT 50	25	120	44	53	58	48	M16x1	199,00 22568
	BT 50	32	120	44	53	62	52	M16x1	199,00 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 ...

EUR
Y8/3B

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		EUR	
extra-long	BT 40	6	160	21	27	36	26	M5	183,90	30669
	BT 40	8	160	21	27	36	26	M6	183,90	30869
	BT 40	10	160	24	34	41	31	M8x1	183,90	31069
	BT 40	12	160	24	34	46	36	M10x1	183,90	31269
	BT 40	14	160	27	34	46	36	M10x1	183,90	31469
	BT 40	16	160	27	34	49	39	M12x1	183,90	31669
	BT 40	18	160	33	42	49	39	M12x1	183,90	31869
	BT 40	20	160	33	42	51	41	M16x1	183,90	32069
	BT 40	25	160	44	53	57	47	M16x1	183,90	32569
	BT 50	6	160	21	27	36	26	M5	221,20	30668
	BT 50	8	160	21	27	36	26	M6	221,20	30868
	BT 50	10	160	24	32	41	31	M8x1	221,20	31068
	BT 50	12	160	24	32	47	37	M10x1	221,20	31268
	BT 50	14	160	27	34	47	37	M10x1	221,20	31468
	BT 50	16	160	27	34	50	40	M12x1	221,20	31668
	BT 50	18	160	33	42	50	40	M12x1	221,20	31868
BT 50	20	160	33	42	52	42	M16x1	221,20	32068	
BT 50	25	160	44	53	58	48	M16x1	221,20	32568	
BT 50	32	160	44	53	62	52	M16x1	221,20	33268	

→ Min. clamping depth, Page 312



Stop screw IK

82 950 ...

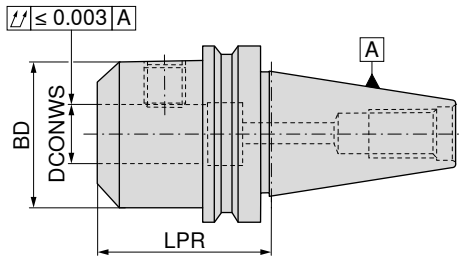
EUR
Y8/3B

Spare parts
DCONWS

6	M5x16 - SW2,5	2,72	30000
8	M6x16 - SW3	2,91	30100
10	M8x1x16 - SW4	3,08	30200
12 - 14	M10x1x14 - SW5	3,27	30300
16 - 18	M12x1x16 - SW6	3,44	30400
20 - 32	M16x1x16 - SW8	3,62	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**



NEW



AD

G 2,5 n_{max} 25000

82 741 ...

EUR
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
short	BT 30	6	50	25	106,00	10670
	BT 30	8	50	28	96,54	10870
	BT 30	10	50	35	96,54	11070
	BT 30	12	55	42	96,54	11270
	BT 30	14	55	44	96,54	11470
	BT 30	16	63	48	96,54	11670
	BT 30	18	63	50	96,54	11870
	BT 30	20	63	52	115,60	12070
extra short	BT 40	16	35	48	57,00	01669
	BT 40	20	35	50	57,00	02069
	BT 40	25	40	50	62,31	02569 ¹⁾
	BT 40	32	75	72	78,74	03269 ¹⁾

1) Version with two grub screws





Grubscrew

62 950 ...

Spare parts

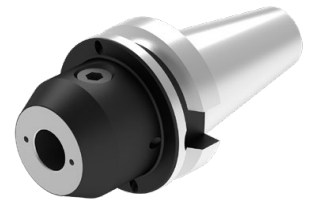
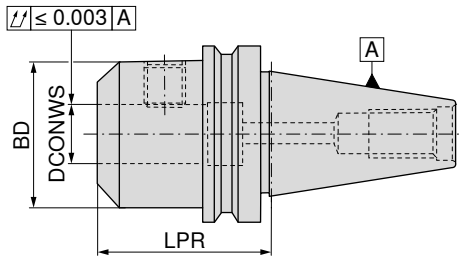
DCONWS		EUR W7	
6	M6x10	0,84	006
8	M8x10	0,99	008
10	M10x12	1,31	010
12 - 14	M12x16	1,32	012
16 - 18	M14x16	1,66	016
20	M16x16	2,01	020
25	M18x2x20	3,66	025
32	M20x2x20	4,04	032

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 ...

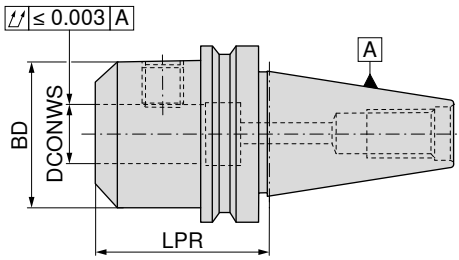
EUR
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	82 740 ...	
					EUR	Y8
short	BT 40	6	50	25	52,74	10669
	BT 40	8	50	28	52,74	10869
	BT 40	10	63	35	49,78	11069
	BT 40	12	63	42	49,78	11269
	BT 40	14	63	44	49,78	11469
	BT 40	16	63	48	53,91	11669
	BT 40	18	63	50	53,91	11869
	BT 40	20	63	52	53,91	12069
	BT 40	25	100	65	59,14	12569
	BT 40	32	100	72	64,33	13269 ¹⁾
	BT 40	40	120	80	70,36	14069 ¹⁾
	medium length	BT 50	6	63	25	71,65
BT 50		8	63	28	71,65	10868
BT 50		10	80	35	69,65	11068
BT 50		12	80	42	73,90	11268
BT 50		14	80	44	73,90	11468
BT 50		16	80	48	73,90	11668
BT 50		18	80	50	73,90	11868
BT 50		20	80	52	73,90	12068
BT 50		25	100	65	82,18	12568 ¹⁾
BT 50		32	105	72	83,84	13268 ¹⁾
BT 50		40	120	80	86,91	14068 ¹⁾
medium length		BT 40	6	100	25	54,98
	BT 40	8	100	28	54,98	20869
	BT 40	10	100	35	51,90	21069
	BT 40	12	100	42	51,90	21269
	BT 40	14	100	44	51,56	21469
	BT 40	16	100	48	57,00	21669
	BT 40	18	100	50	56,75	21869
	BT 40	20	100	52	57,00	22069
	BT 50	6	100	25	80,27	20668
	BT 50	8	100	28	80,27	20868
	BT 50	10	100	35	76,74	21068
	BT 50	12	100	42	76,74	21268
BT 50	14	100	44	76,74	21468	
BT 50	16	100	48	77,22	21668	
BT 50	18	100	50	77,22	21868	
BT 50	20	100	52	77,22	22068	
BT 50	25	120	65	84,08	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**



NEW



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

82 740 ...

**EUR
Y8**

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm		
					EUR	
extra-long	BT 40	6	160	25	63,26	40669
	BT 40	8	160	28	63,26	40869
	BT 40	10	160	35	59,94	41069
	BT 40	12	160	42	59,94	41269
	BT 40	14	160	44	59,94	41469
	BT 40	16	160	48	60,19	41669
	BT 40	18	160	50	60,19	41869
	BT 40	20	160	52	60,19	42069
	BT 40	25	160	65	64,33	42569 ¹⁾
	BT 50	6	160	25	98,13	40668
	BT 50	8	160	28	98,13	40868
	BT 50	10	160	35	98,26	41068
	BT 50	12	160	42	98,26	41268
	BT 50	14	160	44	98,26	41468
	BT 50	16	160	48	97,78	41668
	BT 50	18	160	50	97,78	41868
	BT 50	20	160	52	97,78	42068
	BT 50	25	160	65	98,48	42568 ¹⁾
	BT 50	32	160	72	98,26	43268 ¹⁾

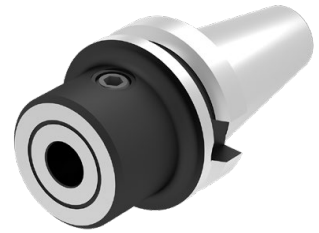
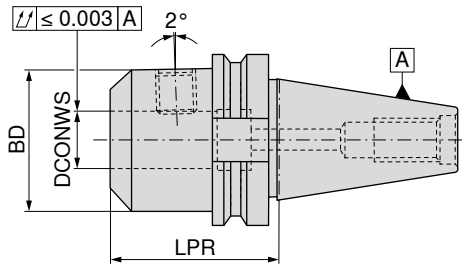
1) Version with two grub screws



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	65,05	10669
	BT 40	8	50	28	65,05	10869
	BT 40	10	63	35	60,30	11069
	BT 40	12	63	42	60,30	11269
	BT 40	14	63	44	60,30	11469
	BT 40	16	63	48	66,20	11669
	BT 40	18	63	50	66,20	11869
	BT 40	20	63	52	66,20	12069
	BT 40	25	100	65	84,19	12569 ¹⁾
	BT 40	32	100	72	91,75	13269 ¹⁾
	BT 40	40	120	80	106,60	14069 ¹⁾
	BT 50	6	63	25	111,00	10668
	BT 50	8	63	28	111,00	10868
	BT 50	10	80	35	106,10	11068
BT 50	12	80	42	106,10	11268	
BT 50	14	80	44	106,10	11468	
BT 50	16	80	48	106,70	11668	
BT 50	18	80	50	106,70	11868	
BT 50	20	80	52	106,70	12068	
BT 50	25	100	65	116,30	12568 ¹⁾	
BT 50	32	105	72	118,20	13268 ¹⁾	
long	BT 40	6	130	25	81,95	30669
	BT 40	8	130	28	81,95	30869
	BT 40	10	130	35	76,61	31069
	BT 40	12	130	42	76,61	31269
	BT 40	16	130	48	82,41	31669
	BT 40	20	130	52	82,41	32069
	BT 40	25	130	65	98,60	32569 ¹⁾
	BT 50	6	130	25	128,90	30668
	BT 50	8	130	28	128,90	30868
	BT 50	10	130	35	123,00	31068
	BT 50	12	130	42	123,00	31268
	BT 50	16	130	48	123,00	31668
	BT 50	20	130	52	123,00	32068
	BT 50	25	130	65	128,90	32568 ¹⁾
BT 50	32	130	72	130,10	33268 ¹⁾	

1) Version with two grub screws

Spare parts cylindrical shank adaptors (Weldon and Whistle Notch)

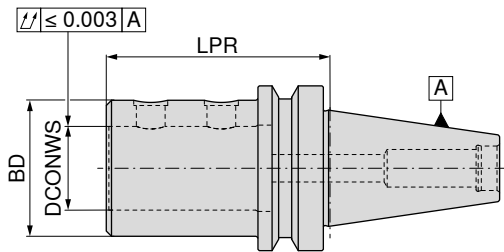
				
	10 950 ...	62 950 ...	62 950 ...	84 950 ...
Spare parts DCONWS _{H4}	EUR W7/6B	EUR W7/6B	EUR W7	EUR Y8
6			M6x10 0,84 006	M5x20 9,70 44100
8			M8x10 0,99 008	M6x20 4,73 21500
10			M10x12 1,31 010	M8x16 9,70 44200
12 - 14	M10X20 DIN 913 3,47 17500		M12x16 1,32 012	
16 - 18			M14x16 1,66 016	M12x20 9,70 44300
20		M16x20 - SW8 1,13 51200	M16x16 2,01 020	
25			M18x2x20 3,66 025	M20x24 9,70 44000
32 - 40			M20x2x20 4,04 032	M20x24 9,70 44000

Accessories

	
Pull studs	Others
→ 110-111	→ 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 ...

Adapter	DCONWS mm	LPR mm	BD mm	EUR	
BT 40	20	75	40	166,70	12069
BT 40	25	80	45	166,70	12569
BT 40	32	85	52	166,70	13269
BT 50	20	85	40	211,80	12068
BT 50	25	90	45	211,80	12568
BT 50	32	95	52	211,80	13268
BT 50	40	105	65	211,80	14068
BT 50	50	113	75	211,80	15068

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



10 950 ...

Spare parts	DCONWS		EUR	
20		M10x1x10	4,96	001
25 - 32		M12x1x10	5,04	002
40 - 50		M16x1x12	5,04	003

Accessories

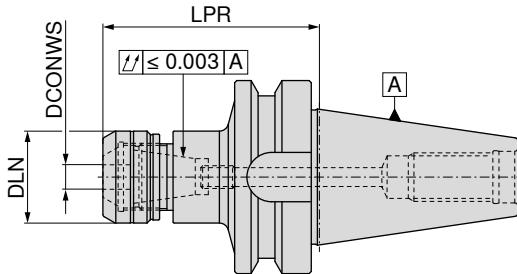
Pull studs	Others
→ 110-111	→ 284

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	EUR Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	115,70	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	166,70	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	115,70	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	166,70	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	115,70	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	166,70	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	218,00	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	270,70	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	218,00	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	270,70	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

Spare parts for collet	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ... EUR Y8	82 950 ... EUR Y8	82 950 ... EUR Y8	82 950 ... EUR Y8
426E (ER16)	43,98 11000	41,44 01000	M18x1,5	M8x3,0 4,15 00100
430E (ER25)	43,98 11600	41,44 01600	M18x1,5	M8x8 4,15 00300
470E (ER32)	43,98 12000	41,44 02000	M18x1,5	M8x8 4,15 00300

Accessories

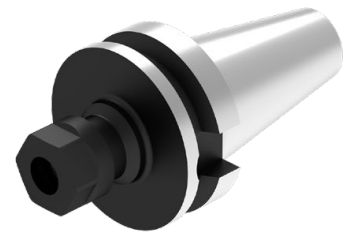
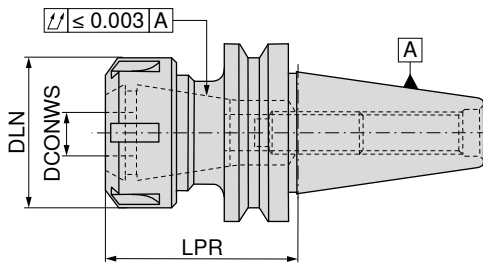
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



NEW



AD

G 2,5 n_{max} 25000

NEW



AD/B

G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 743 ... EUR	82 743 ... EUR
short	BT 30	1 - 10	70	28	56	426E (ER16)	109,40	11070 ¹⁾
	BT 30	1 - 16	70	42	104	430E (ER25)	109,40	11670
	BT 30	2 - 20	70	50	136	470E (ER32)	109,40	12070
	BT 40	1 - 10	60	22	56	426E (ER16 mini)		140,10 11169
	BT 40	1 - 10	60	28	56	426E (ER16)		73,65 11069 ¹⁾
	BT 40	1 - 16	70	42	104	430E (ER25)		76,98 11669
	BT 40	2 - 20	70	50	136	470E (ER32)		77,22 12069
	BT 40	3 - 26	70	63	176	472E (ER40)		80,27 12669
	BT 50	1 - 10	75	28	56	426E (ER16)	98,37	11068 ¹⁾
	BT 50	1 - 16	75	42	104	430E (ER25)	88,81	11668
	BT 50	2 - 20	75	50	136	470E (ER32)	93,40	12068
	BT 50	4 - 26	75	63	176	472E (ER40)	95,30	12668
medium length	BT 30	1 - 10	100	28	56	426E (ER16)	152,90	21070 ¹⁾
	BT 30	1 - 16	100	42	104	430E (ER25)	152,90	21670
	BT 40	1 - 10	120	22	56	426E (ER16 mini)		140,10 21169
	BT 40	1 - 10	120	28	56	426E (ER16)		80,76 21069 ¹⁾
	BT 40	1 - 16	120	42	104	430E (ER25)		84,08 21669
	BT 40	2 - 20	120	50	136	470E (ER32)		84,32 22069
	BT 40	3 - 26	100	63	176	472E (ER40)		104,90 22669
	BT 50	1 - 10	100	28	56	426E (ER16)	109,80	21068 ¹⁾
	BT 50	1 - 16	100	42	104	430E (ER25)	90,92	21668
	BT 50	2 - 20	100	50	136	470E (ER32)	97,29	22068
	BT 50	3 - 26	100	63	176	472E (ER40)	102,60	22668
	extra-long	BT 40	1 - 10	160	28	56	426E (ER16)	
BT 40		1 - 16	160	42	104	430E (ER25)		111,90 41669
BT 40		2 - 20	160	50	136	470E (ER32)		111,90 42069
BT 40		3 - 26	160	63	176	472E (ER40)		118,30 42669
BT 50		1 - 16	160	42	104	430E (ER25)	100,70	41668
BT 50		2 - 20	160	50	136	470E (ER32)	111,00	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	62 950 ...	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	84 950 ...
426E (ER16 mini)	EUR W7	EUR Y8	EUR W7	EUR Y8	EUR Y8	EUR W7	EUR Y8	EUR Y8
426E (ER16)	22,96	51,29	25,68	22,85	20,81	30,82	46,98	28,31
430E (ER25)	044	055	055	125	101	066	058	44600
470E (ER32)		54,43	23,93	132				28,31
472E (ER40)		64,23	23,26	140				44400
		057	65700					44500

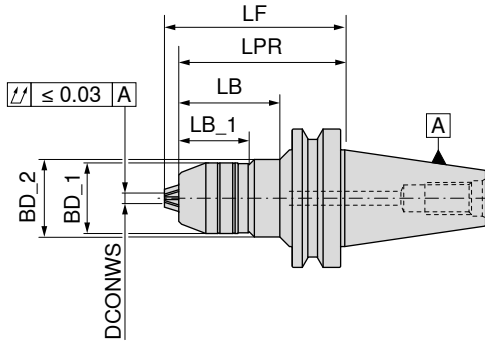
Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

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	84 509 ... EUR Y8	84 510 ... EUR Y8
BT 40	0,5 - 13	48,5		50,9	80	80	89,0	278,50	282,60
BT 40	2,5 - 16	51,0		50,9	80	80	90,5	285,10	306,80
BT 50	2,5 - 16	51,0	56	50,9	73	120	130,5	378,50	406,90

Accessories

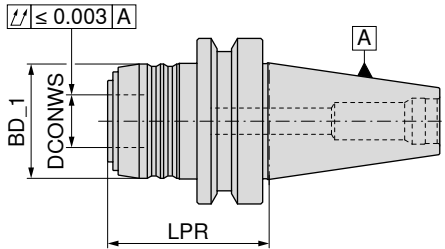


Others
→ 284

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

EUR	
Y8	
208,30	012
270,40	020
225,80	112
347,50	120

Accessories

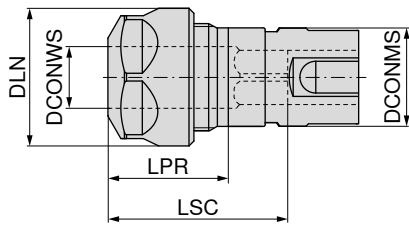
Pull studs	Others
110–111	284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

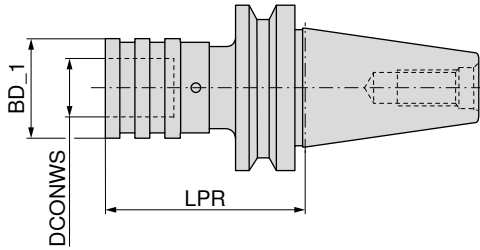
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	EUR	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	142,00	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	164,90	020

1) with 6 position lock nut

Spare parts for Article no.	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	62 950 ...	83 950 ...	62 950 ...	83 357 ...	EUR		EUR	
83 608 012	M22x1,5 - SW25	044	M22x1,5	054	22,96	054	20,69	116
83 608 020			M32x1,5	055	25,68	055	22,85	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	
BT 30	M3 - M12	01	63	38	19	9	
BT 30	M6 - M20	02	96	55	31	15	
BT 40	M3 - M12	01	68	38	19	9	
BT 40	M6 - M20	02	93	55	31	15	
BT 50	M3 - M12	01	80	38	19	9	
BT 50	M6 - M20	02	102	55	31	15	

EUR	
Y8	
289,30	312
367,80	320
231,30	412
244,70	420
390,70	512
450,10	520

Accessories

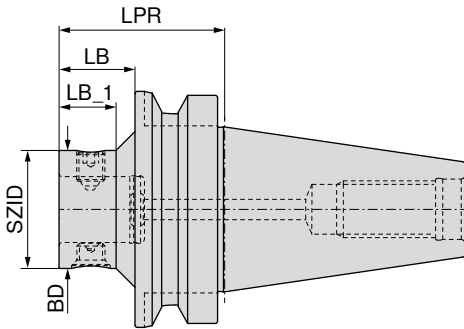
		
Collet	Pull studs	Others
→ 288, 290-292	→ 110-111	→ 284

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 ...	
							EUR		EUR	
BT 40	A55 00120	ABS 25	25	60	33	25	257,90	04090		
BT 40	A55 00130	ABS 32	32	60	33		257,90	04089		
BT 40	A55 00140	ABS 40	40	60	33		257,90	04088		
BT 40	A55 55150	ABS 50	50	60	33				257,90	04097
BT 40	A55 55160	ABS 63	63	70					257,90	04096
BT 50	A55 00330	ABS 32	32	70	32	24	290,80	05089		
BT 50	A55 00340	ABS 40	40	70	32	24	290,80	05088		
BT 50	A55 55350	ABS 50	50	70	32	24			290,80	05097
BT 50	A55 55360	ABS 63	63	80	42	37			290,80	05096
BT 50	A55 55370	ABS 80	80	100	62				290,80	05092
BT 50	A55 55380	ABS 100	100	110					290,80	05091

Conversion kit – SK



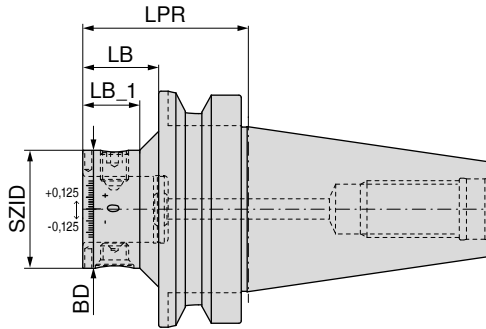
		84 950 ...
for	Adapter	EUR
4 mm	SK 40	6,43 23200
6 mm	SK 50	6,43 23400

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

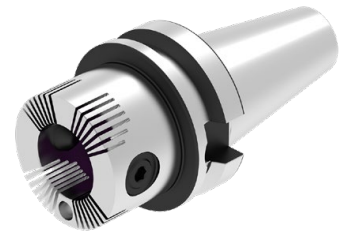
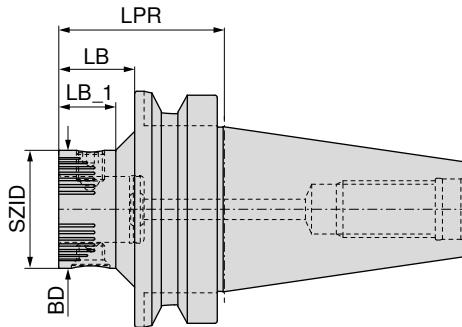
84 205 ...	84 205 ...
EUR W4/6A	EUR W4/6A
518,80	04096
552,70	05096
	04097
	05097

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

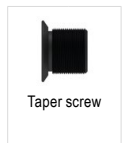
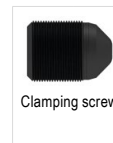


AD/B

84 208 ...

EUR	
3E	
752,50	04097
746,50	04096
830,40	05097
902,40	05096

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



84 950 ...

EUR	
XX	
15,74	20300
17,32	25500

84 950 ...

EUR	
XX	
20,18	20400
21,62	27300

Spare parts

SZID

ABS 50

ABS 63

Accessories



Pull studs
→ 110-111



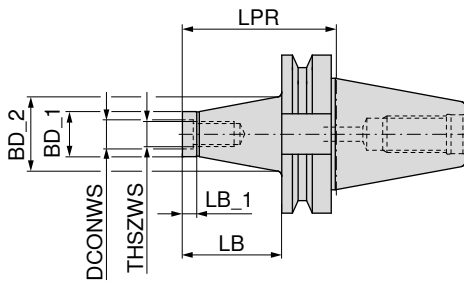
Extension
→ 187



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

EUR	WA
122,90	081
131,70	082
142,00	083
122,90	101
131,70	102
142,00	103
122,90	121
131,70	122
142,00	123
152,80	124
122,90	161
131,70	162
142,00	163
152,80	164

Accessories

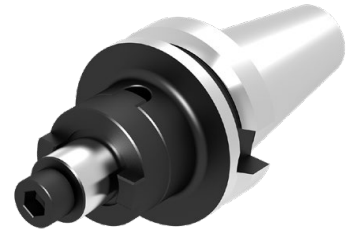
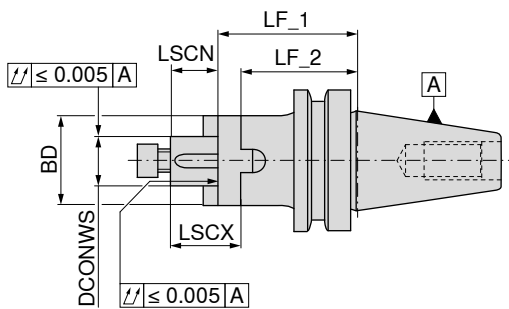
Extension-Reduction set → 257	Pull studs → 110-111	Others → 284

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			
								EUR		
short	BT 30	16	45	32	27	17	35	106,00	11670	
	BT 30	22	47	40	31	19	35	106,00	12270	
	BT 30	27	49	46	33	21	37	112,60	12770	
	BT 40	16	55	32	27	17	45	72,83	11669	
	BT 40	22	55	40	31	19	43	75,68	12269	
	BT 40	27	55	48	33	21	43	77,22	12769	
	BT 40	32	60	58	38	24	46	81,60	13269	
	BT 40	40	60	70	41	27	46	85,85	14069 ¹⁾	
	BT 50	16	70	32	27	17	60	111,80	11668	
	BT 50	22	70	40	31	19	58	115,60	12268	
	BT 50	27	70	48	33	21	58	124,10	12768	
	BT 50	32	70	58	38	24	56	127,80	13268	
	BT 50	40	70	70	41	27	56	132,40	14068 ¹⁾	
	medium length	BT 30	16	80	32	27	17	70	134,90	21670
		BT 30	22	80	40	31	19	68	134,90	22270
BT 30		27	90	48	33	21	78	137,80	22770	
BT 40		16	100	32	27	17	90	92,04	21669	
BT 40		22	100	40	31	19	88	95,85	22269	
BT 40		27	100	48	33	21	88	97,60	22769	
BT 40		32	100	58	38	24	86	103,00	23269	
BT 40		40	100	70	41	27	86	108,40	24069 ¹⁾	

1) With cross screw



Spare parts	83 950 ...		83 370 ...		83 368 ...		83 367 ...		83 950 ...	
	EUR		EUR		EUR		EUR		EUR	
DCONWS	Y8/3B		Y8		Y8		Y8		Y8/3B	
16	4 x 4 x 20	2,11 284	12,79 116	13,79 116	M8	4,17 016	M8x25	3,72 113		
22	6 x 6 x 25	2,11 285	14,21 122	17,18 122	M10	4,58 022	M10x25	4,28 124		
27	7 x 7 x 25	4,04 286	15,28 127	22,03 127	M12	5,85 027	M12x30	4,73 125		
32	8 x 7 x 28	2,43 287	18,25 132	28,38 132	M16	9,39 032	M16x35	5,88 126		
40	10 x 8 x 32	2,57 288	27,16 140	39,63 140	M20	14,89 040	M20x40 - SW17	8,35 112		

Accessories

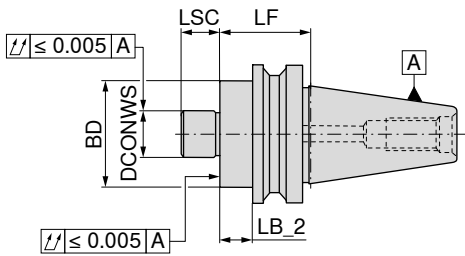


Shell mill adapter with reduced flange diameter

- ▲ 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 ...

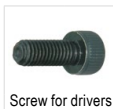
EUR
Y8/3B

111,00 12269
107,40 12769

154,20 12268
159,10 12768

short	Adapter	DCONWS	BD	LB_2	LF	LSC		
		mm	mm	mm	mm	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

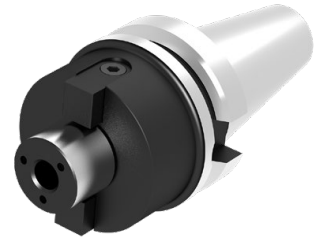
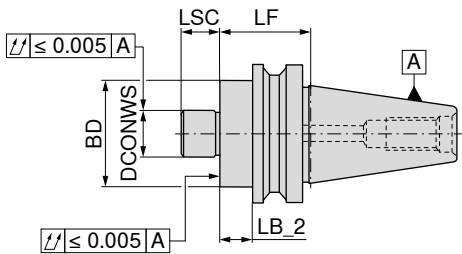
Spare parts	DCONWS	Screw for drivers		Driver		Clamping screw	
			83 950 ...		83 950 ...		83 950 ...
	22	M4x8	0,75 51700	10x7x20,5	10,58 51500	M10x25	4,28 124
	27	M5x8	0,92 51800	12x9x24,3	12,06 51600	M12x30	4,73 125

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 ...

EUR
Y8

NEW



AD/B

G 2,5 n_{max} 25000

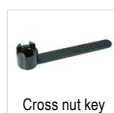
82 745 ...

EUR
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	99,65	11670	
	BT 30	27	18	50	58	21	106,00	12770	
	BT 30	32	28	50	78	24	116,20	13270	
	BT 40	16	25	52	38	17		72,83 11669	
	BT 40	22	25	52	48	19		77,09 12269	
	BT 40	27	25	52	58	21		78,62 12769	
	BT 40	32	23	50	78	24		82,77 13269	
	BT 40	40	23	50	88	27		90,00 14069 ¹⁾	
	BT 50	16	25	63	38	17	96,25	11668	
	BT 50	22	25	63	48	19	98,60	12268	
	BT 50	27	25	63	58	21	101,90	12768	
medium length	BT 40	16	73	100	38	17		75,32 21669	
	BT 40	22	73	100	48	19		77,81 22269	
	BT 40	27	73	100	58	21		79,09 22769	
	BT 40	32	73	100	78	24		82,90 23269	
	BT 40	40	73	100	88	27		86,91 24069 ¹⁾	
	BT 50	16	62	100	38	17	105,20	21668	
	BT 50	22	62	100	48	19	107,70	22268	
	BT 50	27	62	100	58	21	110,90	22768	
	BT 50	32	62	100	78	24	114,40	23268	
	BT 50	40	62	100	88	27	116,90	24068 ¹⁾	
	long	BT 40	16	103	130	38	17		80,04 31669
		BT 40	22	103	130	48	19		82,77 32269
BT 40		27	103	130	58	21		84,08 32769	
BT 40		32	103	130	78	24		88,10 33269	
BT 40		40	103	130	88	27		91,99 34069 ¹⁾	
BT 50		16	92	130	38	17	112,30	31668	
BT 50		22	92	130	48	19	114,70	32268	
BT 50		27	92	130	58	21	118,10	32768	
BT 50		32	92	130	78	24	121,90	33268	
BT 50		40	92	130	88	27	124,10	34068 ¹⁾	
extra-long		BT 40	16	133	160	38	17		82,77 41669
		BT 40	22	133	160	48	19		85,48 42269
	BT 40	27	133	160	58	21		86,67 42769	
	BT 40	32	133	160	78	24		90,69 43269	
	BT 40	40	133	160	88	27		94,48 44069 ¹⁾	
	BT 50	16	122	160	38	17	116,20	41668	
	BT 50	22	122	160	48	19	118,20	42268	
	BT 50	27	122	160	58	21	121,90	42768	
	BT 50	32	122	160	78	24	125,30	43268	
	BT 50	40	122	160	88	27	127,80	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 adapters



Cross nut key

83 368 ...

EUR
Y8



Cross screw

83 367 ...

EUR
Y8



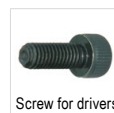
clamping screw

83 950 ...

EUR
Y8/3B

Spare parts
DCONWS

	EUR			EUR			EUR	
16	13,79	116	M8	4,17	016	M8x25	3,72	113
22	17,18	122	M10	4,58	022	M10x25	4,28	124
27	22,03	127	M12	5,85	027	M12x30	4,73	125
32	28,38	132	M16	9,39	032	M16x35	5,88	126
40	39,63	140	M20	14,89	040	M20x40 - SW17	8,35	112



Screw for drivers

84 950 ...

EUR
Y8



Driver

84 950 ...

EUR
Y8

Spare parts
DCONWS

	EUR			EUR	
16	4,89	162	M3x12	28,76	43400
22	4,89	163	M4x10	28,76	43200
27	4,89	164	M4x16	28,76	43300
32	4,89	166	M5x16	17,98	160
40	4,89	166	M5x16	20,01	161

Accessories



Pull studs

→ 110-111



Extensions

→ 262



Others

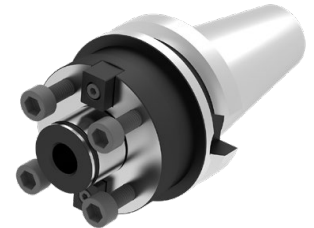
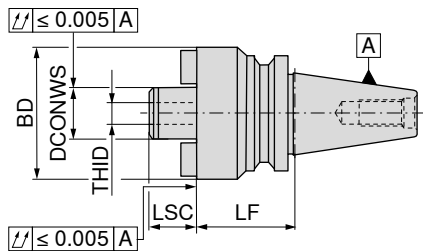
→ 284

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

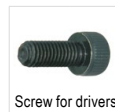


A
G 6,3 n_{max} 8000

82 432 ...

EUR
Y8
172,60 14068
209,40 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

84 950 ...

EUR
Y8

4,89 166

84 950 ...

EUR
Y8

20,01 161

83 950 ...

EUR
Y8/3B

4,70 140
12,00 160

Spare parts

DCONWS									
40	M5x16	4,89	166	16x16x23	20,01	161	M12x50	4,70	140
60	M12x25	4,67	43500	25,4x25x26,5	28,76	43100	M16x45	12,00	160

Accessories



Pull studs

→ 110-111

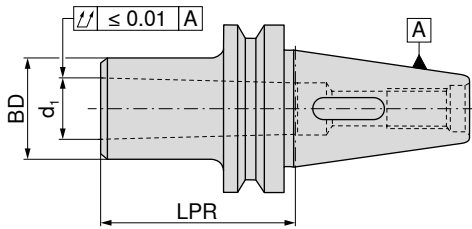


Others

→ 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 ...

EUR
Y8

Adapter	d ₁	LPR	BD		
		mm	mm		
BT 30	MK1	50	25		
BT 30	MK2	60	32	94,63	11070
BT 30	MK3	77	40	94,63	12070
				102,90	13070
BT 40	MK1	50	25	64,09	11069
BT 40	MK2	50	32	64,09	12069
BT 40	MK3	70	40	68,45	13069
BT 40	MK4	95	48	71,42	14069
BT 50	MK1	45	25	87,62	11068
BT 50	MK2	60	32	90,69	12068
BT 50	MK3	65	40	90,69	13068
BT 50	MK4	95	48	93,64	14068
BT 50	MK5	105	63	101,80	15068

Accessories

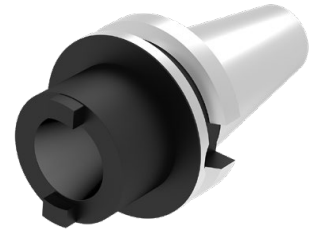
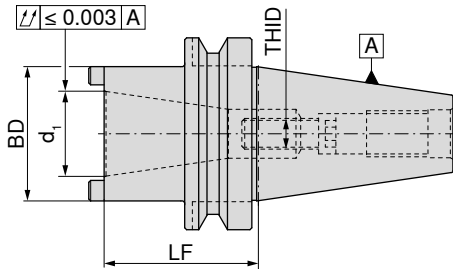
		
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 110-111	→ 284

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 ...

EUR

Y8

154,30 13069

154,30 14069

164,20 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	

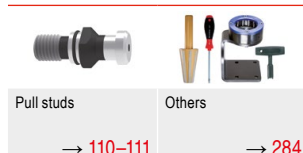
Spare parts for Article no.

Article no.	Clamping screw SK	Clamping Screw	Counterscrew	Hollow key with nose	Threaded ring	clamping screw
84 040 13069	83 950 ... EUR Y8/3B	84 950 ... EUR Y8	83 950 ... EUR Y8/3B	83 359 ... EUR Y8/3B	84 950 ... EUR Y8	83 950 ... EUR Y8/3B
84 040 14069	8,35 264	4,67 43700	0,61 030	26,91 017	33,13 127	4,73 125
84 040 14068	7,54 009	4,67 43600	0,61 030	40,55 133	30,91 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 ISO 7388-1, ISO 7388-2 THID	Clamping screw length DIN 2080 THID
	Ø d _i		
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

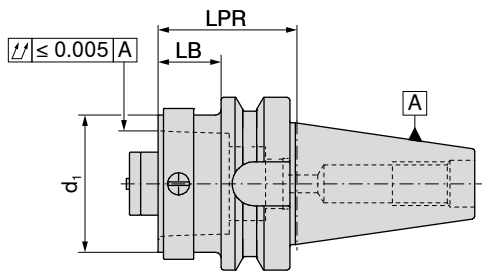
→ 284

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 ...

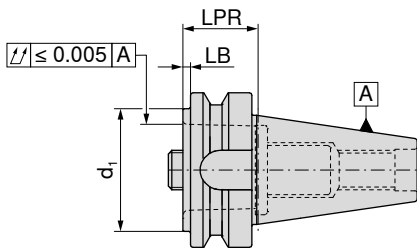
EUR
Y8

Adapter	d ₁	LB	LPR		
		mm	mm		
BT 40	HSK-A 32	13	40	639,40	04060
BT 40	HSK-A 40	13	40	651,40	04059
BT 40	HSK-A 50	23	50	663,20	04058
BT 40	HSK-A 63	43	70	651,40	04057
BT 50	HSK-A 32	12	50	805,90	05060
BT 50	HSK-A 40	12	50	805,90	05059
BT 50	HSK-A 50	22	60	829,50	05058
BT 50	HSK-A 63	22	60	877,00	05057
BT 50	HSK-A 100	52	90	996,00	05055

BT/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 017 ...

Adapter	d ₁	LB mm	LPR mm		
BT 40	PSC 32	3	30		
BT 40	PSC 40	3	30		
BT 40	PSC 50	3	30		
BT 40	PSC 63	58	85		
BT 50	PSC 32	2	40		
BT 50	PSC 40	2	40		
BT 50	PSC 50	2	40		
BT 50	PSC 63	2	40		
BT 50	PSC 80	32	70		

EUR	Y8	
413,40	04087	
425,50	04095	
425,50	04094	
413,40	04093	
567,90	05087	
663,20	05095	
579,90	05094	
603,70	05093	
627,50	05086	



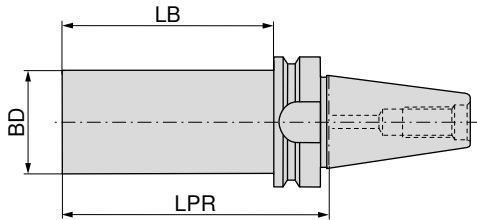
84 950 ...

84 950 ...

Spare parts	d ₁	EUR	Y8		EUR	Y8
PSC 32		33,13	127	SW8	23,93	122
PSC 40		33,13	128	SW8	27,05	123
PSC 50		33,13	129	SW10	27,05	124
PSC 63		66,12	130	SW14	30,28	126
PSC 80		66,12	130	SW14	30,28	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 ...

EUR
Y8

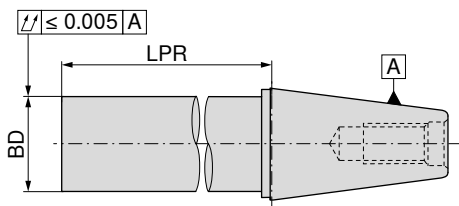
84,89 16369
150,30 16368

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 ...

EUR
Y8

370,10 14079
456,30 15078

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

Accessories



Pull studs

Others

→ 110-111

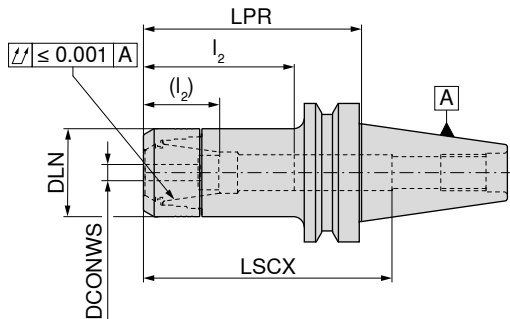
→ 284

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	EUR	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	193,50	002
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	211,50	00400
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	243,10	00600
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	193,40	012
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	193,40	022
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	197,40	102
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	202,30	10400
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	258,90	10600
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	202,30	11400
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	197,40	112
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	277,30	11600
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	197,40	122
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	202,30	12400
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	277,30	12600

→ 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 Article no.	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	EUR	Y8	EUR	Y8	EUR	Y8	EUR	Y8
84 525 002	45,38	011	36,28	001	18,15	341	12,81	337
84 525 012	49,29	013	40,16	003	20,50	432	14,72	431
84 525 022	51,87	015	42,72	005	20,50	402	14,72	401
84 525 102	45,38	011	36,28	001	18,15	341	12,81	337
84 525 112	49,29	013	40,16	003	20,50	432	14,72	431
84 525 122	51,87	015	42,72	005	20,50	402	14,72	401

Accessories

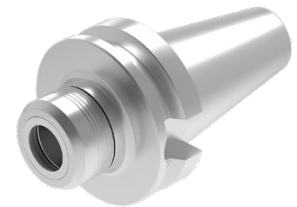
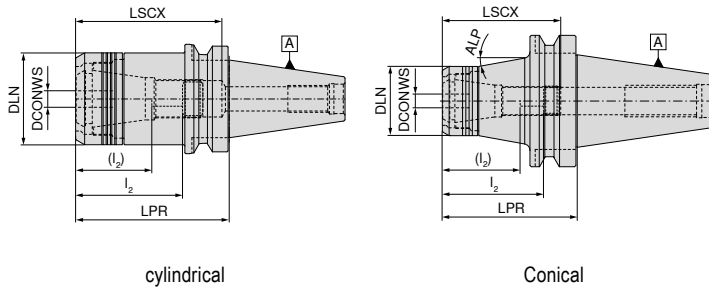
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 280	→ 286	→ 286	→ 110-111	→ 284

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 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-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)

84 400 ...	84 400 ...
EUR Y8	EUR Y8
328,80	12064
337,90	22064
	548,00 12063
	553,10 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
84 950 ...	83 950 ...	83 950 ...
EUR Y8	EUR Y8	EUR Y8
90,88 30100	20,50 402	14,72 401

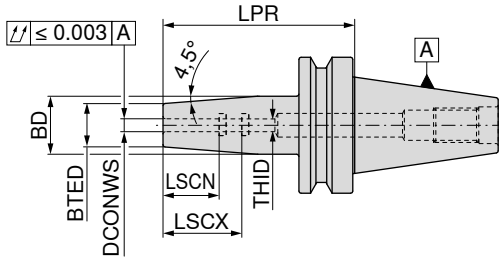
Accessories

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

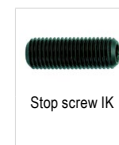


AD/B

G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 325 ...		
									EUR	EUR	
short	BT-FC 30	3	85	10	17	28	12	M6	186,50	003	
	BT-FC 30	4	85	15	22	28	16	M6	186,50	004	
	BT-FC 30	5	85	15	22	30	20	M6	186,50	005	
	BT-FC 30	6	85	21	27	36	26	M5	186,50	006	
	BT-FC 30	8	85	21	27	36	26	M6	186,50	008	
	BT-FC 30	10	85	24	32	41	31	M8x1	186,50	010	
	BT-FC 30	12	85	24	32	47	37	M10x1	186,50	012	
	BT-FC 30	16	85	27	34	50	40	M12x1	186,50	016	
	BT-FC 30	20	85	33	42	52	42	M16x1	186,50	020	
	BT-FC 40	3	90	10	17	28	12	M6		164,90	103
	BT-FC 40	4	90	15	22	28	16	M6		164,90	104
	BT-FC 40	5	90	15	22	30	20	M6		164,90	105
	BT-FC 40	6	90	21	27	36	26	M5		164,90	106
	BT-FC 40	8	90	21	27	36	26	M6		164,90	108
	BT-FC 40	10	90	24	32	41	31	M8x1		164,90	110
	BT-FC 40	12	90	24	32	47	37	M10x1		164,90	112
	BT-FC 40	16	90	27	34	50	40	M12x1		164,90	116
	BT-FC 40	20	90	33	42	52	42	M16x1		164,90	120
	BT-FC 40	25	100	44	53	58	48	M16x1		164,90	125

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts

DCONWS		83 950 ...	EUR	83 950 ...	EUR
3 - 5	M6x14 - SW2	10,45	417	M5x12,5 - SW2,5	10,45
6				M6x12,5 - SW3	10,45
8				M8x1x13,5 - SW3	10,45
10				M10x1x13,5 - SW5	10,45
12				M12x1x13,5 - SW5	10,45
16				M16x1x13,5 - SW8	12,04
20 - 25					424

Accessories

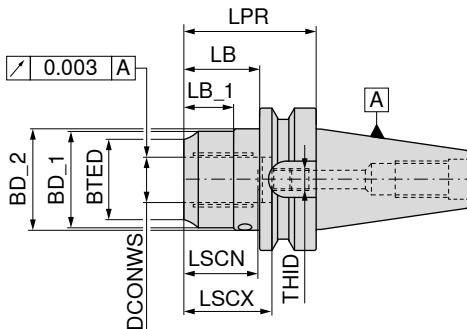
Shrink fit extension	Pull studs	Others
→ 247	→ 110-111	→ 284

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	EUR	
BT-FC 40	20	72,5	38					51	40	M16x1x13,5	332,60	120
BT-FC 40	32	90,0	54	63	62	64,0	48	61	51	M16x1x13,5	325,50	13274
BT-FC 50	20	83,5	38	49		47,0		51	41	M16x1x13,5	389,60	12073
BT-FC 50	32	90,0	57	68	72	53,5	35	61	51	M16x1x13,5	389,60	13273

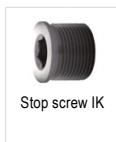
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

EUR
Y7

83 950 ...

EUR
Y7

83 950 ...

EUR
Y7

Spare parts for Article no.

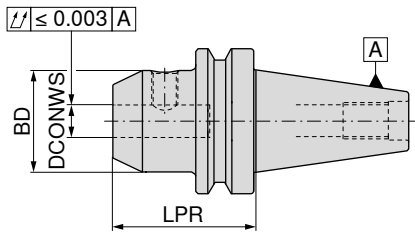
83 527 120	SW5	5,46	050	M10x1x10	15,28	158	M8x1x13,5 - SW3	10,45	420
83 527 13274	SW5	5,46	050	M10x1x14	5,51	429	M16x1x13,5 - SW8	12,04	424
83 527 12073	SW5	5,46	050	M10x1x14	5,51	429	M16x1x13,5 - SW8	12,04	424
83 527 13273	SW5	5,46	050	M10x1x14	5,51	429	M16x1x13,5 - SW8	12,04	424

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	EUR	
					Y8	
short	BT-FC 30	6	50	25	96,94	006
	BT-FC 30	8	50	28	96,94	008
	BT-FC 30	10	50	35	96,94	010
	BT-FC 30	12	50	42	96,94	012
	BT-FC 30	16	63	48	104,00	016
	BT-FC 30	20	63	52	104,00	020
	BT-FC 40	6	50	25	122,90	106
	BT-FC 40	8	50	28	118,80	108
	BT-FC 40	10	63	35	118,80	110
	BT-FC 40	12	63	42	118,80	112
	BT-FC 40	16	63	48	118,80	116
	BT-FC 40	20	63	52	118,80	120
	BT-FC 40	25	90	65	158,20	125 ¹⁾
	BT-FC 40	32	100	72	158,20	132 ¹⁾
	BT-FC 50	6	63	25	182,60	306
	BT-FC 50	8	63	28	177,10	308
	BT-FC 50	10	63	35	177,10	310
	BT-FC 50	12	80	42	177,10	312
	BT-FC 50	16	80	48	177,10	316
	BT-FC 50	20	80	52	177,10	320
	BT-FC 50	25	100	65	202,80	325 ¹⁾
	BT-FC 50	32	105	72	202,80	332 ¹⁾

1) Version with two grub screws



Grubscrew

62 950 ...

Spare parts

DCONWS		EUR	
		W7	
6	M6x10	0,84	006
8	M8x10	0,99	008
10	M10x12	1,31	010
12	M12x16	1,32	012
16	M14x16	1,66	016
20	M16x16	2,01	020
25	M18x2x20	3,66	025
32	M20x2x20	4,04	032

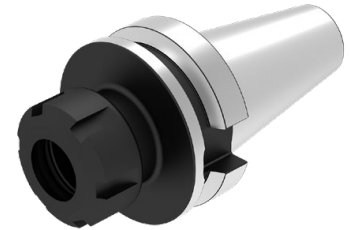
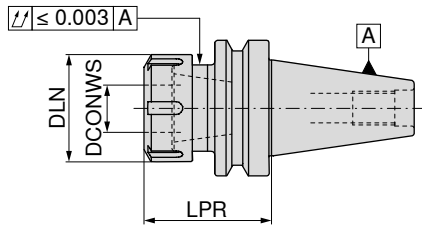
Accessories

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	EUR	
short	BT-FC 30	1 - 10	63	28	56	426E (ER16)	109,40	010 ¹⁾
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	109,40	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	109,40	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	137,80	110 ¹⁾
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	137,80	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	137,80	120
medium length	BT-FC 50	1 - 16	70	42	104	430E (ER25)	187,90	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	187,90	320
medium length	BT-FC 50	1 - 10	100	28	56	426E (ER16)	187,90	310 ¹⁾

1) with 6 position lock nut

Spare parts for collet	Lock nut	62 950 ...	EUR W7	044	Lock nut IK	83 950 ...	EUR Y8	054	Lock nut	62 950 ...	EUR W7	055	Y clamping key	83 357 ...	EUR Y8	125
426E (ER16) / BT30-BT50			22,96			39,48				25,68				22,85		125
430E (ER25) / BT30-BT50					51,29				23,93	65600				31,09		132
470E (ER32) / BT30-BT50					54,43											

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

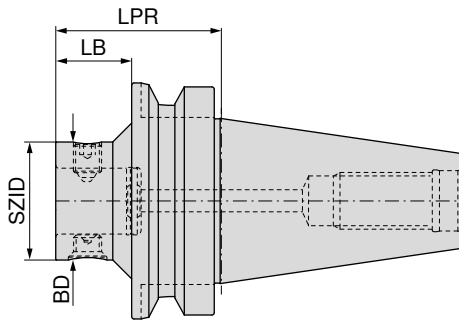
Accessories

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

Adapter with ABS Connection – BT-FC

▲ with face contact

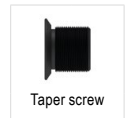
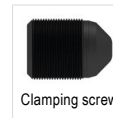
▲ also available with Balluff chip on request



AD

84 264 ...

Adapter	SZID	BD mm	LPR mm	LB mm	EUR	
BT-FC 40	ABS 50	50	60	33	625,80	05064
BT-FC 40	ABS 63	63	70		643,80	06364
BT-FC 50	ABS 50	50	70	32	851,80	05063
BT-FC 50	ABS 63	63	80	42	874,70	06363
BT-FC 50	ABS 80	80	100	62	888,00	08063
BT-FC 50	ABS 100	100	110		897,60	10063



84 950 ...

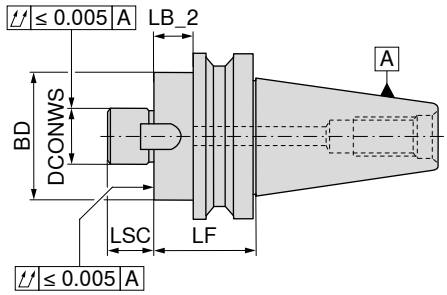
84 950 ...

Spare parts

SZID	EUR		EUR	
ABS 50	15,74	20300	20,18	20400
ABS 63	17,32	25500	21,62	27300
ABS 80	19,61	25600	24,15	25100
ABS 100	23,21	25700	25,41	25200

Shell mill adapter – BT-FC

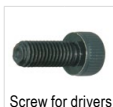
- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip **on request**



AD
G 6,3 n_{max} 15000

84 562 ...

Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	EUR	
short	BT-FC 30	16	18	39,0	40	106,70	016
	BT-FC 30	22	18	39,0	50	106,70	022
	BT-FC 30	27	18	39,0	60	106,70	027
	BT-FC 30	32	28	49,0	80	106,70	032
	BT-FC 40	16	8	34,0	40	128,30	116
	BT-FC 40	22	8	34,0	50	128,30	122
	BT-FC 40	27	8	34,0	60	128,30	127
	BT-FC 40	32	23	49,0	80	128,30	132
	BT-FC 40	40	23	49,0	89	128,30	140
	BT-FC 50	22	12	48,5	50	148,80	322
	BT-FC 50	27	12	48,5	60	148,80	327
	BT-FC 50	32	12	48,5	80	158,20	332
BT-FC 50	40	17	53,5	89	158,20	340	



Screw for drivers



Driver



clamping screw

Spare parts
DCONWS

DCONWS		84 950 ... EUR Y8		84 950 ... EUR Y8		83 950 ... EUR Y8/3B			
16	M3x12	4,89	162	8x9x11	12,40	157	M8x25	3,72	113
22	M4x10	4,89	163	10x11,2x13	14,61	158	M10x25	4,28	124
27	M4x16	4,89	164	12x12,6x15	15,81	159	M12x30	4,73	125
32	M5x16	4,89	165	14x14x22,5	17,98	160	M16x35	5,88	126
40	M5x16	4,89	166	16x16x23	20,01	161	M20x40 - SW17	8,35	112

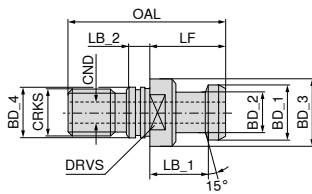
Accessories

→ 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 ...

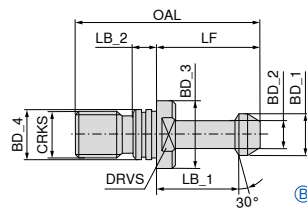
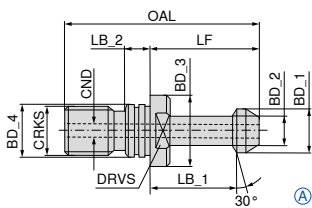
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	50

EUR
Y8
8,78 040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form
	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

82 533 ...

EUR
Y8

82 531 ...

EUR
Y8

12,94 030
9,81 040
13,30 050

12,16 030
7,62 040
12,27 050



83 476 ...

Spare parts

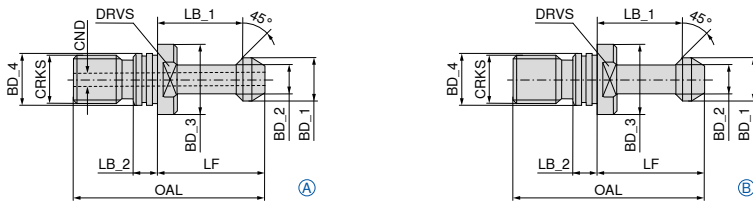
BD_4

17	BT / SK 40	EUR Y8 0,59	040
25	BT / SK 50	EUR Y8 0,59	050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

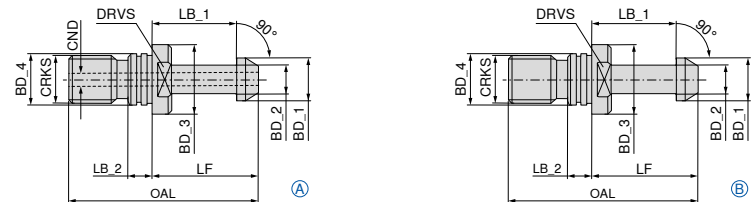


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														EUR		EUR	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	20	A	Y8		12,94	030
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	50	A			9,81	040
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	150	A			13,30	050
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	20	B	12,16	030		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	50	B	7,62	040		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	150	B	12,27	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



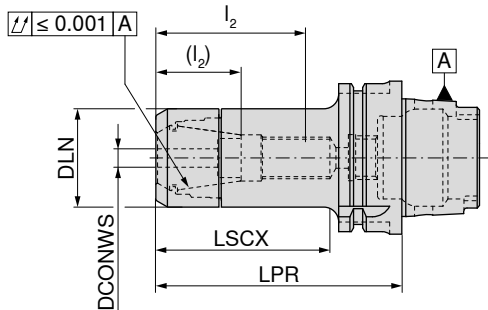
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														EUR		EUR	
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	50	A	Y8		9,81	040
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	150	A			13,30	050
BT 40	15	10	23	17	M16	60	35	28	5,5		19	50	B	7,62	040		
BT 50	23	17	38	25	M24	85	45	35	8,0		30	150	B	12,27	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	EUR Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	168,50	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	185,30	404 ¹⁾
HSK-A 40	2 - 20	61	50	45		470E (ER32)	216,40	407 ¹⁾
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	188,00	505
HSK-A 50	2 - 16	60	40	37		430E (ER25)	185,30	504 ¹⁾
HSK-A 63	1 - 10	55	30	32		426E (ER16)	154,20	609 ¹⁾
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	154,20	610
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	213,90	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	271,00	612
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	190,50	613
HSK-A 63	2 - 16	60	40	37		430E (ER25)	154,20	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	154,20	616
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	226,80	617
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	203,50	619
HSK-A 63	2 - 20	70	50	46		470E (ER32)	154,20	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	154,20	621
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	226,80	622
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	203,50	625
HSK-A 63	3 - 26	120	63	91		472E (ER40)	243,10	62700
HSK-A 63	3 - 26	80	63	56		472E (ER40)	194,40	626 ²⁾
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	350,70	11200
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	283,90	110
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	408,30	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	350,70	11800
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	408,30	117
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	283,90	116
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	408,30	122
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	283,90	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	350,70	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

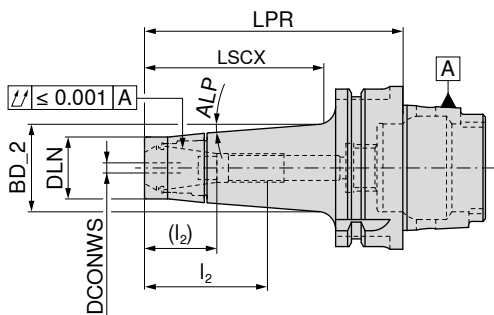
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	45,38 011	36,28 001		
426E (ER16)	45,38 011	36,28 001	M11x1 - SW6 18,15 341	M11x1 - SW6 12,81 337
430E (ER25)	49,29 013	40,16 003	M18x1,5 - SW6 20,50 432	M18x1,5 - SW6 14,72 431
470E (ER32)	51,87 015	42,72 005	M22x1,5 - SW6 20,50 402	M22x1,5 - SW6 14,72 401
472E (ER40)	70,01 017	58,34 007		M28x1,5 - SW6 13,34 400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:


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



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	EUR Y8	
HSK-A 40	1 - 10	100	24	30,8	67	26 - 47 (12 - 32)	2,0°	426E (ER16)	200,90	310
HSK-A 50	1 - 10	65	24	28,9	44	26 - 32	4,5°	426E (ER16)	185,30	710
HSK-A 50	1 - 10	100	24	34,4	77	26 - 47 (12 - 32)	4,5°	426E (ER16)	193,20	810
HSK-A 63	1 - 10	130	24	36,0	77	28 - 48 (20 - 35)	3,5°	426E (ER16)	214,20	61200
HSK-A 63	1 - 10	100	24	33,8	74	28 - 48 (20 - 35)	4,5°	426E (ER16)	164,50	610
HSK-A 63	1 - 10	160	24	36,0	106	28 - 48 (20 - 35)	2,5°	426E (ER16)	224,20	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

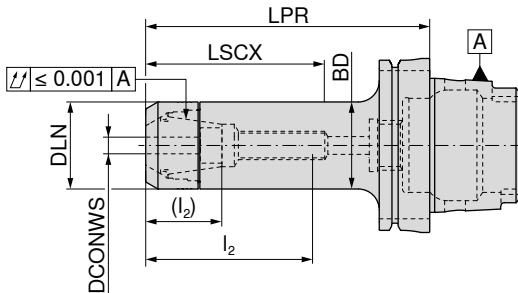
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	53,16 033	42,72 031	18,15 341	12,81 337

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without 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	EUR Y8	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	242,30	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	164,60	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	164,60	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	213,90	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	237,20	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	164,60	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	164,60	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	213,90	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	237,20	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

	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
Spare parts for collet	84 950 ...	84 950 ...	83 950 ...	83 950 ...
4008E (ER11)	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	53,15 035	42,72 034	17,45 340	12,81 336
		M8x1 - SW4	18,15 341	M8x1 - SW4
		M11x1 - SW6		M11x1 - SW6

Accessories

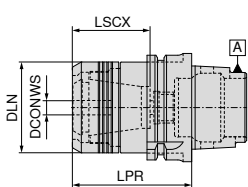
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268-276, 279	→ 280	→ 285	→ 286	→ 286	→ 156	→ 284

ER precision collet chuck – HDC

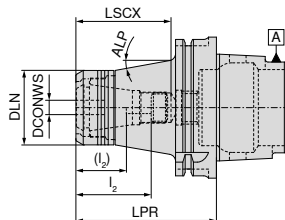
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

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	84 400 ... EUR Y8	84 400 ... EUR Y8
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	257,90	12057
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	257,90	22057
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)		428,10 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	Lock nut	Stop screw 2	Stop screw 1
2 - 20	84 950 ... EUR Y8 90,88 30100	M22x1,5 - SW6 83 950 ... EUR Y8 20,50 402	M22x1,5 - SW6 83 950 ... EUR Y8 14,72 401

Accessories

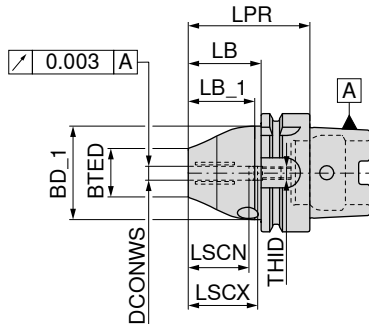
ER collet	Roll key	Roll key device	Others
→ 268-276, 278-279	→ 286	→ 286	→ 284

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



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	EUR	
HSK-A 63	6	65	26	50,0	35,2	39	37	27	M5	388,50	10657
HSK-A 63	8	65	28	50,0	35,2	39	37	27	M6	388,50	10857
HSK-A 63	10	75	30	50,0	45,2	49	41	31	M8x1	388,50	11057
HSK-A 63	12	75	32	52,5	45,2	49	46	36	M8x1	388,50	11257
HSK-A 63	16	79	38	52,5	49,2	53	49	39	M8x1	388,50	11657
HSK-A 63	20	79	38	52,5	49,2	53	51	41	M8x1	388,50	12057
HSK-A 100	6	73	26	50,0	40,2	44	37	27	M5	530,30	10655
HSK-A 100	8	73	28	50,0	40,2	44	37	27	M6	530,30	10855
HSK-A 100	10	83	30	50,0	50,2	54	41	31	M8x1	530,30	11055
HSK-A 100	12	83	32	52,5	50,2	54	46	36	M8x1	530,30	11255
HSK-A 100	16	87	38	52,5	54,2	58	49	39	M8x1	530,30	11655
HSK-A 100	20	87	38	52,5	54,2	58	51	41	M8x1	530,30	12055

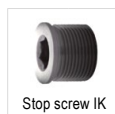
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts	DCONWS		80 397 ...		83 950 ...		83 950 ...	
			EUR	Y7	EUR	Y8	EUR	Y7
6	SW5	050	5,46	050	7,56	55000	10,45	418
8	SW5	050	5,46	050	7,56	55000	10,45	419
10	SW5	050	5,46	050	7,56	55000	10,45	420
12	SW5	050	5,46	050	7,56	55000	10,45	420
16	SW5	050	5,46	050	7,56	55000	10,45	420
20	SW5	050	5,46	050	7,56	55000	10,45	420

Accessories



Reduction sleeve

Coolant transfer pipe

Others

→ 282

→ 156

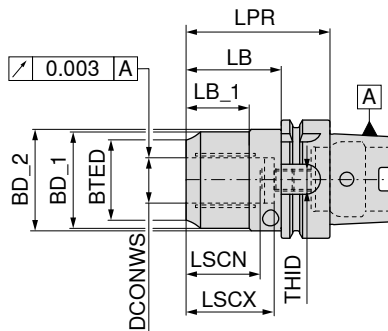
→ 284

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	EUR	
HSK-A 63	20	80	36	49	52,5	36	54	51	40	M8x1	338,10	120
HSK-A 63	32	105	54	63	52,5	55	79	61	51	M16x1	329,40	13257
HSK-A 100	20	85	38	49	52,5	36	56	51	41	M8x1	445,30	12055
HSK-A 100	32	100	57	68	72,0	42	71	61	51	M8x1	445,30	13255

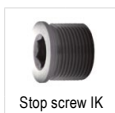
→ Min. clamping depth, Page 312



Clamping key - T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

Article no.	Part	EUR	Part	EUR	Part	EUR
83 722 120	SW5	5,46	M10x1x10	15,28	M8x1x13,5 - SW3	10,45
83 722 13257	SW5	5,46	M10x1x10	15,28	M16x1x13,5 - SW8	12,04
83 722 12055	SW5	5,46	M10x1x10	15,28	M8x1x13,5 - SW3	10,45
83 722 13255	SW5	5,46	M10x1x10	15,28	M8x1x13,5 - SW3	10,45

Accessories

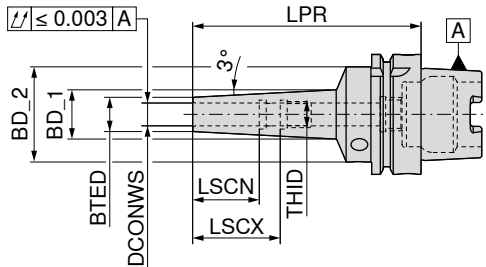
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

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	EUR	
		mm	mm	mm	mm	mm	mm	mm	mm	Y8	
medium length	HSK-A 63	3	120	9	16,65	50	28	12	M3	585,30	603
	HSK-A 63	4	120	10	17,65	50	28	16	M3	585,30	604
	HSK-A 63	5	120	11	18,65	50	28	20	M3	585,30	605
	HSK-A 63	6	120	12	19,75	50	37	27	M5	504,20	606
	HSK-A 63	8	120	14	21,75	50	37	27	M6	504,20	608
	HSK-A 63	10	120	16	23,75	50	41	31	M8x1	504,20	610
	HSK-A 63	12	120	18	25,86	50	46	36	M10x1	504,20	612
	HSK-A 63	16	120	24	31,50	50	49	39	M12x1	877,30	616
	HSK-A 63	20	120	28	35,55	50	51	41	M16x1	877,30	620
extra-long	HSK-A 63	6	160	16	33,53	50	37	27	M5	830,10	706
	HSK-A 63	8	160	18	34,55	50	37	27	M6	830,10	708
	HSK-A 63	10	160	20	36,27	50	41	31	M8x1	830,10	710
	HSK-A 63	12	160	22	37,78	50	46	36	M10x1	830,10	712
extra long	HSK-A 63	6	200	16	37,83	50	37	27	M5	918,00	806
	HSK-A 63	8	200	18	38,85	50	37	27	M6	918,00	808
	HSK-A 63	10	200	20	40,57	50	41	31	M8x1	918,00	810
	HSK-A 63	12	200	22	42,07	50	46	36	M10x1	918,00	812

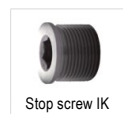
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

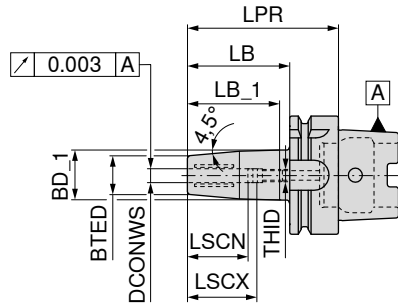
Spare parts	DCONWS	80 397 ...			83 950 ...			83 950 ...		
		EUR			EUR			EUR		
		Y7	050		Y7	158		Y7	172	
3	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172	
4	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172	
5	SW5	5,46	050	M10x1x10	15,28	158	M3x20 - SW1,5	10,86	172	
6	SW5	5,46	050	M10x1x10	15,28	158	M5x12,5 - SW2,5	10,45	418	
6	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419	
8	SW5	5,46	050	M10x1x10	15,28	158	M6x12,5 - SW3	10,45	419	
10	SW5	5,46	050	M10x1x12	15,28	159	M8x1x13,5 - SW3	10,45	420	
12	SW5	5,46	050	M10x1x12	15,28	159	M10x1x13,5 - SW5	10,45	421	
16	SW5	5,46	050	M10x1x12	15,28	159	M12x1x13,5 - SW5	10,45	422	
20	SW5	5,46	050	M10x1x12	15,28	159	M16x1x13,5 - SW8	12,04	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



AD
G 2,5 n_{max} 25000

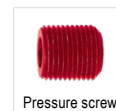
84 255 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	EUR Y8	
HSK-A 63	6	80	21	27	48,9	54	37	27	M5	472,50	10657
HSK-A 63	8	80	21	27	48,9	54	37	27	M6	472,50	10857
HSK-A 63	10	85	24	32	53,7	59	41	31	M8x1	472,50	11057
HSK-A 63	12	90	24	32	58,6	64	46	36	M10x1	472,50	11257
HSK-A 63	16	95	27	34	63,1	69	49	39	M12x1	472,50	11657
HSK-A 63	20	100	33	42	68,9	74	51	41	M16x1	472,50	12057
HSK-A 100	6	85	21	27	38,7	56	37	27	M5	611,10	10655
HSK-A 100	8	85	21	27	38,7	56	37	27	M6	611,10	10855
HSK-A 100	10	90	24	32	53,7	61	41	31	M8x1	611,10	11055
HSK-A 100	12	95	24	32	58,6	66	46	36	M10x1	611,10	11255
HSK-A 100	16	100	27	34	63,1	71	49	39	M12x1	611,10	11655
HSK-A 100	20	105	33	42	68,9	76	51	41	M16x1	611,10	12055

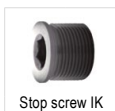
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.	80 397 ...		83 950 ...		83 950 ...	
	EUR Y7		EUR Y8		EUR Y7	
84 255 10657	5,46	050	6,14	55100	10,45	418
84 255 10857	5,46	050	6,14	55100	10,45	419
84 255 11057	5,46	050	6,14	55100	10,45	420
84 255 11257	5,46	050	6,14	55100	10,45	421
84 255 11657	5,46	050	6,14	55100	10,45	422
84 255 12057	5,46	050	6,14	55100	12,04	423
84 255 10655	5,46	050	6,14	55100	10,45	418
84 255 10855	5,46	050	7,56	55000	10,45	419
84 255 11055	5,46	050	7,56	55000	10,45	420
84 255 11255	5,46	050	7,56	55000	10,45	421
84 255 11655	5,46	050	7,56	55000	10,45	422
84 255 12055	5,46	050	7,56	55000	12,04	423

Accessories

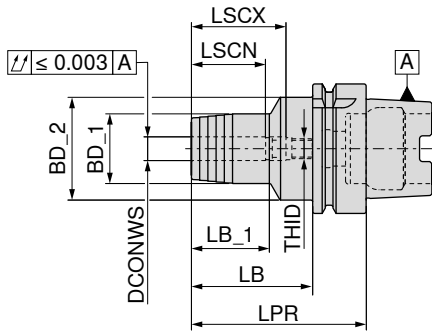
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

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	EUR	
											Y8	
short	HSK-A 63	6	70	26	49,5	24	44	37	27	M5	516,50	606
	HSK-A 63	8	70	28	49,5	24	44	37	27	M6	516,50	608
	HSK-A 63	10	80	30	49,5	32	54	41	31	M8x1	516,50	610
	HSK-A 63	12	85	32	49,5	40	59	46	36	M10x1	474,50	612
	HSK-A 63	16	90	38	49,5	46	64	49	39	M12x1	516,50	616
	HSK-A 63	20	90	42	49,5	48	64	51	41	M16x1	474,50	620
	HSK-A 63	25	120	57	52,0	63	94	57	47	M16x1	516,50	625
	HSK-A 63	32	125	63	53,0	61	99	61	51	M16x1	516,50	632
	HSK-A 100	6	75	26	50,0	26	46	37	27	M5	616,40	10655
	HSK-A 100	8	75	28	50,0	26	46	37	27	M6	616,40	10855
	HSK-A 100	10	90	30	50,0	42	61	41	31	M8x1	616,40	11055
	HSK-A 100	12	95	32	50,0	47	66	46	36	M10x1	616,40	11255
	HSK-A 100	16	100	38	50,0	53	71	49	39	M12x1	616,40	11655
	HSK-A 100	20	105	42	50,0	59	76	51	41	M16x1	616,40	12055
	HSK-A 100	25	110	57	63,0	62	81	57	47	M16x1	616,40	12555
	HSK-A 100	32	110	63	67,0	62	81	61	51	M16x1	616,40	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 ...	
		EUR Y7		EUR Y7	
83 726 606	M10x1x12	7,07	440	M5x12,5 - SW2,5	10,45 418
83 726 608	M10x1x12	7,07	440	M6x12,5 - SW3	10,45 419
83 726 610	M10x1x12	7,07	440	M8x1x13,5 - SW3	10,45 420
83 726 612	M10x1x12	7,07	440	M10x1x13,5 - SW5	10,45 421
83 726 616	M10x1x12	7,07	440	M12x1x13,5 - SW5	10,45 422
83 726 620	M10x1x12	7,07	440	M16x1x13,5 - SW5	12,04 423
83 726 625	M10x1x12	7,07	440	M16x1x13,5 - SW5	12,04 423
83 726 632	M10x1x12	7,07	440	M16x1x13,5 - SW5	12,04 423
83 726 10655	M10x1x12	7,07	440	M5x12,5 - SW2,5	10,45 418
83 726 10855	M10x1x12	7,07	440	M6x12,5 - SW3	10,45 419
83 726 11055	M10x1x12	7,07	440	M8x1x13,5 - SW3	10,45 420
83 726 11255	M10x1x12	7,07	440	M10x1x13,5 - SW5	10,45 421
83 726 11655	M10x1x12	7,07	440	M12x1x13,5 - SW5	10,45 422
83 726 12055	M10x1x12	7,07	440	M16x1x13,5 - SW8	12,04 424
83 726 12555	M10x1x12	7,07	440	M16x1x13,5 - SW8	12,04 424
83 726 13255	M10x1x12	7,07	440	M16x1x13,5 - SW8	12,04 424

Accessories

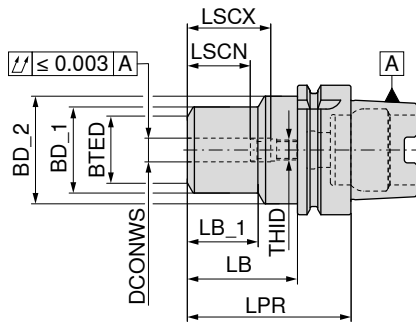
		
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

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

83 430 ...

Adapter	DCONWS	LPR	BD_1	BD_2	BTED	LB	LB_1	LSCN	LSCX	THID	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
HSK-A 63	12	80	42	52,5	32	54	34	36	46	M8x1	EUR Y8 218,60 01257
HSK-A 63	20	80	49	52,5	38	54	36	41	51	M8x1	EUR Y8 218,60 02057
HSK-A 100	12	85	42	52,5	32	51	34	36	46	M8x1	EUR Y7 306,70 01255
HSK-A 100	20	85	49	52,5	38	51	36	41	51	M8x1	EUR Y7 306,70 02055

→ Min. clamping depth, Page 312

Spare parts

DCONWS

12 - 20



Clamping key – T

80 397 ...

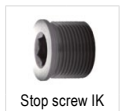
EUR Y7 5,46 050



Pressure screw

83 950 ...

EUR Y7 7,07 440



Stop screw IK

83 950 ...

EUR Y7 10,45 420

SW5

M10x1x12

M8x1x13,5 - SW3

Accessories



Reduction sleeve

→ 282



Coolant transfer pipe

→ 156



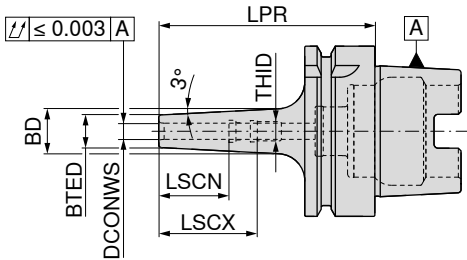
Others

→ 284

Shrink adapter, slim 3°

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

TG

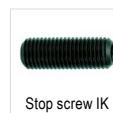


G 2,5 n_{max} 25000

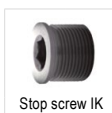
84 324 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	EUR	
									Y8	
short	HSK-A 63	3	80	9	14	28	12	M6	209,70	103
	HSK-A 63	4	80	10	15	28	16	M6	204,30	104
	HSK-A 63	5	80	11	16	30	20	M6	204,30	105
	HSK-A 63	6	80	12	17	36	26	M5	185,30	106
	HSK-A 63	8	80	14	19	36	26	M6	185,30	108
	HSK-A 63	10	85	16	21	41	31	M8x1	185,30	110
	HSK-A 63	12	90	18	24	47	37	M10x1	185,30	112
	HSK-A 63	14	90	20	26	47	37	M10x1	185,30	114
	HSK-A 63	16	95	22	28	50	40	M12x1	185,30	116
	HSK-A 63	18	95	24	30	50	40	M12x1	185,30	118
HSK-A 63	20	100	26	33	52	42	M16x1	185,30	120	
medium length	HSK-A 63	3	120	9	16	12	12		244,70	203
	HSK-A 63	4	120	10	17	16	16		239,30	204
	HSK-A 63	5	120	11	18	20	20		239,30	205
	HSK-A 63	6	120	12	21	36	26	M5	217,80	206
	HSK-A 63	8	120	14	23	36	26	M6	217,80	208
	HSK-A 63	10	120	16	25	41	31	M8x1	217,80	210
	HSK-A 63	12	120	18	27	47	37	M10x1	217,80	212
	HSK-A 63	14	120	20	29	47	37	M10x1	220,30	214
	HSK-A 63	16	120	22	31	50	40	M12x1	220,30	216
	HSK-A 63	18	120	24	33	50	40	M12x1	220,30	218
HSK-A 63	20	120	26	35	52	42	M16x1	220,30	220	
extra-long	HSK-A 63	3	160	9	19	12	12		271,60	303
	HSK-A 63	4	160	10	20	16	16		266,20	304
	HSK-A 63	5	160	11	21	20	20		266,20	305
	HSK-A 63	6	160	12	24	36	26	M5	246,10	306
	HSK-A 63	8	160	14	26	36	26	M6	246,10	308
	HSK-A 63	10	160	16	28	41	31	M8x1	246,10	310
	HSK-A 63	12	160	18	30	47	37	M10x1	246,10	312
	HSK-A 63	14	160	20	32	47	37	M10x1	246,10	314
	HSK-A 63	16	160	22	34	50	40	M12x1	246,10	316
	HSK-A 63	18	160	24	36	50	40	M12x1	246,10	318
HSK-A 63	20	160	26	38	52	42	M16x1	246,10	320	

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts

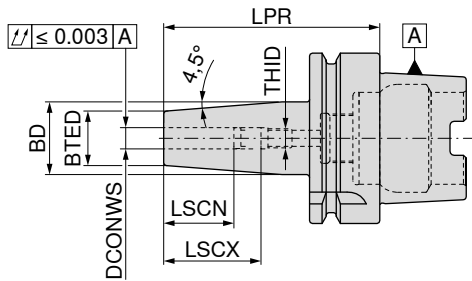
DCONWS

	83 950 ...	EUR	417	83 950 ...	EUR	
3 - 5	M6x14 - SW2	Y7	10,45		Y7	
6				M5x12,5 - SW2,5	10,45	418
8				M6x12,5 - SW3	10,45	419
10				M8x1x13,5 - SW3	10,45	420
12 - 14				M10x1x13,5 - SW5	10,45	421
16 - 18				M12x1x13,5 - SW5	10,45	422
20				M16x1x13,5 - SW8	12,04	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



G 2,5 n_{max} 25000

84 304 ...

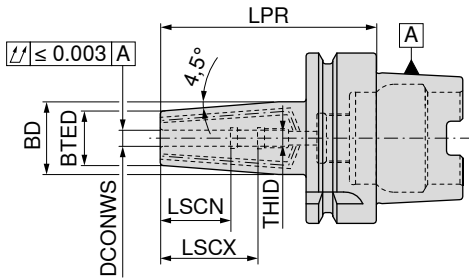
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	EUR	
									mm	mm
short	HSK-A 63	3	80	10	15	22	12	M6	143,20	103
	HSK-A 63	4	80	15	22	26	16	M6	143,20	104
	HSK-A 63	5	80	15	22	30	20	M6	143,20	105
	HSK-A 63	6	80	21	27	36	26	M5	143,20	106
	HSK-A 63	8	80	21	27	36	26	M6	143,20	108
	HSK-A 63	10	85	24	32	41	31	M8x1	143,20	110
	HSK-A 63	12	90	24	32	47	37	M10x1	143,20	112
	HSK-A 63	14	90	27	34	47	37	M10x1	143,20	114
	HSK-A 63	16	95	27	34	50	40	M12x1	143,20	116
	HSK-A 63	18	95	33	42	50	40	M12x1	143,20	118
	HSK-A 63	20	100	33	42	52	42	M16x1	143,20	120
	HSK-A 63	25	115	44	53	58	48	M16x1	143,20	125
HSK-A 63	32	120	44	53	62	52	M16x1	143,20	132	
medium length	HSK-A 63	3	120	10	20	12	12		237,80	203
	HSK-A 63	4	120	15	22	16	16		232,60	204
	HSK-A 63	5	120	15	22	20	20		232,60	205
	HSK-A 63	6	120	21	27	36	26	M5	210,90	206
	HSK-A 63	8	120	21	27	36	26	M6	210,90	208
	HSK-A 63	10	120	24	32	41	31	M8x1	210,90	210
	HSK-A 63	12	120	24	32	47	37	M10x1	210,90	212
	HSK-A 63	14	120	27	34	47	37	M10x1	212,20	214
	HSK-A 63	16	120	27	34	50	40	M12x1	212,20	216
	HSK-A 63	18	120	33	42	50	40	M12x1	212,20	218
	HSK-A 63	20	120	33	42	52	42	M16x1	212,20	220
	HSK-A 63	25	120	44	53	58	48	M16x1	212,20	225
extra-long	HSK-A 63	3	160	10	20	12	12		265,00	303
	HSK-A 63	4	160	15	22	16	16		258,10	304
	HSK-A 63	5	160	15	22	20	20		258,10	305
	HSK-A 63	6	160	21	27	36	26	M5	239,30	306
	HSK-A 63	8	160	21	27	36	26	M6	239,30	308
	HSK-A 63	10	160	24	32	41	31	M8x1	239,30	310
	HSK-A 63	12	160	24	32	47	37	M10x1	239,30	312
	HSK-A 63	14	160	27	34	47	37	M10x1	239,30	314
	HSK-A 63	16	160	27	34	50	40	M12x1	239,30	316
	HSK-A 63	18	160	33	42	50	40	M12x1	239,30	318
	HSK-A 63	20	160	33	42	52	42	M16x1	239,30	320
	HSK-A 63	25	160	44	53	62	52	M16x1	239,30	325
extra long	HSK-A 63	6	200	21	27	36	26	M5	285,10	406
	HSK-A 63	8	200	21	27	36	26	M6	285,10	408
	HSK-A 63	10	200	24	32	41	31	M8x1	285,10	410
	HSK-A 63	12	200	24	32	47	37	M10x1	285,10	412
	HSK-A 63	14	200	27	34	47	37	M10x1	285,10	414
	HSK-A 63	16	200	27	34	50	40	M12x1	285,10	416
	HSK-A 63	18	200	33	42	50	40	M12x1	285,10	418
	HSK-A 63	20	200	33	42	52	42	M16x1	285,10	420
	HSK-A 63	25	200	44	53	62	52	M16x1	285,10	425
	HSK-A 63	32	200	44	53	62	52	M16x1	285,10	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

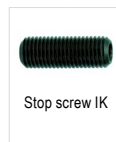


G 2,5 n_{max} 25000

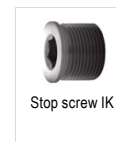
84 316 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR	
									Y8	
short	HSK-A 63	3	80	10	15	28	12	M6	242,00	103
	HSK-A 63	4	80	15	22	28	16	M6	235,20	104
	HSK-A 63	5	80	15	22	30	20	M6	235,20	105
	HSK-A 63	6	80	21	27	36	26	M5	213,70	106
	HSK-A 63	8	80	21	27	36	26	M6	213,70	108
	HSK-A 63	10	85	24	32	41	31	M8x1	213,70	110
	HSK-A 63	12	90	24	32	47	37	M10x1	213,70	112
	HSK-A 63	14	90	27	34	47	37	M10x1	213,70	114
	HSK-A 63	16	95	27	34	50	40	M12x1	213,70	116
	HSK-A 63	18	95	33	42	50	40	M12x1	213,70	118
	HSK-A 63	20	100	33	42	52	42	M16x1	213,70	120
	HSK-A 63	25	115	44	53	58	48	M16x1	213,70	125
	HSK-A 63	32	120	44	53	62	52	M16x1	213,70	132

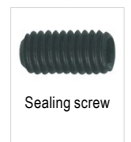
→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK



Sealing screw

Spare parts	DCONWS		83 950 ...		83 950 ...		83 950 ...	
			EUR		EUR		EUR	
			Y7		Y7		Y7	
3 - 5		M6x14 - SW2	10,45	417			M2x6	0,61 512
6					M5x12,5 - SW2,5	10,45 418	M2x6	0,61 512
8					M6x12,5 - SW3	10,45 419	M2x6	0,61 512
10					M8x1x13,5 - SW3	10,45 420	M2x6	0,61 512
12 - 14					M10x1x13,5 - SW5	10,45 421	M2x6	0,61 512
16 - 18		M12x1 - SW5	10,48	510			M2x6	0,61 512
20 - 32		M16x1 - SW5	6,20	511			M2x6	0,61 512

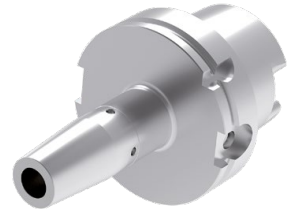
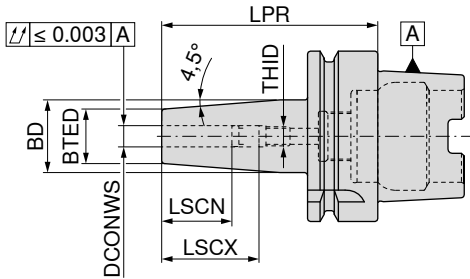
Accessories

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	EUR Y8	
short	HSK-A 100	6	85	21	27	36	26	M5	261,00	106
	HSK-A 100	8	85	21	27	36	26	M6	261,00	108
	HSK-A 100	10	90	24	32	41	31	M8x1	261,00	110
	HSK-A 100	12	95	24	32	47	37	M10x1	261,00	112
	HSK-A 100	14	95	27	34	47	37	M10x1	261,00	114
	HSK-A 100	16	100	27	34	50	40	M12x1	261,00	116
	HSK-A 100	18	100	33	42	50	40	M12x1	261,00	118
	HSK-A 100	20	105	33	42	52	42	M16x1	261,00	120
	HSK-A 100	25	115	44	53	58	48	M16x1	261,00	125
	HSK-A 100	32	120	44	53	62	52	M16x1	261,00	132
medium length	HSK-A 100	6	120	21	27	36	26	M5	301,40	206
	HSK-A 100	8	120	21	27	36	26	M6	301,40	208
	HSK-A 100	10	120	24	32	41	31	M8x1	301,40	210
	HSK-A 100	12	120	24	32	47	37	M10x1	301,40	212
	HSK-A 100	14	120	27	34	47	37	M10x1	301,40	214
	HSK-A 100	16	120	27	34	50	40	M12x1	301,40	216
	HSK-A 100	18	120	33	42	50	40	M12x1	301,40	218
	HSK-A 100	20	120	33	42	52	42	M16x1	301,40	220
	HSK-A 100	25	120	44	53	58	48	M16x1	301,40	225
	extra-long	HSK-A 100	6	160	21	27	36	26	M5	348,70
HSK-A 100		8	160	21	27	36	26	M6	348,70	308
HSK-A 100		10	160	24	32	41	31	M8x1	348,70	310
HSK-A 100		12	160	24	32	47	37	M10x1	348,70	312
HSK-A 100		14	160	27	34	47	37	M10x1	348,70	314
HSK-A 100		16	160	27	34	50	40	M12x1	348,70	316
HSK-A 100		18	160	33	42	50	40	M12x1	348,70	318
HSK-A 100		20	160	33	42	52	42	M16x1	348,70	320
HSK-A 100		25	160	44	53	58	48	M16x1	348,70	325
HSK-A 100		32	160	44	53	62	52	M16x1	348,70	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

84 318 HSK-100 1-channel



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



TG

84 319 HSK-63 2-channel

84 319 HSK-100 2-channel



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

Spare parts heat shrink adapter 4.5°



		83 950 ...	
Spare parts		EUR	
DCONWS		Y7	
6	M5x12,5 - SW2,5	10,45	418
8	M6x12,5 - SW3	10,45	419
10	M8x1x13,5 - SW3	10,45	420
12 - 14	M10x1x13,5 - SW5	10,45	421
16 - 18	M12x1x13,5 - SW5	10,45	422
20 - 32	M16x1x13,5 - SW8	12,04	424

Accessories

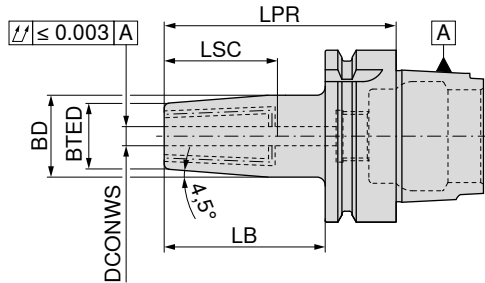
		
Shrink fit extension	Coolant transfer pipe	Others
→ 247	→ 156	→ 284

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

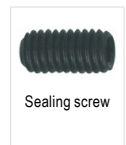
84 717 ...

	Adapter	DCONWS	LPR	BTED	BD	LB	LSC			
								mm	mm	mm
short	HSK-A 63	6	80	21	26	54	36,5		227,20	606
	HSK-A 63	8	80	21	26	54	36,5		227,20	608
	HSK-A 63	10	85	24	30	59	41,5		227,20	610
	HSK-A 63	12	90	24	30	64	46,5		227,20	612
	HSK-A 63	14	90	27	34	64	46,5		227,20	614
	HSK-A 63	16	95	27	34	69	49,5		227,20	616
	HSK-A 63	18	95	33	41	69	49,5		227,20	618
	HSK-A 63	20	100	33	41	74	51,5		227,20	620
	HSK-A 63	25	115	44	52	89	57,5		239,30	625
	HSK-A 63	32	120	44	52	94	61,5		316,40	632
	HSK-A 100	6	85	21	26	56	36,5		320,40	106
	HSK-A 100	8	85	21	26	56	36,5		320,40	108
	HSK-A 100	10	90	24	30	56	41,5		320,40	110
	HSK-A 100	12	95	24	30	66	46,5		320,40	112
	HSK-A 100	14	95	27	34	66	46,5		320,40	114
	HSK-A 100	16	100	27	34	71	49,5		320,40	116
	HSK-A 100	18	100	33	42	71	49,5		320,40	118
	HSK-A 100	20	105	33	42	76	51,5		320,40	120
HSK-A 100	25	115	44	53	86	57,5		332,60	125	
HSK-A 100	32	120	44	53	91	61,5		342,10	132	

→ Min. clamping depth, Page 312



Stop screw IK



Sealing screw

62 950 ...

EUR
W7

62 950 ...

EUR
W7

Spare parts

DCONWS		EUR		EUR	
6	M5x0,8x14	8,79	402	M3x6	1,71 411
8	M6x1x16	8,79	403	M3x6	1,71 411
10	M8x1x20	9,87	404	M3x6	1,71 411
12 - 18	M10x1x20	11,03	405	M3x6	1,71 411
20 - 32	M12x1x20	11,40	406	M4x8	1,71 412

Sealing screw for closing of two additional coolant holes.

Accessories

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

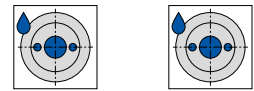
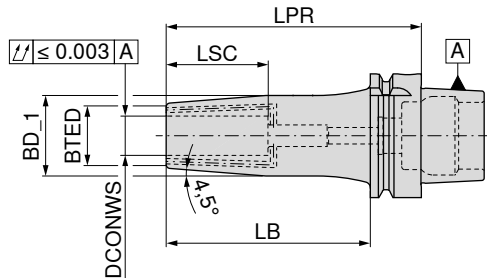
Shrink fit adapters 4.5°

- ▲ 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

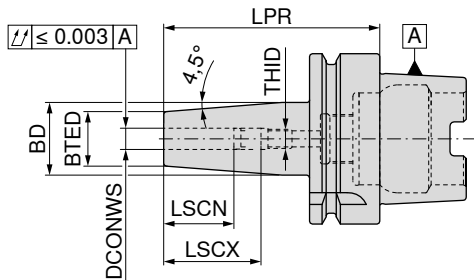
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
								84 720 ... EUR Y8	84 723 ... EUR Y8
long	HSK-A 63	6	130	21	27	104	36,5	316,40	606
	HSK-A 63	8	130	21	27	104	36,5	316,40	608
	HSK-A 63	10	130	24	32	104	41,5	316,40	610
	HSK-A 63	12	130	24	32	104	46,5	316,40	612
	HSK-A 63	14	130	27	34	104	46,5	316,40	614
	HSK-A 63	16	130	27	34	104	49,5	316,40	616
	HSK-A 63	18	130	33	41	104	49,5	316,40	618
	HSK-A 63	20	130	33	41	104	51,5	316,40	620
	HSK-A 100	6	130	21	27	101	36,5	435,20	106
	HSK-A 100	8	130	21	27	101	36,5	435,20	108
	HSK-A 100	10	130	24	32	101	41,5	435,20	110
	HSK-A 100	12	130	24	32	101	46,5	435,20	112
	HSK-A 100	14	130	27	34	101	46,5	435,20	114
	HSK-A 100	16	130	27	34	101	49,5	435,20	116
HSK-A 100	18	130	33	41	101	49,5	435,20	118	
HSK-A 100	20	130	33	41	101	51,5	435,20	120	
extra-long	HSK-A 63	6	160	21	27	134	36,5		347,50 606
	HSK-A 63	8	160	21	27	134	36,5		347,50 608
	HSK-A 63	10	160	24	32	134	41,5		347,50 610
	HSK-A 63	12	160	24	32	134	46,5		347,50 612
	HSK-A 63	14	160	27	34	134	46,5		347,50 614
	HSK-A 63	16	160	27	34	134	49,5		347,50 616
	HSK-A 63	18	160	33	41	134	49,5		347,50 618
	HSK-A 63	20	160	33	41	134	51,5		347,50 620
	HSK-A 63	25	160	44	52	134	57,5		347,50 625
	HSK-A 100	6	160	21	27	131	36,5		477,20 106
	HSK-A 100	8	160	21	27	131	36,5		477,20 108
	HSK-A 100	10	160	24	32	131	41,5		477,20 110
	HSK-A 100	12	160	24	32	131	46,5		477,20 112
	HSK-A 100	14	160	27	34	131	46,5		477,20 114
	HSK-A 100	16	160	27	34	131	49,5		477,20 116
	HSK-A 100	18	160	33	41	131	49,5		477,20 118
	HSK-A 100	20	160	33	41	131	51,5		477,20 120
	HSK-A 100	25	160	44	53	131	57,5		477,20 125
HSK-A 100	32	160	44	53	131	61,5		477,20 132	

→ 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

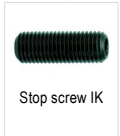


G 2,5 n_{max} 25000

82 310 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	EUR	
									Y8/3B	
short	HSK-A 63	3	80	10	15	22	12		137,80	10357
	HSK-A 63	4	80	15	22	26	16		137,80	10457
	HSK-A 63	5	80	15	22	30	20		137,80	10557
	HSK-A 63	6	80	21	27	36	26	M5	137,80	10657
	HSK-A 63	8	80	21	27	36	26	M6	137,80	10857
	HSK-A 63	10	85	24	32	41	31	M8x1	137,80	11057
	HSK-A 63	12	90	24	32	47	37	M10x1	137,80	11257
	HSK-A 63	14	90	27	34	47	37	M10x1	137,80	11457
	HSK-A 63	16	95	27	34	50	40	M12x1	137,80	11657
	HSK-A 63	18	95	33	42	50	40	M12x1	137,80	11857
	HSK-A 63	20	100	33	42	52	42	M16x1	137,80	12057
	HSK-A 63	25	115	44	53	58	48	M16x1	137,80	12557
HSK-A 63	32	120	44	53	62	52	M16x1	137,80	13257	
medium length	HSK-A 63	3	120	10	20	12	12		222,60	20357
	HSK-A 63	4	120	15	22	16	16		217,30	20457
	HSK-A 63	5	120	15	22	20	20		217,30	20557
	HSK-A 63	6	120	21	27	36	26	M5	198,80	20657
	HSK-A 63	8	120	21	27	36	26	M6	198,80	20857
	HSK-A 63	10	120	24	32	41	31	M8x1	198,80	21057
	HSK-A 63	12	120	24	32	47	37	M10x1	198,80	21257
	HSK-A 63	14	120	27	34	47	37	M10x1	198,80	21457
	HSK-A 63	16	120	27	34	50	40	M12x1	198,80	21657
	HSK-A 63	18	120	33	42	50	40	M12x1	198,80	21857
	HSK-A 63	20	120	33	42	52	42	M16x1	198,80	22057
	HSK-A 63	25	120	44	53	58	48	M16x1	198,80	22557
extra-long	HSK-A 63	3	160	10	20	12	12		249,20	30357
	HSK-A 63	4	160	15	22	16	16		243,80	30457
	HSK-A 63	5	160	15	22	20	20		243,80	30557
	HSK-A 63	6	160	21	27	36	26	M5	222,60	30657
	HSK-A 63	8	160	21	27	36	26	M6	222,60	30857
	HSK-A 63	10	160	24	32	41	31	M8x1	222,60	31057
	HSK-A 63	12	160	24	32	47	37	M10x1	222,60	31257
	HSK-A 63	14	160	27	34	47	37	M10x1	222,60	31457
	HSK-A 63	16	160	27	34	50	40	M12x1	222,60	31657
	HSK-A 63	18	160	33	42	50	40	M12x1	222,60	31857
	HSK-A 63	20	160	33	42	52	42	M16x1	222,60	32057
	HSK-A 63	25	160	44	53	62	52	M16x1	222,60	32557

→ Min. clamping depth, Page 312

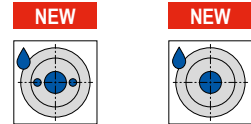
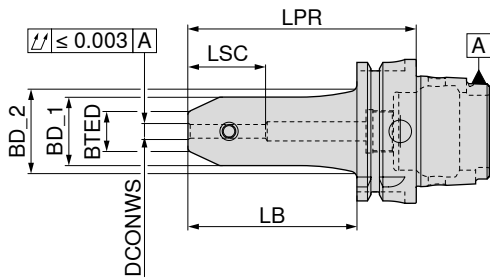


Spare parts

DCONWS		EUR	
		Y8/3B	
3 - 5	M6x16 - SW3	2,91	30100
6	M5x16 - SW2,5	2,72	30000
8	M6x16 - SW3	2,91	30100
10	M8x1x16 - SW4	3,08	30200
12 - 14	M10x1x14 - SW5	3,27	30300
16 - 18	M12x1x16 - SW6	3,44	30400
20 - 32	M16x1x16 - SW8	3,62	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**



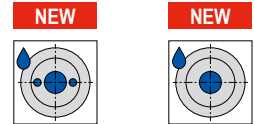
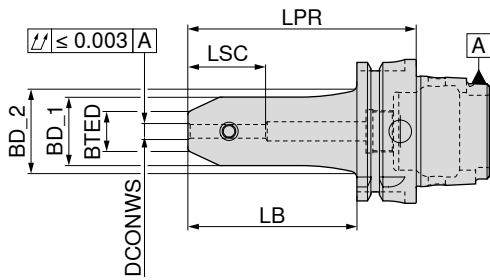
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC mm	G 2,5 n _{max} 25000			
									82 740 ... EUR Y8/3B	82 741 ... EUR Y8/3B		
short	HSK-A 63	6	65	17	30		39	34	140,60	10657	107,00	10657
	HSK-A 63	8	65	20	32		39	34	140,60	10857	107,00	10857
	HSK-A 63	10	65	25	35		39	39	140,60	11057	107,00	11057
	HSK-A 63	12	80	30	42		54	44	140,60	11257	107,00	11257
	HSK-A 63	14	80	32	45		54	44	140,60	11457	107,00	11457
	HSK-A 63	16	80	36	48		54	47	140,60	11657	107,00	11657
	HSK-A 63	18	80	38	48		54	47	140,60	11857	107,00	11857
	HSK-A 63	20	80	40	52		54	49	140,60	12057	107,00	12057
	HSK-A 63	25	110	45	63		84	54	140,60	12557 ¹⁾	107,00	12557 ¹⁾
	HSK-A 63	32	110	52	72		84	58	140,60	13257 ¹⁾	107,00	13257 ¹⁾
	HSK-A 100	6	80	17	30		51	34	188,50	10655	164,50	10655
	HSK-A 100	8	80	20	32		51	34	188,50	10855	164,50	10855
	HSK-A 100	10	80	25	35		51	39	188,50	11055	164,50	11055
	HSK-A 100	12	80	30	42		51	44	188,50	11255	164,50	11255
	HSK-A 100	14	80	32	45		51	44	188,50	11455	164,50	11455
	HSK-A 100	16	100	36	48		71	47	188,50	11655	164,50	11655
	HSK-A 100	18	100	38	48		71	47	188,50	11855	164,50	11855
	HSK-A 100	20	100	40	52		71	49	188,50	12055	164,50	12055
HSK-A 100	25	100	45	65		71	54	188,50	12555 ¹⁾	164,50	12555 ¹⁾	
HSK-A 100	32	100	52	72		71	58	188,50	13255 ¹⁾	164,50	13255 ¹⁾	
HSK-A 100	40	110	60	80		81	68	188,50	14055 ¹⁾	164,50	14055 ¹⁾	
medium length	HSK-A 63	6	100	17	30	36,2	74	34	153,70	20657	122,80	20657
	HSK-A 63	8	100	20	32	38,2	74	34	153,70	20857	122,80	20857
	HSK-A 63	10	100	25	35	41,2	74	39	153,70	21057	122,80	21057
	HSK-A 63	12	100	30	42		74	44	153,70	21257	122,80	21257
	HSK-A 63	14	100	32	45		74	44	153,70	21457	122,80	21457
	HSK-A 63	16	100	36	48		74	47	153,70	21657	122,80	21657
	HSK-A 63	18	100	38	48		74	47	153,70	21857	122,80	21857
	HSK-A 63	20	100	40	52		74	49	153,70	22057	122,80	22057
long	HSK-A 63	6	130	17	30	36,2	104	34	164,20	30657	135,30	30657
	HSK-A 63	8	130	20	32	38,2	104	34	164,20	30857	135,30	30857
	HSK-A 63	10	130	25	35	41,2	104	39	164,20	31057	135,30	31057
	HSK-A 63	12	130	30	42	48,2	104	44	164,20	31257	135,30	31257
	HSK-A 63	14	130	32	45	50,5	104	44	164,20	31457	135,30	31457
	HSK-A 63	16	130	36	48	50,1	104	47	164,20	31657	135,30	31657
	HSK-A 63	18	130	38	48	50,1	104	47	164,20	31857	135,30	31857
	HSK-A 63	20	130	40	52		104	49	164,20	32057	135,30	32057
	HSK-A 63	25	130	45	63		104	54	164,20	32557 ¹⁾	135,30	32557 ¹⁾
	HSK-A 63	32	130	52	72		104	58	164,20	33257 ¹⁾	135,30	33257 ¹⁾

1) Version with two grubscrews

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	82 740 ...		82 741 ...	
									EUR Y8/3B	40657	EUR Y8/3B	40657
extra-long	HSK-A 63	6	160	17	30	36,2	134	34	174,70	40657	148,00	40657
	HSK-A 63	8	160	20	32	38,2	134	34	174,70	40857	148,00	40857
	HSK-A 63	10	160	25	35	41,2	134	39	174,70	41057	148,00	41057
	HSK-A 63	12	160	30	42	48,2	134	44	174,70	41257	148,00	41257
	HSK-A 63	14	160	32	45	50,5	134	44	174,70	41457	148,00	41457
	HSK-A 63	16	160	36	48	50,1	134	47	174,70	41657	148,00	41657
	HSK-A 63	18	160	38	48	50,1	134	47	174,70	41857	148,00	41857
	HSK-A 63	20	160	40	52		134	49	174,70	42057	148,00	42057
	HSK-A 63	25	160	45	63		134	54	174,70	42557 ¹⁾	148,00	42557 ¹⁾
	HSK-A 100	6	160	17	30	38,2	131	34	230,10	40655	214,40	40655
	HSK-A 100	8	160	20	32	40,2	131	34	230,10	40855	214,40	40855
	HSK-A 100	10	160	25	35	43,2	131	39	230,10	41055	214,40	41055
	HSK-A 100	12	160	30	42	50,2	131	44	230,10	41255	214,40	41255
	HSK-A 100	14	160	32	45	53,2	131	44	230,10	41455	214,40	41455
	HSK-A 100	16	160	36	48	56,2	131	47	230,10	41655	214,40	41655
	HSK-A 100	18	160	38	48	56,2	131	47	230,10	41855	214,40	41855
	HSK-A 100	20	160	40	52	60,2	131	49	230,10	42055	214,40	42055
	HSK-A 100	25	160	45	65	73,2	131	54	230,10	42555 ¹⁾	214,40	42555 ¹⁾
	HSK-A 100	32	160	52	72	79,5	134	58	230,10	43255 ¹⁾	214,40	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.

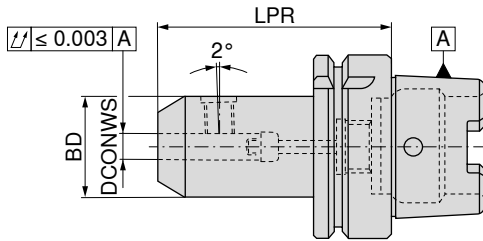
Accessories

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 ...

EUR	
Y8/3B	
108,60	10657
108,60	10857
108,60	11057
108,60	11257
108,60	11457
108,60	11657
108,60	11857
108,60	12057
108,60	12557 ¹⁾
108,60	13257 ¹⁾
184,10	10655
184,10	10855
184,10	11055
184,10	11255
184,10	11455
184,10	11655
184,10	11855
184,10	12055
184,10	12555 ¹⁾
184,10	13255 ¹⁾
184,10	14055 ¹⁾

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

1) Version with two grubscrews



62 950 ...

Spare parts

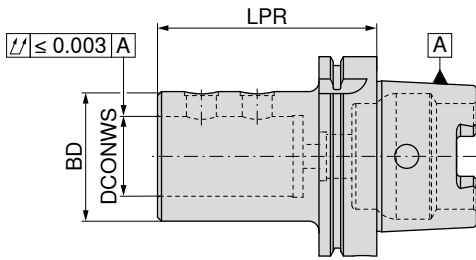
DCONWS		EUR	
		W7	
6	M6x10	0,84	006
8	M8x10	0,99	008
10	M10x12	1,31	010
12 - 14	M12x16	1,32	012
16 - 18	M14x16	1,66	016
20	M16x16	2,01	020
25	M18x2x20	3,66	025
32 - 40	M20x2x20	4,04	032

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	EUR	
HSK-A 63	20	80	40	225,30	320
HSK-A 63	25	90	45	225,30	325
HSK-A 63	32	90	52	225,30	332
HSK-A 63	40	110	65	225,30	340
HSK-A 100	20	90	40	252,70	420
HSK-A 100	25	100	45	252,70	425
HSK-A 100	32	100	52	252,70	432
HSK-A 100	40	110	65	252,70	440
HSK-A 100	50	120	75	252,70	450

EUR
2E/45

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



10 950 ...

Spare parts	DCONWS	EUR	
20	M10x1x10	4,96	001
25 - 32	M12x1x10	5,04	002
40 - 50	M16x1x12	5,04	003

Accessories

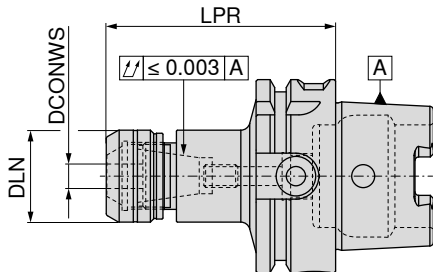


ER Precision Collet chuck – PCC

- ▲ 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	EUR Y8	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	151,10	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	158,70	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	151,10	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	158,70	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	151,10	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	158,70	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	262,90	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	352,40	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	262,90	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	352,40	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 ...
	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	43,98 11000	41,44 01000		M8X3,0 4,15 00100
430E (ER25)	43,98 11600	41,44 01600	M18x1,5 5,64 00200	M8x8 4,15 00300
470E (ER32)	43,98 12000	41,44 02000	M18x1,5 5,64 00200	M8x8 4,15 00300

Spare parts for collet

Accessories

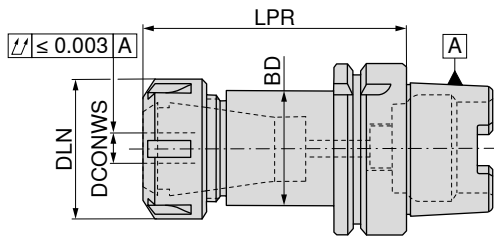
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000

82 743 ...








EUR
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)	140,00 21157
	HSK-A 63	1 - 10	100	32	8 - 56	426E (ER16)	115,90 21057
	HSK-A 63	1 - 16	100	42	24 - 104	430E (ER25)	115,90 21657
	HSK-A 63	2 - 20	100	50	24 - 136	470E (ER32)	115,90 22057
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	115,90 22657
long	HSK-A 100	1 - 10	100	32	8 - 56	426E (ER16)	197,20 21055
	HSK-A 100	1 - 16	100	42	24 - 104	430E (ER25)	180,90 21655
	HSK-A 100	2 - 20	100	50	24 - 136	470E (ER32)	197,20 22055
	HSK-A 100	3 - 26	100	63	176	472E (ER40)	197,20 22655
extra-long	HSK-A 63	1 - 10	160	22	8 - 56	426E (ER16 mini)	140,00 41157
	HSK-A 63	1 - 10	160	32	8 - 56	426E (ER16)	163,00 41057
	HSK-A 63	1 - 16	160	42	24 - 104	430E (ER25)	163,00 41657
	HSK-A 63	2 - 20	160	50	24 - 136	470E (ER32)	163,00 42057
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	163,00 42657
	HSK-A 100	1 - 10	160	32	8 - 56	426E (ER16)	256,00 41055
	HSK-A 100	1 - 16	160	42	24 - 104	430E (ER25)	233,50 41655
	HSK-A 100	2 - 20	160	50	24 - 136	470E (ER32)	246,70 42055
HSK-A 100	3 - 26	160	63	176	472E (ER40)	256,00 42655	
extra long	HSK-A 100	1 - 10	200	32	8 - 56	426E (ER16)	327,30 51055
	HSK-A 100	1 - 16	200	42	24 - 104	430E (ER25)	327,30 51655
	HSK-A 100	2 - 20	200	50	24 - 136	470E (ER32)	327,30 52055
	HSK-A 100	3 - 26	200	63	176	472E (ER40)	327,30 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	EUR Y8	EUR W7	EUR Y8	EUR Y8	EUR W7	EUR Y8	EUR Y8/3B				
426E (ER16 mini)				20,81	101	30,82	066	46,98	058	2,72	30000
426E (ER16)	39,48	054	22,96	054	20,69	116					
430E (ER25)	51,29	055	25,68	055	22,85	125					
470E (ER32)	54,43	056	23,93	65600	31,09	132					
472E (ER40)	64,23	057	23,26	65700	34,22	140					

Accessories

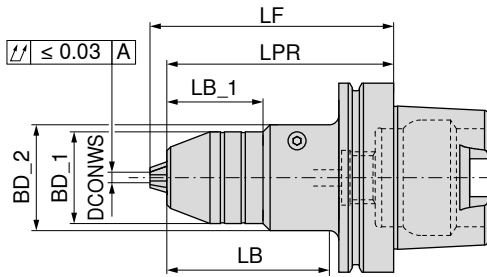
		
ER collet	Coolant transfer pipe	Others
→ 268–276, 279	→ 156	→ 284

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 ...

EUR	
Y8	
369,10	613
375,90	616
451,60	113
471,80	116

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

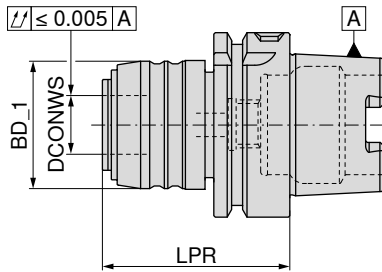
Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

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**



83 724 ...

Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm		
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2	EUR	
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2	Y8	
							261,00	612
							327,20	620
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2	416,40	112
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2	488,20	120

Accessories

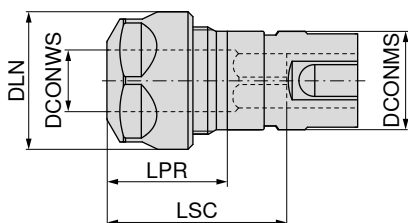


Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ 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	EUR	
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	Y8	
								142,00	012 ¹⁾
								164,90	020

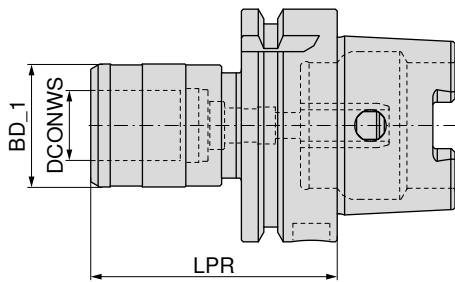
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	EUR	W7	EUR	Y8	EUR	W7	EUR	Y8			
83 608 012	M22x1,5 - SW25	22,96	044	M22x1,5	39,48	054	M22x1,5	22,96	054	20,69	116
83 608 020				M32x1,5	51,29	055	M32x1,5	25,68	055	22,85	125

Quick change tap chuck with length compensation

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



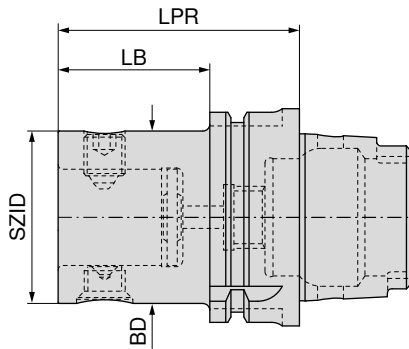
Adapter	SZID	LPR	BD_1	DCONWS	LZD±	83 712 ...	
		mm	mm	mm	mm	EUR	Y8
HSK-A 63	01	72	41	19	7,5	515,10	612
HSK-A 63	02	110	60	31	10	597,60	620
HSK-A 100	01	80	41	19	7,5	868,00	112
HSK-A 100	02	100	60	31	10	868,00	120

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		

EUR	
3E	
323,80	06390
323,80	06389
323,80	06388
323,80	06397
323,80	06396
323,80	06392
356,80	10090
356,80	10089
356,80	10088
356,80	10097
356,80	10096
356,80	10092
356,80	10091

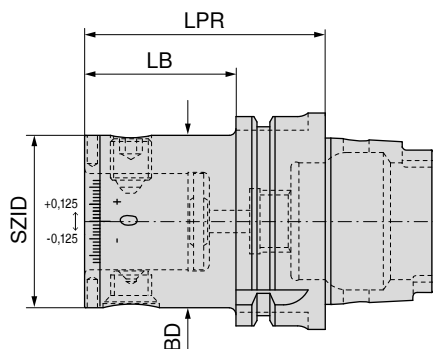
Eccentric adjuster with ABS Connection

▲ 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



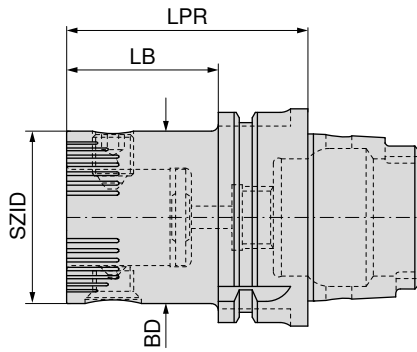
84 203 ...

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		

EUR	
W4/6A	
650,20	06397
681,80	10097
681,80	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 ...	
EUR	
3E	
860,40	06397
896,40	06396
1.262,00	06392
938,40	10097
1.034,00	10096
1.190,00	10092



84 950 ...		84 950 ...	
EUR		EUR	
XX		XX	
15,74	20300	20,18	20400
17,32	25500	21,62	27300
19,61	25600	24,15	25100

Spare parts

SZID

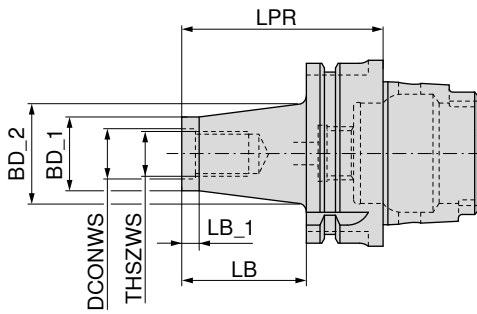
ABS 50
ABS 63
ABS 80

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 ...

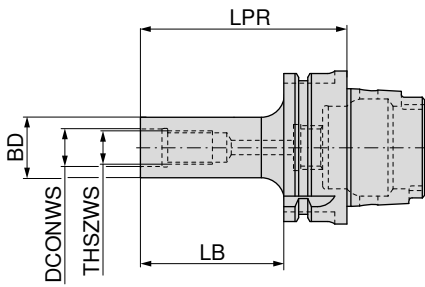
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	EUR	WA
HSK-A 63	M8	8,5	25	13,8	15	12	51	217,80	081
HSK-A 63	M8	8,5	50	13,8	23	12	76	233,80	082
HSK-A 63	M8	8,5	75	13,8	25	12	101	250,10	083
HSK-A 63	M8	8,5	100	13,8	30	12	126	269,10	084
HSK-A 63	M10	10,5	25	18,0	23	12	51	217,80	101
HSK-A 63	M10	10,5	50	18,0	25	12	76	233,80	102
HSK-A 63	M10	10,5	75	18,0	30	12	101	250,10	103
HSK-A 63	M10	10,5	100	18,0	35	12	126	269,10	104
HSK-A 63	M12	12,5	25	21,0	24	12	51	217,80	121
HSK-A 63	M12	12,5	50	21,0	30	12	76	233,80	122
HSK-A 63	M12	12,5	75	21,0	35	12	101	250,10	123
HSK-A 63	M12	12,5	100	21,0	38	12	126	269,10	124
HSK-A 63	M12	12,5	125	21,0	43	12	151	288,00	125
HSK-A 63	M12	12,5	150	21,0	45	12	176	302,90	126
HSK-A 63	M16	17,0	25	29,0	29	12	51	217,80	161
HSK-A 63	M16	17,0	50	29,0	34	12	76	233,80	162
HSK-A 63	M16	17,0	75	29,0	35	12	101	250,10	163
HSK-A 63	M16	17,0	100	29,0	40	12	126	269,10	164
HSK-A 63	M16	17,0	125	29,0	44	12	151	288,00	165
HSK-A 63	M16	17,0	150	29,0	48	12	176	302,90	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	EUR	WA
HSK-A 63	M8	8,5	13,8	50	76	233,80	082
HSK-A 63	M10	10,5	18,0	50	76	233,80	102
HSK-A 63	M10	10,5	18,0	100	126	269,10	104
HSK-A 63	M12	12,5	21,0	50	76	233,80	122
HSK-A 63	M12	12,5	21,0	100	126	269,10	124
HSK-A 63	M16	17,0	29,0	50	76	233,80	162
HSK-A 63	M16	17,0	29,0	100	126	269,10	164

Accessories

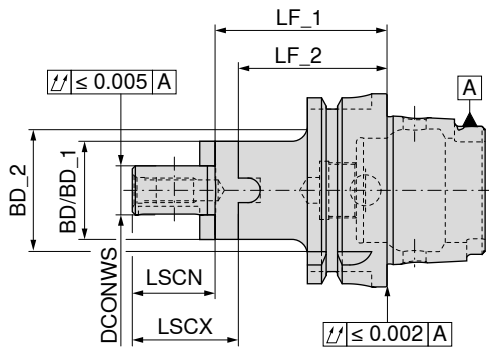
Extension-Reduction set → 257	Coolant transfer pipe → 156	Others → 284

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:

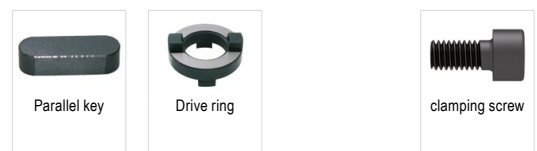
Toolholder with clamping screw, driving ring and dowel spring



G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS	LF_1	LF_2	BD	BD_1	BD_2	LSCX	LSCN	BHTA	EUR	
		mm	mm	mm	mm	mm	mm	mm	mm		Y8/3B	
short	HSK-A 63	16	60	50	32			27	17		109,00	11657
	HSK-A 63	22	60	48	40			31	19		109,00	12257
	HSK-A 63	27	60	48	48			33	21		109,00	12757
	HSK-A 63	32	60	46	58			38	24		109,00	13257
	HSK-A 63	40	70	56	70			41	27		109,00	14057
	HSK-A 100	16	60	50	32			27	17		202,00	11655
	HSK-A 100	22	60	48	40			31	19		202,00	12255
	HSK-A 100	27	60	48	48			33	21		202,00	12755
	HSK-A 100	32	60	46	58			38	24		202,00	13255
	HSK-A 100	40	70	56	70			41	27		202,00	14055
medium length	HSK-A 63	16	100	90	32			27	17		121,30	21657
	HSK-A 63	22	100	88	40			31	19		121,30	22257
	HSK-A 63	27	100	88	48			33	21		121,30	22757
	HSK-A 63	32	100	86	58			38	24		121,30	23257
	HSK-A 63	40	100	86	70			41	27		121,30	24057
extra-long	HSK-A 63	16	160	150		32	43,21	27	17	4,5°	139,10	41657
	HSK-A 63	22	160	148		40	47,25	31	19	3,0°	139,10	42257
	HSK-A 63	27	160	148	48			33	21		139,10	42757
	HSK-A 63	32	160	146	58			38	24		139,10	43257
	HSK-A 63	40	160	146	70			41	27		139,10	44057



Spare parts	DCONWS		83 950 ...		83 370 ...		83 950 ...	
			EUR		EUR		EUR	
			Y8/3B		Y8		Y8/3B	
16		4 x 4 x 20	2,11	284	12,79	116	3,72	113
22		6 x 6 x 25	2,11	285	14,21	122	4,28	124
27		7 x 7 x 25	4,04	286	15,28	127	4,73	125
32		8 x 7 x 28	2,43	287	18,25	132	5,88	126
40		10 x 8 x 32	2,57	288	27,16	140	8,35	112

Accessories

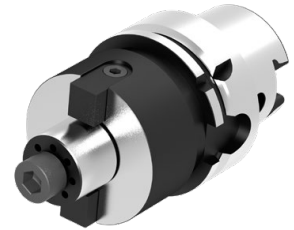
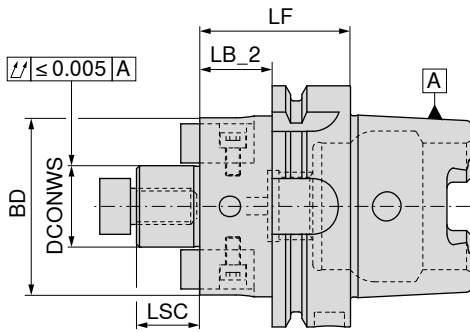


Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog

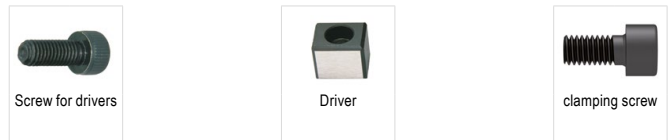


G 2,5 n_{max} 25000

short	Adapter	DCONWS	LB_2	LF	BD	LSC		
		mm	mm	mm	mm	mm	EUR	
	HSK-A 63	22	34	60	38	19	242,60	12257
	HSK-A 63	27	34	60	48	21	242,60	12757
	HSK-A 100	22	31	60	38	19	245,80	12255
	HSK-A 100	27	31	60	48	21	245,80	12755

82 315 ...
EUR
Y8/3B
 242,60 12257
 242,60 12757
 245,80 12255
 245,80 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.



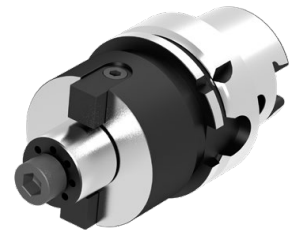
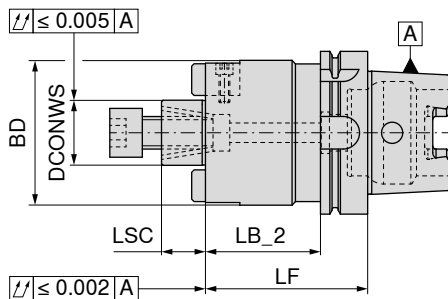
Spare parts		83 950 ...		83 950 ...		83 950 ...		
DCONWS		EUR		EUR		EUR		
22	M4x8	0,75	51700	10x7x20,5	10,58	51500	M10x25	4,28 124
27	M5x8	0,92	51800	12x9x24,3	12,06	51600	M12x30	4,73 125

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



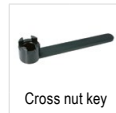
G 2,5 n_{max} 25000

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		154,30 11657
	HSK-A 63	22	34	60	48			19		154,30 12257
	HSK-A 63	27	34	60	58			21		135,10 12757
	HSK-A 63	32	34	60	78			24		140,70 13257
	HSK-A 63	40	34	70	88			27		154,30 14057 ¹⁾
	HSK-A 100	16	31	60	38			17		217,20 11655
	HSK-A 100	22	31	60	48			19		217,20 12255
	HSK-A 100	27	31	60	58			21		217,20 12755
	HSK-A 100	32	31	60	78			24		217,20 13255
	HSK-A 100	40	41	70	88			27		217,20 14055 ¹⁾
medium length	HSK-A 63	16	74	100		38	44,3	17		167,00 21657
	HSK-A 63	22	74	100		48	50,3	19		167,00 22257
	HSK-A 63	27	74	100	58			21		167,00 22757
	HSK-A 63	32	74	100	78			24		167,00 23257
	HSK-A 63	40	74	100	88			27		167,00 24057 ¹⁾
	HSK-A 100	16	71	100		38	46,3	17		229,80 21655
	HSK-A 100	22	71	100		48	56,3	19		229,80 22255
	HSK-A 100	27	71	100		58	66,3	21		229,80 22755
	HSK-A 100	32	71	100		78	80,3	24		229,80 23255
	HSK-A 100	40	71	100	88			27		229,80 24055 ¹⁾
long	HSK-A 63	16	104	130		38	44,3	17		180,60 31657
	HSK-A 63	22	104	130		48	50,3	19		180,60 32257
	HSK-A 63	27	104	130	58			21		180,60 32757
	HSK-A 63	32	104	130	78			24		180,60 33257
	HSK-A 63	40	104	130	88			27		180,60 34057 ¹⁾
	HSK-A 100	16	101	130		38	46,3	17		278,70 31655
	HSK-A 100	22	101	130		48	56,3	19		278,70 32255
	HSK-A 100	27	101	130		58	66,3	21		278,70 32755
	HSK-A 100	32	101	130		78	80,3	24		278,70 33255
	HSK-A 100	40	101	130	88			27		278,70 34055 ¹⁾
extra-long	HSK-A 63	16	134	160		38	44,3	17		194,70 41657
	HSK-A 63	22	134	160		48	50,3	19		194,70 42257
	HSK-A 63	27	134	160	58			21		194,70 42757
	HSK-A 63	32	134	160	78			24		194,70 43257
	HSK-A 63	40	134	160	88			27		194,70 44057 ¹⁾
	HSK-A 100	16	131	160		38	46,3	17		304,20 41655
	HSK-A 100	22	131	160		48	56,3	19		304,20 42255
	HSK-A 100	27	131	160		58	66,3	21		304,20 42755
	HSK-A 100	32	131	160		78	80,3	24		304,20 43255
	HSK-A 100	40	131	160	88			27		304,20 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

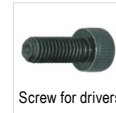


Cross screw

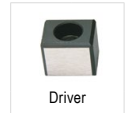


clamping screw

	83 368 ...			83 367 ...			83 950 ...	
Spare parts	EUR			EUR			EUR	
DCONWS	Y8			Y8			Y8/3B	
16	13,79	116	M8	4,17	016	M8x25	3,72	113
22	17,18	122	M10	4,58	022	M10x25	4,28	124
27	22,03	127	M12	5,85	027	M12x30	4,73	125
32	28,38	132	M16	9,39	032	M16x35	5,88	126
40	39,63	140	M20	14,89	040	M20x40 - SW17	8,35	112



Screw for drivers

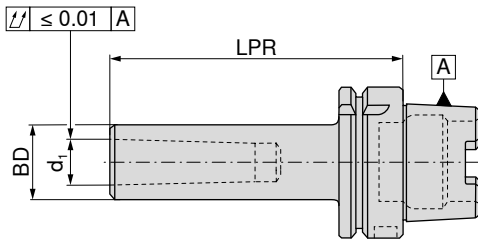


Driver

	83 950 ...			83 950 ...				
Spare parts	EUR			EUR				
DCONWS	Y8/3B			Y8/3B				
16			M3x8	0,48	296	8x9x17,5	9,32	120
22			M4x12	0,61	297	10x11x20,5	9,65	121
27			M5x12	0,74	136	12x13x24,3	10,93	122
32			M5x20	0,82	137	14x21x21,2	11,28	123
40			M6x16	0,97	138	15,9x16,3x19,5	14,47	295

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 ...

EUR	
Y8/3B	
104,20	01057
104,20	02057
104,20	03057
104,20	04057
169,60	02055
169,60	03055
169,60	04055

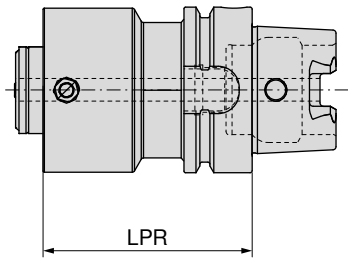
Adapter	d ₁	LPR	BD
		mm	mm
HSK-A 63	MK1	100	25
HSK-A 63	MK2	120	32
HSK-A 63	MK3	140	40
HSK-A 63	MK4	160	48
HSK-A 100	MK2	120	32
HSK-A 100	MK3	150	40
HSK-A 100	MK4	170	48

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 ...

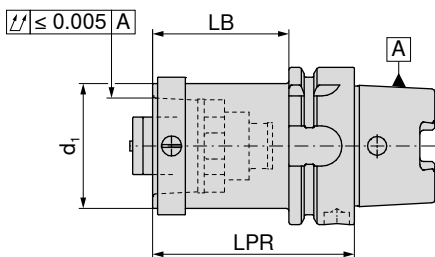
EUR	Y8
662,00	08037
706,10	12037
882,70	12535
937,90	16035
1.004,00	20035

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

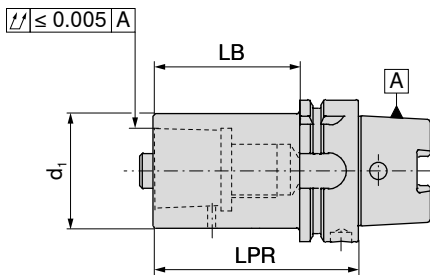
84 040 ...

EUR	Y8
639,40	06359
651,40	06358
758,20	10058
758,20	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



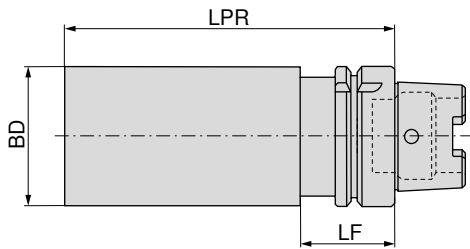
Adapter	d ₁	LB mm	LPR mm	84 013 ... EUR Y8	
HSK-A 63	PSC 32	49	75	330,50	06387
HSK-A 63	PSC 40	54	80	354,20	06395
HSK-A 63	PSC 50	64	90	354,20	06394
HSK-A 100	PSC 32	51	80	389,80	10087
HSK-A 100	PSC 40	61	90	401,70	10095
HSK-A 100	PSC 50	71	100	413,40	10094
HSK-A 100	PSC 63	81	110	473,00	10093
HSK-A 100	PSC 80	91	120	508,70	10086

Spare parts d ₁	84 950 ... EUR Y8		84 950 ... EUR Y8	
	PSC 32	33,13	127	23,93
PSC 40	33,13	128	27,05	123
PSC 50	33,13	129	27,05	124
PSC 63	66,12	130	30,28	126
PSC 80	66,12	130	30,28	126



Blank

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

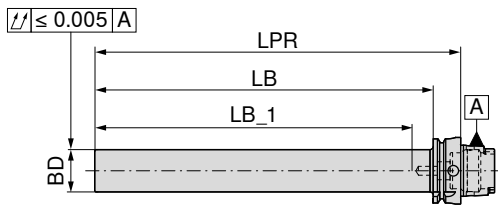


Adapter	BD mm	LPR mm	LF mm
HSK-A 63	63,0	200	42
HSK-A 63	80,0	250	42
HSK-A 100	63,0	200	
HSK-A 100	80,0	250	
HSK-A 100	97,5	250	45

82 747 ...	
EUR	
Y8/3B	
115,10	16357
129,60	18057
173,00	16355
202,00	18055
249,00	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

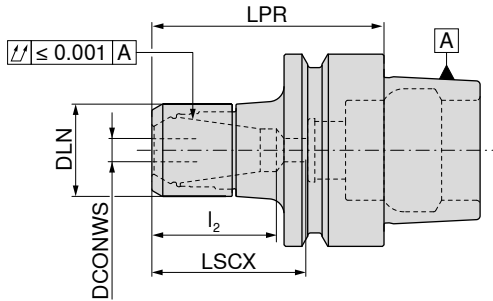
81 746 ...	
EUR	
Y8/3B	
409,10	063
522,70	100

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 ...

EUR
Y8

181,40 417
201,00 516

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)

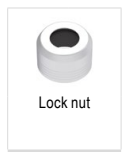
→ Transmittable torque moments, Page 313



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 ...

EUR
Y8

49,29 013

84 950 ...

EUR
Y8

40,16 003

**Spare parts
for collet**

430E (ER25)

Accessories

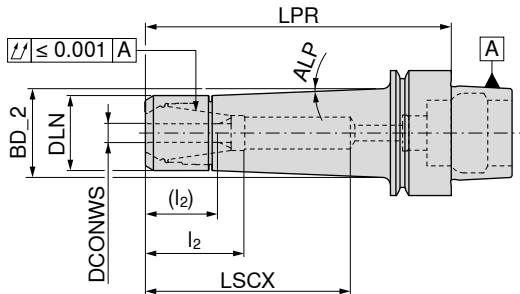
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268–276, 279	→ 280	→ 286	→ 286	→ 156	→ 284

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

Holder **without** nut, **without** 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	EUR	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	206,30	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	195,80	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	167,20	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	190,50	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	185,30	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	144,00	410
medium length	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	159,40	510
	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	188,00	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	172,40	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	180,10	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)	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16 mini)	53,15 035	42,72 041 / 42,72 034	17,45 340 / 18,15 341	12,81 336 / 12,81 337

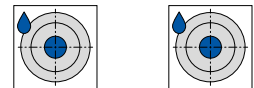
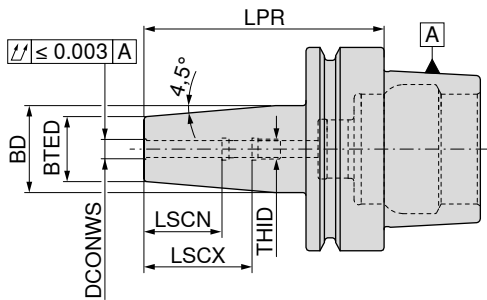
Accessories

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 ...	
									EUR		EUR	
short	HSK-E 40	3	60	10	15	28	12	M6	197,40	103		
	HSK-E 40	4	60	10	15	28	16	M6	192,00	104		
	HSK-E 40	5	60	10	15	30	20	M6	192,00	105		
	HSK-E 40	6	80	21	27	36	26	M5	162,40	106		
	HSK-E 40	8	80	21	27	36	26	M6	162,40	108		
	HSK-E 40	10	80	24	32	41	31	M8x1	162,40	110		
	HSK-E 40	12	90	24	32	47	37	M10x1	162,40	112		
	HSK-E 40	14	90	27	34	47	37	M10x1	162,40	114		
	HSK-E 40	16	90	27	34	50	40	M12x1	162,40	116		
	HSK-E 50	3	80	10	15	22	12	M6			198,70	103
	HSK-E 50	4	80	15	22	26	16	M6			194,70	104
	HSK-E 50	5	80	15	22	30	20	M6			194,70	105
	HSK-E 50	6	80	21	27	36	26	M5			183,90	106
	HSK-E 50	8	80	21	27	36	26	M6			183,90	108
	HSK-E 50	10	85	24	32	41	31	M8x1			183,90	110
	HSK-E 50	12	90	24	32	47	37	M10x1			183,90	112
	HSK-E 50	14	90	27	34	47	37	M10x1			183,90	114
	HSK-E 50	16	95	27	34	50	40	M12x1			183,90	116
	HSK-E 50	18	95	33	42	50	40	M12x1			183,90	118
	HSK-E 50	20	100	33	42	52	42	M16x1			183,90	120

→ Min. clamping depth, Page 312

Spare parts DCONWS		83 950 ...		83 950 ...		83 950 ...	
		EUR		EUR		EUR	
3 - 5	M6x14 - SW2	10,45	417	5,04	411		
6						M5x12,5 - SW2,5	10,45 418
8						M6x12,5 - SW3	10,45 419
10						M8x1x13,5 - SW3	10,45 420
12 - 14						M10x1x13,5 - SW5	10,45 421
16 - 18						M12x1x13,5 - SW5	10,45 422
20						M16x1x13,5 - SW5	12,04 423

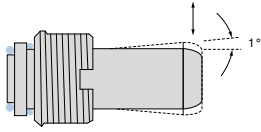
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:

complete, including seals

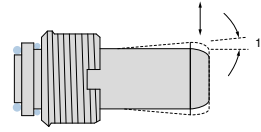


Coolant transfer pipe with strainer – HSK

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



Adapter		THOD	83 760 ...	
			EUR	
			Y8	
HSK 32	M10 x 1		9,96	032
HSK 40	M12 x 1		9,96	040
HSK 50	M16 x 1		9,96	050
HSK 63	M18 x 1		10,27	063
HSK 80	M20 x 1,5		11,84	080
HSK 100	M24 x 1,5		12,27	100

Adapter		THOD	83 760 ...	
			EUR	
			Y8	
HSK 63	M18 x 1		36,90	16300
HSK 100	M24 x 1,5		46,63	20000

NEW

Key – HSK

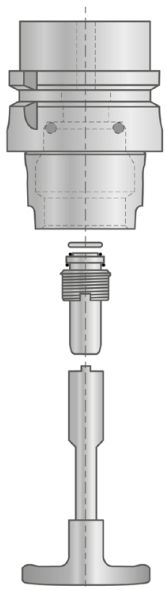


Adapter		83 758 ...	
		EUR	
		Y8	
HSK 32		19,46	032
HSK 40		19,46	040
HSK 50		19,46	050
HSK 63		21,08	063
HSK 80		22,45	080
HSK 100		24,34	100

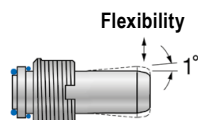


For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole

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 ($\pm 1^\circ$).

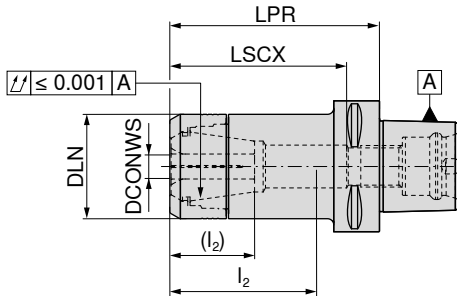


ER Precision Collet chuck – Centro-P

- ▲ 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	EUR Y8	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	308,60	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	320,30	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	337,20	502
PSC 50	1 - 16	60	40	48		430E (ER25)	320,30	505
PSC 50	2 - 20	60	50	49		470E (ER32)	320,30	507
PSC 63	1 - 10	60	30	44		426E (ER16)	320,20	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	338,30	602
PSC 63	1 - 16	60	40	38		430E (ER25)	320,20	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	338,30	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	361,60	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	407,10	608
PSC 63	2 - 20	60	50	42		470E (ER32)	320,20	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	338,30	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	361,60	611
PSC 63	3 - 26	65	63	51		472E (ER40)	339,60	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

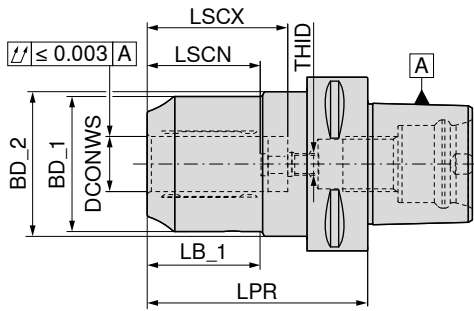
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
426E (ER16)	45,38	011	36,28	001	18,15	341	12,81	337
430E (ER25)	49,29	013	40,16	003	20,50	432	14,72	431
470E (ER32)	51,87	015	42,72	005	20,50	402	14,72	401
472E (ER40)	70,01	017	58,34	007			13,34	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 ...

EUR

Y8

509,20 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.

84 108 62000	M5x5 - SW2,5	2,39	157	SW5	5,46	050	M10x1x14	5,51	429	M16x1x13,5 - SW8	12,04	424
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Accessories

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

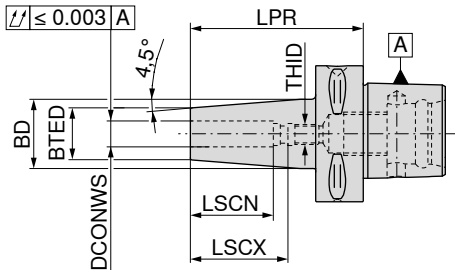
Shrink adapters

- ▲ 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 ...

EUR
Y8

Adapter	LPR	DCONWS	BTED	BD	LSCX	LSCN	THID			
								mm	mm	mm
PSC 32	65	6	21	27	36	26	M5		210,90	306
PSC 32	65	8	21	27	36	26	M6		210,90	308
PSC 32	70	10	24	32	41	31	M8x1		210,90	310
PSC 32	75	12	24	32	47	37	M10x1		210,90	312
PSC 40	75	6	21	27	36	26	M5		214,90	406
PSC 40	75	8	21	27	36	26	M6		214,90	408
PSC 40	75	10	24	32	41	31	M8x1		214,90	410
PSC 40	75	12	24	32	47	37	M10x1		214,90	412
PSC 40	80	14	27	34	47	37	M10x1		214,90	414
PSC 40	80	16	27	34	50	40	M12x1		214,90	416
PSC 40	80	18	33	42	50	40	M12x1		214,90	418
PSC 40	85	20	33	42	52	42	M16x1		214,90	420
PSC 50	65	3	12	17					267,80	503
PSC 50	65	4	12	17					267,80	504
PSC 50	65	5	12	17					267,80	505
PSC 50	75	6	21	30	36	26	M5		223,10	506
PSC 50	75	8	21	30	36	26	M6		223,10	508
PSC 50	75	10	24	33	41	31	M8x1		223,10	510
PSC 50	75	12	24	33	47	37	M10x1		223,10	512
PSC 50	80	14	27	34	47	37	M10x1		223,10	514
PSC 50	80	16	27	34	50	40	M12x1		223,10	516
PSC 50	80	18	33	42	50	40	M12x1		223,10	518
PSC 50	85	20	33	42	52	42	M16x1		223,10	520
PSC 50	90	25	44	53	58	48	M16x1		223,10	525
PSC 63	80	3	12	17					328,50	603
PSC 63	80	4	12	17					328,50	604
PSC 63	80	5	12	17					328,50	605
PSC 63	80	6	21	27	36	26	M5		277,30	606
PSC 63	80	8	21	27	36	26	M6		277,30	608
PSC 63	80	10	24	32	41	31	M8x1		277,30	610
PSC 63	80	12	24	32	47	37	M10x1		277,30	612
PSC 63	85	14	27	34	47	37	M10x1		277,30	614
PSC 63	85	16	27	34	50	40	M12x1		277,30	616
PSC 63	85	18	33	42	50	40	M12x1		277,30	618
PSC 63	85	20	33	42	52	42	M16x1		277,30	620
PSC 63	90	25	44	53	58	48	M16x1		277,30	625
PSC 63	95	32	44	53	61	51	M16x1		277,30	632
PSC 80	85	6	21	27	36	26	M5		297,40	806
PSC 80	85	8	21	27	36	26	M6		297,40	808
PSC 80	85	10	24	32	41	31	M8x1		297,40	810
PSC 80	85	12	24	32	47	37	M10x1		297,40	812
PSC 80	90	14	27	34	47	37	M10x1		297,40	814
PSC 80	90	16	27	34	50	40	M12x1		297,40	816
PSC 80	90	18	33	42	50	40	M12x1		297,40	818
PSC 80	90	20	33	42	52	42	M16x1		297,40	820
PSC 80	95	25	44	53	58	48	M16x1		297,40	825
PSC 80	100	32	44	53	61	51	M16x1		297,40	832

→ Min. clamping depth, Page 312

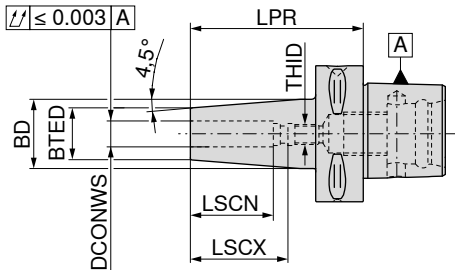
Shrink adapters

- ▲ 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

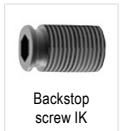


G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 105 ...		84 106 ...		
									EUR Y8		EUR Y8		
medium length	PSC 50	120	6	21	32	36	26	M5	267,80	506			
	PSC 50	120	8	21	32	36	26	M6	267,80	508			
	PSC 50	120	10	24	34	41	31	M8x1	267,80	510			
	PSC 50	120	12	24	34	47	37	M10x1	267,80	512			
	PSC 50	120	14	27	36	47	37	M10x1	267,80	514			
	PSC 50	120	16	27	36	50	40	M12x1	267,80	516			
	PSC 50	120	18	33	42	50	40	M12x1	267,80	518			
	PSC 50	120	20	33	42	52	42	M16x1	267,80	520			
	PSC 50	120	25	44	53	58	48	M16x1	267,80	525			
	PSC 63	120	6	21	32	36	26	M5	328,50	606			
	PSC 63	120	8	21	32	36	26	M6	328,50	608			
	PSC 63	120	10	24	32	41	31	M8x1	328,50	610			
	PSC 63	120	12	24	32	47	37	M10x1	328,50	612			
	PSC 63	120	14	27	36	47	37	M10x1	328,50	614			
	PSC 63	120	16	27	36	50	40	M12x1	328,50	616			
	PSC 63	120	18	33	44	50	40	M12x1	328,50	618			
	PSC 63	120	20	33	44	52	42	M16x1	328,50	620			
	PSC 63	120	25	44	53	58	48	M16x1	328,50	625			
PSC 63	120	32	44	53	61	51	M16x1	328,50	632				
medium length	PSC 80	120	6	21	32	36	26	M5	355,60	806			
	PSC 80	120	8	21	32	36	26	M6	355,60	808			
	PSC 80	120	10	24	34	41	31	M8x1	355,60	810			
	PSC 80	120	12	24	34	47	37	M10x1	355,60	812			
	PSC 80	120	14	27	36	47	37	M10x1	355,60	814			
	PSC 80	120	16	27	36	50	40	M12x1	355,60	816			
	PSC 80	120	18	33	44	50	40	M12x1	355,60	818			
	PSC 80	120	20	33	44	52	42	M16x1	355,60	820			
	PSC 80	120	25	44	53	58	48	M16x1	355,60	825			
	PSC 80	120	32	44	53	61	51	M16x1	355,60	832			
	extra-long	PSC 63	160	6	21	32	36	26	M5			359,80	606
		PSC 63	160	8	21	32	36	26	M6			359,80	608
PSC 63		160	10	24	34	41	31	M8x1			359,80	610	
PSC 63		160	12	24	34	47	37	M10x1			359,80	612	
PSC 63		160	14	27	36	47	37	M10x1			359,80	614	
PSC 63		160	16	27	36	50	40	M12x1			359,80	616	
PSC 63		160	18	33	44	50	40	M12x1			359,80	618	
PSC 63		160	20	33	44	52	42	M16x1			359,80	620	
PSC 63		160	25	44	53	58	48	M16x1			359,80	625	
PSC 63		160	32	44	53	61	51	M16x1			359,80	632	

→ Min. clamping depth, Page 312

Spare parts heat shrink adapter



Backstop screw IK

84 950 ...

Spare parts

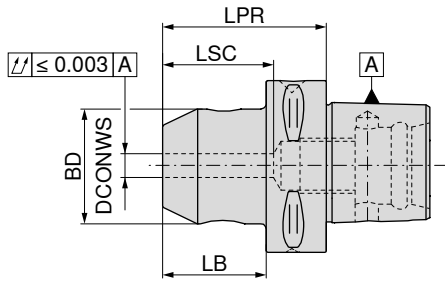
DCONWS

	EUR	
6	10,69	140
8	10,69	141
10	10,69	142
12 - 14	10,69	143
16 - 18	10,69	144
20 - 32	10,69	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 ...

EUR

Y8

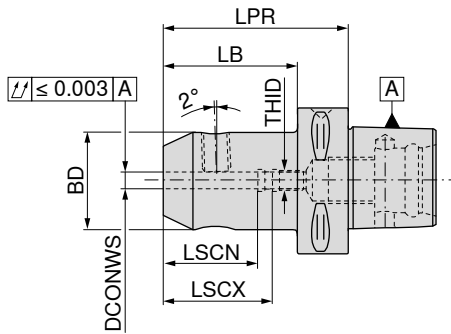
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm		
PSC 32	6	45	25	30	35	174,50	306
PSC 32	8	45	28	30	35	174,50	308
PSC 32	10	50	35	35	39	174,50	310
PSC 32	12	55	42	40	44	174,50	312
PSC 40	6	50	25	30	35	190,60	406
PSC 40	8	50	28	30	35	190,60	408
PSC 40	10	50	35	30	39	190,60	410
PSC 40	12	55	42	35	44	190,60	412
PSC 40	14	55	44	35	44	190,60	414
PSC 40	16	55	48	35	47	190,60	416
PSC 50	6	50	25	30	35	194,70	506
PSC 50	8	50	28	30	35	194,70	508
PSC 50	10	55	35	35	39	194,70	510
PSC 50	12	60	42	40	44	194,70	512
PSC 50	14	60	44	40	44	194,70	514
PSC 50	16	60	48	40	47	194,70	516
PSC 50	18	60	50	40	47	194,70	518
PSC 50	20	60	52	40	47	194,70	520
PSC 50	25	80	65	60	54	194,70	525 ¹⁾
PSC 63	6	55	25	33	35	214,90	606
PSC 63	8	55	28	33	35	214,90	608
PSC 63	10	60	35	38	39	214,90	610
PSC 63	12	60	42	38	44	214,90	612
PSC 63	14	60	44	38	44	214,90	614
PSC 63	16	65	48	43	47	214,90	616
PSC 63	18	65	50	43	47	214,90	618
PSC 63	20	65	52	43	49	214,90	620
PSC 63	25	80	65	58	54	214,90	625 ¹⁾
PSC 63	32	90	72	68	58	214,90	632 ¹⁾
PSC 63	40	100	80	78	75	214,90	640 ¹⁾
PSC 80	6	70	25	40	35	236,60	806
PSC 80	8	70	28	40	35	236,60	808
PSC 80	10	70	35	40	39	236,60	810
PSC 80	12	70	42	40	44	236,60	812
PSC 80	14	70	44	40	44	236,60	814
PSC 80	16	70	48	50	47	236,60	816
PSC 80	18	70	50	40	47	236,60	818
PSC 80	20	70	52	40	49	236,60	820
PSC 80	25	80	65	50	54	236,60	825 ¹⁾
PSC 80	32	80	72	50	58	236,60	832 ¹⁾
PSC 80	40	110	80	80	75	236,60	840 ¹⁾
PSC 80	50	120	100	90	83	236,60	850 ¹⁾

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

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

▲ also available with Balluff chip on request

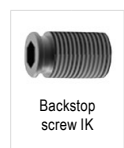


G 6,3 n_{max} 15000

84 102 ...

Adapter	DCONWS	LPR	BD	LB	LSCX	LSCN	THID	EUR	
	mm	mm	mm	mm	mm	mm		Y8	
PSC 32	6	70	25	55	38	28	M5	174,50	306
PSC 32	8	70	28	55	38	28	M6	174,50	308
PSC 32	10	70	35	55	41	31	M8	174,50	310
PSC 32	12	75	42	60	47	37	M10	174,50	312
PSC 40	6	70	25	50	38	28	M5	190,60	406
PSC 40	8	70	28	50	38	28	M6	190,60	408
PSC 40	10	70	35	50	41	31	M8	190,60	410
PSC 40	12	75	42	55	47	37	M10	190,60	412
PSC 40	14	75	44	55	47	37	M10	190,60	414
PSC 50	6	70	25	50	38	28	M5	194,70	506
PSC 50	8	70	28	50	38	28	M6	194,70	508
PSC 50	10	70	35	50	41	31	M8	194,70	510
PSC 50	12	75	42	55	47	37	M10	194,70	512
PSC 50	14	75	44	55	47	37	M10	194,70	514
PSC 50	16	80	48	60	50	40	M12	194,70	516
PSC 50	18	80	50	60	50	40	M12	194,70	518
PSC 50	20	85	52	65	52	42	M16	194,70	520
PSC 63	6	75	25	53	38	28	M5	214,90	606
PSC 63	8	75	28	53	38	28	M6	214,90	608
PSC 63	10	75	35	53	41	31	M8	214,90	610
PSC 63	12	80	42	58	47	37	M10	214,90	612
PSC 63	14	80	44	58	47	37	M10	214,90	614
PSC 63	16	80	48	58	50	40	M12	214,90	616
PSC 63	18	80	50	58	50	40	M12	214,90	618
PSC 63	20	85	52	63	52	42	M16	214,90	620
PSC 63	25	90	65	68	58	48	M16	214,90	625 ¹⁾
PSC 63	32	95	72	73	61	51	M16	214,90	632 ¹⁾
PSC 80	6	65	25	35	38	28	M5	236,60	806
PSC 80	8	65	28	35	38	28	M6	236,60	808
PSC 80	10	65	35	35	41	31	M8	236,60	810
PSC 80	12	70	42	40	47	37	M10	236,60	812
PSC 80	14	70	44	40	47	37	M10	236,60	814
PSC 80	16	75	48	45	50	40	M12	236,60	816
PSC 80	18	75	50	45	50	40	M12	236,60	818
PSC 80	20	80	52	50	52	42	M16	236,60	820
PSC 80	25	90	65	60	58	48	M16	236,60	825 ¹⁾
PSC 80	32	95	72	65	61	51	M16	236,60	832 ¹⁾

1) Version with two grub screws

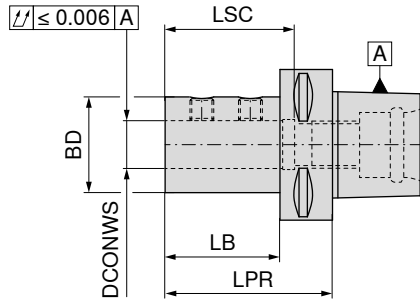


Spare parts

DCONWS		62 950 ...	84 950 ...
		EUR W7	EUR Y8
6	M6x10	0,84 006	10,69 146
8	M8x10	0,99 008	10,69 147
10	M10x12	1,31 010	10,69 148
12 - 14	M12x16	1,32 012	10,69 149
16 - 18	M14x16	1,66 016	10,69 150
20	M16x16	2,01 020	10,69 151
25	M18x2x20	3,66 025	10,69 151
32	M20x2x20	4,04 032	10,69 151

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**



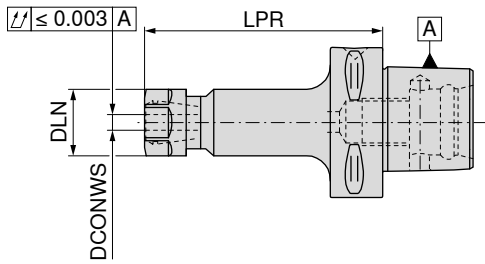
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 128 ...	
						EUR	Y8
PSC 32	16	60	36	45	49	288,00	316
PSC 32	20	60	40	45	54	288,00	320
PSC 40	16	60	36	40	49	297,40	416
PSC 40	20	60	40	40	54	297,40	420
PSC 40	25	70	45	50	59	297,40	425
PSC 50	16	65	36	45	49	319,10	516
PSC 50	20	65	40	45	54	319,10	520
PSC 50	25	70	45	50	59	319,10	525
PSC 50	32	75	52	55	63	319,10	532
PSC 63	16	70	36	48	49	319,10	616
PSC 63	20	70	40	48	54	319,10	620
PSC 63	25	75	45	53	59	319,10	625
PSC 63	32	75	52	53	63	319,10	632
PSC 63	40	85	65	63	73	319,10	640
PSC 63	50	115	75	93	83	319,10	650
PSC 80	16	80	36	50	49	381,30	816
PSC 80	20	80	40	50	54	381,30	820
PSC 80	25	85	45	55	59	381,30	825
PSC 80	32	90	52	60	63	381,30	832
PSC 80	40	95	65	65	73	381,30	840
PSC 80	50	100	75	70	83	381,30	850



Spare parts		83 950 ...	
DCONWS		EUR	Y8
16 - 20	M10x1x10	6,33	180
25 - 32	M12x1x12	6,33	181
40 - 50	M16x1x13	7,76	182

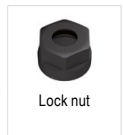
ER Collet chuck

▲ 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)	84 114 ...	
						EUR Y8	
						154,20	304
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)		
						163,60	404
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)		
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	174,50	504
						205,50	506
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	174,50	604
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	205,50	606
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	225,80	806
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	194,70	804



Spare parts for collet

426E (ER16)	M22x1,5 - SW25	EUR W7	22,96	044
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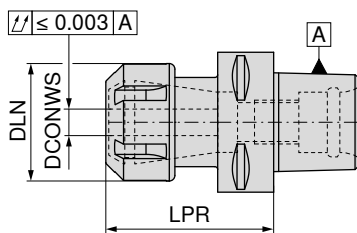
Accessories



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	EUR	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	154,20	306 ¹⁾
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	163,60	404 ¹⁾
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	163,60	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	163,60	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	174,50	502 ¹⁾
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	214,90	504 ¹⁾
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	174,50	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	214,90	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	185,30	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	225,80	512
PSC 50	3 - 26	65	63	176	472E (ER40)	190,60	514
PSC 50	3 - 26	100	63	176	472E (ER40)	232,60	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	174,50	602 ¹⁾
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	214,90	604 ¹⁾
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	174,50	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	214,90	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	185,30	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	225,80	612
PSC 63	3 - 26	65	63	176	472E (ER40)	190,60	614
PSC 63	3 - 26	100	63	176	472E (ER40)	232,60	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	236,60	802 ¹⁾
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	308,20	804 ¹⁾
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	236,60	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	308,20	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	236,60	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	308,20	812
PSC 80	3 - 26	80	63	176	472E (ER40)	236,60	814
PSC 80	3 - 26	100	63	176	472E (ER40)	308,20	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			
	EUR		EUR		EUR		EUR			
428E (ER20)		M25x1,5 - SW30	24,34	045	42,17	053	25,68	055	21,34	12000
430E (ER25)					51,29	055	23,93	65600	22,85	125
470E (ER32)					54,43	056	23,93	65600	31,09	132
472E (ER40)					64,23	057	23,26	65700	34,22	140

Accessories

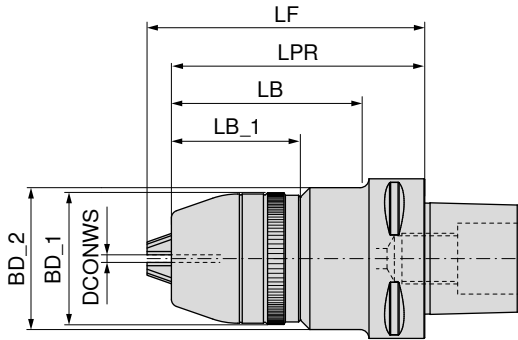


Short drill chuck – NC 2010

- ▲ 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		

EUR

Y8

559,80 01395

574,60 01695

571,30 01394

586,20 01694

582,90 01393

598,20 01693

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

Accessories

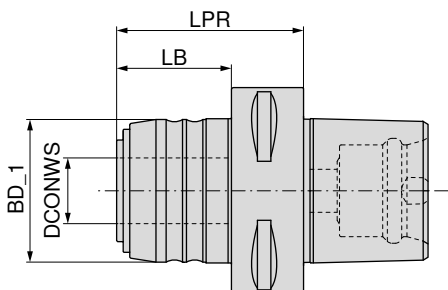


Others

→ 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

EUR
Y8

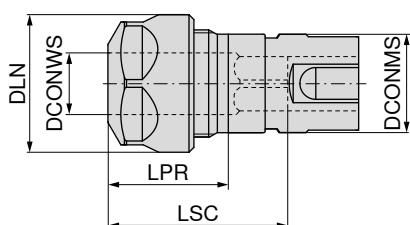
699,00 612
784,00 620

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

EUR
Y8

142,00 012¹⁾
164,90 020

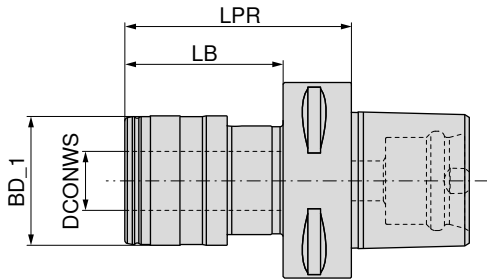
1) with 6 position lock nut

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 ...				
	EUR		EUR		EUR		EUR				
83 608 012	M22x1,5 - SW25	22,96	044	M22x1,5	39,48	054	M22x1,5	22,96	054	20,69	116
83 608 020				M32x1,5	51,29	055	M32x1,5	25,68	055	22,85	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	EUR	
PSC 63	M3 - M12	01	73	41	19	51	7,5	724,60	612
PSC 63	M6 - M20	02	97	60	31	75	10	813,70	620

Accessories

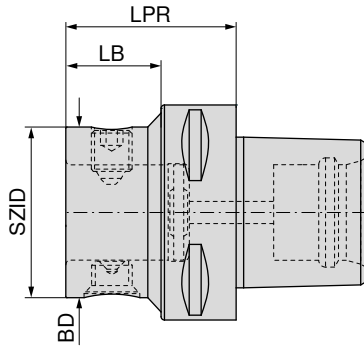


Collet

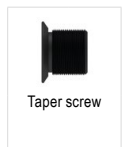
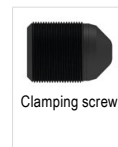
→ 288-292

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	84 215 ... EUR Y8/3K 518,10 04097
PSC 50	A69 05050	ABS 50	50	50	30	518,10 05097
PSC 63	A69 06050	ABS 50	50	50	28	582,90 06397
PSC 63	A69 06060	ABS 63	63	60	36	582,90 06396
PSC 80	A69 08050	ABS 50	50	50	23	647,60 08097
PSC 80	A69 08060	ABS 63	63	60	30	647,60 08096
PSC 80	A69 08070	ABS 80	80	80	50	647,60 08092

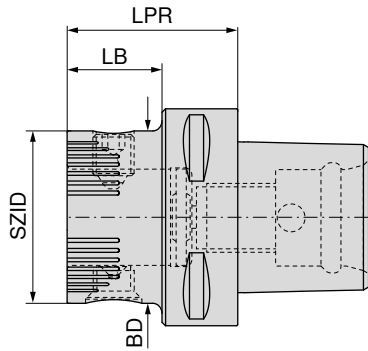


Spare parts

SZID	84 950 ...	84 950 ...
	EUR XX	EUR XX
ABS 50	15,74 20300	20,18 20400
ABS 63	17,32 25500	21,62 27300
ABS 80	19,61 25600	24,15 25100

Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB		
			mm	mm	mm		
PSC 50	A69 05060	ABS 50	50	50	30		
							84 206 ...
						EUR	
						3E	
						888,40	05094
PSC 63	A69 06070	ABS 50	50	50	28		
PSC 63	A69 06080	ABS 63	63	60	38		
							84 206 ...
						EUR	
						921,60	05093
						1.007,00	06393
PSC 80	A69 08090	ABS 50	50	50	23		
PSC 80	A69 08100	ABS 63	63	60	30		
PSC 80	A69 08110	ABS 80	80	80	50		
							84 206 ...
						EUR	
						1.255,00	05086
						1.378,00	06386
						1.510,00	08086



	84 950 ...	84 950 ...	
EUR	EUR	EUR	
XX	XX	XX	
15,74	20300	20,18	20400
17,32	25500	21,62	27300
19,61	25600	24,15	25100

Spare parts

SZID

ABS 50
ABS 63
ABS 80

Accessories



Coolant transfer pipe

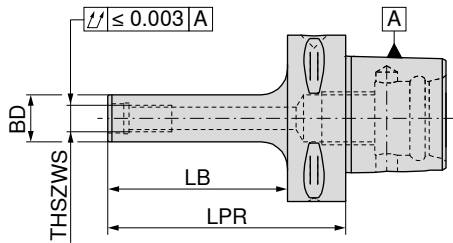
Others

→ 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 ...

EUR
Y8

236,60 302
236,60 306

242,00 402
242,00 405
242,00 408

246,10 502
246,10 505
246,10 508
246,10 512

267,80 602
267,80 605
267,80 608
267,80 612

Accessories



Coolant transfer pipe

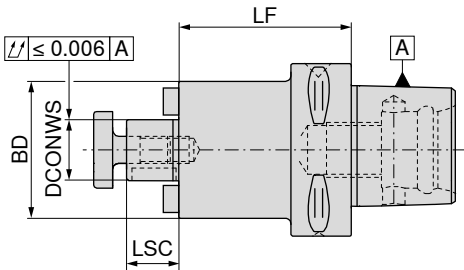
→ 176

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 ...

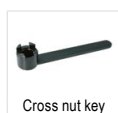
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	EUR Y8	
PSC 40	16	28	40	17	185,30	401
PSC 40	16	63	40	17	194,70	402
PSC 40	22	40	50	19	185,30	411
PSC 40	22	63	50	19	194,70	412
PSC 50	16	28	40	17	185,30	501
PSC 50	16	63	40	17	194,70	502
PSC 50	22	28	50	19	185,30	511
PSC 50	22	63	50	19	194,70	512
PSC 50	27	32	50	21	185,30	521
PSC 50	27	63	50	21	194,70	522
PSC 50	32	40	63	24	185,30	531
PSC 50	32	63	63	24	194,70	532
PSC 63	16	63	40	17	205,50	602
PSC 63	22	28	63	19	194,70	611
PSC 63	22	63	50	19	205,50	612
PSC 63	27	28	58	21	194,70	621
PSC 63	27	63	58	21	205,50	622
PSC 63	32	22	63	24	194,70	631
PSC 63	32	86	63	24	205,50	632
PSC 63	40	40	70	27	225,80	641
PSC 80	16	63	40	17	242,00	802
PSC 80	22	30	50	19	233,80	811
PSC 80	22	63	50	19	242,00	812
PSC 80	27	30	58	21	233,80	821
PSC 80	27	63	58	21	242,00	822
PSC 80	32	30	63	24	233,80	831
PSC 80	32	86	63	24	242,00	832
PSC 80	40	40	70	27	233,80	841



drive key



drive dog



Cross nut key



Cross screw



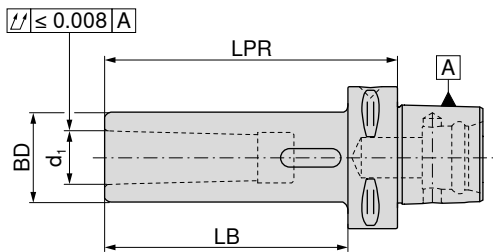
clamping screw

Spare parts

DCONWS	84 950 ... EUR Y8	84 950 ... EUR Y8	83 368 ... EUR Y8	83 367 ... EUR Y8	83 950 ... EUR Y8/3B
16	4,02 108	9,15 113	13,79 116	4,17 016	3,72 113
22	4,02 109	10,69 114	17,18 122	4,58 022	4,28 124
27	4,02 110	11,58 115	22,03 127	5,85 027	4,73 125
32	4,02 111	13,15 116	28,38 132	9,39 032	5,88 126
40	4,02 112	14,73 117	39,63 140	14,89 040	8,35 112

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

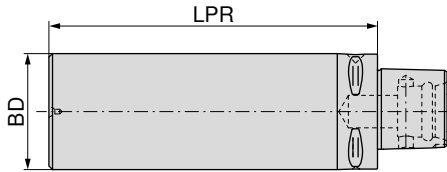
▲ also available with Balluff chip on request



Adapter	d ₁	LPR	BD	LB	84 126 ...	
		mm	mm	mm	EUR	
PSC 40	MK2	110	32	90	194,70	402
PSC 40	MK3	130	40	119	205,50	403
PSC 50	MK2	110	32	90	205,50	502
PSC 50	MK3	130	40	110	214,90	503
PSC 50	MK4	150	48	132	225,80	504
PSC 63	MK2	110	32	88	205,50	602
PSC 63	MK3	130	40	108	214,90	603
PSC 63	MK4	150	48	128	225,80	604
PSC 80	MK2	120	32	90	236,60	802
PSC 80	MK3	140	40	110	256,90	803
PSC 80	MK4	160	48	130	277,30	804

Blank

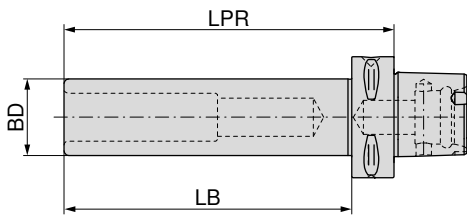
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	84 134 ...	
			EUR	
			Y8	
PSC 40	40	95	143,20	402
PSC 40	40	120	154,20	403
PSC 40	60	165	163,60	404
PSC 40	80	75	185,30	405
PSC 40	80	120	194,70	406
PSC 40	100	85	205,50	408
PSC 50	50	125	163,60	502
PSC 50	50	150	174,50	503
PSC 50	75	175	194,70	504
PSC 50	90	80	205,50	506
PSC 50	95	150	214,90	508
PSC 50	110	90	205,50	510
PSC 63	63	180	194,70	602
PSC 63	75	195	205,50	604
PSC 63	110	85	205,50	606
PSC 63	120	180	308,20	608
PSC 63	130	95	236,60	610
PSC 80	80	200	236,60	802
PSC 80	120	160	236,60	804
PSC 80	130	90	225,80	806
PSC 80	145	200	256,90	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 ...

EUR	
Y8	
695,00	030
770,40	040
823,40	050
866,60	060
1.040,00	080

Coolant pipe – PSC

Scope of supply:

complete, including seals



84 116 ...

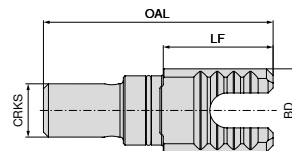
Adapter	THOD	EUR	
		Y8	
PSC 40	M14 x 1,5	38,99	04000
PSC 50	M16 x 1,5	41,01	05000
PSC 63	M20 x 2,0	43,02	06300
PSC 80	M20 x 2,0	53,59	08000

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	EUR	
					Y8	
PSC 40	26,3	56	20	M14x1,5	86,35	04000
PSC 50	33,0	69	25	M16x1,5	86,35	05000
PSC 63	33,0	79	31	M20x2	121,90	06300

Key – PSC



84 117 ...

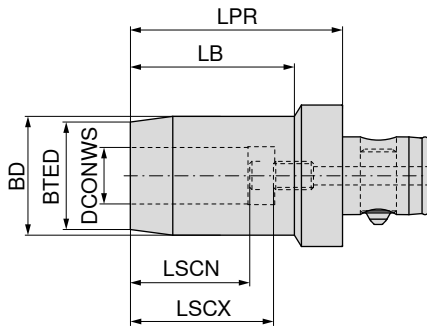
Adapter	EUR	
	Y8	
PSC 40	35,04	04000
PSC 50	37,52	05000
PSC 63	40,08	06300
PSC 80	54,20	08000

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 ...

EUR	Y8
528,10	00688
528,10	00888
528,10	01088
528,10	01288
590,90	00697
590,90	00897
590,90	01097
590,90	01297
590,90	01497
590,90	01697
590,90	01897
590,90	02097
751,20	02096
751,20	02596
751,20	03296



Spare parts
DCONWS

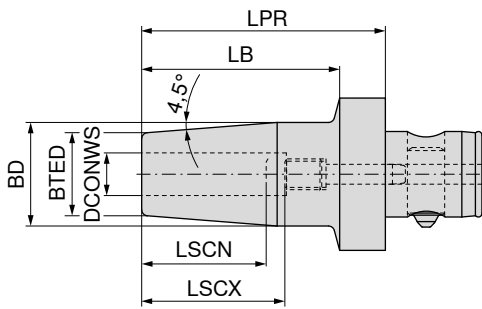
DCONWS	Part	EUR	Y7
6	M5x12,5 - SW2,5	10,45	418
8	M6x12,5 - SW3	10,45	419
10	M8x1x13,5 - SW3	10,45	420
12	M10x1x13,5 - SW5	10,45	421
14	M10x1x13,5 - SW5	10,45	421
16	M10x1x13,5 - SW5	10,45	421
18	M10x1x13,5 - SW5	10,45	421
20	M16x1x13,5 - SW5	12,04	423
25	M16x1x13,5 - SW5	12,04	423
32	M16x1x13,5 - SW5	12,04	423

83 950 ...

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

Shrink fit adapters 4.5°

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



G 6,3 n_{max} 15000

84 222 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCX mm	LSCN mm	EUR	
ABS 32	A32 26040	6	70	27	21	56	36	26	590,60	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	305,80	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	425,70	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	338,80	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	437,70	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	341,70	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	431,70	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	554,60	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	329,80	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	407,80	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	401,80	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	338,80	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	407,80	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	389,70	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	332,80	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	296,80	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	374,70	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	380,80	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	503,70	03296



Backstop screw

84 950 ...

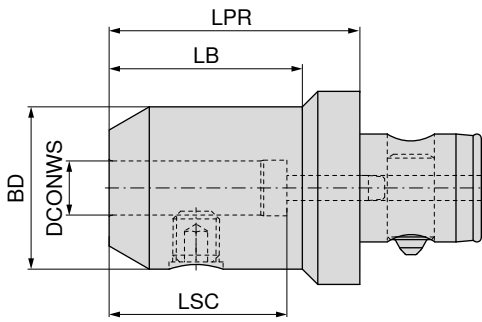
Spare parts
DCONWS

DCONWS	EUR	
6	4,73	M5x18 21400
8	4,73	M6x20 21500
10	3,50	M8x1x20 21600
12	4,39	M10x1x20 21700
14	4,39	M10x1x20 21700
16	6,09	M12x1x20 21800
18	6,09	M12x1x20 21800
20	7,89	M8x1x20 21900
25	7,89	M8x1x20 21900
32	7,89	M8x1x20 21900

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

Cylindrical shank adapter (Weldon)

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



Adapter	KOMET no.	DCONWS	LPR	BD	LB	LSC	84 221 ...	
		mm	mm	mm	mm	mm	EUR	
ABS 50	A32 40010	6	45	25,0	27	40	3E	00697
ABS 50	A32 40020	8	45	28,0	27	40	218,80	00897
ABS 50	A32 40030	10	55	35,0	37	44	218,80	01097
ABS 50	A32 40040	12	65	42,0	50	49	245,80	01297
ABS 50	A32 40080	14	65	44,0	50	49	236,90	01497
ABS 50	A32 40050	16	65	48,0	50	52	242,90	01697
ABS 50	A32 40090	18	65	49,9	50	52	272,80	01897
ABS 50	A32 40060	20	65	52,0	50	54	260,80	02097
ABS 50	A32 40070	25	75	65,0	60	60	248,90	02597 ¹⁾
ABS 63	A32 50040	12	65	42,0	50	49	350,80	01296
ABS 63	A32 50100	14	65	44,0	50	49	374,70	01496
ABS 63	A32 50050	16	65	48,0	50	52	320,90	01696
ABS 63	A32 50110	18	65	50,0	50	52	329,80	01896
ABS 63	A32 50060	20	65	52,0	45	54	275,80	02096
ABS 63	A32 50070	25	75	65,0	60	60	272,80	02596 ¹⁾
ABS 63	A32 50080	32	80	72,0	65	64	278,90	03296 ¹⁾
ABS 80	A32 60060	20	65	52,0	45	54	392,80	02092
ABS 80	A32 60070	25	75	65,0	55	60	380,80	02592 ¹⁾
ABS 80	A32 60080	32	80	72,0	66	64	284,90	03292 ¹⁾

1) Version with two grub screws



Grubscrew

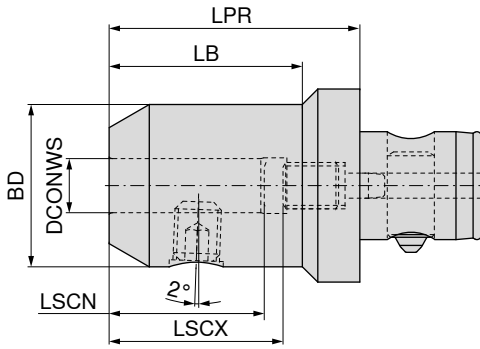
Spare parts

DCONWS		EUR	
6	M6x10	0,84	006
8	M8x10	0,99	008
10	M10x12	1,31	010
12	M12x16	1,32	012
14	M12x16	1,32	012
16	M14x16	1,66	016
18	M14x16	1,66	016
20	M16x16	2,01	020
25	M18x2x20	3,66	025
32	M20x2x20	4,04	032

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

Cylindrical Shank Adapter (Whistle Notch)

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



84 220 ...


Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	EUR 3E	
ABS 25	A30 10601	6	55	40	24,9	36	26	242,90	00690
ABS 25	A30 10801	8	55	40	28,0	36	26	257,90	00890
ABS 25	A30 11001	10	60	45	35,0	40	30	242,90	01090
ABS 32	A30 20601	6	55	40	25,0	36	26	248,90	00689
ABS 32	A30 20801	8	55	40	28,0	36	26	248,90	00889
ABS 32	A30 20901	9	55	40	28,0	36	26	269,80	00989
ABS 32	A30 21001	10	60	45	35,0	40	30	227,90	01089
ABS 32	A30 21201	12	65	50	42,0	45	35	251,80	01289
ABS 32	A30 21401	14	65		42,0	45	35	341,70	01489
ABS 40	A30 30601	6	55	35	25,0	36	26	344,80	00688
ABS 40	A30 30801	8	55	35	28,0	36	26	284,90	00888
ABS 40	A30 31001	10	60	45	35,0	40	30	311,80	01088
ABS 40	A30 31201	12	65	50	42,0	45	35	260,80	01288
ABS 40	A30 31401	14	65	50	42,0	45	35	359,80	01488
ABS 40	A30 31601	16	70	55	48,0	48	38	335,80	01688
ABS 40	A30 31801	18	70	55	48,0	48	38	356,80	01888
ABS 50	A30 40601	6	55	30	25,0	36	26	248,90	00697
ABS 50	A30 40801	8	55	30	28,0	36	26	266,80	00897
ABS 50	A30 41001	10	60	40	35,0	40	30	245,80	01097
ABS 50	A30 41201	12	65	50	42,0	45	35	260,80	01297
ABS 50	A30 41301	13	65	50	42,0	45	35	428,80	01397
ABS 50	A30 41401	14	65	50	42,0	45	35	296,80	01497
ABS 50	A30 41601	16	70	55	48,0	48	38	275,80	01697
ABS 50	A30 41801	18	70	55	48,0	48	38	326,70	01897
ABS 50	A30 42002	20	75	60	52,0	50	40	308,80	02097
ABS 50	A30 42202	22	75	60	52,0	50	40	428,80	02297
ABS 50	A30 42502	25	75	60	52,0	50	40	296,80	02597 ¹⁾
ABS 63	A30 51001	10	60	35	35,0	40	30	365,80	01096
ABS 63	A30 51201	12	65	45	42,0	45	35	320,90	01296
ABS 63	A30 51401	14	65	45	42,0	45	35	377,70	01496
ABS 63	A30 51601	16	70	50	48,0	48	38	356,80	01696
ABS 63	A30 51801	18	70	50	48,0	48	38	386,80	01896
ABS 63	A30 52001	20	75	55	52,0	50	40	341,70	02096
ABS 63	A30 52501	25	80	65	65,0	56	46	296,80	02596 ¹⁾
ABS 63	A30 52801	28	80	65	65,0	56	46	953,30	02896 ¹⁾
ABS 80	A30 62501	25	80	60	65,0	56	46	332,80	02592 ¹⁾
ABS 80	A30 63201	32	90	70	72,0	60	50	407,80	03292 ¹⁾

1) Version with two grubscrews

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



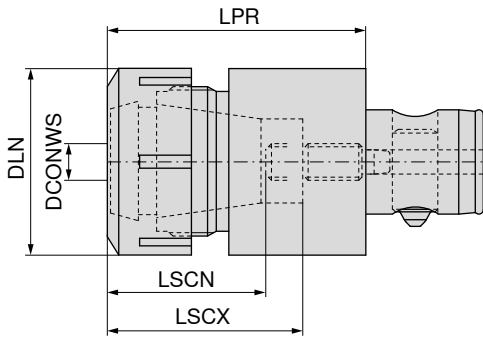
Spare parts DCONWS		62 950 ...		84 950 ...	
		EUR W7		EUR W7/6B	
6	M6x10	0,84	006	M5x16	3,43 20500
8	M8x10	0,99	008	M6x16 - SW2,5	3,43 20600
9	M8x10	0,99	008	M8x1x16 - SW3	3,43 20800
10	M10x12	1,31	010	M8x1x16 - SW2,5	3,43 20700
12	M12x16	1,32	012	M10x1x18 - SW3	4,31 20900
13	M12x16	1,32	012	M12x1x17 - SW3	5,97 21000
14	M12x16	1,32	012	M12x1x17 - SW3	5,97 21000
16	M14x16	1,66	016	M14x1x19 - SW4	7,18 21100
18	M14x16	1,66	016	M14x1x19 - SW4	7,18 21100
20	M16x16	2,01	020	M16x1x21 - SW5	7,74 21200
22	M16x16	2,01	020	M16x1x21 - SW5	7,74 21200
25	M16x16	2,01	020	M16x1x21 - SW5	7,74 21200
28	M18x2x20	3,66	025	M16x1x21 - SW5	7,74 21200
32	M20x2x20	4,04	032	M20x1x27 - SW8	11,83 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	LSCX mm	LSCN mm	84 224 ...
ABS 25	A33 11120	426E (ER16)	1 - 10	40,1	28	31	28	EUR 3E 270,60 01690 ¹⁾
ABS 32	A33 12130	428E (ER20)	1 - 13	52,5	34	39	35	297,30 02089 ¹⁾
ABS 40	A33 13141	430E (ER25)	1 - 16	62,0	42	46	43	317,40 02588
ABS 50	A33 14151	470E (ER32)	2 - 20	69,3	50	51	48	366,80 03297
ABS 63	A33 15161	472E (ER40)	3 - 26	78,3	63	55	52	361,70 04096

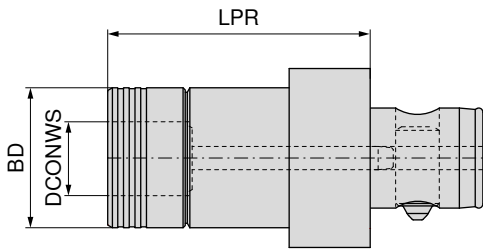
1) with 6 position lock nut

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Backstop screw	
	62 950 ...	83 950 ...	62 950 ...	84 950 ...	62 950 ...	84 950 ...	62 950 ...	84 950 ...
	EUR W7	EUR Y8	EUR W7	EUR W7/6B	EUR W7	EUR W7/6B	EUR W7	EUR W7/6B
426E (ER16)	M22x1,5 - SW25 22,96 044	M22x1,5 39,48 054	M22x1,5 25,68 055	M5x8 - SW2 3,43 22500	M22x1,5 23,93 65600	M6x12 - SW2,5 3,43 22000	M32x1,5 23,26 65700	M8x1x14 - SW4 3,77 22600
428E (ER20)	M25x1,5 - SW30 24,34 045	M25x1,5 42,17 053	M40x1,5 54,43 056	M10x1x14 - SW5 4,31 22700	M40x1,5 54,43 056	M12x1x18 - SW8 5,97 22800	M50x1,5 64,23 057	
430E (ER25)		M32x1,5 51,29 055						
470E (ER32)		M40x1,5 54,43 056						
472E (ER40)		M50x1,5 64,23 057						

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

Quick change tap chuck with length compensation

▲ With length compensation under tension and compression (LZD)

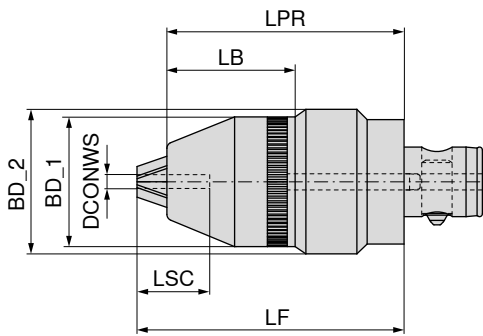


Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	SZID	84 225 ...
ABS 32	A34 32060	19	39	69	01	EUR 3E 1.254,00 01989
ABS 40	A34 33060	19	39	73	01	1.625,00 01988
ABS 50	A34 34060	19	39	72	01	1.539,00 01997
ABS 50	A34 34070	31	60	98	02	1.886,00 03197
ABS 63	A34 35070	31	60	111	02	1.903,00 03196

Short drill chuck

Scope of supply:

Toolholder including clamping key SW4



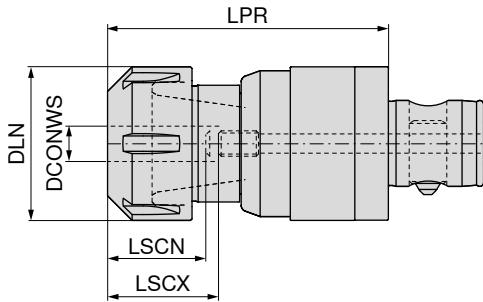
G 6,3 n_{max} 10000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	LSC mm	LF mm	LB mm	84 247 ...
ABS 50	0,5 - 13	49	57,5	95	29	104,0	51,5	EUR Y8 722,70 01397
ABS 50	2,5 - 16	52	57,5	95	29	105,5	52,0	734,00 01697

Accessories


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

Synchro tapping chuck



84 226 ...
EUR
Y8/3K
1.139,00 02089
1.187,00 02097
1.266,00 03297

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

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

Accessories



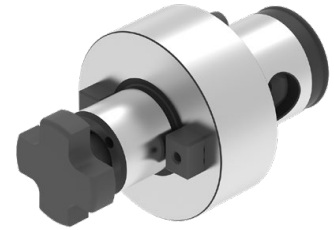
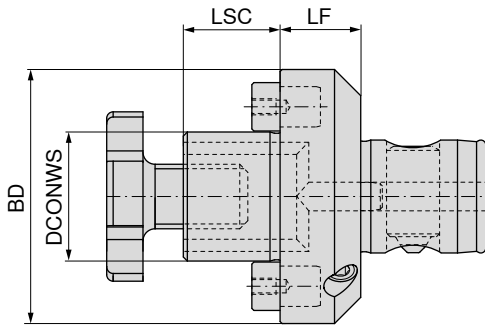
ER collet

→ [268-276](#), [278-279](#)

Shell mill adapter

Scope of supply:

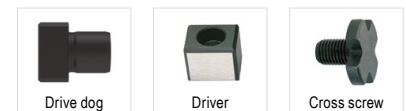
Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS	LSC	LF	BD	84 228 ...	84 228 ...
		mm	mm	mm	mm	EUR 3E	EUR 3E
ABS 50	A40 24023	16	17	20	50		376,80 01697
ABS 50	A40 24034	22	19	20	50		359,20 02297
ABS 50	A40 24043	27	21	20	50		384,50 02797
ABS 50	A40 24053	32	24	20	63		423,70 03297
ABS 63	A40 25032	22	19	22	63		435,00 02296
ABS 63	A40 25042	27	21	22	63		459,10 02796
ABS 63	A40 25052	32	24	22	63		473,00 03296
ABS 63	A40 25062	40	27	22	80		488,20 04096
ABS 80	A40 26042	27	21	25	80		476,80 02792
ABS 80	A40 26052	32	24	25	80		481,80 03292
ABS 80	A40 26062	40	27	25	80		487,00 04092
ABS 80	A40 16062	40	30	43	88	634,90 14092	
ABS 100	A40 27052	32	24	25	100		627,30 03291
ABS 100	A40 17062	40	30	38	88	540,00 14091	
ABS 100	A40 27062	40	27	25	100		546,40 04091
ABS 100	A40 17072	60	40	56	130	689,30 06091	

Spare parts

DCONWS	84 950 ...	83 950 ...	83 367 ...
	EUR W7/6B	EUR Y8/3B	EUR Y8
16			4,17 016
22	38,49 22900		4,58 022
27	40,64 23000		5,85 027
32	38,49 23100		9,39 032
40			14,89 040
40		14,47 295	
60		18,80 298	



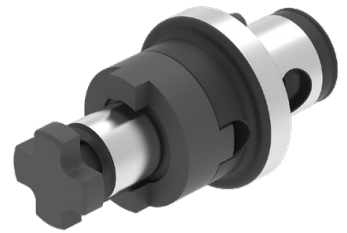
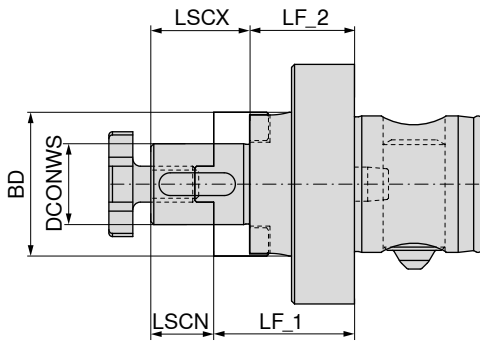
For an overview of the ABS spare parts, take a look at **page 314**.

Combination shell mill adapter

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

Scope of supply:

Base body including retaining screw, drive ring and drive key



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

84 229 ...

EUR	
3E	
292,10	01697
282,00	02297
409,70	01696
460,30	02296
357,90	02796
538,80	02292
484,40	02792
404,70	03292
426,20	04092

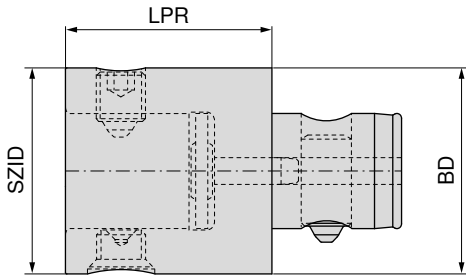


Spare parts

DCONWS		83 950 ...	83 370 ...	83 367 ...
		EUR Y8/3B	EUR Y8	EUR Y8
16	4 x 4 x 20	2,11 284	12,79 116	4,17 016
22	6 x 6 x 25	2,11 285	14,21 122	4,58 022
27	7 x 7 x 25	4,04 286	15,28 127	5,85 027
32	8 x 7 x 28	2,43 287	18,25 132	9,39 032
40	10 x 8 x 32	2,57 288	27,16 140	14,89 040

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

Extension with ABS Connection



Adapter	KOMET no.	SZID	BD	LPR	84 209 ...	
			mm	mm	EUR	
ABS 25	A20 00020	ABS 25	25	45	297,30	04590
ABS 25	A20 00220	ABS 25	25	60	297,30	06090
ABS 32	A20 00530	ABS 32	32	35	314,50	03589
ABS 32	A20 00030	ABS 32	32	50	314,50	05089
ABS 32	A20 00230	ABS 32	32	70	314,50	07089
ABS 40	A20 00540	ABS 40	40	40	331,50	04088
ABS 40	A20 00040	ABS 40	40	60	331,50	06088
ABS 40	A20 00240	ABS 40	40	90	331,50	09088
ABS 50	A20 00550	ABS 50	50	50	369,60	05097
ABS 50	A20 00050	ABS 50	50	65	369,60	06597
ABS 50	A20 00250	ABS 50	50	100	369,60	10097
ABS 50	A20 00150	ABS 50	50	150	369,60	15097
ABS 63	A20 00560	ABS 63	63	60	418,20	06096
ABS 63	A20 00060	ABS 63	63	85	418,20	08596
ABS 63	A20 00260	ABS 63	63	125	418,20	12596
ABS 63	A20 00160	ABS 63	63	190	418,20	19096
ABS 80	A20 00570	ABS 80	80	70	493,20	07092
ABS 80	A20 00070	ABS 80	80	85	493,20	08592
ABS 80	A20 00270	ABS 80	80	125	514,20	12592
ABS 80	A20 00170	ABS 80	80	240	514,20	24092
ABS 100	A20 00580	ABS 100	100	85	549,70	08591
ABS 100	A20 00080	ABS 100	100	125	549,70	12591
ABS 100	A20 00280	ABS 100	100	160	578,70	16091
ABS 125	A20 00090	ABS 125	125	160	651,00	16085
ABS 125	A20 00290	ABS 125	125	200	686,60	20085

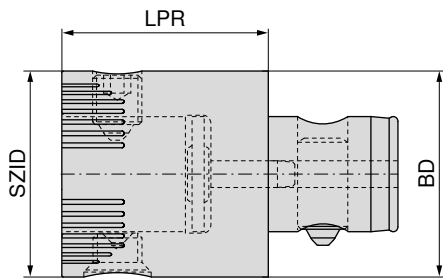
Spare parts Adapter	Clamping screw		Clamping screw		Positioning pin		Pendulum bolt		Coolant pipe		Taper screw	
	62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	EUR	XX	
ABS 25	12,08	13989	12,08	26800	8,16	23600	38,65	26000	8,22	24400	17,70	27000
ABS 32			13,47	26900	17,96	23700	35,79	26100	8,53	24500	17,70	27100
ABS 40			15,74	20300	18,47	20200	44,97	20000	9,23	20100	20,18	20400
ABS 50			17,32	25500	19,09	23900	45,66	26300	9,28	24700	21,62	27300
ABS 63			19,61	25600	19,29	24000	48,17	26400	9,55	24800	24,15	25100
ABS 80			23,21	25700	20,41	24100	54,00	26500	10,83	24900	25,41	25200
ABS 100			36,36	25800	32,43	24200	74,36	26600	11,89	25000	36,80	25300

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

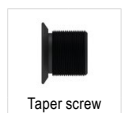
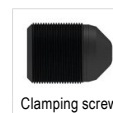
Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc




Adapter	KOMET no.	SZID	BD	LPR	84 216 ...	
			mm	mm	EUR	
ABS 50	A20 00651	ABS 50	50	50	725,60	05097
ABS 63	A20 00661	ABS 63	63	60	908,40	06096
ABS 80	A20 00670	ABS 80	80	70	908,40	07092



Spare parts

Adapter	84 950 ...		84 950 ...	
	EUR		EUR	
	XX		XX	
ABS 50	15,74	20300	20,18	20400
ABS 63	17,32	25500	21,62	27300
ABS 80	19,61	25600	24,15	25100

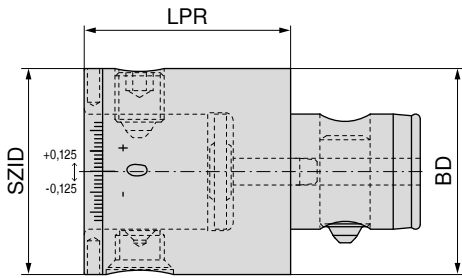
 For an overview of the ABS spare parts, take a look at **page PL**.

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

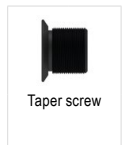
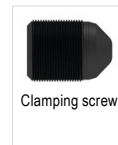
Eccentric adjuster with adjuster key Ø 2.8 mm



Adapter	KOMET no.	SZID	BD	LPR	
			mm	mm	
ABS 50	A20 00620	ABS 50	50	50	
ABS 63	A20 00630	ABS 63	63	60	

84 217 ...

EUR
W4/6A
618,20 05097
668,20 06096



Spare parts

Adapter

ABS 50
ABS 63

84 950 ...

EUR
XX
15,74 20300
17,32 25500

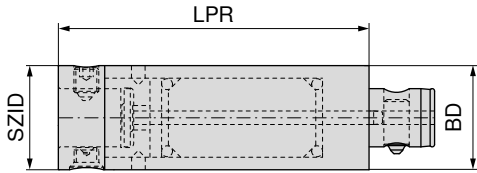
84 950 ...

EUR
XX
20,18 20400
21,62 27300

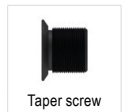
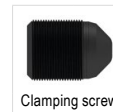
For an overview of the ABS spare parts, take a look at **page 314**.

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.	EUR	
ABS 40	A20 01240	ABS 40	40	120	8000	1.471,00	12088
ABS 50	A20 01250	ABS 50	50	150	6300	1.709,00	15097
ABS 63	A20 01260	ABS 63	63	190	5000	2.235,00	19096
ABS 80	A20 01270	ABS 80	80	240	4000	3.113,00	24092

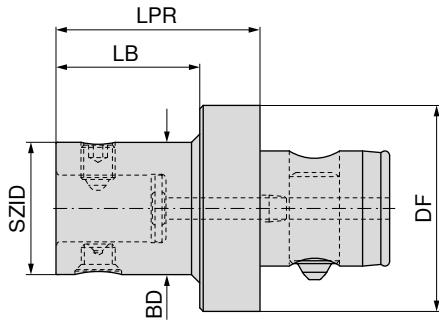


Spare parts

Adapter	84 950 ...		84 950 ...	
	EUR		EUR	
ABS 40	XX		XX	
ABS 40	13,47	26900	18,15	27200
ABS 50	15,74	20300	20,18	20400
ABS 63	17,32	25500	21,62	27300
ABS 80	19,61	25600	24,15	25100

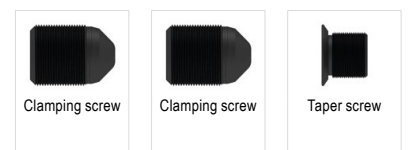
 For an overview of the ABS spare parts, take a look at **page 314**.

ABS reduction



Adapter	KOMET no.	SZID	BD	DF	LPR	LB		84 219 ...
			mm	mm	mm	mm		EUR
ABS 32	A20 10120	ABS 25	25	32	40	30		3E 332,80 03290
ABS 40	A20 10220	ABS 25	25	40	40	28		351,20 04090
ABS 40	A20 10230	ABS 32	32	40	40	28		351,20 04089
ABS 50	A20 10320	ABS 25	25	50	50	35		381,50 05090
ABS 50	A20 10330	ABS 32	32	50	50	35		381,50 05089
ABS 50	A20 10340	ABS 40	40	50	50	35		381,50 05088
ABS 63	A20 10420	ABS 25	25	63	60	40		427,40 06390
ABS 63	A20 10430	ABS 32	32	63	60	40		427,40 06389
ABS 63	A20 10440	ABS 40	40	63	60	40		427,40 06388
ABS 63	A20 10450	ABS 50	50	63	60	40		427,40 06397
ABS 80	A20 10530	ABS 32	32	80	60	35		505,10 08089
ABS 80	A20 10540	ABS 40	40	80	60	35		505,10 08088
ABS 80	A20 10550	ABS 50	50	80	60	35		505,10 08097
ABS 80	A20 10560	ABS 63	63	80	60	35		505,10 08096
ABS 100	A20 10650	ABS 50	50	100	80	50		551,20 10097
ABS 100	A20 10660	ABS 63	63	100	80	50		551,20 10096
ABS 100	A20 10670	ABS 80	80	100	80	50		551,20 10092
ABS 125	A20 10770	ABS 80	80	125	100	50		609,00 12592
ABS 125	A20 10780	ABS 100	100	125	100	50		609,00 12591

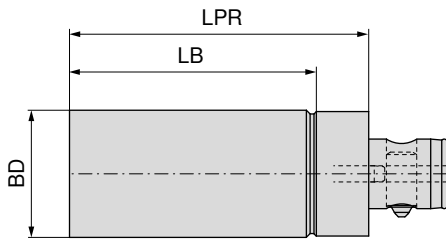
Spare parts SZID	62 950 ...		84 950 ...		84 950 ...	
	EUR	XX	EUR	XX	EUR	XX
ABS 25						
ABS 32	12,08	13989	12,08	26800	17,70	27000
ABS 40			13,47	26900	18,15	27200
ABS 50			15,74	20300	20,18	20400
ABS 63			17,32	25500	21,62	27300
ABS 80			19,61	25600	24,15	25100
ABS 100			23,21	25700	25,41	25200



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

Blank

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



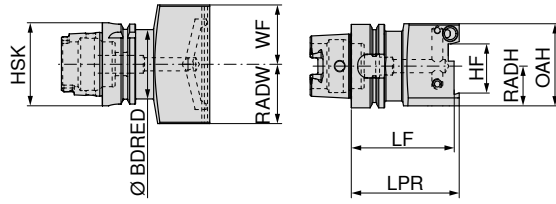
Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...

EUR W4/6A	
164,40	02690
173,30	03389
202,40	04188
197,30	05197
249,10	06496
385,80	08192
508,50	10191

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

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



radial

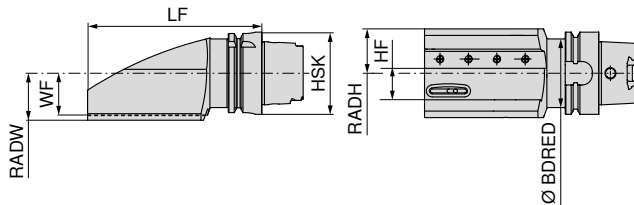
74 586 ...

EUR
2D/80

496,90 02637
496,90 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 Blade Holder GX/LX/FX/SX



Illustrations show right-hand versions



Left-hand

74 585 ...

EUR
2D/80

496,90 02637
496,90 03237



Right-hand

74 584 ...

EUR
2D/80

496,90 02637
496,90 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...



O-Ring

70 950 ...

EUR
2A/28

5,55 293



O-Ring

70 950 ...

EUR
2A/28

5,55 292



Clamping wedge

70 950 ...

EUR
2A/28

81,57 860



clamping screw

70 950 ...

EUR
2A/28

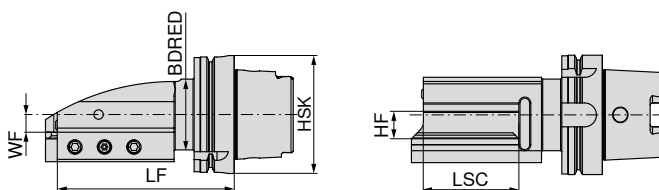
2,86 861

Spare parts
for parting blades

XLCF R/L 26...	19x2,5	5,55	293	23x2,5	5,55	292	81,57	860	M6x12	2,86	861
XLCF R/L 32...	19x2,5	5,55	293	23x2,5	5,55	292	81,57	860	M6x12	2,86	861

HSK-T square shank adapter 0°

- ▲ 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 ...

EUR
2D/80

388,50 02537
513,00 02535



Right-hand

74 570 ...

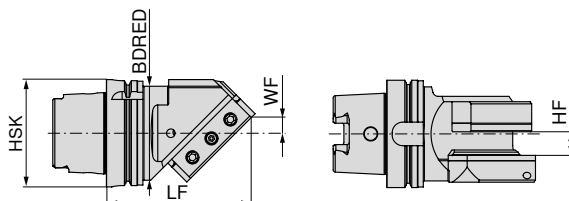
EUR
2D/80

388,50 02537
513,00 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 adapter 45°

- ▲ 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 ...

EUR
2D/80

388,50 02537
528,00 02535



Right-hand

74 572 ...

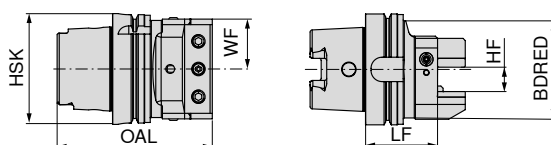
EUR
2D/80

388,50 02537
528,00 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 adapter 90°

- ▲ 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 ...

EUR
2D/80

388,50 02537
513,00 02535

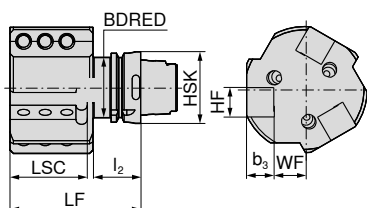
Adapter	LF mm	BDRED mm	WF mm	OAL mm	HF mm
HSK-T 63	60	52,6	45	117	20 / 25 / 32
HSK-T 100	65	87,6	45	140	20 / 25 / 32

Spare parts HSK-T square shank holders with DirectCooling

Spare parts		83 950 ...		62 950 ...	
Adapter		EUR		EUR	
HSK-T 63	M5x5 - SW2,5	2,39	157	1,13	51100
HSK-T 100	M5x5 - SW2,5	2,39	157	1,13	51100

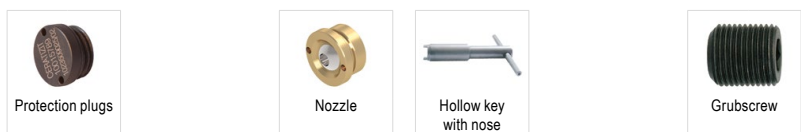


HSK-T square shank adapter 3-face 0°

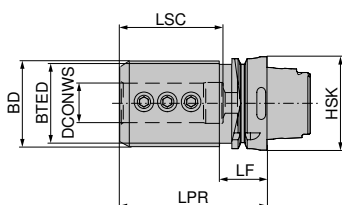


ISO designation	Adapter	LF	l ₂	BDRED	WF	LSC	b ₃	HF	74 576 ...	
		mm	mm	mm	mm	mm	mm	mm	EUR	
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	696,20	525
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	987,00	725

Spare parts		70 950 ...		70 950 ...		70 950 ...		70 950 ...	
Adapter		EUR		EUR		EUR		EUR	
HSK-T 63	UNJF 7/16"-20	26,06	05600	37,46	05500	57,91	05700	2,09	851
HSK-T 100	UNJF 7/16"-20	26,06	05600	37,46	05500	57,91	05700	2,09	851

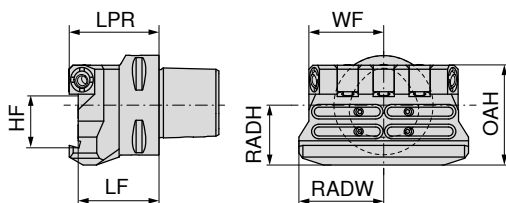


HSK-T Boring bar holder



ISO designation	Adapter	LPR	DCONWS	BD	LSC	LF	BTED	74 577 ...	
		mm	mm	mm	mm	mm	mm	EUR	
HSK T63 BH08 80	HSK-T 63	80	8	32	41			296,70	508
HSK T63 BH10 80	HSK-T 63	80	10	40	41			296,70	510
HSK T63 BH12 80	HSK-T 63	80	12	40	41			296,70	512
HSK T63 BH16 80	HSK-T 63	80	16	40	51			296,70	516
HSK T63 BH20 80	HSK-T 63	80	20	50	51			296,70	520
HSK T63 BH25 90	HSK-T 63	90	25	53	61			296,70	525
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53	296,70	532
HSK T100 BH20 90	HSK-T 100	90	20	55	56			378,00	720
HSK T100 BH25 95	HSK-T 100	95	25	55	61			378,00	725
HSK T100 BH32 110	HSK-T 100	110	32	68	61			378,00	732
HSK T100 BH40 120	HSK-T 100	120	40	83	81			378,00	740
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88	378,00	750

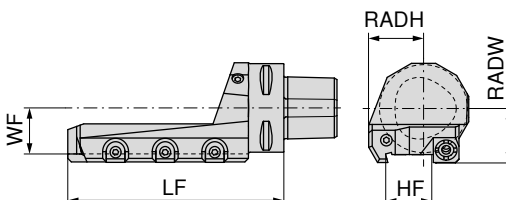
MonoClamp – PSC parting blade holder GX/LX/FX/SX with DirectCooling



84 617 ...

Adapter	LF mm	LPR mm	WF mm	HF mm	OAH mm	RADW mm	RADH mm	for parting blades	EUR Y8	
PSC 40	40,5	45	37,5	26	50	42,5	30	XLCF N 26...	673,60	62695
PSC 50	40,5	45	37,5	26	50	42,5	30	XLCF N 26...	673,60	62694
PSC 63	45,5	50	40,0	32	57	45,0	35	XLCF N 32...	755,10	63293

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



Diagrams show right hand versions



Left-hand



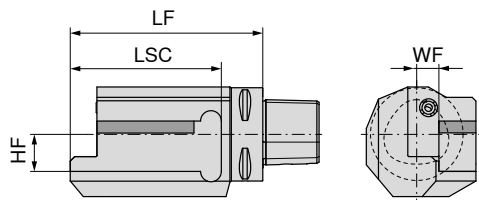
Right-hand

Adapter	LF mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades	EUR Y8		EUR Y8	
PSC 40	122	21	26	25,5	31	XLCF N 26...	673,60	32695	673,60	22695
PSC 50	122	26	26	30,5	31	XLCF N 26...	673,60	32694	673,60	22694
PSC 63	160	32	32	36,5	37	XLCF N 32...	755,10	33293	755,10	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

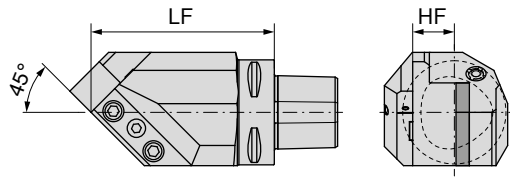


Right-hand

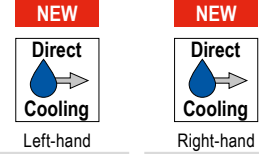
Adapter	LF mm	WF mm	LSC mm	HF mm	EUR Y8		EUR Y8	
PSC 63	130	15	102	20 / 25	505,70	32593	505,70	22593
PSC 80	130	20	102	25	564,10	32586	564,10	22586

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

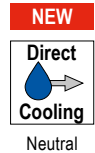
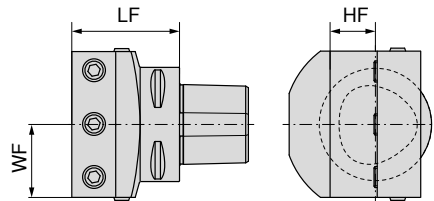


Adapter	LF mm	HF mm
PSC 50	85	20
PSC 63	110	20 / 25

84 616 ...		84 616 ...	
EUR		EUR	
Y8	531,40	Y8	531,40
	12094		02094
	671,00		671,00
	12593		02593

PSC square shank holder 90° with DirectCooling

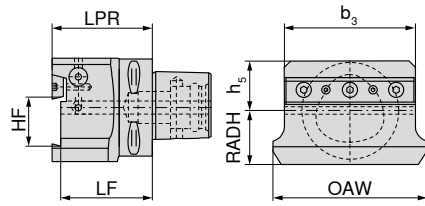
- ▲ Suitable for tool holders with PSC 40 – HF = 20 mm / PSC 63 HF = 20 / 25 mm
- ▲ These HF values can be achieved by removing the clamping block



84 616 ...	
EUR	
Y8	486,90
	62095
	505,70
	62593

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

Radial parting blade holder, right / left



Neutral

84 132 ...

EUR

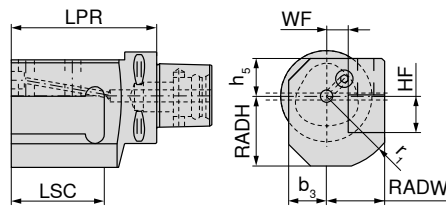
Y8

328,50 626

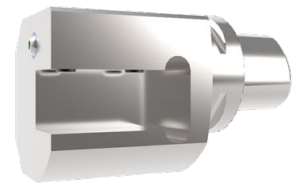
328,50 632

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

Square section adapter, single face



Illustrations show right-hand versions



Left-hand

Right-hand

84 611 ...

84 610 ...

EUR

Y8

267,80 520

267,80 525

267,80 532

308,20 620

308,20 625

308,20 632

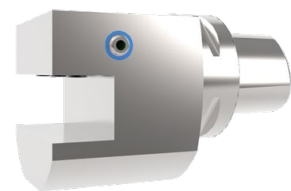
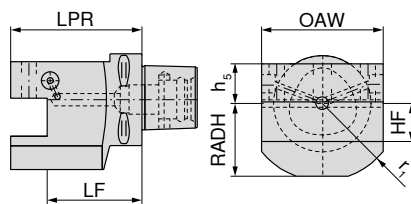
370,40 820

370,40 825

370,40 832

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

Radial square section tool holders 90°



Neutral

84 602 ...

EUR

Y8

267,80 520

277,30 525

297,40 532

308,20 620

328,50 625

350,20 632

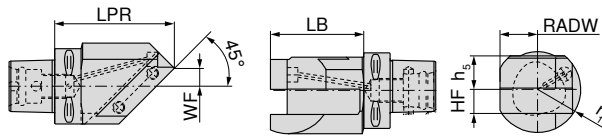
328,50 820

350,20 825

370,40 832

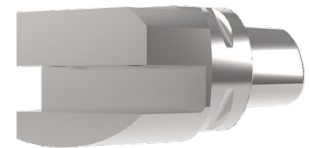
Adapter	HF mm	LPR mm	OAW mm	r ₁ mm	RADH mm	h ₅ mm	LF mm
PSC 50	20	70	70	45	43	26	50
PSC 50	25	80	80	51	48	26	55
PSC 50	32	90	90	61	55	26	58
PSC 63	20	80	70	45	43	26	60
PSC 63	25	90	80	51	48	26	65
PSC 63	32	100	90	61	55	26	68
PSC 80	20	80	70	45	43	26	60
PSC 80	25	90	80	51	48	26	65
PSC 80	32	100	90	61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

Square section adapter 45°



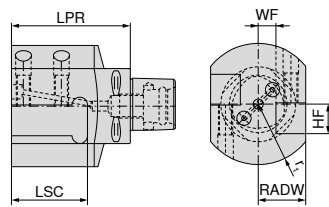
Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r _i 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



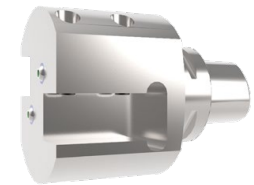
Left-hand		Right-hand	
84 605 ...		84 604 ...	
EUR		EUR	
Y8		Y8	
267,80	520	267,80	520
319,10	620	319,10	620
359,80	832	359,80	832

Square section adapter, double face



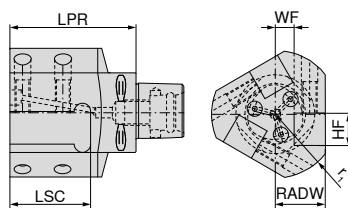
Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r _i 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



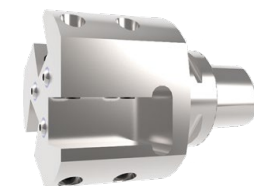
Left-hand		Right-hand	
84 613 ...		84 612 ...	
EUR		EUR	
Y8		Y8	
452,90	520	452,90	520
463,60	525	463,60	525
473,20	532	473,20	532
473,20	620	473,20	620
484,00	625	484,00	625
493,40	632	493,40	632
566,50	820	566,50	820
575,90	825	575,90	825
588,20	832	588,20	832

Square section adapter, triple face



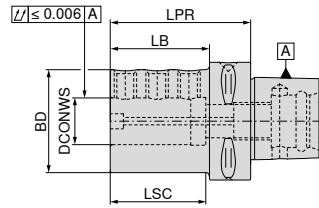
Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r _i 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 ...	
EUR		EUR	
Y8		Y8	
607,00	520	607,00	520
617,90	525	617,90	525
638,30	532	638,30	532
711,10	620	711,10	620
742,10	625	742,10	625
762,40	632	762,40	632
854,40	820	854,40	820
876,10	825	876,10	825
896,40	832	896,40	832

Boring bar holder



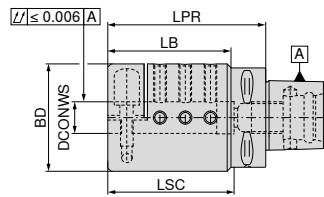
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 130 ...	
						EUR	Y8
PSC 50	6	70	40	50	40	236,60	506
PSC 50	8	70	44	50	40	236,60	508
PSC 50	10	70	44	50	45	236,60	510
PSC 50	12	70	44	50	45	236,60	512
PSC 50	16	75	44	55	45	236,60	516
PSC 50	20	75	50	75	51	236,60	520
PSC 50	25	80	55	50	51	236,60	525
PSC 50	32	90	63	70	60	236,60	532
PSC 63	6	75	40	53	40	236,60	606
PSC 63	8	75	44	53	40	236,60	608
PSC 63	10	75	44	53	45	236,60	610
PSC 63	12	75	44	53	45	236,60	612
PSC 63	16	75	44	53	45	236,60	616
PSC 63	20	75	50	53	51	236,60	620
PSC 63	25	75	55	53	51	236,60	625
PSC 63	32	75	72	52	60	236,60	632
PSC 63	40	105	70	82	90	236,60	640



Spare parts		84 950 ...	
DCONWS		EUR	Y8
6	M6x16	4,96	153
8	M8x16	4,96	154
10	M10x16	4,96	155
12 - 40	M12x14	4,96	156

Boring bar adapter, split version

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



Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	
PSC 63	6	80	40	58	60	
PSC 63	8	85	45	63	65	
PSC 63	10	85	50	63	65	
PSC 63	12	100	63	78	80	
PSC 63	16	100	63	78	80	
PSC 63	20	100	68	78	80	
PSC 63	25	100	68	78	80	
PSC 63	32	100	72	78	80	

84 131 ...

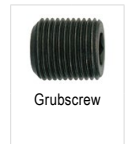
EUR	
Y8	
288,00	606
288,00	608
288,00	610
288,00	612
288,00	616
288,00	620
288,00	625
288,00	632

Spare parts

DCONWS			83 950 ...	84 950 ...
8			EUR Y8	EUR Y8
10	M6x20	2,66	462	
12 - 20	M8x20	2,66	468	M6x16
25	M8x25	2,66	467	
32	M10x20	2,66	471	



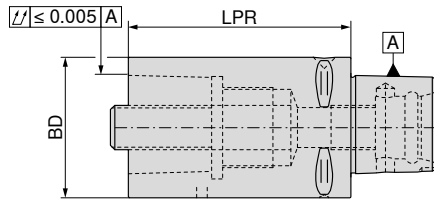
Grubscrew



Grubscrew

Extension, axial clamping

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



Adapter	BD mm	LPR mm	84 620 ...	
			EUR	
			Y8	
PSC 32	32	60	194,70	301
PSC 32	32	80	194,70	302
PSC 40	40	60	205,50	401
PSC 40	40	80	205,50	402
PSC 50	50	80	214,90	501
PSC 50	50	100	214,90	502
PSC 63	63	100	225,80	601
PSC 63	63	140	225,80	602
PSC 80	80	100	236,60	801
PSC 80	80	125	236,60	802

Spare parts

Adapter	84 950 ...		84 950 ...	
	EUR	Y8	EUR	Y8
PSC 32	33,13	127	23,93	122
PSC 40	33,13	128	27,05	123
PSC 50	33,13	129	27,05	124
PSC 63	66,12	130	30,28	126
PSC 80	66,12	130	30,28	126



Accessories

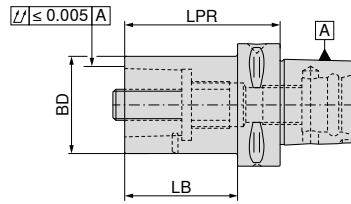


Hollow nose keys

→ 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	60	40
PSC 50	40	65	45
PSC 63	32	70	48
PSC 63	40	80	58
PSC 63	50	80	58
PSC 80	32	60	30
PSC 80	40	70	40
PSC 80	50	80	50
PSC 80	63	80	50
PSC 80X	63	80	48
PSC 80X	80	100	68

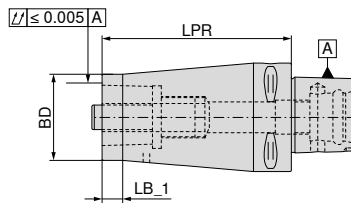
84 624 ...

EUR	
Y8	
185,30	403
205,50	503
205,50	504
214,90	603
214,90	604
214,90	605
225,80	803
225,80	804
225,80	805
225,80	806
297,40	816 ¹⁾
297,40	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 ...

EUR	
Y8	
185,30	403
205,50	504
214,90	605
236,60	806
297,40	818 ¹⁾

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



84 950 ...

EUR	
Y8	
33,13	128
33,13	129
66,12	130
66,12	130
66,12	130

84 950 ...

EUR	
Y8	
27,05	123
27,05	124
30,28	126
30,28	126
30,28	126

Spare parts

Adapter

PSC 40
PSC 50
PSC 63
PSC 80
PSC 80X

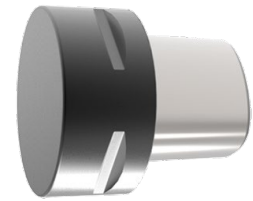
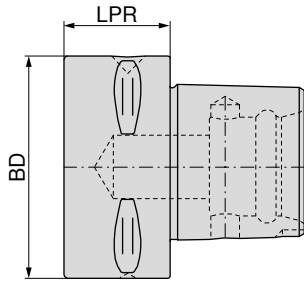
Accessories



Hollow nose keys

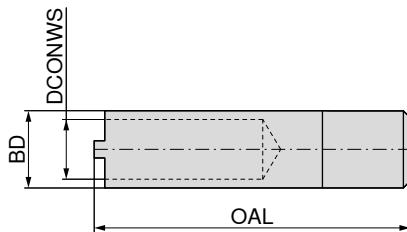
→ 204

Sealing plugs



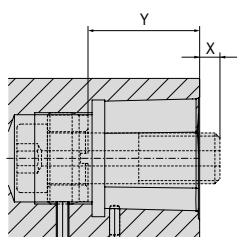
Adapter	BD mm	LPR mm	84 135 ...	
			EUR	
			Y8	
PSC 40	40	28	103,10	040
PSC 50	50	28	103,10	050
PSC 63	63	30	121,80	060
PSC 80	80	38	132,20	080

Hollow nose key for clamping screw for PSC extensions and reductions



Adapter	BD mm	OAL mm	DCONWS mm	84 651 ...	
				EUR	
				Y8	
PSC 32	16	80	12,5	55,71	032
PSC 40	20	80	15,0	58,81	040
PSC 50	22	90	17,0	58,81	050
PSC 63/80/80X	34	110	21,0	64,89	063

Installation instructions: clamping screw for PSC extensions and reductions



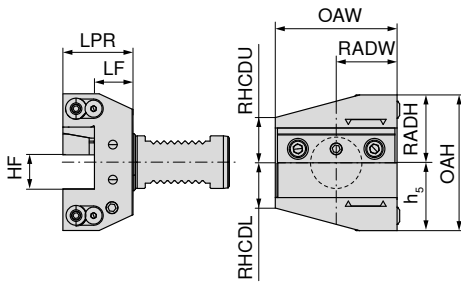
X = Screw leading edge
Y = Threaded ring insertion depth

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



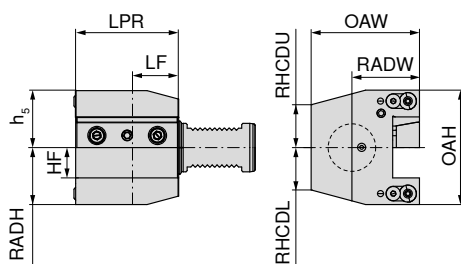
double

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	EUR	
VDI 20	16	16	30	55	30	30,0	30	60	22	22	252,80	01629
VDI 20	16	26	40	55	30	30,0	30	60	22	22	252,80	51629
VDI 25	16	16	30	55	30	30,0	30	60	22	22	252,80	01628
VDI 30	20	22	40	70	39	35,0	39	78	26	26	252,80	02027
VDI 40	25	22	44	85	47	42,5	47	94	33	33	298,30	02526
VDI 50	25	22	44	98	55	50,0	55	110	42	42	371,60	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

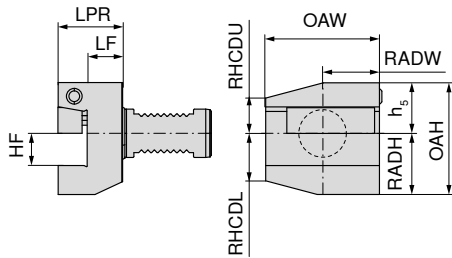
82 246 ...

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	EUR	
VDI 30	20	30	70	74	39	39,0	39	78	26	26	290,80	02027
VDI 40	25	30	85	94	47	52,5	47	94	35	35	346,40	02526
VDI 50	25	30	85	105	50	63,0	50	100	42	42	442,40	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



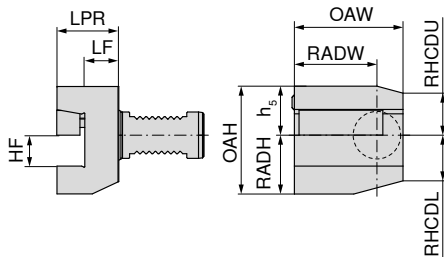
double

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	EUR Y8	194,60 02027
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30	230,10	02526
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	43,0	30	285,60	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

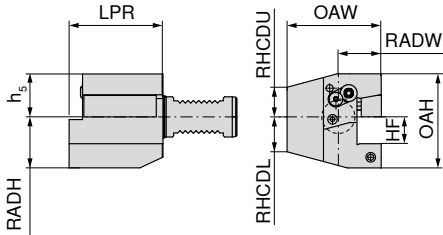
82 247 ...

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	EUR Y8	194,60 12027
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30	230,10	12526
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	35,0	38	285,60	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

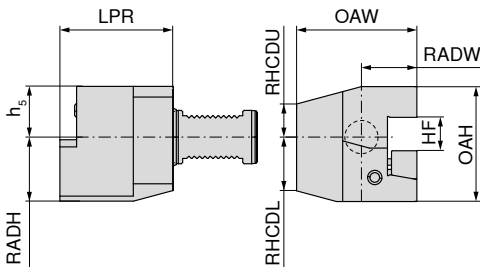
82 248 ...

EUR
Y8
222,50 02027

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

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 ...

EUR
Y8
222,50 12027

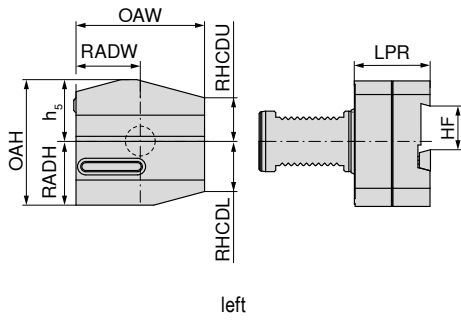
Adapter	HF _{0/-0,1} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	70	76	38	41,0	32	70	26	26
VDI 40	25	85	90	48	47,5	38	86	35	30
VDI 50	25	85	95	48	52,5	44	92	42	37

338,80 12525

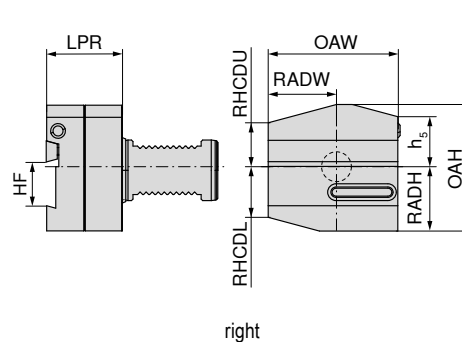
You can find spare parts on → Page 264+265

Parting blade holder for parting blades with DirectCooling

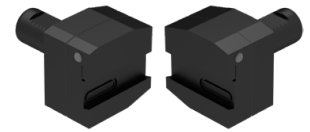
- ▲ Double tooth profile for normal and overhead applications
- ▲ for parting blades with DirectCooling
- ▲ can be used up to 100 bar



left



right



NEW




NEW



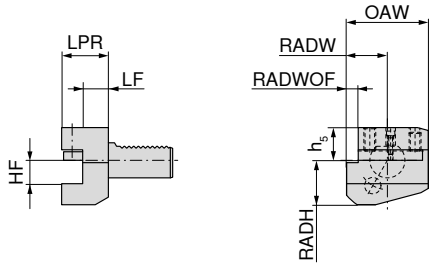
Left-hand

Right-hand

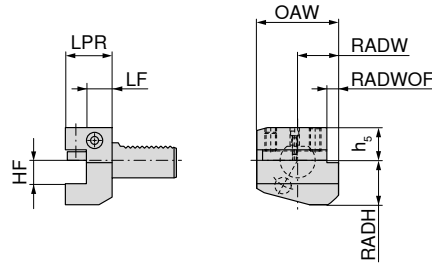
Adapter	HF mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm	82 249 ...	82 249 ...
VDI 30	26	50	70	37	35,0	32	69	30	25	EUR Y8 488,00	12627 488,00 02627
VDI 40	32	50	85	40	42,5	43	83	31	31	548,60	13226 548,60 03226
VDI 40	26	50	85	40	42,5	43	83	31	31	548,60	12626 548,60 02626
VDI 50	32	50	100	45	50,0	43	88	37	35	654,70	13225 654,70 03225

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

Radial tool holders, short



B2



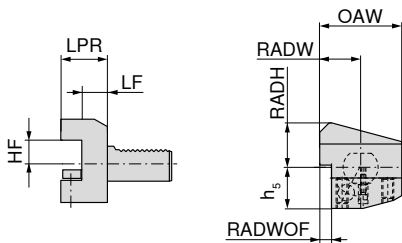
B1



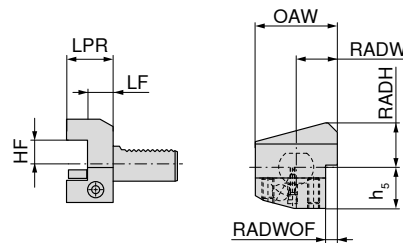
Adapter	HF _{0±0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0±0,5} mm	LPR mm	Left-hand		Right-hand	
									82 189 ...	EUR Y8	82 185 ...	EUR Y8
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	183,90	160	132,80	160
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	148,80	201	146,10	201
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	142,00	200	151,30	200
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30	409,70	202 ¹⁾	458,30	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	25,5	40			406,90	203 ¹⁾
VDI 30	20	70	35,0	10,0	28,0	38	18,5	40	152,80	300	137,80	300
VDI 30	20	70	35,0	10,0	28,0	38	42,0	60	192,00	301	181,30	301
VDI 30	20	70	35,0	10,0	28,0	35	32,0	50			853,20	302 ¹⁾
VDI 40	25	85	42,5	12,5	32,5	48	18,5	44	155,50	400	142,00	400
VDI 50	32	100	50,0	16,0	35,0	60	30,0	55	239,30	500	236,60	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3

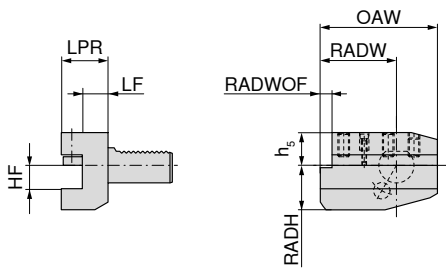


Adapter	HF _{0±0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0±0,5} mm	LPR mm	Left-hand		Right-hand	
									82 196 ...	EUR Y8	82 193 ...	EUR Y8
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24			140,70	160
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	251,50	201	174,50	201
VDI 20	16	55	30,0	7,0	25,0	30	18,5	30	498,80	202 ¹⁾	497,60	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	690,80	203 ¹⁾	443,40	203 ¹⁾
VDI 30	20	70	35,0	10,0	35,0	38	18,5	40	155,50	300	143,20	300
VDI 40	25	85	42,5	12,5	42,5	48	18,5	44	158,20	400	144,70	400
VDI 50	32	100	50,0	16,0	50,0	60	30,0	55	239,30	500	239,30	500

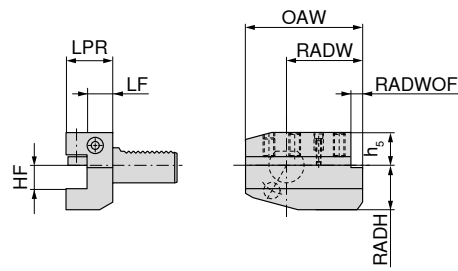
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 266

Radial tool holders, long



B6



B5

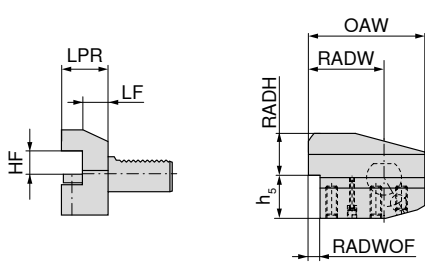


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	28,0	38	18,5	40
VDI 40	25	118	75,5	12,5	32,5	48	18,5	44
VDI 50	32	130	80,0	16,0	35,0	60	30,0	55

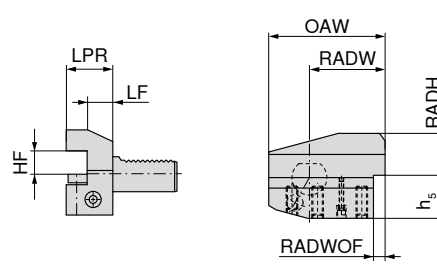
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 202 ...		82 199 ...	
EUR		EUR	
Y8		Y8	
185,30	201	196,10	201
		493,40	202 ¹⁾
178,50	300	173,00	300
175,70	400	179,80	400
270,40	500	278,50	500

Radial tool holders, overhead, long



B8



B7



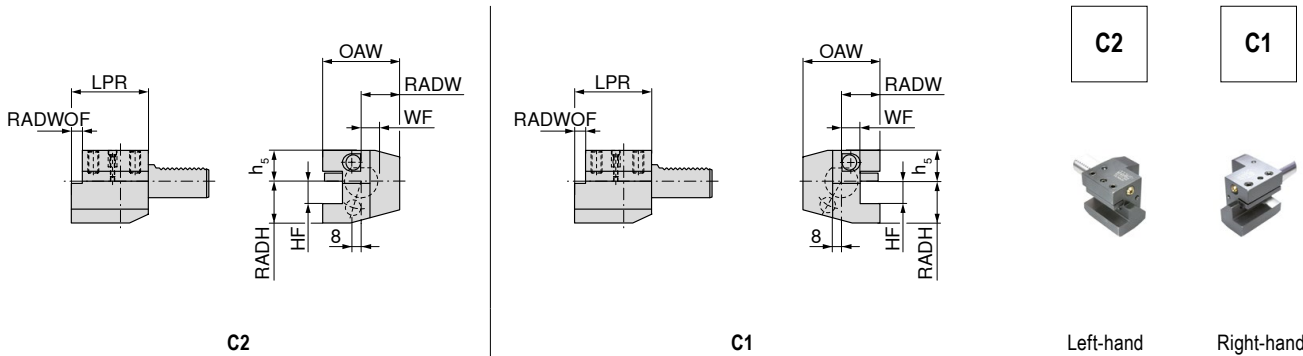
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	35,0	38	42,0	60
VDI 30	20	100	65,0	10,0	35,0	38	18,5	40
VDI 40	25	118	75,5	12,5	42,5	48	18,5	44
VDI 50	32	130	80,0	16,0	50,0	60	30,0	55

1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 208 ...		82 205 ...	
EUR		EUR	
Y8		Y8	
204,30	200	170,40	200
		493,40	202 ¹⁾
158,20	300	209,70	301
		178,50	300
178,50	400	179,80	400
250,10	500	283,90	500

You can find spare parts on → Page 266

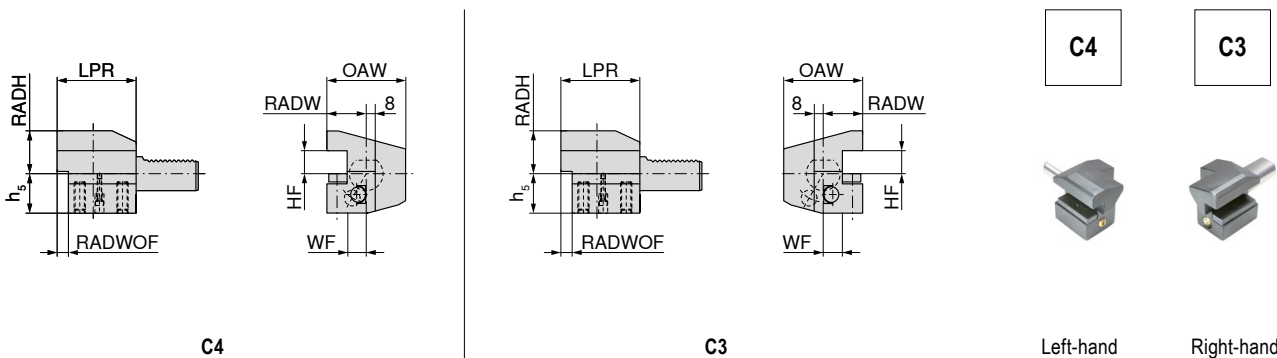
Axial tool holders



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	
								EUR	Y8	EUR	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				
VDI 20	16	65	40,0	26,0	25,0	30	50	174,50	200	178,50	201
VDI 30	20	76	41,0	23,0	28,0	38	70	171,70	300		
VDI 30	20	70	35,0	17,0	28,0	38	70			160,90	300
VDI 40	25	85	42,5	20,5	32,5	48	85			183,90	400
VDI 40	25	90	47,5	25,5	32,5	48	85	189,30	400		
VDI 50	32	105	55,0	30,5	35,0	60	100	289,30	500		
VDI 50	32	100	50,0	25,5	35,0	60	100			273,10	500

1) Height adjustable +/- 1 mm

Axial tool holders, overhead

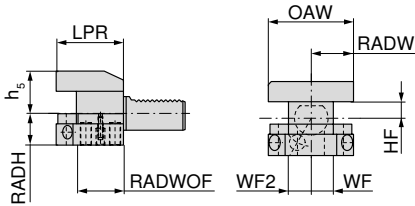


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								EUR	Y8	EUR	Y8
VDI 16	12	43	24,0	13,0	20,0	22	44				
VDI 20	16	65	40,0	25,5	30,0	25	50				
VDI 20	16	65	40,0	26,0	25,0	30	50	185,30	200	197,40	201
VDI 20	16	65	40,0	25,5	25,0	30	50	601,70	201		
VDI 30	20	70	35,0	17,0	35,0	38	70			164,90	300
VDI 30	20	76	41,0	23,0	35,0	38	70	171,70	300		
VDI 40	25	85	42,5	20,5	42,5	48	85			189,30	400
VDI 40	25	90	47,5	25,5	42,5	48	85	189,30	400		
VDI 50	32	100	50,0	25,5	50,0	60	100			277,30	500
VDI 50	32	105	55,0	30,5	50,0	60	100	236,60	500		

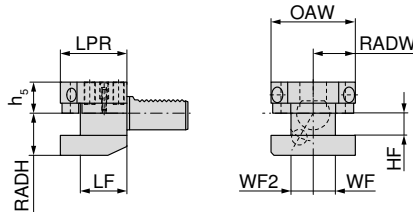
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 266

Multiple tool holders



D2



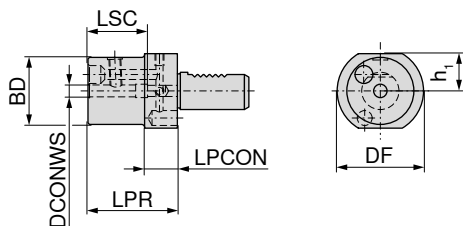
D1



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 ...	
										EUR	Y8	EUR	Y8
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60	381,30	300	381,30	300
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60	381,30	300		
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72			401,40	400
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72	401,40	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



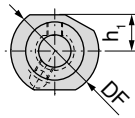
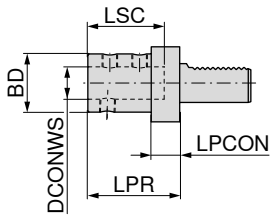
Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	83 269 ...	
								EUR	Y8
VDI 20	6	50	45	23,0	60	22	40	175,70	206
VDI 20	8	50	45	23,0	60	22	40	169,00	208
VDI 20	10	50	45	23,0	60	22	44	169,00	210
VDI 20	12	50	45	23,0	60	22	49	169,00	212
VDI 20	14	50	45	23,0	62	22	49	169,00	214
VDI 20	16	50	45	23,0	67	22	52	163,60	216
VDI 20	18	50	45	23,0	67	22	52	163,60	218
VDI 20	20	50	45	23,0	67	22	52	163,60	220
VDI 30	6	68	52	28,0	67	22	35	183,90	306
VDI 30	8	68	52	28,0	67	22	35	174,50	308
VDI 30	10	68	52	28,0	67	22	39	174,50	310
VDI 30	12	68	52	28,0	67	22	44	174,50	312
VDI 30	14	68	52	28,0	67	22	44	174,50	314
VDI 30	16	68	52	28,0	67	22	47	169,00	316
VDI 30	18	68	52	28,0	67	22	47	174,50	318
VDI 30	20	68	52	28,0	67	22	52	169,00	320
VDI 40	6	83	52	32,5	67	22	35	204,30	406
VDI 40	8	83	52	32,5	67	22	35	197,40	408
VDI 40	10	83	52	32,5	67	22	39	197,40	410
VDI 40	12	83	52	32,5	67	22	44	197,40	412
VDI 40	14	83	52	32,5	67	22	44	197,40	414
VDI 40	16	83	52	32,5	67	22	47	190,60	416
VDI 40	18	83	52	32,5	67	22	47	190,60	418
VDI 40	20	83	52	32,5	67	22	52	190,60	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		
VDI 20	20	50	40	23,0	67	18	54		
VDI 20	25	50	45	23,0	71	18	59		
VDI 30	16	68	36	28,0	67	22	54		
VDI 30	20	68	40	28,0	67	22	54		
VDI 30	25	68	45	28,0	71	22	59		
VDI 30	32	68	52	28,0	75	22	63		
VDI 30	40	68	60	28,0	87	22	73		
VDI 40	16	83	36	32,5	67	22	54		
VDI 40	20	83	40	32,5	67	22	54		
VDI 40	25	83	45	32,5	75	22	59		
VDI 40	32	83	52	32,5	75	22	63		
VDI 40	40	83	60	32,5	90	22	73		
VDI 50	20	98	40	35,0	80	30	54		
VDI 50	25	98	45	35,0	80	30	59		
VDI 50	32	98	52	35,0	80	30	63		
VDI 50	40	98	60	35,0	90	30	73		
VDI 50	50	98	70	35,0	100	30	83		

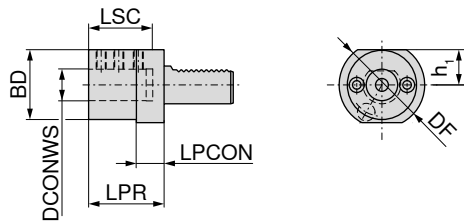
EUR	
Y8	
134,40	200
134,40	201
134,40	202
124,60	300
124,60	301
124,60	302
124,60	303
134,00	304
142,00	400
142,00	401
142,00	402
142,00	403
142,00	404
194,90	500
198,70	501
198,70	502
198,70	503
146,10	504



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 ...

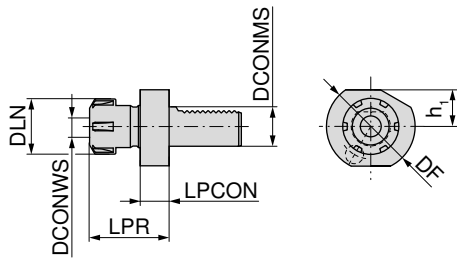
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	EUR Y8	
VDI 16	6	40	32	18,0	44	13	34	162,40	160 ¹⁾
VDI 16	8	40	32	18,0	44	13	34	137,80	161 ¹⁾
VDI 16	10	40	32	18,0	44	13	34	137,80	162 ¹⁾
VDI 16	12	40	40	18,0	44	13	34	137,80	163 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	137,80	164 ¹⁾
VDI 20	8	50	40	23,0	50	18	41	144,70	200
VDI 20	10	50	40	23,0	50	18	41	144,70	201
VDI 20	12	50	40	23,0	50	18	41	144,70	202
VDI 20	16	50	40	23,0	50	18	41	144,70	203
VDI 20	20	50	50	23,0	50	18	41	144,70	204
VDI 20	25	50	50	23,0	60	18	51	144,70	205
VDI 30	8	68	55	28,0	60	22	51	142,00	300
VDI 30	10	68	55	28,0	60	22	51	142,00	301
VDI 30	12	68	55	28,0	60	22	51	142,00	302
VDI 30	16	68	55	28,0	60	22	51	142,00	303
VDI 30	20	68	55	28,0	60	22	51	142,00	304
VDI 30	25	68	55	28,0	60	22	51	142,00	305
VDI 30	32	68	68	28,0	75	22	61	142,00	306
VDI 40	8	83	55	32,5	75	22	61	144,70	400
VDI 40	10	83	55	32,5	75	22	61	144,70	401
VDI 40	12	83	55	32,5	75	22	61	144,70	402
VDI 40	16	83	55	32,5	75	22	61	144,70	403
VDI 40	20	83	55	32,5	75	22	61	144,70	404
VDI 40	25	83	55	32,5	75	22	61	144,70	405
VDI 40	32	83	83	32,5	75	22	61	144,70	406
VDI 40	40	83	83	32,5	90	22	76	144,70	407
VDI 50	12	98	68	35,0	90	30	76	206,80	500
VDI 50	16	98	68	35,0	90	30	76	206,80	501
VDI 50	20	98	68	35,0	90	30	76	206,80	502
VDI 50	25	98	68	35,0	90	30	76	197,40	503
VDI 50	32	98	68	35,0	90	30	76	197,40	504
VDI 50	40	98	98	35,0	90	30	76	197,40	505
VDI 50	50	98	98	35,0	100	30	86	197,40	506

1) Coolant supply through pipe joint

You can find spare parts on → Page 266

ER Collet chucks

E4



82 286 ...

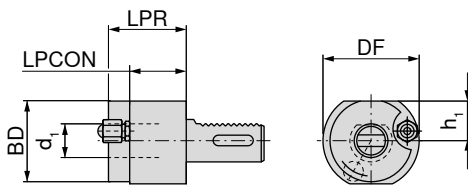
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	EUR	Y8
VDI 16	1 - 10	40	28	18,0	43,5	14	426E (ER16)	194,70	160
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	192,00	161
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	196,10	202
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	201,40	203
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)	174,50	300
VDI 30	2 - 20	68	50	28,0	75,0	22	470E (ER32)	178,50	301
VDI 40	1 - 16	83	42	32,5	75,0	22	430E (ER25)	197,40	400
VDI 40	2 - 20	83	50	32,5	75,0	22	470E (ER32)	197,40	401
VDI 40	3 - 26	83	63	32,5	75,0	22	472E (ER40)	204,30	402
VDI 50	2 - 20	94	50	35,0	75,0	30	470E (ER32)	300,20	500
VDI 50	3 - 26	94	63	35,0	63,0	30	472E (ER40)	300,20	501

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

Morse taper adapters

▲ For taper shanks with ejector tang

F1

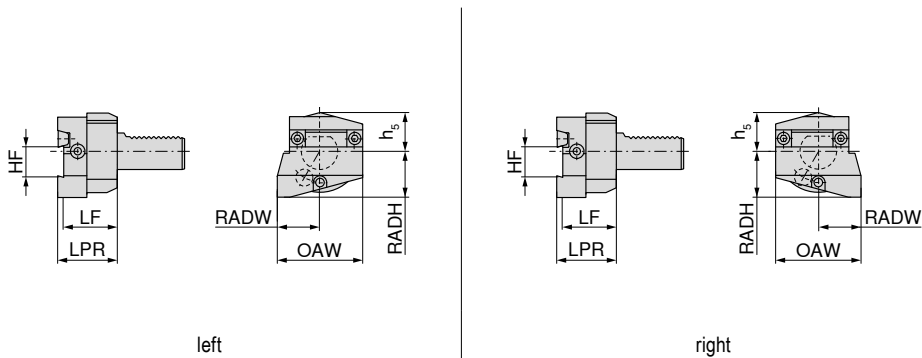


82 277 ...

Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	EUR	Y8
VDI 20	MK1		50	23,0	23		136,60	200
VDI 20	MK2		50	23,0	87		136,60	201
VDI 30	MK1		68	28,0	27		123,20	300
VDI 30	MK2		68	28,0	27		131,70	301
VDI 30	MK3	58	68	28,0	55	40	131,70	302
VDI 40	MK2	55	83	32,5	36	22	144,70	401
VDI 40	MK3	58	83	32,5	36	22	144,70	402
VDI 40	MK4	68	83	32,5	80	22	144,70	403
VDI 50	MK2	55	98	35,0	36	30	220,30	500
VDI 50	MK3	58	98	35,0	36	30	220,30	501
VDI 50	MK4	68	98	35,0	50	30	220,30	502

Parting blade holders, height adjustable

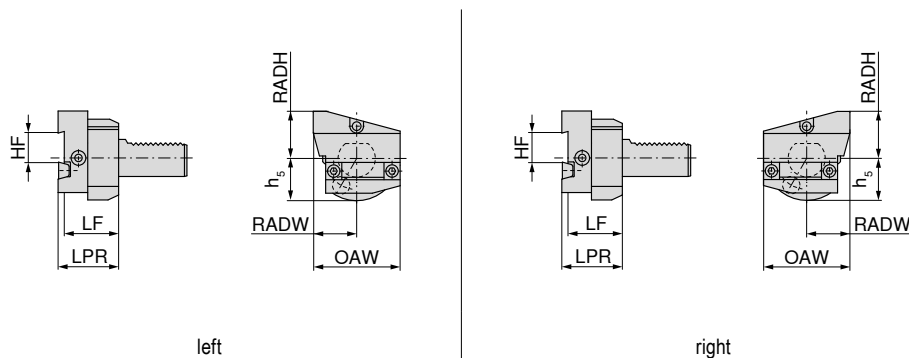
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



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	EUR Y8		EUR Y8	
VDI 30	70	35,0	32	30,5	38	44	49	415,10	300	415,10	300
								488,20	302	488,20	302
VDI 40	73	42,5	26	32,0	48	44	49	505,70	040	505,70	040
VDI 40	85	42,5	32	32,0	48	44	49	419,20	400	419,20	400

Parting blade holders, height adjustable, overhead

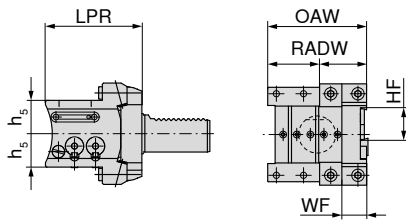
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



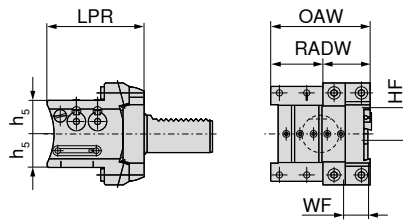
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 243 ...	82 242 ...		
VDI 30	70	35,0	26	34,0	38	44	49	EUR Y8		EUR Y8	
VDI 30	70	35,0	32	30,5	38	44	49	555,60	300	555,60	300
								488,20	302	488,20	302
VDI 40	73	42,5	26	32,0	48	44	49	505,70	040	505,70	040
VDI 40	85	42,5	32	32,0	48	44	49	419,20	400	419,20	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



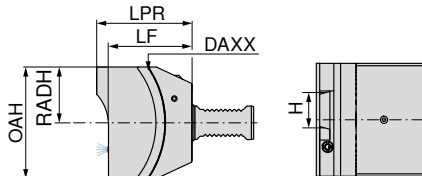
Universal-overhead Universal

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

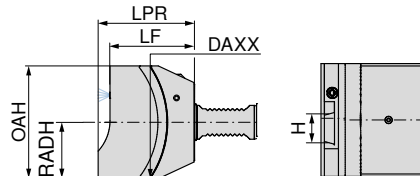
82 244 ...		82 238 ...	
EUR		EUR	
Y8		Y8	
777,30	300	777,30	300
862,60	400	862,60	400
862,60	402	862,60	402

Parting blade holder

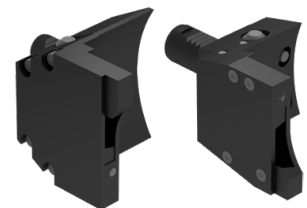
- ▲ doubles = reciprocally interlocked VDI shank



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 ...	
EUR		EUR	
Y7		Y7	
617,70	02629 ¹⁾	617,70	02629 ¹⁾
661,30	03227 ¹⁾	661,30	03227 ¹⁾
661,30	02627 ¹⁾	661,30	02627 ¹⁾
712,70	03226 ¹⁾	712,70	03226 ¹⁾
712,70	02626 ¹⁾	712,70	02626 ¹⁾

1) Not ex-stock

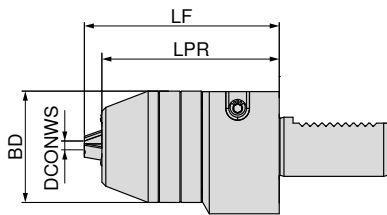
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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



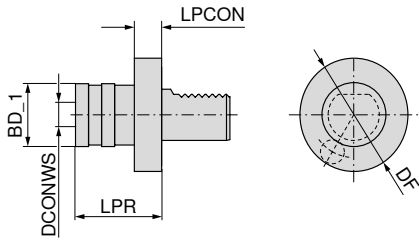
Adapter	DCONWS mm	BD mm	LPR mm	LF mm		
VDI 20	0,5 - 10	48,5	40	50		
VDI 30	0,5 - 13	56,5	90	99		
VDI 30	2,5 - 16	56,5	90	99		
VDI 40	0,5 - 13	56,5	90	99		
VDI 40	2,5 - 16	56,5	90	99		

84 297 ...	
EUR	
Y8	
389,40	210 ¹⁾
389,40	313
416,40	316
397,60	413
423,30	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 ...	
							EUR	
							Y8	
VDI 20	M3 - M12	01	19	38	55	9	432,30	112
VDI 30	M3 - M12	01	19	38	55	9	331,70	312
VDI 40	M3 - M12	01	19	38	55	9	371,30	412
VDI 20	M6 - M20	02	31	55	77	15	473,50	120
VDI 30	M6 - M20	02	31	55	77	15	439,00	320
VDI 40	M6 - M20	02	31	55	77	15	458,90	420

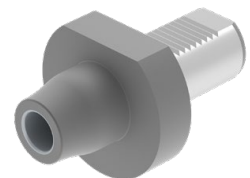
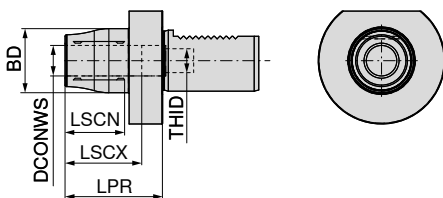
Quick change adapters can be found on → Page 288–292.

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 ...	
							EUR	
							Y8	
VDI 30	20	42	64	51	41	M16x1	533,60	02027
VDI 40	20	42	64	51	41	M16x1	557,40	02026



Stop screw IK

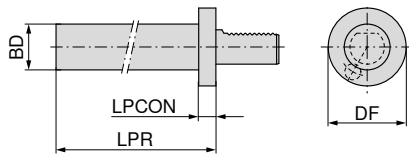
Spare parts
DCONWS

20

83 950 ...	
EUR	
Y7	
M16x1x31 - SW5	17,62 48700

Test arbors

▲ Radial run-out ≤ 0.02 mm



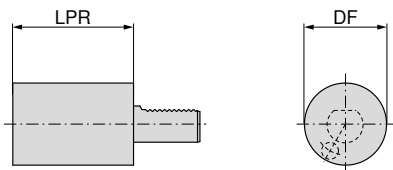
Adapter	BD _{H5} mm	DF mm	LPR mm	LPCON mm
VDI 16	30	40	120	15
VDI 20	40	50	150	15
VDI 30	40	68	200	15
VDI 40	40	83	200	15
VDI 50	40	98	200	15

83 324 ...

EUR	
Y8	
249,40	016
273,20	020
291,80	030
310,40	040
339,60	050

Tool holders, rough machined, round

▲ Manufactured from C45



A2



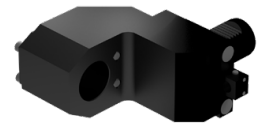
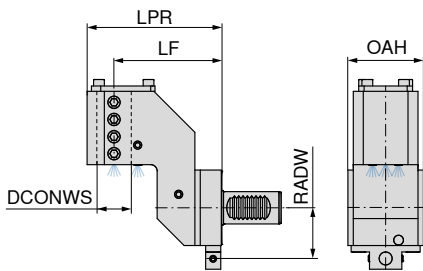
Adapter	LPR mm	DF mm
VDI 16	60	40
VDI 20	70	50
VDI 30	100	68
VDI 30	240	68
VDI 40	120	83
VDI 40	320	83
VDI 50	135	98
VDI 50	400	98

82 330 ...

EUR	
Y8	
96,27	160
77,57	200
88,58	300
105,40	303
101,40	400
152,50	403
149,90	500
242,80	502

Boring bar holder, with offset, with through coolant

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



IC

double

83 229 ...

EUR

Y7

749,40 02528¹⁾

743,40 03227¹⁾

804,70 04026¹⁾

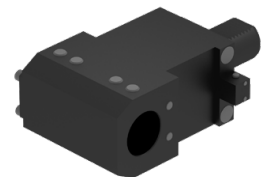
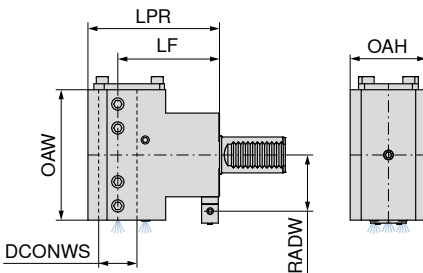
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	99,5	75	30	40
VDI 30	32	125,0	100	70	47
VDI 40	40	133,0	100	85	56

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 ...

EUR

Y7

701,80 02528¹⁾

625,00 03227¹⁾

743,40 13227¹⁾

872,30 04026¹⁾

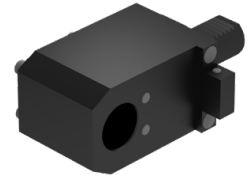
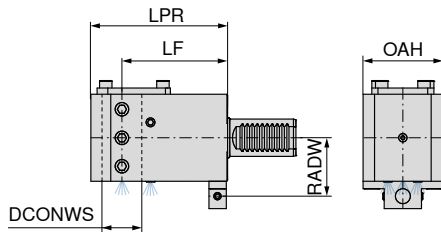
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	OAW mm
VDI 25	25	99,5	75	54	40	104
VDI 30	32	110,0	85	62	47	109
VDI 30	32	125,0	100	62	47	118
VDI 40	40	152,0	120	76	56	116

1) Not ex-stock

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

Boring bar holder with through coolant

▲ external coolant supply available



IC

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	100	75	60	40
VDI 30	32	110	85	64	47
VDI 30	32	125	100	64	47
VDI 40	40	130	100	76	56
VDI 40	40	152	120	76	56
VDI 50	50	155	120	98	64

83 228 ...

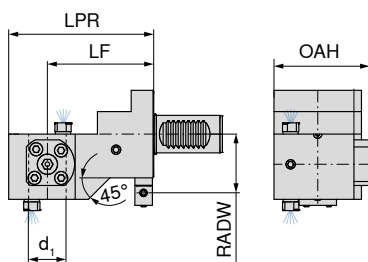
EUR	Y7
523,70	02528 ¹⁾
569,90	03227 ¹⁾
582,20	13227 ¹⁾
614,30	04026 ¹⁾
663,40	14026 ¹⁾
898,50	05025 ¹⁾

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

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	104	75	38.0	40
VDI 25	20	104	75	67.5	40
VDI 30	30	116	85	76.5	47
VDI 30	30	131	100	76.5	47
VDI 40	40	133	100	89.0	56
VDI 40	40	153	120	89.0	56

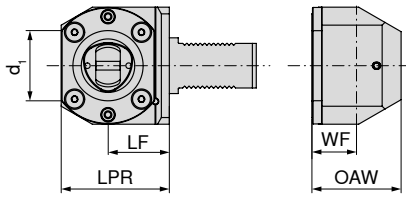
83 225 ...

EUR	Y7
586,10	02528 ¹⁾
586,10	02028 ¹⁾
564,90	03027 ¹⁾
641,80	13027 ¹⁾
839,10	04026 ¹⁾
700,50	14026 ¹⁾

1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:
including pull stud

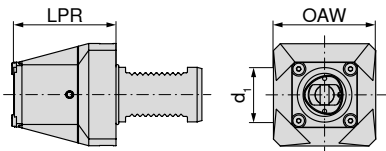


Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	90° 83 231 ... EUR Y7 761,50 04027 ¹⁾
VDI 30	PSC 40	41	65	21	56	761,50 04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	761,50 04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	795,70 05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	838,40 06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	795,70 05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	838,40 06325 ¹⁾

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud



Adapter	d ₁	LPR mm	OAW mm	83 232 ... EUR Y7 761,50 04027 ¹⁾
VDI 30	PSC 40	70	60	761,50 04027 ¹⁾
VDI 40	PSC 40	75	75	761,50 04026 ¹⁾
VDI 40	PSC 50	85	82	795,70 05026 ¹⁾
VDI 40	PSC 63	90	105	838,40 06326 ¹⁾
VDI 50	PSC 50	85	91	795,70 05025 ¹⁾
VDI 50	PSC 63	100	105	838,40 06325 ¹⁾

1) Not ex-stock

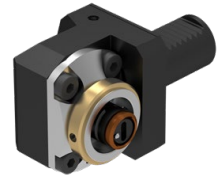
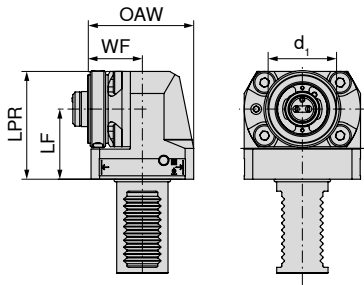
Accessories



Pull stud PSC

→ 176

90° VDI to HSK-T adapter



90°

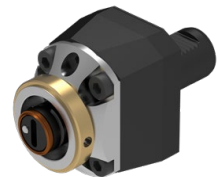
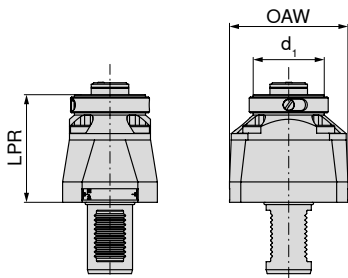
83 233 ...

EUR
Y7

Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm		
VDI 30	HSK-T 40	41	65	25	60		761,50 04027 ¹⁾
VDI 40	HSK-T 40	51	75	34	90		761,50 04026 ¹⁾
VDI 40	HSK-T 63	53	90	45	85		838,40 06326 ¹⁾
VDI 50	HSK-T 63	55	97	45	85		838,40 06325 ¹⁾

1) Not ex-stock

VDI to HSK-T adapter



83 234 ...

EUR
Y7

Adapter	d ₁	LPR mm	OAW mm		
VDI 30	HSK-T 40	74	60		761,50 04027 ¹⁾
VDI 40	HSK-T 40	79	75		761,50 04026 ¹⁾
VDI 40	HSK-T 63	95	105		838,40 06326 ¹⁾
VDI 50	HSK-T 63	105	105		838,40 06325 ¹⁾

1) Not ex-stock

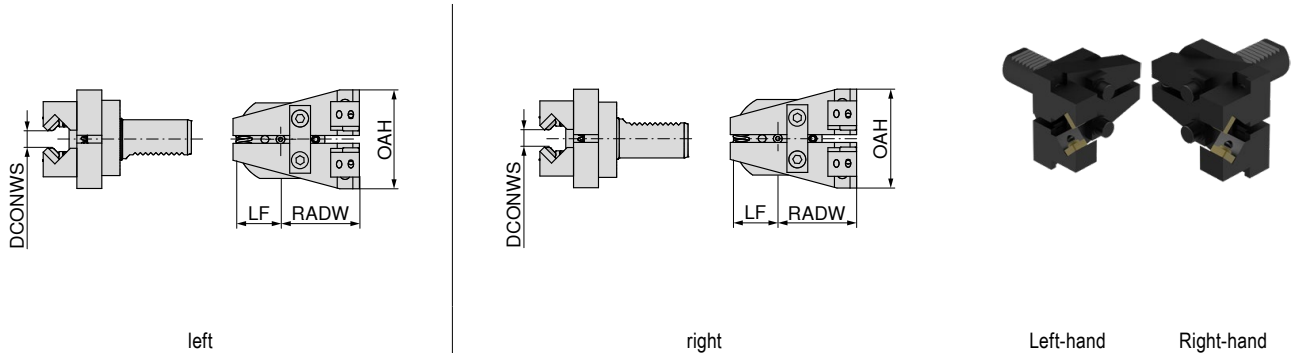
Bar pullers for disc turrets, radial

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

▲ GA = Gripper set

Scope of supply:

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



Adapter	DCONWS mm	LF mm	OAH mm	RADW mm	GA
VDI 16	2 - 22	28	74	35	1
VDI 20	2 - 42	34	85	61	3
VDI 30	2 - 42	34	105	61	3 - 4
VDI 40	2 - 65	34	125	61	3 - 4

Left-hand		Right-hand	
80 309 ...		80 306 ...	
EUR	Y7	EUR	Y7
		1.110,00	01600
		1.333,00	02000
1.333,00	03000	1.333,00	03000
1.839,00	04000	1.839,00	04000

Bar pullers for star turrets

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

▲ 90° angle head

▲ GA = Gripper set

Scope of supply:

Bar puller with GA 3

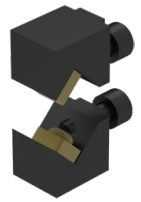
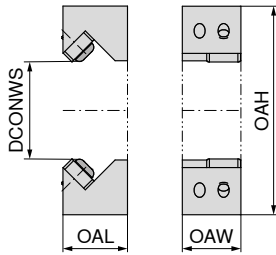


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2 - 42	122,5	129	37,0	3 - 4
VDI 40	2 - 65	142,5	149	41,5	3 - 4

Left-hand	
80 310 ...	
EUR	Y7
1.464,00	03000
1.923,00	04000

Gripper accessories

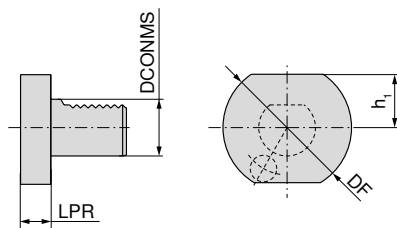
- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
- ▲ Price per pair



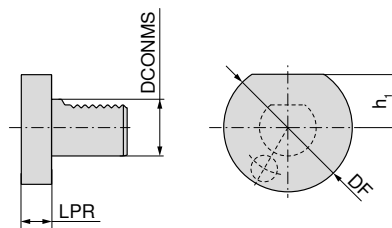
80 312 ...

GA	DCONWS mm	OAL mm	OAW mm	OAH mm	EUR Y7	
1	2 - 22	24,5	13	58	250,10	12200
3	2 - 42	26,0	22	86	250,10	14200
4	42 - 65	29,5	22	102	331,20	16500

Protection plugs



Steel



Plastic

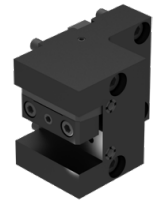
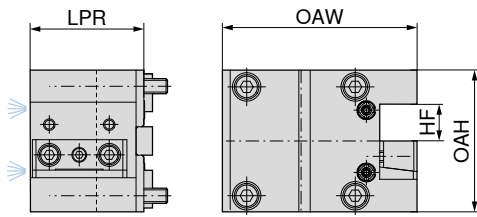


DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm
16	40	18,0	16
20	50	23,0	16
30	68	28,0	16
40	83	32,5	20
50	98	35,0	20

Steel		Plastic	
82 317 ...		83 318 ...	
EUR Y8		EUR Y8	
34,08	160	25,46	160
31,96	200	10,24	200
31,55	300	10,49	300
40,04	400	11,88	400
40,04	500	17,12	500

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

▲ directly screwed version

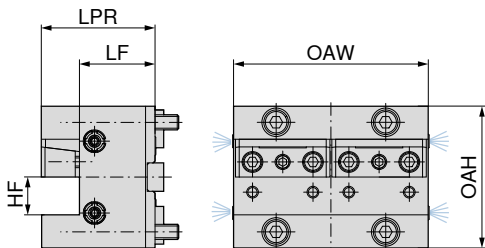


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	99,5

Left-hand	Left-hand
82 480 ...	82 480 ...
EUR Y7	EUR Y7
405,30 00001	404,20 00006

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

▲ directly screwed version

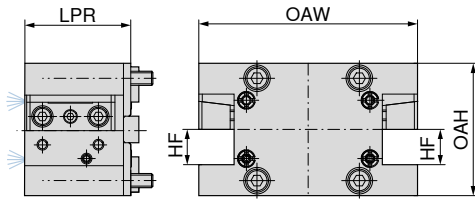


Adapter	Hole pattern	HF mm	LF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	40	60	75	103
BMT 45	58 x 58	20	40	60	75	80

Left-hand	Left-hand
82 480 ...	82 480 ...
EUR Y7	EUR Y7
426,00 01002	425,30 01007

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

▲ directly screwed version

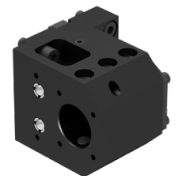
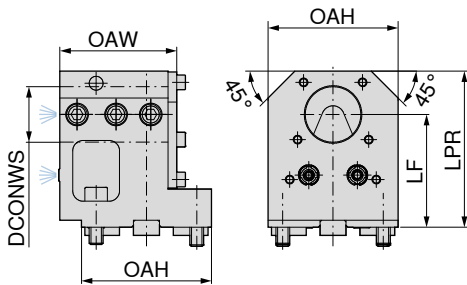


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	124

82 480 ...	82 480 ...
EUR Y7	EUR Y7
563,50 02003	565,10 02008

Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version



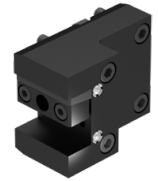
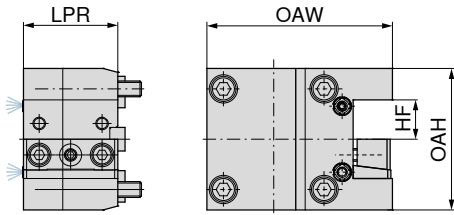
IC

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 ...
EUR Y7
433,10 03004
732,90 03005

Doosan – BMT 55 – Axial square section tool holder

▲ directly screwed version

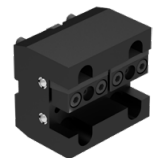
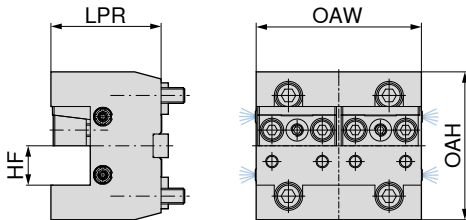


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	60	90	118

Left-hand		Left-hand	
82 481 ...		82 481 ...	
EUR	Y7	EUR	Y7
439,70	00001	507,30	00005

Doosan – BMT 55 – Radial square section tool holder

▲ directly screwed version

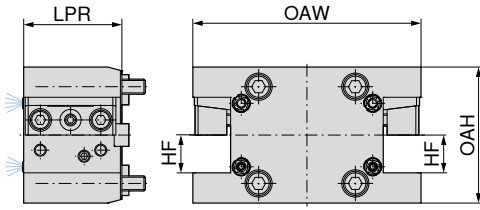


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105
BMT 55	64 x 64	25	95	94	105

Left-hand		Left-hand	
82 481 ...		82 481 ...	
EUR	Y7	EUR	Y7
439,70	01002	724,90	01006

Doosan – BMT 55 – Multi square section tool holder

▲ directly screwed version

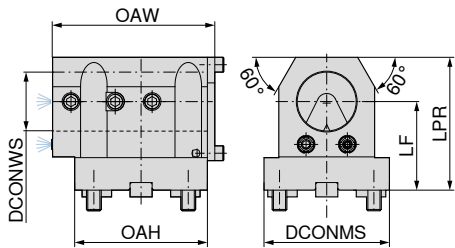


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	65	90	151
BMT 55	64 x 64	25	60	90	151

82 481 ...	82 481 ...
EUR Y7 641,40	EUR Y7 713,10
02003	02007

Doosan – BMT 55 – Boring bar holder

▲ directly screwed version



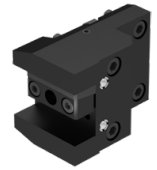
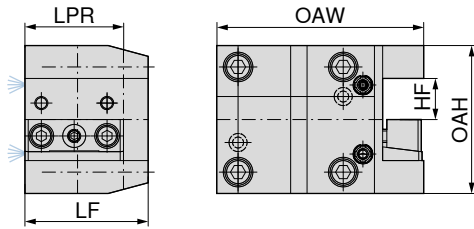
IC

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 ...
EUR Y7 433,10
04004

EMAG – BMT 55 – Axial square section tool holder

▲ directly screwed version

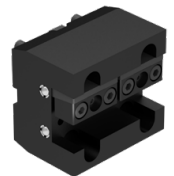
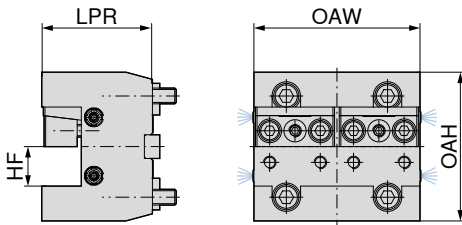


Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm
BMT 55	64 X 64	25	60	75	90	126

Left-hand	Left-hand
82 482 ...	82 482 ...
EUR Y7 429,30 00001	EUR Y7 496,60 00004

EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



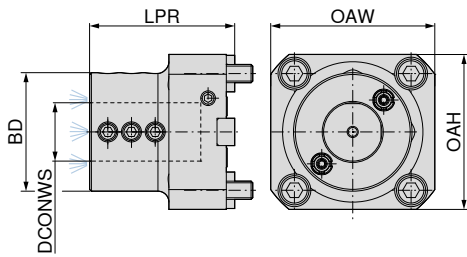
IC

Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105

Left-hand
82 482 ...
EUR Y7 439,70 01002

EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

82 482 ...

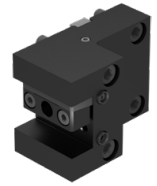
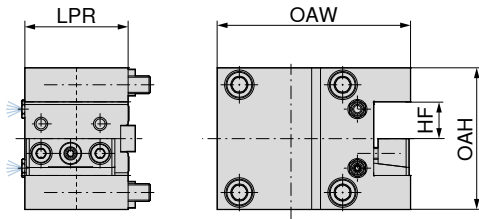
EUR
Y7

524,80 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

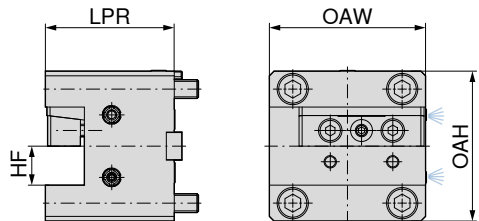


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	70	96	131
BMT 65	70 x 73	25	75	97	131

Left-hand	Left-hand
82 483 ...	82 483 ...
EUR Y7	EUR Y7
691,90 00001	605,90 00005

HAAS/Doosan – BMT 65 – Radial square section tool holder

▲ directly screwed version

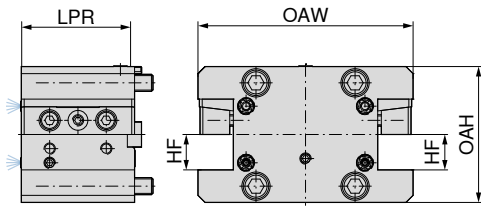


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	82,5	96	100

Right-hand	Right-hand
82 483 ...	82 483 ...
EUR Y7	EUR Y7
522,30 05002	591,50 05006

HAAS/Doosan – BMT 65 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



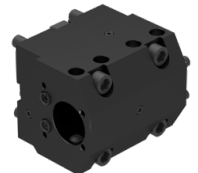
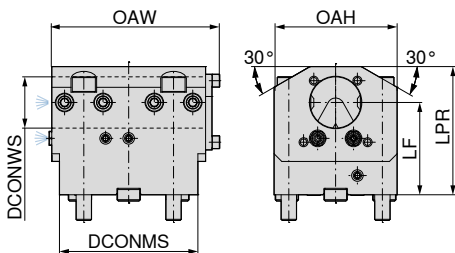
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	80	96	152

82 483 ...
EUR
Y7
673,50 02003

82 483 ...
EUR
Y7
746,00 02007

HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



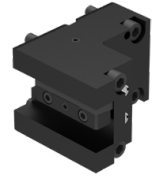
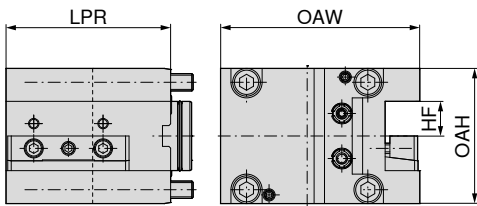
IC

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 ...
EUR
Y7
917,70 03004

Mori/Seiki – BMT 40 – Axial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



Left-hand

82 484 ...
EUR
Y7
405,30 00001

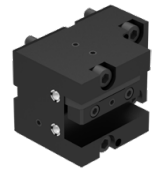
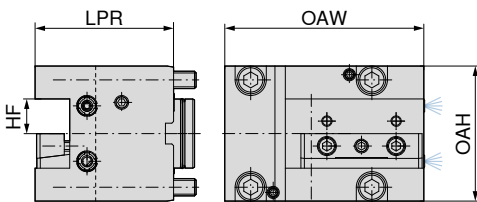
Left-hand

82 484 ...
EUR
Y7
472,20 00005

Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	115

Mori/Seiki – BMT 40 – Radial square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



Left-hand

82 484 ...
EUR
Y7
426,00 01002

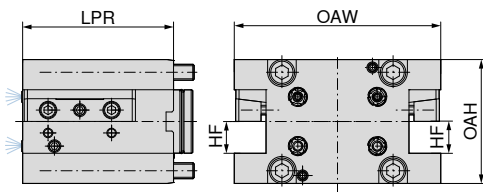
Left-hand

82 484 ...
EUR
Y7
493,20 01006

Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	80	78	115

Mori/Seiki – BMT 40 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



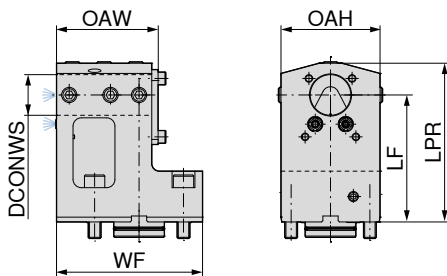
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	130

82 484 ...
EUR
Y7
446,70 02003

82 484 ...
EUR
Y7
514,30 02007

Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version



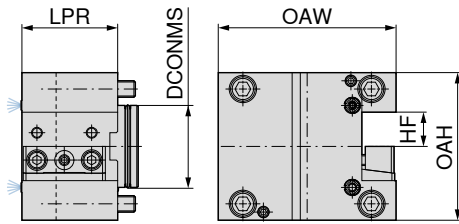
IC

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 ...
EUR
Y7
405,30 03004

Mori/Seiki – BMT 60 – Axial square section tool holder

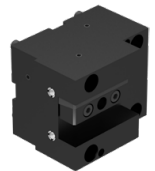
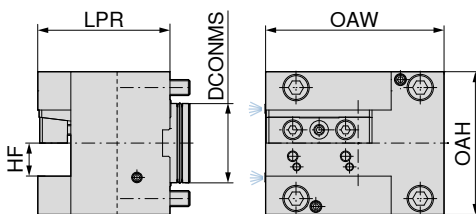
- ▲ directly screwed version
- ▲ For right and left direction of rotation



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	EUR Y7 405,30 00001	EUR Y7 472,20 00005

Mori/Seiki – BMT 60 – Radial square section tool holder

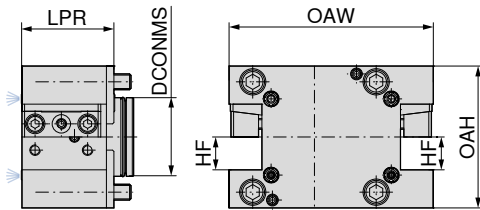
- ▲ directly screwed version
- ▲ For right and left direction of rotation



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	EUR Y7 426,00 01002	EUR Y7 493,20 01006

Mori/Seiki – BMT 60 – Multi square section tool holder

- ▲ directly screwed version
- ▲ For right and left direction of rotation



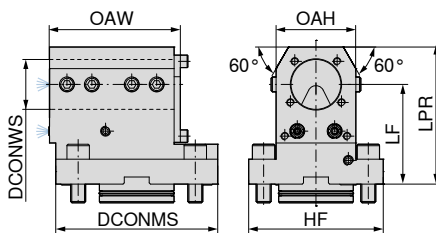
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155,5

82 485 ...
EUR
Y7
488,00 02003

82 485 ...
EUR
Y7
556,50 02007

Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



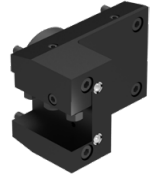
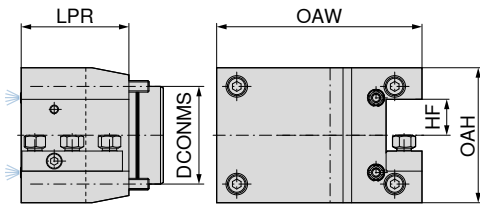
IC

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 ...
EUR
Y7
405,30 03004

Mazak – BMT 68 – Axial square section tool holder

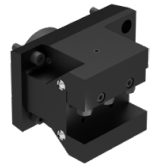
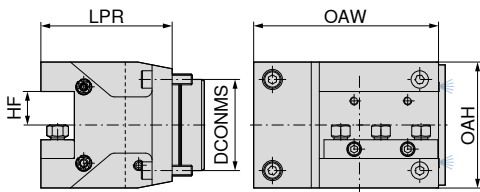
- ▲ directly screwed version
- ▲ For right and left direction of rotation



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	EUR Y7 388,10 00001	EUR Y7 454,60 00005

Mazak – BMT 68 – Radial square section tool holder

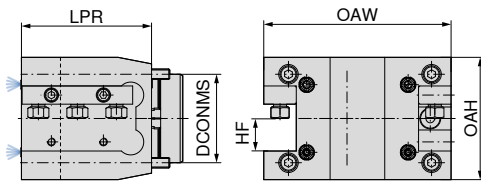
- ▲ directly screwed version
- ▲ For right and left direction of rotation



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	EUR Y7 394,50 01002	EUR Y7 461,00 01006

EMAG – BMT 68 – Multi square section tool holder

▲ directly screwed version



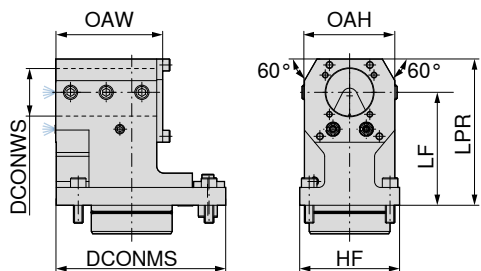
Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm
BMT 68	110 x 68	25	68	94	100	144

82 486 ...
EUR
Y7
621,20 02003

82 486 ...
EUR
Y7
692,60 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

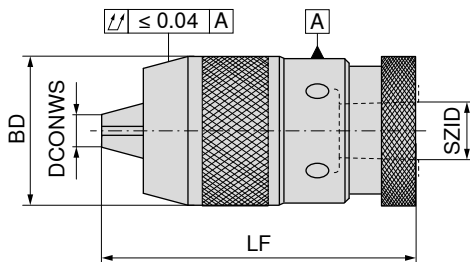
82 486 ...
EUR
Y7
379,50 03004

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 ...	
				EUR	
				Y8	
B12	0 - 8	73	35	113,70	012
B12	0 - 10	92	43	134,10	112
B16	1 - 13	106	50	160,90	016
B16	3 - 16	110	57	135,30	116
B18	3 - 16	110	57	171,70	018

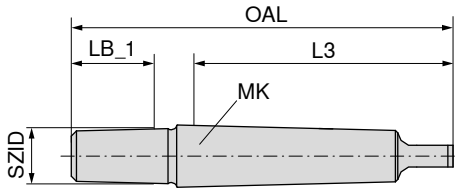


Spare parts
DCONWS

DCONWS	83 302 ...	
	EUR	
	Y8	
0 - 8	10,66	008
0 - 10	11,09	010
1 - 13	10,66	013
3 - 16	12,79	016

Drill chuck adapter DIN 238

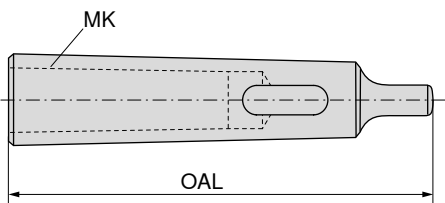
▲ Through-hardened and ground



Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm	83 642 ...	
					EUR Y8	
MK1	B12	62,0	18,5	89,0	5,86	120
MK1	B16	62,0	24,0	97,0	5,20	160
MK1	B18	62,0	32,0	106,0	6,21	180
MK2	B12	75,0	18,5	106,5	5,86	121
MK2	B16	75,0	24,0	110,5	5,86	161
MK2	B18	75,0	32,0	117,5	6,27	181
MK3	B12	94,0	18,5	125,0	8,12	122
MK3	B16	94,0	24,0	134,0	7,86	162
MK3	B18	94,0	32,0	141,0	8,42	182
MK4	B16	117,5	24,0	159,0	17,72	163
MK4	B18	117,5	32,0	168,0	17,98	183
MK5	B16	149,5	24,0	196,0	39,06	164
MK5	B18	149,5	32,0	204,5	40,55	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



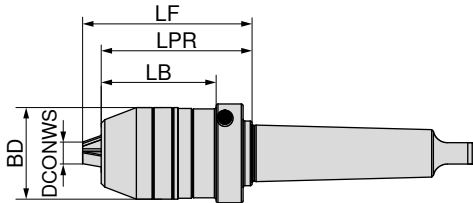
Adapter	d _i	OAL mm	83 644 ...	
			EUR Y8	
MK1	MK0	80	12,63	010
MK2	MK1	92	13,07	020
MK3	MK1	99	15,54	130
MK3	MK2	112	14,32	030
MK4	MK1	124	23,66	240
MK4	MK2	124	22,45	140
MK4	MK3	140	22,03	040
MK5	MK2	156	47,71	250
MK5	MK3	156	49,21	150
MK5	MK4	171	46,91	050

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 ...

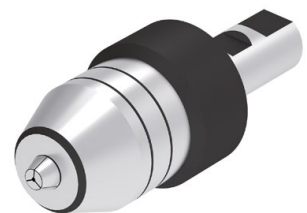
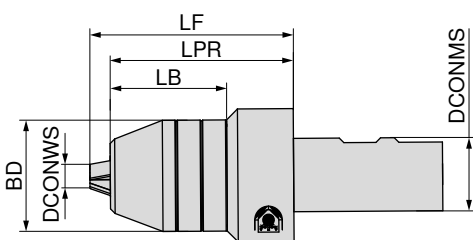
EUR	
Y8	
290,80	313
290,80	316
320,40	416

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

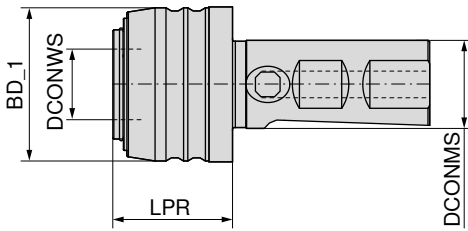
DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
25	0,5 - 13	48,5	50,9	80	89,0
32	0,5 - 13	48,5	50,9	80	89,0
32	2,5 - 16	51,0	50,9	80	90,5

84 311 ...

EUR	
Y8	
320,40	213
348,70	313
378,50	316

Synchro quick change tapping chuck with minimum length compensation

- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension and under compression (LZD)
- ▲ $p_{max.} = 50$ bar



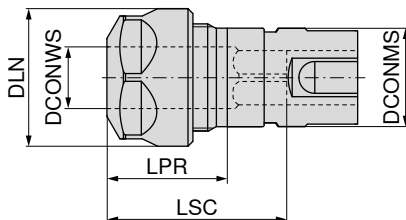
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	83 641 ...	
20	M3 - M12	1	35	43,5	25	1,0 / 0,2	EUR Y8	
32	M6 - M20	2	56	60,0	25	1,0 / 0,2	171,70	012
							197,40	020

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

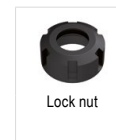
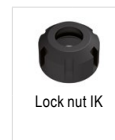
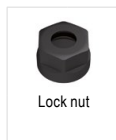
Scope of supply:

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	EUR Y8	
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	142,00	012 ¹⁾
								164,90	020

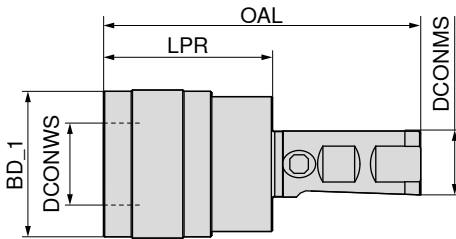
1) with 6 position lock nut



Spare parts for Article no.	62 950 ...	83 950 ...	62 950 ...	83 357 ...
	EUR W7	EUR Y8	EUR W7	EUR Y8
83 608 012	M22x1,5 - SW25 22,96 044	M22x1,5 39,48 054	M22x1,5 22,96 054	20,69 116
83 608 020		M32x1,5 51,29 055	M32x1,5 25,68 055	22,85 125

Quick change tap chuck with length compensation

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



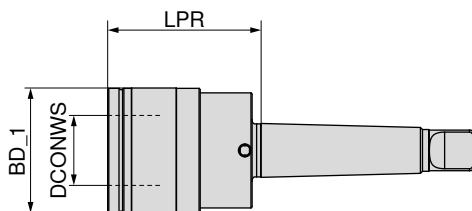
DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm
20	M3 - M12	01	41	38	19	91	9
20	M6 - M20	02	63	55	31	138	15
25	M3 - M12	01	41	38	19	97	9
25	M6 - M20	02	63	55	31	119	15
32	M3 - M12	01	41	38	19	102	9
32	M6 - M20	02	63	55	31	124	15

83 648 ...

EUR	
Y8	
250,10	112
338,10	120
250,10	212
306,80	220
254,20	312
316,40	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 ...

EUR	
Y8	
216,20	212
210,90	312
265,00	320
265,00	420

Accessories

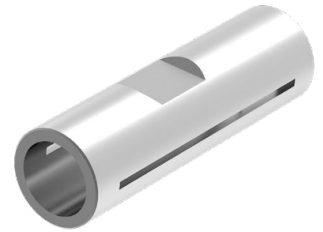
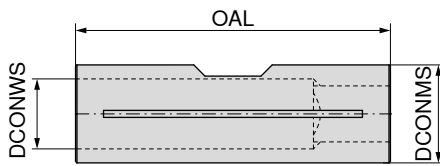


Collet

→ 288, 290-292

Clamping sleeve for taps in Weldon chucks

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

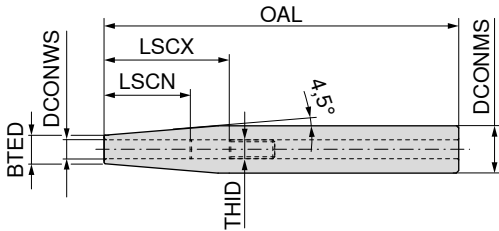


DCONWS _{H7}	DCONMS _{H6}	OAL	80 699 ...	
			EUR	Y7
3,5	6	26	43,95	03500
4,0	8	32	45,45	04000
4,5	8	26	45,45	04500
6,0	10	30	44,01	06000
7,0	10	31	44,01	07000
8,0	12	38	44,61	08000
9,0	12	38	44,61	09000
10,0	14	42	45,21	10000
11,0	14	42	45,21	11000
12,0	16	44	45,87	12000
14,0	18	45	47,13	14000
16,0	20	46	48,43	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 ...	
DCONWS _{h6}	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS	EUR	
mm	mm	mm	mm	mm	mm		mm	Y8	
12	3	8	150					146,10	003
12	4	8	150					146,10	004
12	5	10	150					146,10	005
12	6	10	150	36	26	M5	2,5	146,10	006
16	3	10	150					146,10	103
16	4	10	150					146,10	104
16	5	10	150					146,10	105
16	6	10	150	36	26	M5	2,5	146,10	106
16	8	12	150	36	26	M6	3,0	146,10	108
20	3	10	150					146,10	203
20	4	10	150					146,10	204
20	5	10	150					146,10	205
20	6	10	150	36	26	M5	2,5	146,10	206
20	8	12	150	36	26	M6	3,0	146,10	208
20	10	14	150	42	32	M8x1	3,0	146,10	210
20	12	16	150	47	37	M10x1	5,0	146,10	212
25	3	10	150					146,10	303
25	4	10	150					146,10	304
25	5	15	150					146,10	305
25	6	20	150	36	26	M5	2,5	146,10	306
25	8	20	150	36	26	M6	3,0	146,10	308
25	10	20	150	42	32	M8x1	3,0	146,10	310
25	12	20	150	47	37	M10x1	5,0	146,10	312
25	14	20	150	47	37	M10x1	5,0	146,10	314
25	16	22	150	50	40	M10x1	5,0	146,10	316
32	6	20	150	36	26	M5	2,5	146,10	406
32	8	20	150	36	26	M6	3,0	146,10	408
32	10	24	150	42	32	M8x1	3,0	146,10	410
32	12	24	150	47	37	M10x1	5,0	146,10	412
32	14	27	150	47	37	M10x1	5,0	146,10	414
32	16	27	150	50	40	M10x1	5,0	146,10	416
32	18	27	150	50	40	M10x1	5,0	146,10	418
32	20	27	150	52	42	M10x1	5,0	146,10	420

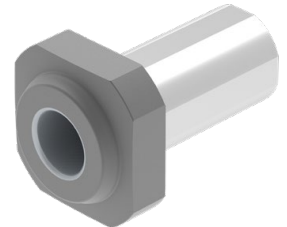
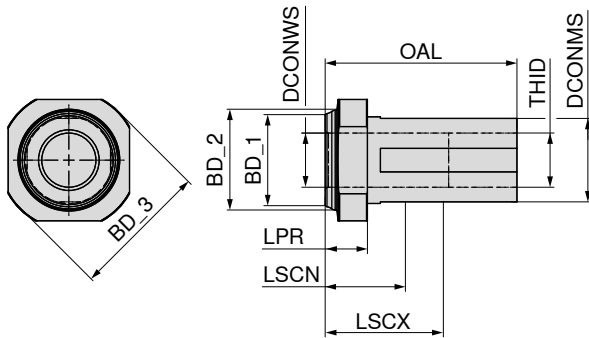
Observe the minimum clamping depth on → Page 312.

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	
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 ...

EUR	
Y8	
379,00	31699
379,00	32099
390,90	41699
390,90	42099
390,90	42599



83 950 ...

EUR	
Y7	
27,68	48500
43,69	48600

Spare parts

DCONWS

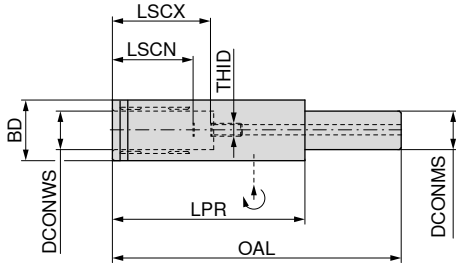
16 - 20
25

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		EUR	
mm	mm	mm	mm	mm	mm	mm	mm		Y8	
20	12	25,0	100	150	46	36	M6	363,80	112	
20	20	31,5	100	150	51	41	M10x1	363,80	120	
32	20	31,5	90	150	51	41	M10x1	363,80	132	
32	20	31,5	90	200	51	41	M10x1	374,50	232	

Observe the minimum clamping depth on → **Page 312.**



83 950 ...

Spare parts for Article no.

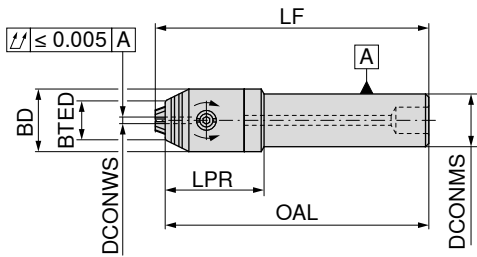
Article no.	Part description	EUR	
		Y7	
84 313 112	M6x12,5 - SW3	10,45	419
84 313 120	M10x1x13,5 - SW5	10,45	421
84 313 132	M10x1x13,5 - SW5	10,45	421
84 313 232	M10x1x13,5 - SW5	10,45	421

Micro-precision collet chuck

- ▲ bidirectional
- ▲ for speeds up to 60,000 1/min.

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000

84 315 ...

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm
16	0,2 - 3,4	30	80	83	19	12	2
16	0,2 - 3,4	30	100	103	19	12	2
16	0,2 - 3,4	30	160	163	19	12	2
20	0,2 - 3,4	28	80	83	19	12	2
20	0,2 - 3,4	28	100	103	19	12	2
20	0,2 - 3,4	28	160	163	19	12	2

EUR Y7

504,20 161

530,00 162

581,30 163

504,20 201

530,00 202

581,30 203

Spare parts for Article no.

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



80 950 ...

EUR Y7

7,21 152

7,21 152

7,21 152

7,21 152

7,21 152



80 950 ...

EUR Y7

153,30 191

153,30 191

153,30 191

153,30 191

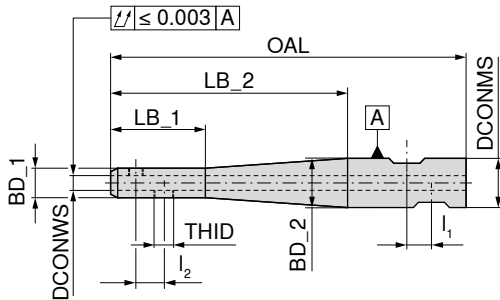
153,30 191

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	EUR	
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	140,70	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	170,40	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	137,80	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	166,20	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	137,80	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	166,20	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	137,80	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	166,20	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	142,00	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	170,40	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	159,50	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	196,10	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	166,20	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	200,20	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	164,90	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	197,40	12000 ¹⁾

1) only pre-balanced design



80 950 ...

Spare parts

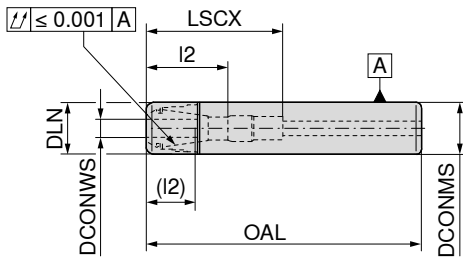
DCONWS	EUR	
	Y7	
6	10,28	M6X0,5X3 21700
8	10,28	M8x0,75x4 21800
10	10,28	M10x1x5 21900
12 - 14	10,43	M12x1x5 30000
16 - 18	10,84	M14x1x6,5 31000
20	11,14	M16x1x6,5 32000

Mini ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



							84 456 ...	
							EUR	
							Y8	
DCONMS	DCONWS	DLN	OAL	LSCX	l_2 (l_2)	for collet		
mm	mm	mm	mm	mm	mm			
10	1 - 5	10	80	16		4004E (ER08)	178,60	00400
10	1 - 5	10	150	16		4004E (ER08)	176,40	005
10	1 - 5	10	200	16		4004E (ER08)	241,20	006
12	1 - 5	10	120	16		4004E (ER08)	191,80	11000
12	1 - 5	10	160	16		4004E (ER08)	199,70	11200
12	1 - 5	10	200	16		4004E (ER08)	244,30	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	156,80	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	195,90	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	156,80	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	198,40	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	164,60	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	195,90	104

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

Spare parts for collet	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
	EUR	EUR	EUR	EUR
	Y8	Y8	Y8	Y8
4004E (ER08)		49,26	040	
4008E (ER11)		42,72	041	M8x1 - SW4 17,45 340
426E (ER16)	53,15	42,72	034	M11x1 - SW6 18,15 341
				M8x1 - SW4 12,81 336
				M11x1 - SW6 12,81 337

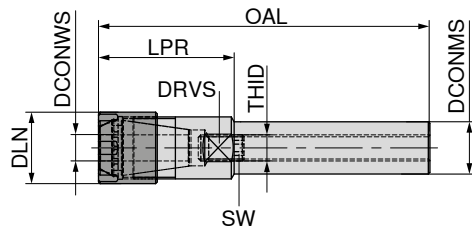
Accessories

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)

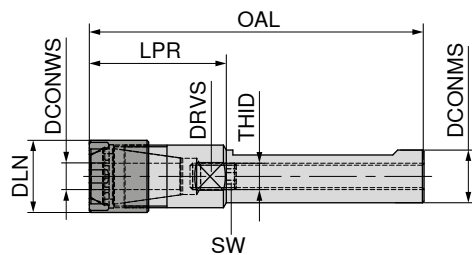
83 453 ...

EUR	
Y8	
100,80	081 ¹⁾
138,20	122
148,20	163
104,50	164
148,20	165
143,60	204
165,40	254
207,50	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 ...

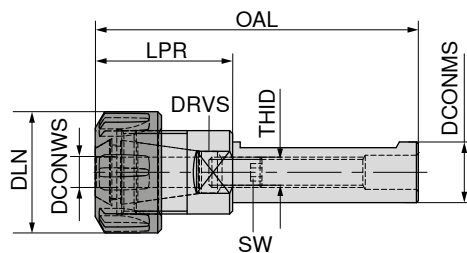
EUR	
Y8	
143,60	204
107,90	206
125,40	208
165,40	254
207,50	256

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	EUR		EUR		EUR		EUR	
	Y8		W7		Y8		Y8	
4004E (ER08)	17,98	099	M10x0,75	32,31	067			
4004E (ER08)	17,98	099	M10x0,75	32,31	067		M5x0,8 SW 2,5	4,78 003
4008E (ER11)	19,61	100	M13x0,75	31,50	065		M7,5x0,5 SW 3	2,23 004
426E (ER16)	20,81	101	M19x1	30,82	066	M19x1	M11x1 SW 5	2,57 006
426E (ER16)	20,81	101	M19x1	30,82	066	M19x1	M8x1,25 SW 4	2,40 005
428E (ER20)	23,52	102	M24x1	34,74	068	M24x1	M14x1 SW 5	2,77 007
430E (ER25)	26,37	103	M30x1	37,98	069	M30x1	M18x1 SW 5	2,99 008

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		EUR
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	128,20 401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	157,50 402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	146,60 405

	Y clamping key		Stop screw IK		Stop screw		
	83 357 ...		83 950 ...		83 950 ...		
Spare parts for collet	EUR		EUR		EUR		
	Y8		Y8		Y8		
470E (ER32)	31,09	132					
472E (ER40)	34,22	140	M28x1,5x25 SW 6	4,92	096	M22x1,5x20 SW 5	3,74 095

	Lock nut IK		Lock nut	
	83 950 ...		62 950 ...	
Spare parts for collet	EUR		EUR	
	Y8		W7	
470E (ER32)			M40x1,5	23,93 65600
472E (ER40)			M50x1,5	23,26 65700

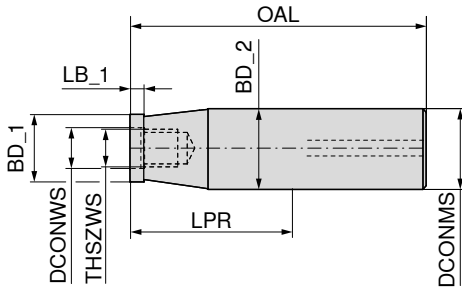
Accessories



ER collet

→ 268–276, 278–279

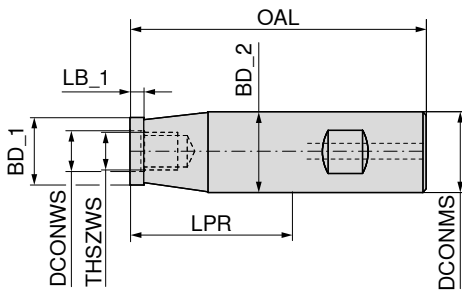
Cylindrical milling bar for cutters with threaded end



56 727 ...

DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	EUR WA	
12	M5	5,5	20	9,5	7,8	11,5	65	93,69	052
12	M6	6,5	20	11,5	7,8	11,5	65	95,73	060
12	M6	6,5	40	11,5	7,8	11,5	85	103,30	062
16	M8	8,5	20	13,8	7,8	15,8	68	96,94	081
16	M8	8,5	40	13,8	7,8	15,8	88	104,40	082
20	M10	10,5	25	18,0	7,8	19,8	75	101,10	101
20	M10	10,5	45	18,0	7,8	19,8	95	109,20	102
25	M12	12,5	50	21,0	7,8	24,8	106	114,40	122
32	M16	17,0	50	29,0	12,0	31,8	110	123,20	162

Milling bar for cutters with threaded end (Weldon)

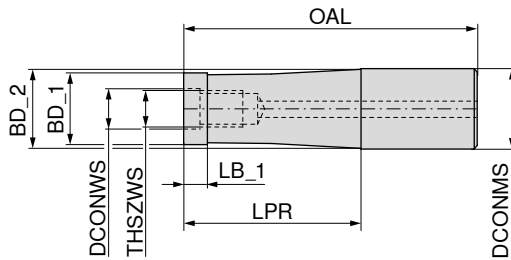


56 729 ...

DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	EUR WA	
12	M6	6,5	20	11,5	7,8	11,5	65	95,73	060
12	M6	6,5	40	11,5	7,8	11,5	85	103,30	062
16	M8	8,5	20	13,8	12,0	15,8	68	96,94	081
16	M8	8,5	40	13,8	8,0	15,8	88	104,40	082
20	M10	10,5	25	18,0	8,0	19,8	75	101,10	101
20	M10	10,5	45	18,0	12,0	19,8	95	109,20	102
25	M12	12,5	30	21,0	12,0	24,9	86	105,20	121
25	M12	12,5	50	21,0	8,0	24,9	106	114,40	122
32	M16	17,0	50	29,0	12,0	31,8	110	123,20	162

Screw-in adapter with cylindrical shank

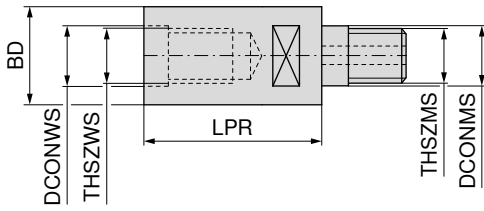
▲ Vibration-damped



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	Solid carbide		Densimet	
								56 743 ... EUR WC		56 744 ... EUR WC	
12	M5	5,5	40	9,5	9	11,3	85			292,20	052
12	M5	5,5	60	9,5	9	11,3	105			315,70	053
12	M5	5,5	80	9,5	9	11,3	125			351,50	054
12	M6	6,5	20	11,5		11,5	65	369,40	060		
12	M6	6,5	40	11,5		11,5	85	394,20	062		
12	M6	6,5	60	11,5		11,5	105	436,90	063		
12	M6	6,5	80	11,5		11,5	125	478,30	064		
12	M6	6,5	100	11,5		11,5	145	519,60	065		
16	M8	8,5	40	14,2	9	15,3	88	378,90	082	359,80	082
16	M8	8,5	60	14,2	9	15,3	108	417,70	083	388,70	083
16	M8	8,5	80	14,2	9	15,3	128	450,70	084	424,60	084
16	M8	8,5	100	14,2	9	15,3	148	490,70	085	467,20	085
16	M8	8,5	120	14,2	9	15,3	168	523,60	086	515,50	086
16	M8	8,5	150	14,2	9	15,3	198			649,10	087
20	M10	10,5	60	18,5	9	19,3	110	480,90	103	453,50	103
20	M10	10,5	80	18,5	9	19,3	130	541,60	104	504,50	104
20	M10	10,5	100	18,5	9	19,3	150	589,80	105	563,80	105
20	M10	10,5	120	18,5	9	19,3	170	669,80	106	625,60	106
20	M10	10,5	140	18,5	9	19,3	190	746,90	107	729,00	107
25	M12	12,5	75	23,0	9	24,3	131			680,80	124
25	M12	12,5	80	23,0	9	24,3	136	578,80	124		
25	M12	12,5	100	23,0	9	24,3	156	673,90	125	752,40	125
25	M12	12,5	120	23,0	9	24,3	176	838,00	126		
25	M12	12,5	125	23,0	9	24,3	181			824,30	126
25	M12	12,5	140	23,0	9	24,3	196	967,30	127		
25	M12	12,5	150	23,0	9	24,3	206			926,20	127
25	M12	12,5	160	23,0	9	24,3	216	1.097,00	128		
25	M12	12,5	175	23,0	9	24,3	231			1.049,00	128
32	M16	17,0	100	29,0	9	31,5	160	1.232,00	165 ¹⁾		
32	M16	17,0	150	29,0	9	31,5	210	1.496,00	166 ¹⁾		
32	M16	17,0	200	29,0	9	31,5	260	1.804,00	167 ¹⁾		
32	M16	17,0	250	29,0	9	31,5	310	2.164,00	168 ¹⁾		
32	M16	17,0	300	29,0	9	31,5	360	2.476,00	169 ¹⁾		

1) On request

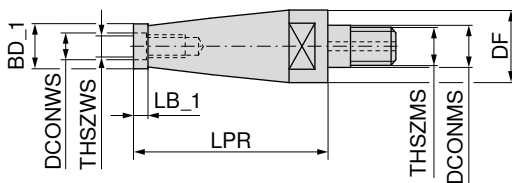
Extensions for milling cutters with threaded end



56 733 ...

THSZWS	THSZMS	DCONWS mm	DCONMS mm	LPR mm	BD mm		
M8	M8	8,5	8,5	40	13,8	EUR	
M8	M8	8,5	8,5	60	13,8	WA	
						110,40	081
						136,60	082
M10	M10	10,5	10,5	40	18,0	114,70	101
M10	M10	10,5	10,5	60	18,0	140,70	102
M12	M12	12,5	12,5	40	21,0	119,00	121
M12	M12	12,5	12,5	60	21,0	144,70	122
M16	M16	17,0	17,0	40	29,0	123,20	161
M16	M16	17,0	17,0	60	29,0	148,80	162

Reductions for milling cutters with threaded end



56 735 ...

THSZWS	THSZMS	DCONMS mm	DCONWS mm	LPR mm	BD_1 mm	DF mm	LB_1 mm		
M6	M8	8,5	6,5	20	9,5	13,8	7,8	EUR	
								WA	
								102,50	060
M8	M10	10,5	8,5	40	13,8	18,0	7,8	114,70	081
M8	M12	12,5	8,5	60	13,8	21,0	7,8	123,20	082
M10	M12	12,5	10,5	40	18,0	21,0	7,8	119,00	101
M10	M16	17,0	10,5	60	18,0	29,0	7,8	144,70	102
M12	M16	17,0	12,5	40	21,0	29,0	7,8	119,00	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>	

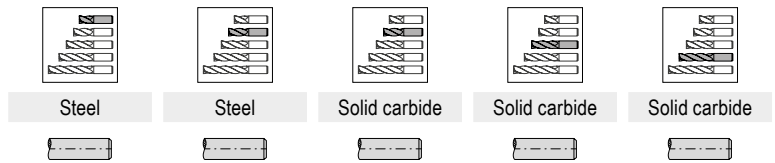
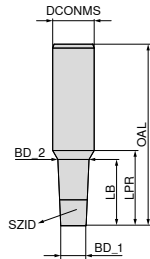
Tool holder	
<p>→ Catalogue – Clamping technology, Chapter 16 Accessories</p> <p>Page No. 16 259 – 16 261</p> <p>OAL 60 – 90 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>OAL 85 – 120 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid 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 ...	
							EUR Y8	080	EUR Y8	080	EUR Y8	080	EUR Y8	080	EUR Y8	080
06	7,8	9,4	10	60	18	19	118,40									
06	7,8	9,4	10	85	43	44		140,50		242,00			267,80			
06	7,8	9,4	10	110	68	69									308,20	080
06	7,8	9,4	10	150	108	109										
08	9,8	12,0	16	70	25	29	120,30									
08	9,8	13,0	16	90	38	41		143,30		263,60						
08	9,8	14,9	16	110	60	61						294,60				100
08	9,8	15,4	16	150	100	101									343,30	100
10	11,8	14,2	16	70	27	29	134,00									
10	11,8	15,2	16	90	40	41		146,00		263,60						
10	11,8	16,6	20	110	56	59						377,10				120
10	11,8	19,5	20	150	98	99									408,20	120
12	15,8	18,2	20	80	27	29	143,30									
12	15,8	19,5	20	105	53	54		177,80		370,50						
12	15,8	19,5	20	130	78	79						442,20				160
12	15,8	19,5	20	150	98	99									455,70	160
16	19,8	23,2	25	90	39	41	167,10									
16	19,8	24,5	25	120	60	61		205,70		455,70						
16	19,8	24,5	25	150	90	91						512,40		200		
16	19,8	24,5	25	200	140	141									575,90	200

Assembly instructions can be found on → **Page 293**

Accessories



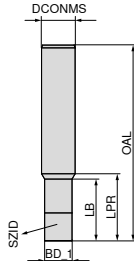
insertion key → 293 Adjustable wrench → 293

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 ...
EUR Y8	EUR Y8	EUR Y8	EUR Y8
107,40	126,10		
080	080	177,80	080
109,30	129,30		
100	100	181,70	100
121,20	131,90	185,70	120
120	120	222,90	160
130,20	157,80		
160	160		403,20
152,50	185,70		
200	200	261,20	200
			449,50
			200

Assembly instructions can be found on → **Page 293**

Accessories

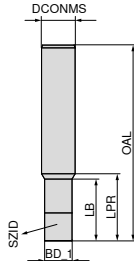
insertion key	Adjustable wrench
→ 293	→ 293

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 ...
EUR Y8	EUR Y8	EUR Y8	EUR Y8
242,00	080		
	267,80	080	
		308,20	080
255,50	100		
	279,80	100	
		327,20	100
263,60	120		
	294,60	120	
		343,30	120
286,60	160		
	390,70	160	
		443,40	160
455,70	200		586,80
	512,40	200	
		575,90	200
			888,30
			200

Assembly instructions can be found on → **Page 293**

Accessories

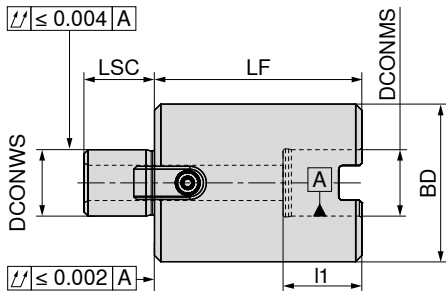
insertion key	Adjustable wrench
→ 293	→ 293

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

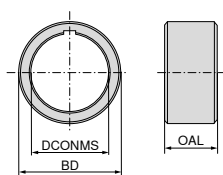


						82 648 ...	
						EUR	
						Y8/3B	
DCONWS _{h5}	DCONMS _{h5}	LF	BD	LSC	l ₁		
mm	mm	mm	mm	mm	mm		
16	16	50	38	17	19	98,42	050
16	16	75	38	17	19	99,10	075
22	22	50	48	19	21	100,90	150
22	22	75	48	19	21	101,80	175
27	27	50	58	21	23	105,60	250
27	27	75	58	21	23	107,50	275
32	32	50	78	24	26	114,50	350
32	32	75	78	24	26	118,60	375
40	40	50	88	27	29	142,00	450
40	40	75	88	27	29	147,30	475

		83 950 ...		83 950 ...		82 649 ...		82 649 ...	
		EUR		EUR		EUR		EUR	
		Y8/3B		Y8/3B		Y8/3B		Y8/3B	
Spare parts for Article no.									
82 648 050	M3x8	0,48	296	8x9x17,5	9,32	120	M8x125	5,60	001
82 648 075	M3x8	0,48	296	8x9x17,5	9,32	120	M8x100	4,75	075
82 648 150	M4x12	0,61	297	10x11x20,5	9,65	121	M10x125	8,24	100
82 648 175	M4x12	0,61	297	10x11x20,5	9,65	121	M10x100	7,18	175
82 648 250	M5x12	0,74	136	12x13x24,3	10,93	122	M12x125	12,61	200
82 648 275	M5x12	0,74	136	12x13x24,3	10,93	122	M12x100	10,74	275
82 648 350	M5x20	0,82	137	14x21x21,2	11,28	123	M16x125	18,51	300
82 648 375	M5x20	0,82	137	14x21x21,2	11,28	123			
82 648 450	M6x16	0,97	138	15,9x16,3x19,5	14,47	295			
82 648 475	M6x16	0,97	138	15,9x16,3x19,5	14,47	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

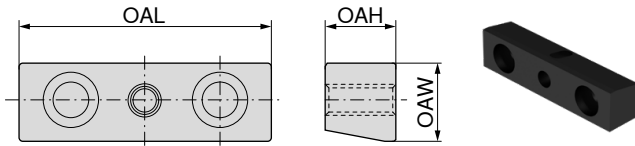


83 385 ...

DCONMS mm	BD mm	OAL mm	EUR Y8	
13	22	2	7,63	013
	22	3	7,70	113
	22	4	8,06	213
	22	5	8,25	313
	22	6	8,67	413
	22	10	9,71	513
16	26	2	6,77	016
	26	3	6,78	116
	26	4	6,87	216
	26	5	7,15	316
	26	6	7,34	416
	26	10	10,48	516
	26	20	13,34	616
	26	30	16,61	716
22	34	2	7,01	022
	34	3	7,15	122
	34	4	7,21	222
	34	5	7,90	322
	34	6	8,95	422
	34	10	12,31	522
	34	20	15,41	622
	34	30	20,43	722
27	41	2	7,70	027
	41	3	7,88	127
	41	4	8,68	227
	41	5	8,99	327
	41	6	10,12	427
	41	10	12,56	527
	41	20	17,04	627
	41	30	22,58	727
32	47	2	8,60	032
	47	3	9,10	132
	47	4	9,93	232
	47	5	10,74	332
	47	6	11,38	432
	47	10	13,91	532
	47	20	20,96	632
	47	30	25,42	732
40	55	2	9,99	040
	55	3	11,10	140
	55	4	12,25	240
	55	5	13,34	340
	55	6	14,47	440
	55	10	19,46	540
	55	20	26,49	640
	55	30	32,84	740

Spare parts for VDI holders with DirectCooling

Clamping rail



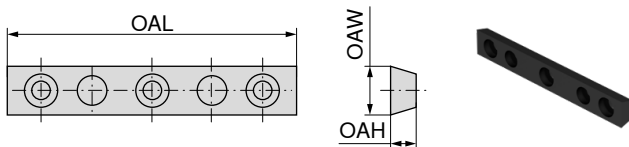
OAL mm	OAW mm	OAH mm	82 250 ... EUR Y8
53,0	12,7	11,5	14,43 05300
54,0	16,0	15,0	14,43 05400
67,5	16,0	15,0	18,03 06750
68,0	21,0	19,0	18,03 06800
83,0	20,5	19,0	21,65 08300
90,0	20,5	19,0	25,77 09000

Screw for ball-shaped spray nozzle



THOD	82 950 ... EUR Y8
M3x10	2,82 31000
M4x10	2,82 31300
M5x12	3,61 31100
M6x12	4,38 31200

Clamping wedge



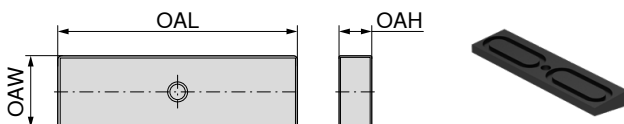
OAL mm	OAW mm	OAH mm	82 250 ... EUR Y8
70	14	7,3	18,03 07000
85	14	7,3	21,65 08500
100	14	7,3	25,77 10000

Ball-shaped spray nozzle



THID	BD mm	82 950 ... EUR Y8
M5	8	7,20 30600
M6	10	9,03 30900
M6	12	10,83 30700
M6	14	12,87 30800

Levelling plates



OAL mm	OAW mm	OAH mm	82 250 ... EUR Y8
53,0	14	6,1	28,86 15300
67,5	18	6,3	36,08 16750
83,0	22	7,5	43,82 18300
90,0	22	7,5	50,51 19000

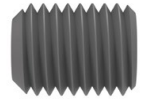
Spare parts for VDI holders with DirectCooling

O ring
for clamping wedge



Size	82 950 ...	
	EUR	Y8
Ø13 x Ø2	5,41	32600
Ø18 x Ø2	7,20	32700
Ø22 x Ø2	7,20	32800

Screw plug for ball-shaped
spray nozzle



THOD	OAL mm	82 950 ...	
		EUR	Y8
M5	6	3,10	32900
M6	6	3,10	33000

O ring for ball-shaped
spray nozzle



Size	82 950 ...	
	EUR	Y8
Ø10 x Ø2	2,82	31600
Ø5 x Ø1,5	2,82	31400
Ø7 x Ø1,5	2,82	31700
Ø7 x Ø2,5	2,82	31500

Screw for clamping wedge



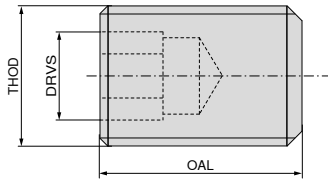
THOD	82 950 ...	
	EUR	Y8
M5x12	3,61	31800
M6x16	5,41	32200
M6x20	5,41	31900
M8x20	7,20	32300
M8x25	9,03	32100

Quad ring



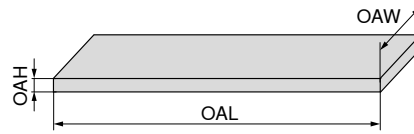
Size	82 950 ...	
	EUR	Y8
Ø21,95 x Ø1,78	10,83	32400
Ø28,3 x Ø1,78	12,87	32500

Screw for cylindrical adapters E2



Levelling plates

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



			83 950 ...	
THOD	OAL	DRVS	EUR	
	mm	mm	Y8	
M6	12	3	2,66	461
M6	16	3	2,66	462
M6	25	3	2,66	463
M8	10	4	2,66	464
M8	12	4	2,66	465
M8	16	4	2,66	466
M8	20	4	2,66	467
M8	25	4	2,66	468
M8	30	4	2,66	469
M10	16	5	2,66	470
M10	20	5	2,66	471
M10	25	5	3,15	472
M10	30	5	2,90	473
M12	12	6	3,15	474
M12	16	6	3,15	475
M12	20	6	3,15	476
M12	25	6	3,15	477

			83 950 ...	
OAH	OAL	OAW	EUR	
mm	mm	mm	Y8	
4	38	14	14,21	210
4	48	14	14,21	211
4	54	14	14,21	212
4	55	12	14,21	213
4	69	16	14,21	214
4	72	14	14,21	215
4	75	12	14,21	216
4	99	16	14,21	217
5	84	20	14,21	218
5	117	20	14,21	219
7	99	25	14,21	220
7	120	25	16,36	221
7	129	25	14,21	222
7	143	25	14,21	223

Clamping screw for cylindrical adapters E1



			83 950 ...	
THOD			EUR	
			Y8	
M10x1x10			6,33	180
M12x1x12			6,33	181
M16x1x13			7,76	182

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



for collet	THOD	DRVS mm	83 950 ... EUR Y8	
ER 16	M24x1	19	64,42	45600
ER 20	M28x1,5	22	67,69	45700
ER 25	M32x1,5	24	70,19	45800
ER 32	M40x1,5	32	75,13	45900

Ball-shaped spray nozzle



	83 950 ... EUR Y8	
Ø 8 - M 5	3,55	200
Ø 10 - M 6	4,49	201
Ø 14 - M 8	4,49	202

Pipe joints

▲ steel pipe



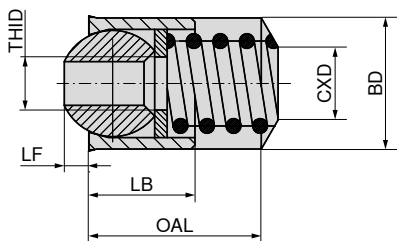
THOD	CXD mm	Type	83 950 ... EUR Y7	
M8x1	5	A	8,84	372
M10x1	6	A	19,46	373
M10x1	8	A	11,07	374
M8x1	5	B	8,84	375
M10x1	6	B	19,46	376
M10x1	8	B	19,46	377

O-Ring



Adapter	Size	83 950 ... EUR Y8	
VDI 16	15 x 1,5	1,12	205
VDI 20	18,77 x 1,78	1,12	206
VDI 30	28,3 x 1,78	1,12	207
VDI 40	37,77 x 2,62	1,12	208
VDI 50	47,29 x 2,62	1,12	209

Spray nozzle element

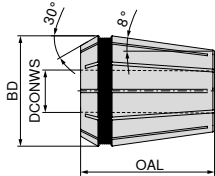


BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ... EUR Y8	
9,88	M4	13	8	2,2	5,5	12,85	247
11,88	M6	15	10	3,0	6,8	12,85	248
13,88	M6	17	12	4,0	6,8	12,85	249

Precision ER collet for precision collet chuck – Centro-P

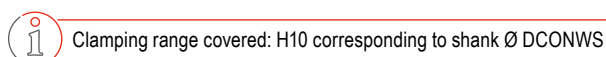
- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet

ER-B
2 µm



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 ...	
	EUR		EUR	EUR		EUR		EUR	EUR		EUR	
1,0	83,64	010	80,39	010	79,74	010						
1,1					125,10	011						
1,2					125,10	012						
1,4					125,10	014						
1,5	83,64	015	80,39	015	79,74	015						
1,6					125,10	016						
1,8					125,10	018						
2,0	65,15	020	62,58	020	59,99	020	61,90	020	63,53	020		
2,2					110,80	022						
2,4					110,80	024						
2,5	65,15	025	62,58	025	59,99	025	61,90	025				
2,6					110,80	026						
2,8					110,80	028						
3,0	56,04	030	53,15	030	51,20	030	52,50	030	53,15	030	88,13	030
3,2					98,51	032						
3,4					98,51	034						
3,5	56,04	035	53,15	035	73,26	035	77,12	035				
3,6					98,51	036						
3,8					98,51	038						
4,0	56,04	040	53,15	040	51,20	040	52,50	040	53,15	040	67,11	040
4,5	56,04	045	53,15	045	73,26	045	77,12	045				
5,0	56,04	050	53,15	050	51,20	050	52,50	050	53,15	050	67,11	050
5,5			53,15	055	73,26	055	77,12	055				
5,6					98,51	056						
6,0			53,15	060	51,20	060	52,50	060	53,15	060	67,11	060
6,3					98,51	063						
6,5			53,15	065	73,26	065	77,12	065				
7,0			53,15	070	51,20	070	52,50	070	53,15	070	67,11	070
7,1					98,51	071						
7,5					73,26	075	77,12	075				
8,0					51,20	080	52,50	080	53,15	080	67,11	080
8,5					73,26	085	77,12	085				
9,0					51,20	090	52,50	090	53,15	090	67,11	090
9,5					73,26	095	77,12	095				
10,0					51,20	100	52,50	100	53,15	100	67,11	100
10,5					77,12	105						
11,0					52,50	110	53,15	110	53,15	110	67,11	110
11,5					77,12	115						
12,0					52,50	120	53,15	120	53,15	120	67,11	120
12,5					77,12	125						
13,0					52,50	130	53,15	130	53,15	130	67,11	130
13,5					77,12	135						
14,0					52,50	140	53,15	140	53,15	140	67,11	140
14,5					77,12	145						
15,0					52,50	150	53,15	150	53,15	150	67,11	150
15,5					77,12	155						
16,0					52,50	160	53,15	160	53,15	160	67,11	160
17,0					53,15	170	67,11	170				
18,0					53,15	180	67,11	180				
19,0					53,15	190	67,11	190				
20,0					53,15	200	67,11	200				
21,0					67,11	210						
22,0					67,11	220						
23,0					67,11	230						
24,0					67,11	240						
25,0					67,11	250						
26,0					67,11	260						
Set in wooden box				326,70	999	394,20	999	453,80	999			

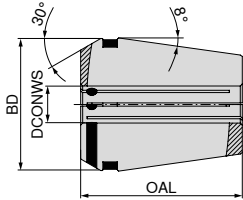
1) Included in the set



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

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ Coloured ring as identification of precision collet
- ▲ $p_{max.} = 60$ bar
- ▲ Coated precision collet

ER-B
2 µm

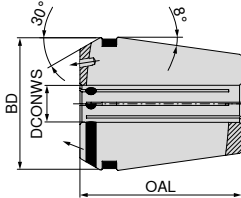


DCONWS mm	BD = 11,3 OAL = 18 425 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
	EUR		EUR		EUR		EUR		EUR	
	Y8		Y8		Y8		Y8		Y8	
3	75,18	030	68,69	030	79,07	030	81,68	030		
4	75,18	040	68,69	040	72,60	040	75,18	040		
5	81,68	050	75,18	050	79,07	050	81,68	050		
6	75,18	060	68,69	060	72,60	060	75,18	060	85,54	060
7			75,18	070	79,07	070	81,68	070		
8			68,69	080	72,60	080	75,18	080	85,54	080
9			75,18	090	79,07	090	81,68	090		
10			68,69	100	72,60	100	75,18	100	85,54	100
11					79,07	110	81,68	110		
12					72,60	120	75,18	120	85,54	120
13					79,07	130	81,68	130		
14					72,60	140	75,18	140	85,54	140
15					79,07	150	81,68	150		
16					72,60	160	75,18	160	85,54	160
17							81,68	170		
18							75,18	180	85,54	180
19							81,68	190		
20							75,18	200	85,54	200
22									94,63	220
25									85,54	250

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

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

ER-A
2 µm

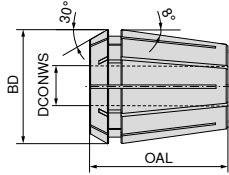


DCONWS mm	BD = 11,3 OAL = 18 4012 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	EUR		EUR		EUR		EUR		EUR	
	84 547 ...		84 548 ...		84 549 ...		84 550 ...		84 551 ...	
	Y8		Y8		Y8		Y8		Y8	
3	113,00	03000	101,10	03000						
4	113,00	04000	101,10	040	107,60	040	111,50	040		
6	113,00	06000	101,10	060	107,60	060	111,50	060	128,30	06000
8			101,10	080	107,60	080	111,50	080	128,30	08000
10			101,10	10000	107,60	100	111,50	100	128,30	100
12					107,60	120	111,50	120	128,30	120
14					107,60	140	111,50	140		
16					107,60	16000	111,50	160	128,30	160
18							111,50	180		
20							111,50	200	128,30	200
25									128,30	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		
	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8		
1,0	32,43	010	31,45	010	32,42	010 ¹⁾	34,14	010 ¹⁾					
1,5	32,43	015	31,45	015 ¹⁾	32,42	015 ¹⁾	34,14	015 ¹⁾					
2,0	32,43	020	31,45	020	32,42	020	34,14	020	36,10	020 ¹⁾			
2,5	32,43	025	31,45	025 ¹⁾	32,42	025 ¹⁾	34,14	025 ¹⁾	36,10	025 ¹⁾			
3,0	26,31	030	24,82	030	25,67	030	26,31	030	28,00	030	48,60	030 ¹⁾	
3,5	26,31	035											
4,0	26,31	040	24,82	040	25,67	040	26,31	040	28,00	040	36,13	040	
4,5	26,31	045											
5,0	26,31	050	24,82	050	25,67	050	26,31	050	28,00	050	36,13	050	
5,5	26,31	055											
6,0	26,31	060	24,82	060	25,67	060	26,31	060	28,00	060	36,13	060	
6,5	26,31	065											
7,0	26,31	070	24,82	070	25,67	070	26,31	070	28,00	070	36,13	070	
8,0			24,82	080	25,67	080	26,31	080	28,00	080	36,13	080	
9,0			24,82	090	25,67	090	26,31	090	28,00	090	36,13	090	
10,0			24,82	100	25,67	100	26,31	100	28,00	100	36,13	100	
11,0					25,67	110	26,31	110	28,00	110	36,13	110	
12,0					25,67	120	26,31	120	28,00	120	36,13	120	
13,0					25,67	130	26,31	130	28,00	130	36,13	130	
14,0							26,31	140	28,00	140	36,13	140	
15,0							26,31	150	28,00	150	36,13	150	
16,0							26,31	160	28,00	160	36,13	160	
17,0									28,00	170	36,13	170	
18,0									28,00	180	36,13	180	
19,0									28,00	190	36,13	190	
20,0									28,00	200	36,13	200	
21,0											36,13	210	
22,0											36,13	220	
23,0											36,13	230	
24,0											36,13	240	
25,0											36,13	250	
26,0											36,13	260	
Set in wooden box		388,90	999	282,60	999	344,80	999	435,60	999	544,50	999	881,50	999

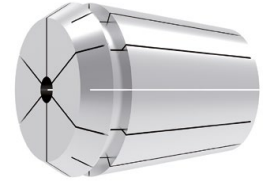
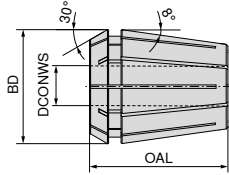
1) not included in the set

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



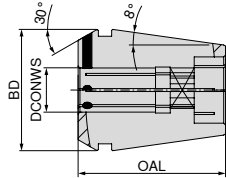
DCONWS mm	NEW		NEW		NEW		NEW	
	BD = 8,5 OAL = 13,6 4004 E / ER08	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	EUR	Y8	EUR	Y8
	82 683 ...	82 684 ...	82 685 ...	82 686 ...				
1,0	25,86 01000	20,55 01000						
1,5	25,86 01500							
2,0	25,86 02000	20,55 02000	21,50 02000					
2,5	25,86 02500							
3,0	25,86 03000	20,55 03000	21,50 03000	22,75 03000				
3,5	25,86 03500							
4,0	25,86 04000	20,55 04000	21,50 04000	22,75 04000				
4,5	25,86 04500							
5,0	25,86 05000	20,55 05000	21,50 05000	22,75 05000				
6,0		20,55 06000	21,50 06000	22,75 06000				
7,0		20,55 07000	21,50 07000	22,75 07000				
8,0		20,55 08000	21,50 08000	22,75 08000				
9,0		20,55 09000	21,50 09000	22,75 09000				
10,0		20,55 10000	21,50 10000	22,75 10000				
11,0			21,50 11000	22,75 11000				
12,0			21,50 12000	22,75 12000				
13,0			21,50 13000	22,75 13000				
14,0			21,50 14000	22,75 14000				
15,0			21,50 15000	22,75 15000				
16,0			21,50 16000	22,75 16000				
17,0				22,75 17000				
18,0				22,75 18000				
19,0				22,75 19000				
20,0				22,75 20000				
Set in plastic case	257,70 99900	227,60 99900	344,20 99900	435,50 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



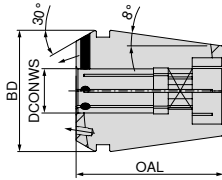
BD = 16,7 OAL = 27,5 4031 E / ER16	BD = 25,7 OAL = 34 4282 E / ER25	BD = 32,7 OAL = 40 4537 E / ER32
84 531 ...	84 533 ...	84 534 ...
EUR Y8	EUR Y8	EUR Y8
65,37 028		
55,77 035	61,19 035	
55,77 040	61,19 040	67,31 040
55,77 045	61,19 045	67,31 045
55,77 060	61,19 060	67,31 060
55,77 070	61,19 070	67,31 070
55,77 080	61,19 080	67,31 080
55,77 090	61,19 090	67,31 090
	61,19 100	67,31 100
	61,19 110	67,31 110
	61,19 120	67,31 120
	61,19 140	67,31 140
	61,19 160	67,31 160
		67,31 180
		67,31 200

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



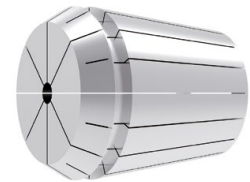
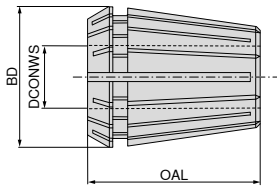
BD = 16,7 OAL = 27,5 4537 E / ER16	BD = 25,7 OAL = 34 4537 E / ER25	BD = 32,7 OAL = 40 4537 E / ER32
--	--	--

DCONWS mm	84 567 ...		84 568 ...		84 569 ...	
	EUR Y8		EUR Y8		EUR Y8	
3,5	89,45	035				
4,5	89,45	045	98,50	045	106,30	045
6,0	89,45	060	98,50	060	106,30	060
7,0	89,45	070	98,50	070	106,30	070
8,0	89,45	080	98,50	080	106,30	080
9,0	89,45	09000	98,50	090	106,30	090
10,0			98,50	100	106,30	100
11,0			98,50	110	106,30	110
12,0			98,50	120	106,30	120
14,0			98,50	140	106,30	140
16,0			98,50	16000	106,30	160
18,0					106,30	180
20,0					106,30	200

ER precision collet

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

ER-B
20 µm



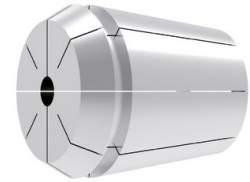
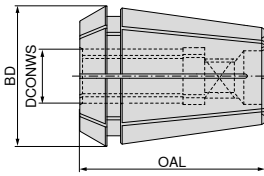
DCONWS mm	NEW		NEW		NEW		NEW		NEW		
	EUR	Y8	EUR	Y8	EUR	Y8	EUR	Y8	EUR	Y8	
			BD = 17 OAL = 27,5 426 E / ER16	BD = 21 OAL = 31,5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40				
	82 687 ...		82 688 ...		82 689 ...		82 690 ...		82 691 ...		
1	20,14	01000	20,81	01000							
2	20,14	02000	20,81	02000	21,62	02000					
3	16,36	03000	15,13	03000	16,22	03000	17,45	03000	22,03	03000	
4	16,36	04000	15,13	04000	16,22	04000	17,45	04000	22,03	04000	
5	16,36	05000	15,13	05000	16,22	05000	17,45	05000	22,03	05000	
6	16,36	06000	15,13	06000	16,22	06000	17,45	06000	22,03	06000	
7	16,36	07000	15,13	07000	16,22	07000	17,45	07000	22,03	07000	
8	16,36	08000	15,13	08000	16,22	08000	17,45	08000	22,03	08000	
9	16,36	09000	15,13	09000	16,22	09000	17,45	09000	22,03	09000	
10	16,36	10000	15,13	10000	16,22	10000	17,45	10000	22,03	10000	
11			15,13	11000	16,22	11000	17,45	11000	22,03	11000	
12			15,13	12000	16,22	12000	17,45	12000	22,03	12000	
13			15,13	13000	16,22	13000	17,45	13000	22,03	13000	
14					16,22	14000	17,45	14000	22,03	14000	
15					16,22	15000	17,45	15000	22,03	15000	
16					16,22	16000	17,45	16000	22,03	16000	
17							17,45	17000	22,03	17000	
18							17,45	18000	22,03	18000	
19							17,45	19000	22,03	19000	
20							17,45	20000	22,03	20000	
21									22,03	21000	
22									22,03	22000	
23									22,03	23000	
24									22,03	24000	
25									22,03	25000	
26									22,03	26000	
Set in plastic case		181,30	99900	194,70	99900	255,60	99900	313,70	99900	530,00	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 ...	
	EUR	EUR	EUR	EUR	Y8	Y8	Y8	Y8	Y8	Y8	Y8	Y8
2,8	27,44				02800							
3,5	27,44				03500							
4,0	27,44				04000							
4,5	27,44	42,86	46,91		04500	04500	04500					
5,0	27,44				05000							
5,5	27,44	42,86	46,91		05500	05500	05500					
6,0	27,44	42,86	46,91		06000	06000	06000					
7,0	27,44	42,86	46,91		07000	07000	07000				56,11	07000
8,0	27,44	42,86	46,91		08000	08000	08000				56,11	08000
9,0	27,44	42,86	46,91		09000	09000	09000				56,11	09000
10,0		42,86	46,91			10000	10000				56,11	10000
11,0		42,86	46,91			11000	11000				56,11	11000
12,0		42,86	46,91			12000	12000				56,11	12000
14,0			46,91				14000				56,11	14000
16,0			46,91				16000				56,11	16000
18,0											56,11	18000
20,0											56,11	20000

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box

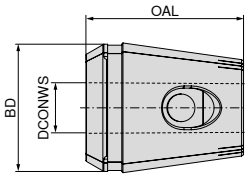


for collet	capacity	83 689 ...	
4004E (ER08)	9	EUR	
426E (ER16)	10	Y8/3B	008
428E (ER20)	11	18,66	116
4008E (ER11)	13	26,78	020
430E (ER25)	14	29,74	011
470E (ER32)	18	18,66	025
472E (ER40)	24	33,39	032
		33,39	040
		42,04	

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

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

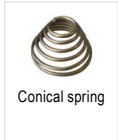
ER
5 μm



BD = 32,7
OAL = 40
ER 32

83 629 ...

DCONWS	mm	EUR	Y8
12		118,10	120
16		118,10	160



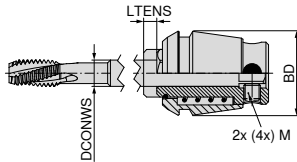
83 950 ...

Spare parts	DCONWS	CP 32	CP 32	EUR	Y8
12				5,95	455
16				5,95	455

Tapping Collet Form ET (ER) with length compensation

- ▲ DIN ISO 15488 (old DIN 6499)
- ▲ With pull out length compensation (LTENS)
- ▲ The spring force is adapted to the thread size
- ▲ Anti-rotation by 2 and/or 4 clamping screws on the shank square drive

ER
10 µm



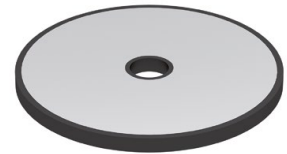
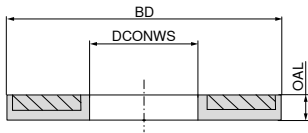
DCONWS mm	BD = 17 LTENS = 7 426 E / ER16		BD = 21 LTENS = 7 428 E / ER20		BD = 26 LTENS = 8 430 E / ER25		BD = 33 LTENS = 10 470 E / ER32		BD = 41 LTENS = 13 472 E / ER40	
	80 661 ...		80 662 ...		80 663 ...		80 664 ...		80 665 ...	
	EUR		EUR		EUR		EUR		EUR	
2,2	112,80	022	112,80	022						
2,5	112,80	025	112,80	025	118,00	025				
2,8	112,80	028	112,80	028	118,00	028				
3,0	112,80	030	112,80	030	118,00	030				
3,5	112,80	035	112,80	035	118,00	035				
4,0	112,80	040	112,80	040	118,00	040				
4,5	112,80	045	112,80	045	118,00	045	125,70	045		
5,0							125,70	050		
5,5	112,80	055	112,80	055	118,00	055	125,70	055		
6,0	112,80	060	112,80	060	118,00	060	125,70	060	145,20	060
7,0			112,80	070	118,00	070	125,70	070	145,20	070
8,0					118,00	080	125,70	080	145,20	080
9,0					118,00	090	125,70	090	145,20	090
10,0					118,00	100	125,70	100	145,20	100
11,0							125,70	110	145,20	110
12,0							125,70	120	145,20	120
14,0									145,20	140
16,0									145,20	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

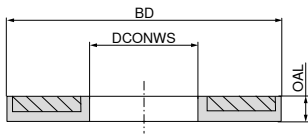
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



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)	
	EUR	Y8	EUR	Y8	EUR	Y8	EUR	Y8	EUR	Y8
1,0	23,61	010								
1,5	23,61	015								
2,0	23,61	020	24,49	020	23,61	020	24,49	020		
2,5	23,61	025	24,49	025	23,61	025	24,49	025		
3,0	19,31	030	20,10	030	19,31	030	20,10	030	24,49	030
3,5	19,31	035	20,10	035	19,31	035	20,10	035	24,49	035
4,0	19,31	040	20,10	040	19,31	040	20,10	040	24,49	040
4,5	19,31	045	20,10	045	19,31	045	20,10	045	24,49	045
5,0	19,31	050	20,10	050	19,31	050	20,10	050	24,49	050
5,5	19,31	055	20,10	055	19,31	055	20,10	055	24,49	055
6,0	19,31	060	20,10	060	19,31	060	20,10	060	24,49	060
6,5	19,31	065	20,10	065	19,31	065	20,10	065	24,49	065
7,0	19,31	070	20,10	070	19,31	070	20,10	070	24,49	070
7,5	19,31	075	20,10	075	19,31	075	20,10	075	24,49	075
8,0	19,31	080	20,10	080	19,31	080	20,10	080	24,49	080
8,5	19,31	085	20,10	085	19,31	085	20,10	085	24,49	085
9,0	19,31	090	20,10	090	19,31	090	20,10	090	24,49	090
9,5	19,31	095	20,10	095	19,31	095	20,10	095	24,49	095
10,0	19,31	100	20,10	100	19,31	100	20,10	100	24,49	100
10,5			20,10	105	19,31	105	20,10	105	24,49	105
11,0			20,10	110	19,31	110	20,10	110	24,49	110
11,5			20,10	115	19,31	115	20,10	115	24,49	115
12,0			20,10	120	19,31	120	20,10	120	24,49	120
12,5			20,10	125	19,31	125	20,10	125	24,49	125
13,0			20,10	130	19,31	130	20,10	130	24,49	130
13,5					19,31	135	20,10	135	24,49	135
14,0					19,31	140	20,10	140	24,49	140
14,5					19,31	145	20,10	145	24,49	145
15,0					19,31	150	20,10	150	24,49	150
15,5					19,31	155	20,10	155	24,49	155
16,0					19,31	160	20,10	160	24,49	160
16,5							20,10	165	24,49	165
17,0							20,10	170	24,49	170
17,5							20,10	175	24,49	175
18,0							20,10	180	24,49	180
18,5							20,10	185	24,49	185
19,0							20,10	190	24,49	190
19,5							20,10	195	24,49	195
20,0							20,10	200	24,49	200
20,5									24,49	205
21,0									24,49	210
21,5									24,49	215
22,0									24,49	220
22,5									24,49	225
23,0									24,49	230
23,5									24,49	235
24,0									24,49	240
24,5									24,49	245
25,0									24,49	250
25,5									24,49	255
26,0									24,49	260

Sealing rings for precision collet chucks – PCC

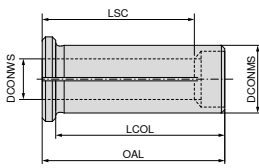
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	BD = 13 OAL = 4 426E (ER16)		BD = 21 OAL = 4 430E (ER25)		BD = 27 OAL = 4 470E (ER32)	
	EUR Y8		EUR Y8		EUR Y8	
		82 630 ...		82 631 ...		82 632 ...
3,0	21,84	03000	21,84	03000	21,84	03000
3,5	21,84	03500	21,84	03500	21,84	03500
4,0	21,84	04000	21,84	04000	21,84	04000
4,5	21,84	04500	21,84	04500	21,84	04500
5,0	21,84	05000	21,84	05000	21,84	05000
5,5	21,84	05500	21,84	05500	21,84	05500
6,0	21,84	06000	21,84	06000	21,84	06000
6,5	21,84	06500	21,84	06500	21,84	06500
7,0	21,84	07000	21,84	07000	21,84	07000
7,5	21,84	07500	21,84	07500	21,84	07500
8,0	21,84	08000	21,84	08000	21,84	08000
8,5	21,84	08500	21,84	08500	21,84	08500
9,0	21,84	09000	21,84	09000	21,84	09000
9,5	21,84	09500	21,84	09500	21,84	09500
10,0	21,84	10000	21,84	10000	21,84	10000
10,5			21,84	10500	21,84	10500
11,0			21,84	11000	21,84	11000
11,5			21,84	11500	21,84	11500
12,0			21,84	12000	21,84	12000
12,5			21,84	12500	21,84	12500
13,0			21,84	13000	21,84	13000
13,5			21,84	13500	21,84	13500
14,0			21,84	14000	21,84	14000
14,5			21,84	14500	21,84	14500
15,0			21,84	15000	21,84	15000
15,5			21,84	15500	21,84	15500
16,0			21,84	16000	21,84	16000
16,5					21,84	16500
17,0					21,84	17000
17,5					21,84	17500
18,0					21,84	18000
18,5					21,84	18500
19,0					21,84	19000
19,5					21,84	19500
20,0					21,84	20000

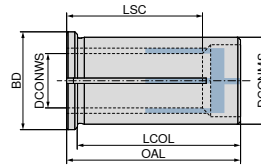
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



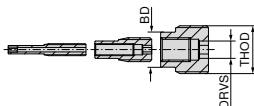
83 609 ...

DCONMS	DCONWS	OAL	LCOL	LSC	EUR	
mm	mm	mm	mm	mm	Y8	
12	3	40	36	29	137,80	103
12	4	40	36	29	137,80	104
12	5	40	36	29	137,80	105
12	6	40	36	36	137,80	106
12	8	40	36	37	137,80	108
20	3	54	50	28	128,60	203
20	4	54	50	28	128,60	204
20	5	54	50	28	128,60	205
20	6	54	50	36	100,30	206
20	8	54	50	37	100,30	208
20	10	54	50	40	100,30	210
20	12	54	50	45	100,30	212
20	14	54	50	45	100,30	214
20	16	54	50	48	100,30	216
25	6	60	56	37	121,50	256
25	8	60	56	37	121,50	258
25	10	60	56	40	121,50	260
25	12	60	56	46	121,50	262
25	14	60	56	47	121,50	264
25	16	60	56	48	121,50	266
25	18	60	56	48	121,50	268
25	20	60	56	50	121,50	270
32	6	64	60	36	128,60	306
32	8	64	60	36	128,60	308
32	10	64	60	40	128,60	310
32	12	64	60	45	128,60	312
32	14	64	60	46	128,60	314
32	16	64	60	48	128,60	316
32	18	64	60	49	128,60	318
32	20	64	60	50	128,60	320
32	25	64	60	56	128,60	325

83 611 ...

DCONMS	DCONWS	BD	OAL	LCOL	LSC	EUR	
mm	mm	mm	mm	mm	mm	Y8	
12	3	16	44	40	29	259,50	10300
12	4	16	44	40	29	259,50	10400
12	5	16	44	40	29	259,50	10500
12	6	16	44	40	36	259,50	10600
12	8	16	44	40	37	259,50	10800
20	3	25	54	50	28	163,40	20300
20	4	25	54	50	28	163,40	20400
20	5	25	54	50	28	163,40	20500
20	6	25	54	50	36	163,40	20600
20	8	25	54	50	37	163,40	20800
20	10	25	54	50	40	163,40	21000
20	12	25	54	50	45	163,40	21200
20	14	25	54	50	45	163,40	21400
20	16	25	54	50	48	163,40	21600
32	6	36	64	60	36	184,60	30600
32	8	36	64	60	36	184,60	30800
32	10	36	64	60	40	184,60	31000
32	12	36	64	60	45	184,60	31200
32	14	36	64	60	46	184,60	31400
32	16	36	64	60	48	184,60	31600
32	18	36	64	60	49	184,60	31800
32	20	36	64	60	50	184,60	32000
32	25	36	64	60	56	184,60	32500

Stop screw for use with reducing sleeves in hydraulic chuck



83 950 ...

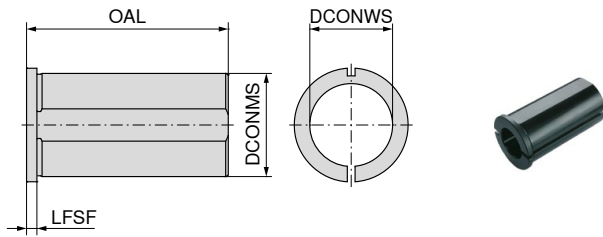
THOD	BD	DRVS	EUR	
	mm	mm	Y7	
M4x0,5x26	2,8	2	10,67	425
M8x1x19	5,8	2,5	10,67	428
M10x1x16	5,8	3	10,67	426
M16x1x16	11,7	5	10,67	427

Adaptation for the use of stop screws for reducing sleeves

DCONMS in mm			
12		83 950 425	83 950 426
20	83 950 425	83 950 428	83 950 427
25	83 950 425	83 950 428	83 950 427
32		83 950 428	83 950 427

Slotted reduction sleeves

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

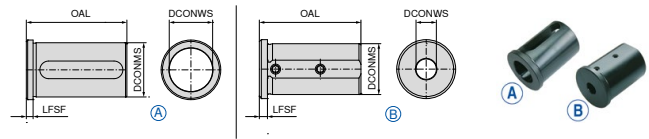


83 271 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	EUR Y8	
20	6	30	4	73,02	206
20	8	30	4	57,18	208
20	10	30	4	57,18	210
20	12	30	4	57,18	212
20	15	30	4	57,18	215
20	16	30	4	57,18	216
25	6	40	4	78,69	256
25	8	40	4	61,25	258
25	10	40	4	61,25	260
25	12	40	4	61,25	262
25	15	40	4	80,17	265
25	16	40	4	61,25	266
25	20	40	4	61,25	270
32	6	50	4	80,56	326
32	8	50	4	61,25	328
32	10	50	4	61,25	330
32	12	50	4	61,25	332
32	15	50	4	61,25	335
32	16	50	4	61,25	336
32	20	50	4	61,25	340
40	10	78	4	73,96	410
40	12	78	4	73,96	412
40	15	78	4	73,96	415
40	16	78	4	73,96	416
40	20	78	4	73,96	420
40	25	78	4	73,96	425
40	32	78	4	73,96	432
50	20	88	4	99,21	520
50	25	88	4	99,21	525
50	32	88	4	99,21	532
50	40	88	4	99,21	540

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	EUR Y8	
25	6	50	4	B	82,34	256
25	8	50	4	B	63,79	258
25	10	50	4	B	63,79	260
25	12	50	4	B	63,79	262
25	14	50	4	A	82,34	264
25	16	50	4	A	63,79	266
25	20	50	4	A	63,79	270
32	6	58	5	B	85,05	326
32	8	58	5	B	85,05	328
32	10	58	5	B	65,85	330
32	12	58	5	B	65,85	332
32	16	58	5	A	65,85	336
32	20	58	5	A	65,85	340
32	25	58	5	A	65,85	345
40	8	58	5	B	103,30	408
40	10	58	5	B	85,05	410
40	12	58	5	B	91,92	412
40	16	58	5	A	91,92	416
40	20	58	5	A	91,92	420
40	25	58	5	A	91,92	425
40	32	58	5	A	91,92	432
50	12	75	5	B	95,73	512
50	16	75	5	A	95,73	516
50	20	75	5	A	95,73	520
50	25	75	5	A	95,73	525
50	32	75	5	A	95,73	532
50	40	75	5	A	95,73	540

Taper wiper

▲ Version made from hard wood with felt inserts



83 715 ...

Adapter	EUR Y8	
MK 1	7,60	001
MK 2	7,86	002
MK 3	10,48	003
MK 4	11,56	004
MK 5	17,04	005
HSK 32	55,71	320
HSK 40	59,06	400
HSK 50	60,02	500
HSK 63	70,15	630
HSK 80	90,57	800
HSK 100	106,40	100
SK 30	12,66	130
SK 40	13,91	140
SK 50	16,61	150

Assembly device for ISO adapters

▲ Aluminium



80 720 ...

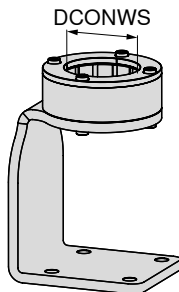
Adapter	EUR Y7	
SK 30	129,60	030
SK 40	129,60	040
SK 50	216,20	050

Assembly fixture for tool holders

▲ gripping by roller


▲ secure clamping

▲ quick assembly, no additional clamping necessary

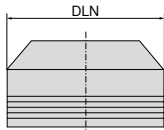


80 722 ...

Holder Type	DCONWS mm	EUR Y7	
HSK 32, PSC 32	32,0	201,00	032
HSK 40, PSC 40	40,0	201,00	040
MAS-BT 30	46,0	166,10	046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50,0	166,10	050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63,0	172,50	063
ISO 7388-1 - SK 50	97,5	321,40	097
HSK 100, MAS-BT 50, ANSI-CAT 50	100,0	321,40	100

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

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



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
426E (ER16)	1 - 10	30	80	36,28	001	45,38	011
430E (ER25)	2 - 16	40	90	40,16	003	49,29	013
470E (ER32)	2 - 20	50	180	42,72	005	51,87	015
472E (ER40)	3 - 26	63	200	58,34	007	70,01	017

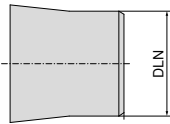
Collet removal aid for Mini lock nut for precision collet chuck – Centro-P



84 950 ...

for collet	EUR Y8	
4004E (ER08)	25,45	070
4008E (ER11)	35,65	072

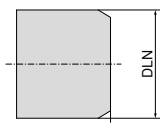
Tapered lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
426E (ER16)	1 - 10	24	80	42,72	031	53,16	033

Mini lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
4004E (ER08)	1 - 5	10	5 - 8	49,26	040		
4008E (ER11)	1 - 7	16	10	42,72	041		
4008E (ER11)	Ø 3,0	16	10	81,67	042 ¹⁾		
4008E (ER11)	Ø 4,0	16	10	81,67	043 ¹⁾		
4008E (ER11)	Ø 5,0	16	10	81,67	044 ¹⁾		
4008E (ER11)	Ø 6,0	16	10	81,67	045 ¹⁾		
4008E (ER11)	Ø 7,0	16	10	81,67	046 ¹⁾		
426E (ER16)	1 - 10	22	30	42,72	034		
426E (ER16)	1 - 10	22	28			53,15	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	EUR Y8	
4004E / ER08 CP mini	10	110,20	050 ¹⁾
4008E / ER 11 CP mini	16	77,76	080 ¹⁾
426E / ER 16 CP / ER 16 mini	22	77,55	026 ¹⁾
426E / ER 16 CP Conical	24	77,76	082 ²⁾
426E / ER 16 CP	30	77,55	027
426E / ER 16 STD	32	77,55	028
430E / ER 25 CP	40	77,76	054
470E / ER 32 CP + STD	50	77,76	056
470E / ER 32 HDC	53	99,28	30200
472E / ER 40 CP + STD	63	85,55	057

- 1) Special key for mini lock nuts
- 2) Key for tapered lock nuts

Torque key



		84 435 ...	
TQX Nm	Square mm	EUR Y8	
5 - 30	9 x 12	188,10	030
10 - 80	9 x 12	221,20	080
20 - 200	14 x 18	224,90	200

Additional roll key device for torque key

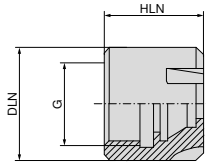
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



		84 950 ...			
for lock nut	DLN mm	TQX Nm	Square mm	EUR Y8	
4008E / ER 11 CP mini	16	5 - 30	9 x 12	77,76	060 ¹⁾
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	77,55	170 ¹⁾
426E / ER 16 CP Conical	24	10 - 80	9 x 12	77,76	061 ²⁾
426E / ER 16 CP	30	20 - 200	14 x 18	77,55	171
426E / ER 16 STD	32	20 - 200	14 x 18	77,55	172
430E / ER 25 CP	40	20 - 200	14 x 18	77,76	065
470E / ER 32 CP + STD	50	20 - 200	14 x 18	77,76	067
470E / ER 32 HDC	53	20 - 200	14 x 18	99,28	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	85,55	068

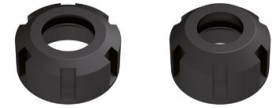
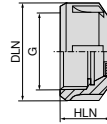
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



					62 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	EUR W7	
4004E (ER08)	M10x0,75	12	11,0	8	32,31	067
4008E (ER11)	M13x0,75	16	12,0	18	31,50	065
426E (ER16)	M19x1	22	18,0	28	30,82	066
428E (ER20)	M24x1	28	19,5	35	34,74	068
430E (ER25)	M30x1	35	21,0	40	37,98	069

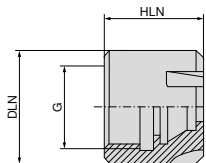
ER Lock nut



for seals

					62 950 ...		83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	EUR W7		EUR Y8		
426E (ER16)	M22x1,5	32	17,0	22,96	054			
426E (ER16)	M22x1,5	32	22,0			39,48	054	
428E (ER20)	M25x1,5	35	23,2			42,17	053	
430E (ER25)	M32x1,5	42	20,0	25,68	055			
430E (ER25)	M32x1,5	42	24,7			51,29	055	
470E (ER32)	M40x1,5	50	22,3	23,93	65600			
470E (ER32)	M40x1,5	50	27,0			54,43	056	
472E (ER40)	M50x1,5	63	25,3	23,26	65700			
472E (ER40)	M50x1,5	63	30,7			64,23	057	

Mini ER lock nut for sealing rings



for seals

					83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	EUR Y8	
426E (ER16-DS)	M19x1	22	22,0	28	46,98	058
428E (ER20-DS)	M24x1	28	23,2	35	57,30	059
430E (ER25-DS)	M30x1	35	24,7	40	52,30	060

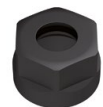
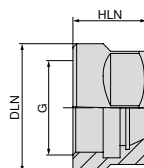
Y clamping key



			83 357 ...	
for lock nut			EUR Y8	
ER 16			20,69	116
ER 20			21,34	12000
ER 25			22,85	125
ER 32			31,09	132
ER 40			34,22	140

ER Lock nut

▲ DRVS = Drive size



ER Mini clamping key

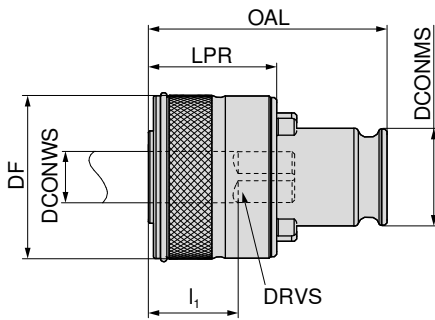


					83 950 ...	
for collet					EUR Y8	
4004E (ER08)					17,98	099
4008E (ER11)					19,61	100
426E (ER16)					20,81	101
428E (ER20)					23,52	102
430E (ER25)					26,37	103

					62 950 ...	
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	EUR W7	
426E (ER16)	M22x1,5	25	28	18,0	22,96	044
428E (ER20)	M25x1,5	30	34	19,5	24,34	045

Quick change tap adapter with overload clutch

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

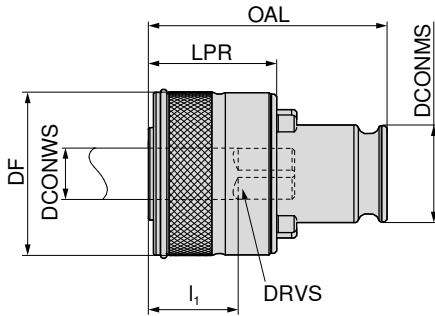


83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR	83 612 ...	
										EUR	Y8
01	2,8	2,1	M2		33	19	46,5	17	25	66,12	100
01	2,8	2,1	M2,5		33	19	46,5	17	25	66,12	101
01	3,5	2,7	M3		33	19	46,5	17	25	66,12	102
01	4,0	3,0	M3,5		33	19	46,5	17	25	66,12	103
01	4,5	3,4	M4		33	19	46,5	17	25	66,12	104
01	6,0	4,9	M4,5		33	19	46,5	17	25	66,12	105
01	6,0	4,9	M5		33	19	46,5	17	25	66,12	106
01	4,5	3,4		M6	33	19	46,5	17	25	66,12	107
01	6,0	4,9	M6		33	19	46,5	17	25	66,12	108
01	5,5	4,3		M7	33	19	46,5	17	25	66,12	109
01	7,0	5,5	M7		33	19	46,5	17	25	66,12	110
01	6,0	4,9		M8	33	19	46,5	17	25	66,12	111
01	8,0	6,2	M8		33	19	46,5	17	25	66,12	112
01	9,0	7,0	M9		33	19	46,5	17	25	66,12	113
01	7,0	5,5		M10	33	19	46,5	17	25	66,12	114
01	10,0	8,0	M10		33	19	46,5	17	25	66,12	115
01	8,0	6,2		M11	33	19	46,5	17	25	66,12	116
01	9,0	7,0		M12	33	19	46,5	17	25	66,12	117
02	6,0	4,9	M4,5 - M6		50	31	69,0	30	34	85,97	200
02	6,0	4,9	M7 (DIN 352)		50	31	69,0	30	34	85,97	201
02	7,0	5,5	M7		50	31	69,0	30	34	85,97	202
02	6,0	4,9		M8	50	31	69,0	30	34	85,97	203
02	8,0	6,2	M8		50	31	69,0	30	34	85,97	204
02	9,0	7,0	M9		50	31	69,0	30	34	85,97	205
02	7,0	5,5		M10	50	31	69,0	30	34	85,97	206
02	10,0	8,0	M10		50	31	69,0	30	34	85,97	207
02	8,0	6,2		M11	50	31	69,0	30	34	85,97	208
02	9,0	7,0		M12	50	31	69,0	30	34	85,97	209
02	11,0	9,0		M14	50	31	69,0	30	34	85,97	210
02	12,0	9,0		M16	50	31	69,0	30	34	85,97	211
02	14,0	11,0		M18	50	31	69,0	30	34	85,97	212
02	16,0	12,0		M20	50	31	69,0	30	34	85,97	213

Quick change tap adapter with overload clutch, with through coolant

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

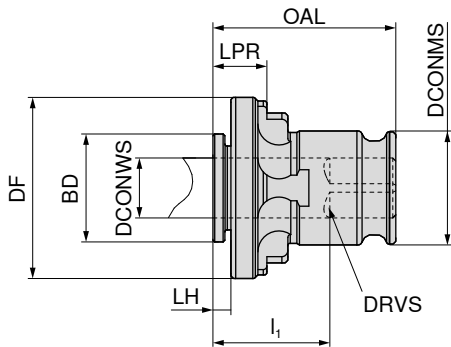


83 616 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	83 616 ...	
										EUR	Y8
01	3,5	2,7	M3	M4,5 - M5	33	19	46,5	17	25	114,10	100
01	4,5	3,4	M4	M6	33	19	46,5	17	25	114,10	102
01	5,5	4,3		M7	33	19	46,5	17	25	114,10	104
01	6,0	4,9	M4,5 - M6	M8	33	19	46,5	17	25	114,10	106
01	7,0	5,5	M7	M10	33	19	46,5	17	25	114,10	108
01	8,0	6,2	M8	M11	33	19	46,5	17	25	114,10	110
01	9,0	7,0	M9	M12	33	19	46,5	17	25	114,10	112
01	10,0	8,0	M10		33	19	46,5	17	25	114,10	114
01	11,0	9,0		M14	33	19	46,5	17	25	114,10	116
02	6,0	4,9	M4,5 - M6	M8	50	31	69,0	30	34	137,80	200
02	7,0	5,5	M7	M10	50	31	69,0	30	34	137,80	202
02	8,0	6,2	M8	M11	50	31	69,0	30	34	137,80	204
02	9,0	7,0	M9	M12	50	31	69,0	30	34	137,80	206
02	10,0	8,0	M10		50	31	69,0	30	34	137,80	208
02	11,0	9,0		M14	50	31	69,0	30	34	137,80	210
02	12,0	9,0	M12	M16	50	31	69,0	30	34	137,80	212
02	14,0	11,0		M18	50	31	69,0	30	34	137,80	214
02	16,0	12,0		M20	50	31	69,0	30	34	137,80	216

Quick change tap adapter

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

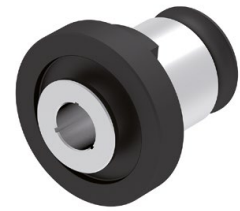
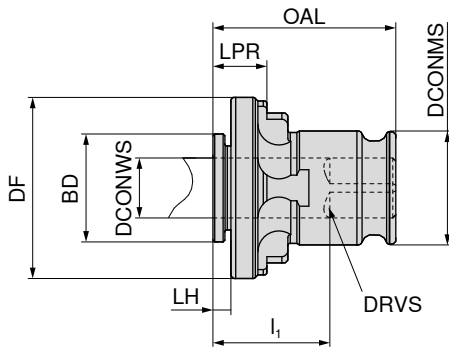


83 610 ...

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 ...	
												EUR	Y8
01	3,5	18	2,7	M3		30,2	19	31	3,5	17	9,5	26,49	100
01	4,5	18	3,4	M4		30,2	19	31	3,5	17	9,5	26,49	101
01	4,0	18	3,0	M3,5		30,2	19	31	3,5	17	9,5	26,49	102
01	2,8	18	2,1	M2 - M2,6		30,2	19	31	3,5	17	9,5	26,49	103
01	5,5	18	4,3		M7	30,2	19	31	3,5	17	9,5	26,49	104
01	6,0	18	4,9	M4,5 - M6	M8	30,2	19	31	3,5	17	9,5	26,49	105
01	7,0	18	5,5	M7	M10	30,2	19	31	3,5	17	9,5	26,49	106
01	8,0	18	6,2	M8	M11	30,2	19	31	3,5	17	9,5	26,49	107
01	9,0	18	7,0	M9	M12	30,2	19	31	3,5	17	9,5	26,49	108
01	10,0	18	8,0	M10		30,2	19	31	3,5	17	9,5	26,49	109
01	11,0	18	9,0		M14	30,2	19	31	3,5	17	9,5	26,49	110
02	6,0	26	4,9	M4,5 - M6		46,3	31	46	2,5	30	11,0	36,61	200
02	7,0	26	5,5	M7		46,3	31	46	2,5	30	11,0	36,61	201
02	8,0	26	6,2	M8		46,3	31	46	2,5	30	11,0	36,61	202
02	9,0	26	7,0	M9		46,3	31	46	2,5	30	11,0	36,61	203
02	10,0	26	8,0	M10		46,3	31	46	2,5	30	11,0	36,61	204
02	11,0	26	9,0		M14	46,3	31	46	2,5	30	11,0	36,61	205
02	12,0	26	9,0		M16	46,3	31	46	2,5	30	11,0	36,61	206
02	14,0	26	11,0		M18	46,3	31	46	2,5	30	11,0	36,61	207
02	16,0	26	12,0		M20	46,3	31	46	2,5	30	11,0	36,61	208
02	18,0	26	14,5		M22 - M24	46,3	31	46	2,5	30	11,0	36,61	209

Quick change tap adapter, with through coolant

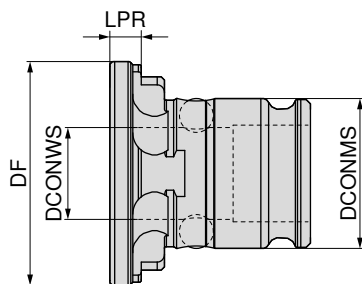
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



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 ...	
												EUR	Y8
01	3,5	18	2,7		M4,5 - M5	30,2	19	31	3,5	17	9,5	51,38	100
01	4,5	18	3,4	M4	M6	30,2	19	31	3,5	17	9,5	51,38	102
01	5,5	18	4,3		M7	30,2	19	31	3,5	17	9,5	51,38	104
01	6,0	18	4,9	M4,5 - M6	M8	30,2	19	31	3,5	17	9,5	51,38	106
01	7,0	18	5,5	M7	M10	30,2	19	31	3,5	17	9,5	51,38	108
01	8,0	18	6,2	M8	M11	30,2	19	31	3,5	17	9,5	51,38	110
01	9,0	18	7,0	M9	M12	30,2	19	31	3,5	17	9,5	51,38	112
01	10,0	18	8,0	M10		30,2	19	31	3,5	17	9,5	51,38	114
02	6,0	26	4,9	M4,5 - M6	M8	46,3	31	46	2,5	30	11,0	67,86	200
02	7,0	26	5,5	M7	M10	46,3	31	46	2,5	30	11,0	67,86	202
02	8,0	26	6,2	M8	M11	46,3	31	46	2,5	30	11,0	67,86	204
02	9,0	26	7,0	M9	M12	46,3	31	46	2,5	30	11,0	67,86	206
02	10,0	26	8,0	M10		46,3	31	46	2,5	30	11,0	67,86	208
02	11,0	26	9,0		M14	46,3	31	46	2,5	30	11,0	67,86	210
02	12,0	26	9,0	M12	M16	46,3	31	46	2,5	30	11,0	67,86	212
02	14,0	26	11,0		M18	46,3	31	46	2,5	30	11,0	67,86	214
02	16,0	26	12,0		M20	46,3	31	46	2,5	30	11,0	67,86	216

Reducing adapter for quick change adapters

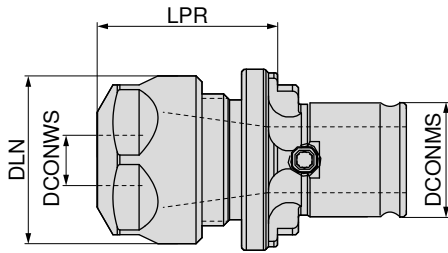
- ▲ Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.



SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	83 624 ...	
					EUR	Y8
02	46	31	19	8,5	87,60	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet
01	1 - 10	28	19	29,5	ER 16
02	2 - 16	42	31	38,5	ER 25

83 618 ...

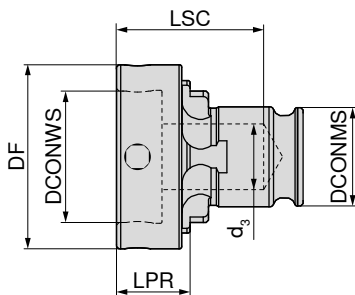
EUR
Y8

110,90 010 ¹⁾
156,80 016

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 ...

EUR
Y8

122,50 116
122,50 120
122,50 121
122,50 125
122,50 138
122,50 130
122,50 139

171,70 220
171,70 221
171,70 225
171,70 238
171,70 230
171,70 239
171,70 245
171,70 246

MultiChange – Spanner



DRVS mm	TQX Nm	84 357 ... EUR Y8	
6	5	8,73	006
8	12,5	8,96	008
10	15	10,07	010
13	20	10,89	013
16	25	14,61	016
19	25	19,09	019 ¹⁾
21	25	20,97	021 ¹⁾
24	25	22,02	024 ¹⁾

1) only for MultiChange reamers

MultiChange – Spanner Head



DRVS mm	TQX Nm	Square mm	84 358 ... EUR Y8	
6	5	9 x 12	62,86	006
8	12,5	9 x 12	62,86	008
10	15	9 x 12	62,86	010
13	20	9 x 12	62,86	013
16	25	9 x 12	62,86	016
19	25	9 x 12	131,30	190
19	25	14 x 18	111,70	019 ¹⁾
21	25	9 x 12	184,30	210
21	25	14 x 18	136,70	021 ¹⁾
24	25	9 x 12	184,30	240
24	25	14 x 18	136,70	024 ¹⁾

1) only for MultiChange reamers



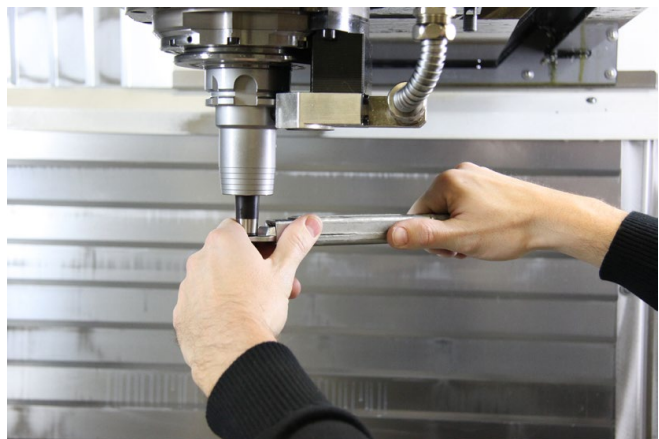
Suitable torque keys can be found on → **Page 286.**

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



Important for the sensitive tuning is an additional placing of the hand on the exchange milling head. This means the torque can be better maintained.

TORX® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			EUR Y7	
T05	35	0,5	4,98	082
T06	35	0,9	4,91	083
T07	35	1,7	4,91	084
T08	40	2,6	4,91	085
T09	40	3,4	5,34	086
T10	40	4,5	5,34	087
T15	45	7,7	5,74	088
T20	45	12,7	6,27	089

TORX® Screwdriver sets



Size	80 950 ...	
	EUR Y7	
T06, T07, T08, T09, T10, T15, T20	48,79	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			EUR Y7	
T05-IP	35	0,5	7,81	057
T06-IP	35	0,9	7,81	058
T07-IP	35	1,7	7,74	059
T08-IP	40	2,6	7,61	060
T09-IP	40	3,4	8,19	061
T10-IP	40	4,5	8,19	062
T15-IP	45	7,7	8,70	063
T20-IP	45	12,7	9,65	064

TORX PLUS® Screwdriver sets



Size	80 950 ...	
	EUR Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	70,14	091

Clamping key



DRVS mm	TQX Nm	80 397 ...	
		EUR Y7	
2	1,9	5,04	020
2,5	3,8	5,12	025
3	6,6	4,97	030
4	16	5,04	040
5	30	5,46	050
6	52	6,35	060
8	120	7,78	080
10	220	12,97	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



Size	80 397 ...	
	EUR Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	49,06	99900

TORX® Screwdriver



Size	LB mm	80 950 ...	
		EUR Y7	
T06	60	8,20	100
T07	60	8,20	101
T08	60	8,20	102
T09	60	8,86	103
T10	80	9,08	104
T15	80	9,08	105
T20	100	9,69	106
T25	100	10,23	107
T30	115	11,34	092

TORX PLUS® Screwdriver



Size	LB mm	80 950 ...	
		EUR Y7	
T06-IP	60	10,45	116
T07-IP	60	10,26	117
T08-IP	60	8,11	039
T09-IP	60	11,13	118
T10-IP	80	11,50	119
T15-IP	80	11,79	120
T20-IP	100	12,62	121
T25-IP	100	13,25	122

TORX® MagicSpring®



Size	LB mm	80 950 ...	
		EUR Y7	
MS T06	60	10,87	108
MS T07	60	10,05	109
MS T08	60	10,05	110
MS T09	60	11,45	111
MS T10	80	11,78	112
MS T15	80	11,96	113
MS T20	100	12,83	114
MS T25	100	13,18	115
MS T30	100	15,60	131

TORX PLUS® MagicSpring®



Size	LB mm	80 950 ...	
		EUR Y7	
MS T06-IP	60	13,39	123
MS T07-IP	60	13,18	124
MS T08-IP	60	13,16	125
MS T09-IP	60	14,50	126
MS T10-IP	80	14,91	127
MS T15-IP	80	15,33	128
MS T20-IP	100	16,17	129



A stainless steel spring holds MagicSpring® Torx® and Torx Plus® screws in place.



TorqueFix® Handle

- ▲ with fixed torque moment
- ▲ Standard: EN ISO 6798, BS EN 26789, ASME B107.14M
- ▲ Accuracy: ± 6 %, based on national standards
- ▲ Bits to be clamped in the universal holder only



TQX Nm	EUR Y7	80 021 ...
0,4	126,30	00400
0,5	126,30	00500
0,6	126,30	006
0,7	110,80	007
0,8	113,40	008
0,9	126,30	00900
1	113,40	010
1,1	125,10	01100
1,2	125,10	012
1,5	125,10	01500
1,6	125,10	016
2	125,10	020
2,5	125,10	02500
3	132,20	030
3,2	132,20	032
3,8	132,20	03800
4	132,20	040
5	132,20	050
5,5	147,60	055
6	147,60	060
7,2	147,60	07200

easyTorque® Handle

- ▲ with a fixed torque
- ▲ Accuracy: ± 10%
- ▲ Bits can only be clamped in the universal holder



TQX Nm	DRVS mm	BD mm	OAL mm	WT kg	EUR Y7	80 024 ...
0,5	4	34	130	0,950	51,21	00500
0,6	4	34	130	0,950	51,21	00600
0,9	4	34	130	0,940	51,21	00900
1,1	4	34	130	0,101	51,21	01100
1,2	4	34	130	0,990	51,21	01200
1,4	4	34	130	0,101	51,21	01400
2,0	4	34	130	0,101	53,51	02000
2,5	4	34	130	0,106	53,51	02500
3,0	4	34	130	0,104	53,51	03000
3,8	4	34	130	0,105	53,51	03800
4,0	4	34	130	0,105	54,84	04000
4,5	4	34	130	0,105	54,84	04500
5,0	4	34	130	0,105	54,84	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



TQX Nm	DRVS mm	EUR Y7	80 392 ...
0,5	4	50,24	00500
0,6	4	50,24	00600
0,9	4	50,24	00900
1,1	4	50,24	01100
1,2	4	50,24	01200
1,4	4	50,24	01400
2,0	4	50,24	02000
2,5	4	50,24	02500
3,0	4	50,24	03000
3,8	4	50,24	03800
4,0	4	50,24	04000

TorqueVario®-S

- ▲ Patented handle

Scope of supply:
incl. Torque-Setter setting tool



TQX Nm	EUR Y7	80 950 ...
0,4 - 1,0	164,40	046
0,5 - 2,0	153,30	191
0,8 - 5,0	165,90	192
2,0 - 7,0	170,10	193

Universal holder for Bits

- ▲ 162 mm long



for	EUR Y7	80 950 ...
DIN3126-C/E 6,3-1/4"	25,04	014

Interchangeable blade for hex drive



Size	TQX Nm	short 75 mm		long 175 mm	
		80 393 ... EUR Y7		80 950 ... EUR Y7	
SW1,5	0,9	4,11	01500	7,21	151
SW2	1,8	4,11	02000	7,21	152
SW2,5	3,8	4,11	02500	7,21	153
SW3	5,5	4,11	03000	7,21	154
SW4	8,0	4,11	04000	7,21	155

Replaceable Blade for TORX®



Size	TQX Nm	short 75 mm		long 175 mm	
		80 394 ... EUR Y7		80 950 ... EUR Y7	
T05	0,4			7,60	048
T06	0,6	4,11	00600	6,13	031
T07	0,9	4,11	00700	6,13	032
T08	1,3	4,11	00800	6,13	033
T09	2,5	4,11	00900	6,13	034
T10	3,8	4,11	01000	6,13	035
T15	5,5	4,11	01500	6,13	036
T20	8,0	4,11	02000	6,13	037
T25	8,0	4,11	02500	6,13	038

Replaceable Blade for TORX PLUS®



Size	TQX Nm	long 175 mm	
		80 950 ... EUR Y7	
T05-IP	0,5	6,78	049
T06-IP	0,8	6,78	050
T07-IP	1,3	6,78	051
T08-IP	2,0	6,13	043
T09-IP	3,0	6,78	052
T10-IP	4,5	6,78	053
T15-IP	6,6	6,78	054
T20-IP	8,0	6,78	055
T25-IP	8,0	6,78	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® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		EUR Y7	
T06	0,9	1,18	015
T07	1,7	1,18	016
T08	2,6	1,18	017
T09	3,4	1,18	018
T10	4,5	1,18	019
T15	7,7	1,18	020
T20	12,7	1,18	021
T25	19	1,18	022
T30	37,4	1,23	093

TORX® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		EUR Y7	
T06	0,9	4,31	023
T07	1,7	4,31	024
T08	2,6	4,31	025
T09	3,4	4,31	026
T10	4,5	4,31	027
T15	7,7	4,31	028
T20	12,7	4,31	029
T25	19	4,31	030
T30	37,4	5,78	094

TORX PLUS® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		EUR Y7	
T08-IP	2,6	3,49	068
T09-IP	3,4	3,49	069
T10-IP	4,5	3,49	070
T15-IP	7,7	3,49	071
T20-IP	12,7	3,49	072
T25-IP	19	3,49	073

TORX PLUS® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		EUR Y7	
T08-IP	2,6	6,35	040
T09-IP	3,4	6,78	077
T10-IP	4,5	6,78	078
T15-IP	7,7	6,78	079
T20-IP	12,7	6,78	080
T25-IP	19	6,78	081

Bit – hexagonal (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	80 398 ...	
	EUR Y7	
SW1,5	6,57	01500
SW2	6,57	02000
SW2,5	6,57	02500
SW3	5,97	03000
SW3,5	6,64	03500
SW4	4,90	04000
SW4,5	6,64	04500
SW5	5,97	05000
SW6	4,90	06000
SW8	10,33	08000

TORX PLUS® Allen key



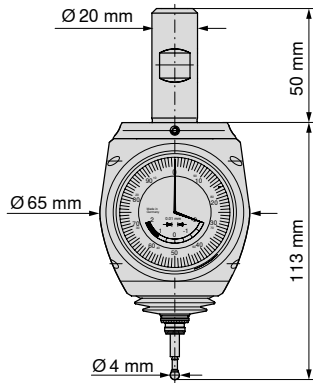
Size	OAL mm	80 951 ...	
		EUR Y7	
T07-IP	44	7,63	00700
T08-IP	47	7,63	00800
T09-IP	51	7,63	00900
T10-IP	54	7,80	01000
T15-IP	58	7,88	01500
T20-IP	62	8,38	02000
T25-IP	67	8,83	02500
T27-IP	73	9,17	02700
T30-IP	79	9,88	03000
T40-IP	88	11,28	04000

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 ...

EUR
XX

449,40 100

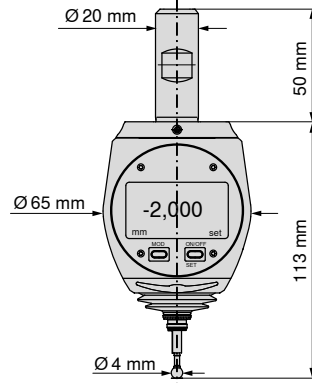
Universal-3D-Tester

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 ...

EUR
XX

902,50 100

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 ...

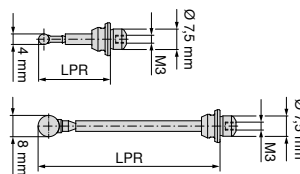
EUR
Y7

169,00 018

OAH
mm
100

Stylus for 3D-tester

- ▲ With movement of 2 mm beyond the zero point a break-off ceramic insert prevents damage to the unit
- ▲ If the stylus is broken remove and insert a new stylus
- ▲ Check concentricity and adjust if necessary



85 290 ...

EUR
XX

35,05 102
56,57 104

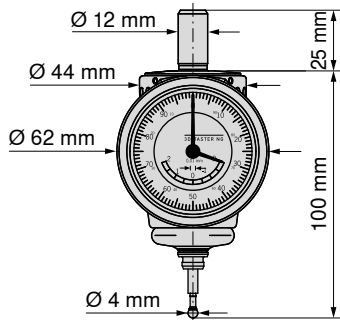
LPR
mm
25
65

Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

EUR
XX

449,40 100

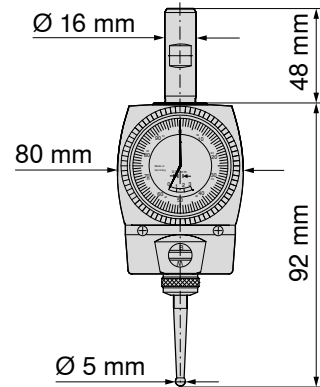
Universal 3D-Tester HQ

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 ...

EUR
XX

594,40 100

Centre finder



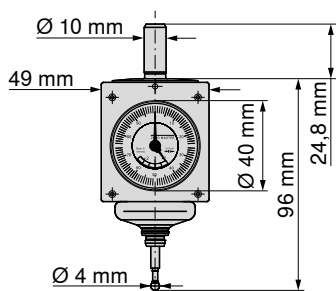
Range with probe tip \varnothing 5 mm holes
 \varnothing 6–125 mm, shaft \varnothing 0–125 mm

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



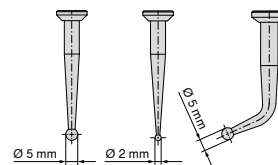
85 295 ...

EUR
XX

449,40 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

EUR
XX

Straight stylus / Ball- \varnothing 2 mm

55,20 102

Straight stylus / Ball- \varnothing 5 mm

41,43 104

Curved stylus / Ball \varnothing 5 mm

53,45 106

Telescopic rod for Centre Finder



DCONMS mm	OAL mm
6	478

85 299 ...

EUR
XX

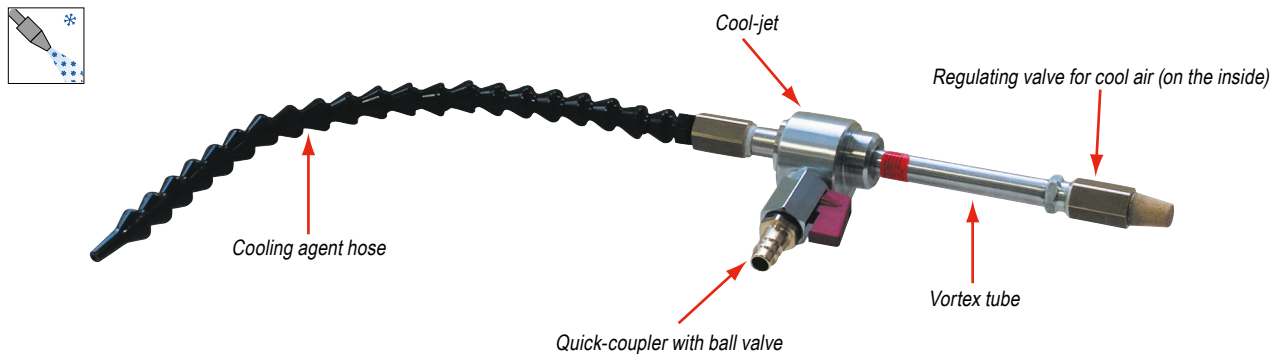
18,52 111

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.



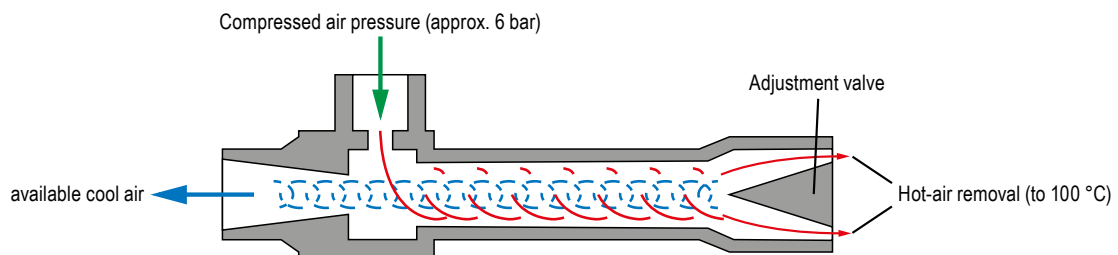
Cool-jet	81 900 ...	EUR	81 900 ...
3–7 bar air pressure, at -46 °C	Y7	753,00	100
Accessories		EUR	101
Magnetic plate Ø 80 mm without clamping arm		40,01	101
Spare tube, length 300 mm		40,01	104
Jet silencer (air filter)		7,79	105
Clamping arm, length 75 mm		118,30	106
Complete set (with magnetic set and clamping arm), weight 0,4 kg		154,20	107

Technical description – operating instruction


The principle of the cold-air nozzle is based on the use of vortex tubes. Ordinary air is divided into cold and hot air streams.

Without additional power supply or moving parts the cool air nozzle can produce **cooling performance of up to 733 W** or **Temperatures of approx. -42 °C** are produced and requires only operating pressure air of approx. 6 bar.

A water trap or service unit should be mounted. A regulating valve in the hot-air outlet regulates the temperatures and currents



1 Utilizable air temperature measured at the effective discharge of the vortex tube (not the nozzle end)

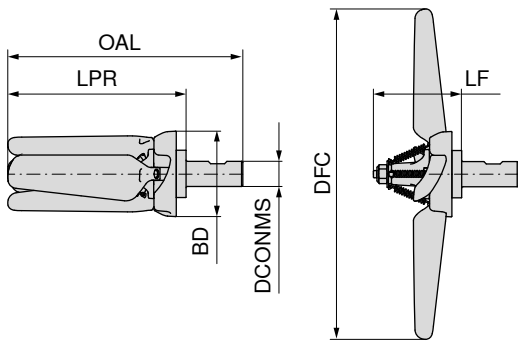
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

Entrance pressure	3 bar	-31 °C	up to	-6 °C
	4 bar	-35 °C	up to	-8 °C
	5 bar	-39 °C	up to	-10 °C
	6 bar	-42 °C	up to	-11 °C
	7 bar	-46 °C	up to	-13 °C

1 In order to operate the regulating valve, the silencer must be unscrewed – there is a burn danger! The valve of the hot air side can reach up to 100 °C: Before contact, allow cooling!

Cleaning propeller

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



IK central

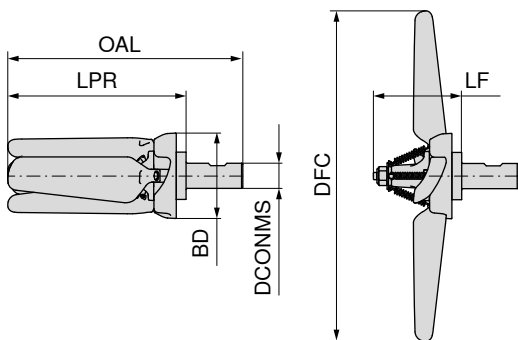
80 399 ...

EUR
Y7
221,20 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

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



IK central

80 399 ...

EUR
Y7
217,00 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	EUR	Y7	EUR	Y7
Large	27,13	30100	104,80	30200
Small	26,08	36000	100,70	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

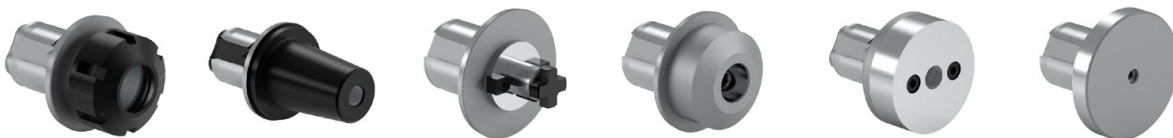
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

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



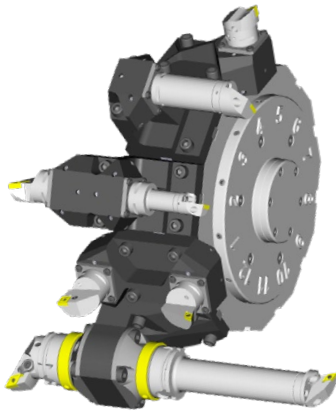
System Preci-Flex® – The stable solution for long tool life and high surface quality

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.



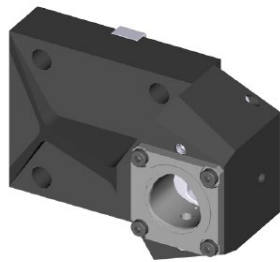
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and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

Quick-Change

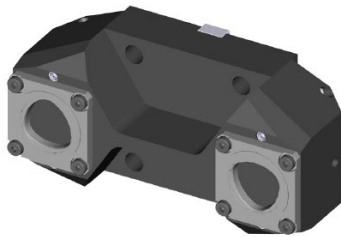


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

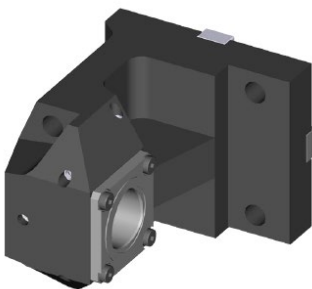
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



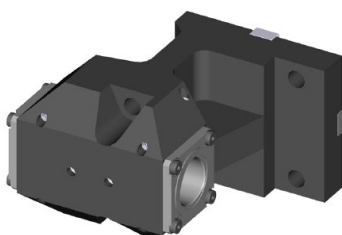
Tool holder single and straight



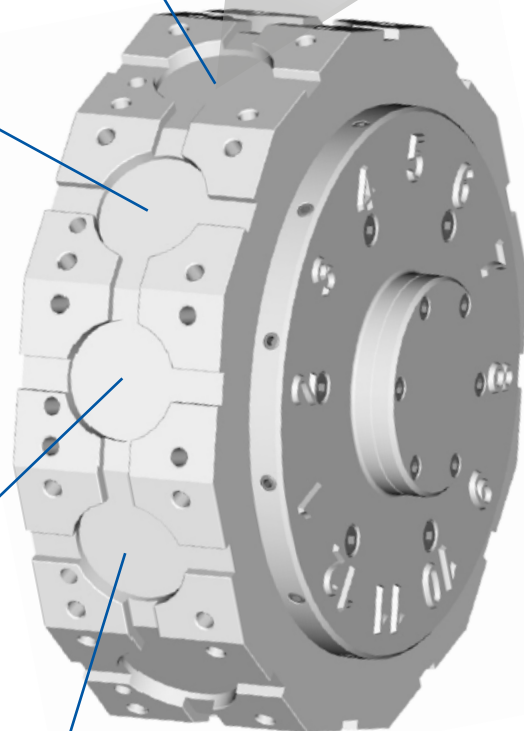
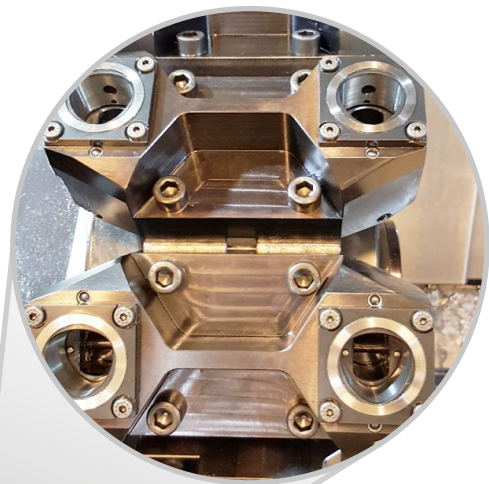
Tool holder double and straight



Single angle tool holder



Double angle tool holder

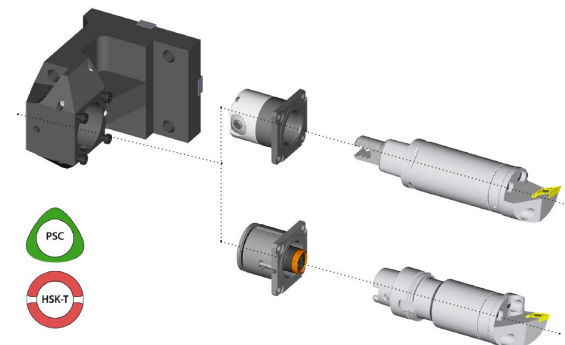


Revolverdisk BMT/VDI/...

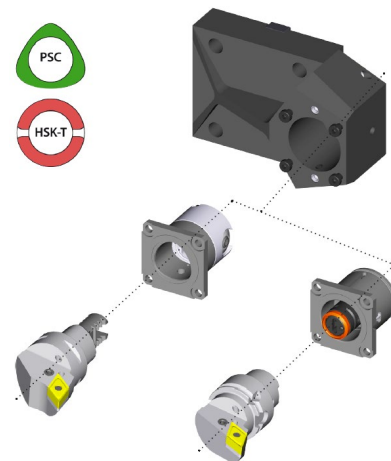
HSK/PSC clamping units

➤ 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.

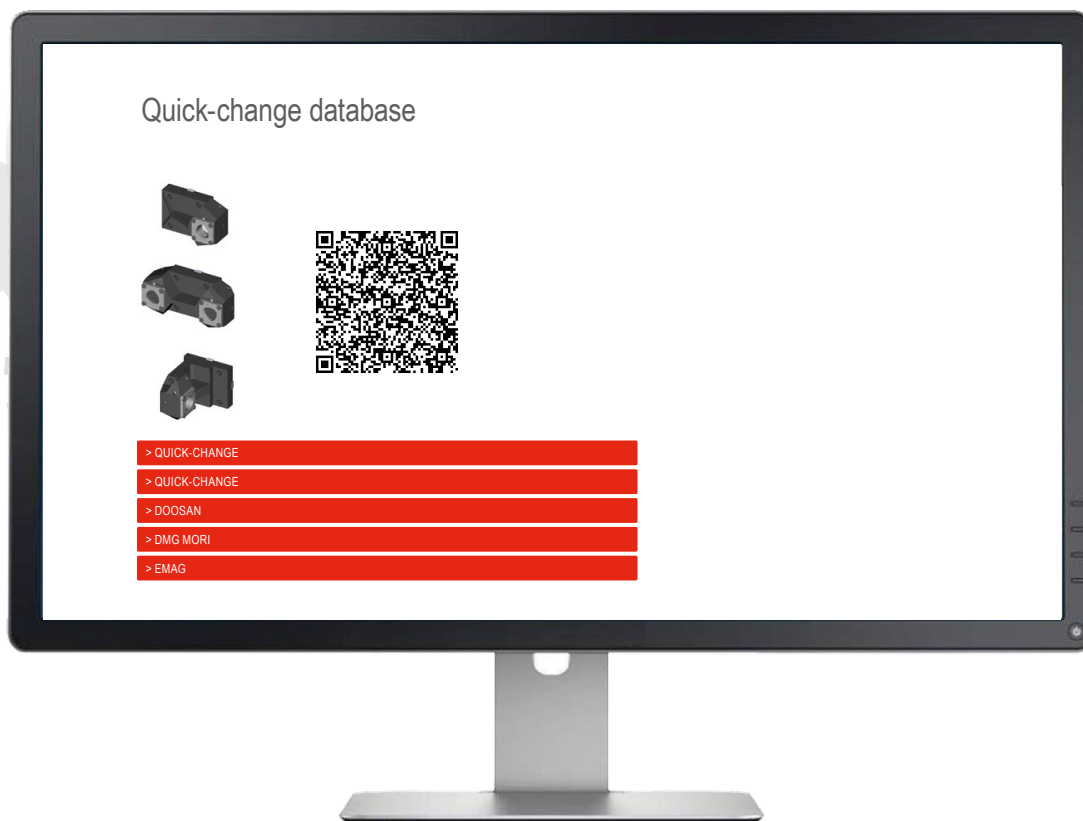


➤ The toolholders permit the flexibility to be adapted to the customer's requirements.



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.



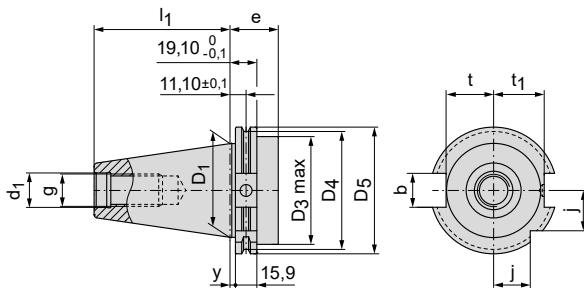
Information on enquiry process

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/ie/download-quickchange

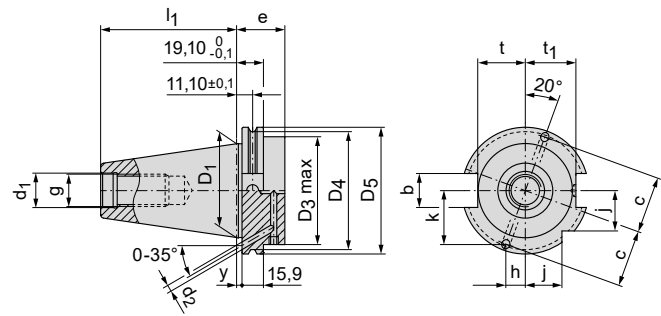
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

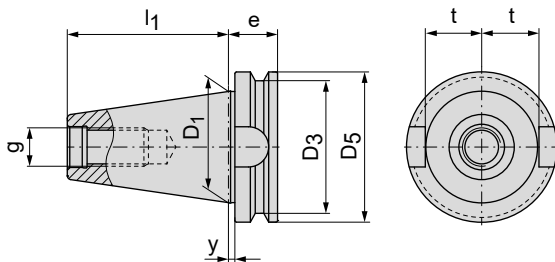


ISO 7388-1 – 871 Form B



	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.

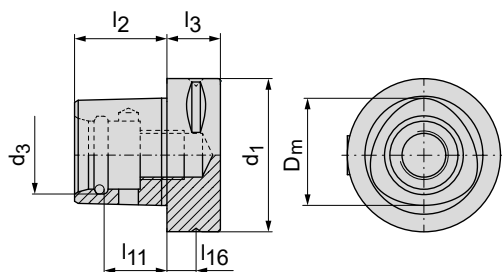
SK / BT 40 to 20,000 1/min.

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

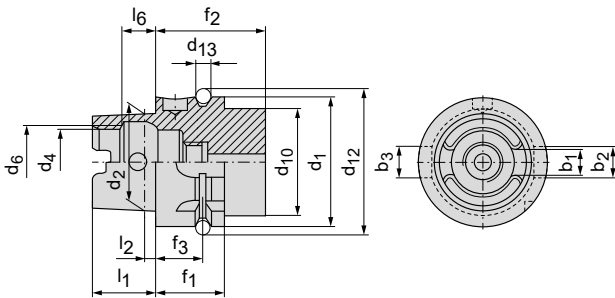
ISO 26623-1



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

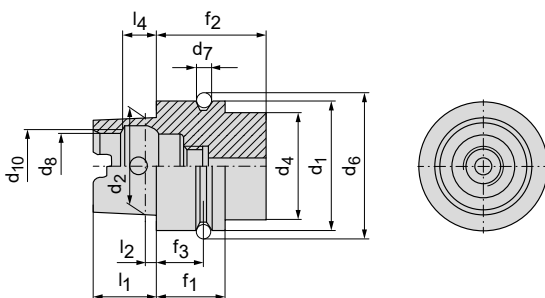
ISO 12164 – HSK-A

- ▲ 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



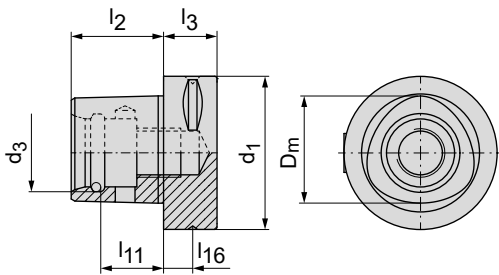
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

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

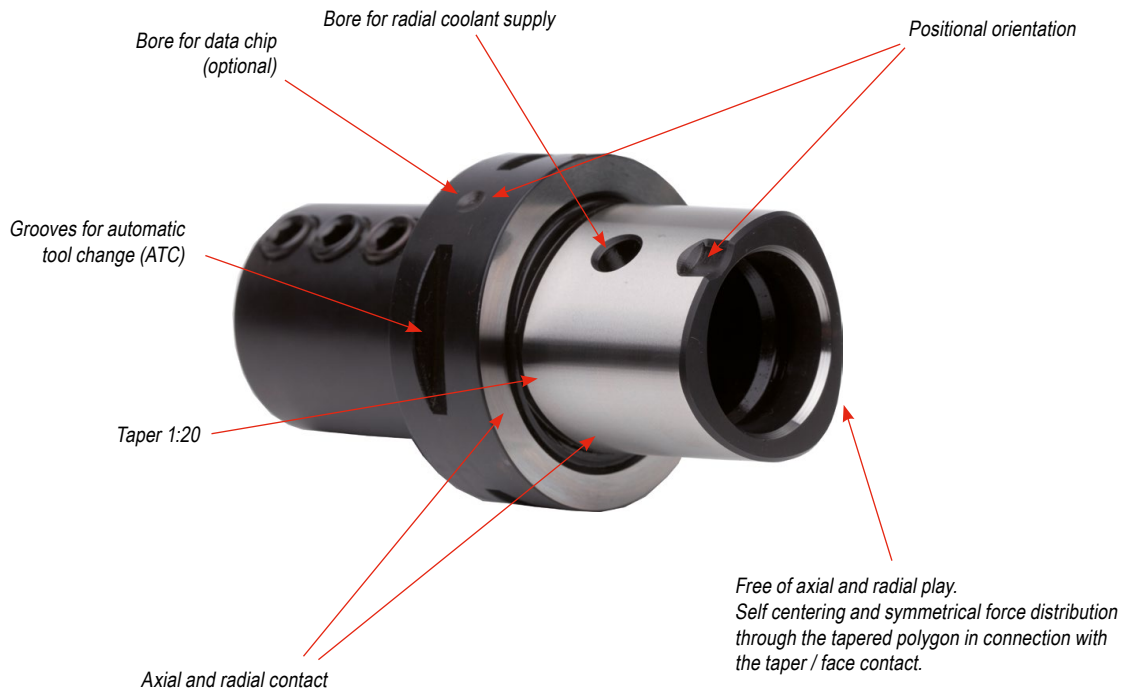
ISO 26623-1



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.

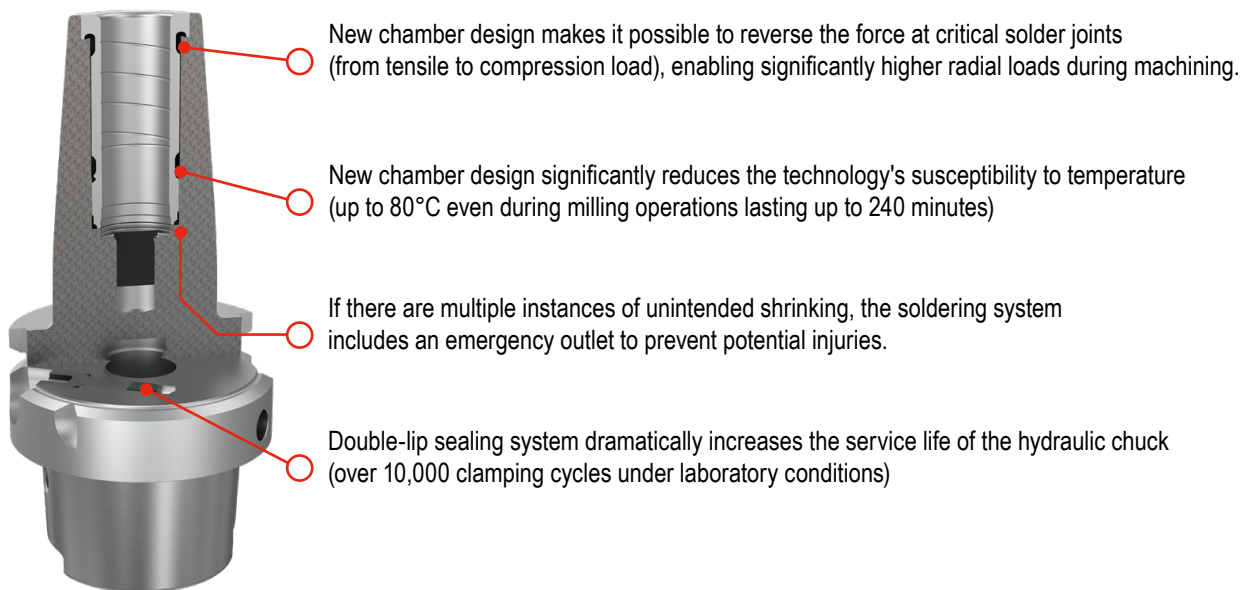
HyPower / HyTens

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	▽▽▽	▽▽	▽	

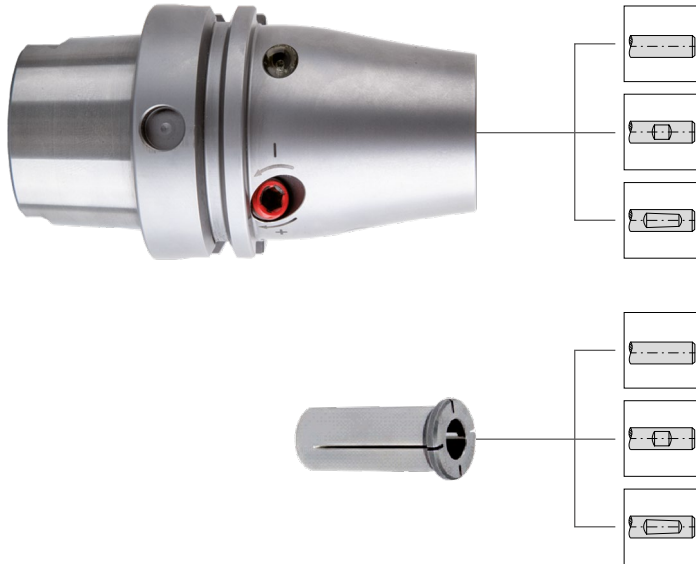
Maximum performance and productivity



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

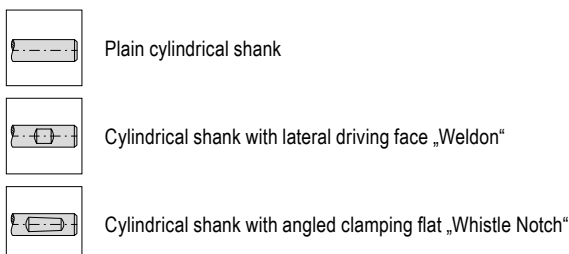
This comparison shows the higher retention forces of the Milling Chuck (**HyPower**). Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. **HyPower** now offers this process reliability.

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

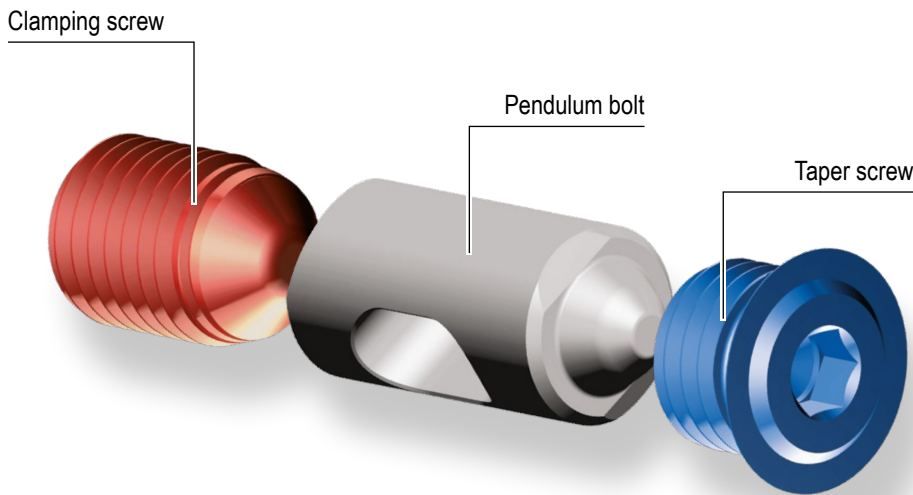


Measurement of the specified clamping forces was performed exclusively statically. The actual clamping forces that arise during machining may deviate due to various influences (vibrations, oscillations, machining situation).

Technical information – ABS

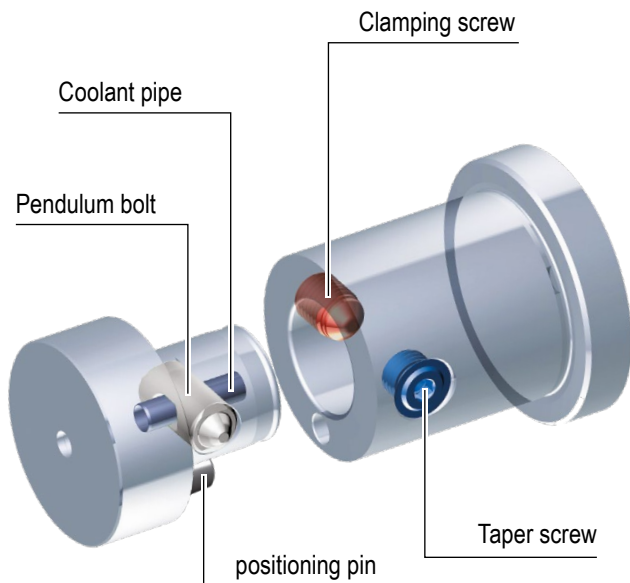
Even better connected

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

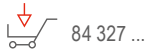
- ▲ Improved force transmission
- ▲ Optimum machining result
- ▲ Higher cutting values possible
- ▲ Less noise pollution in production
- ▲ System fully compatible upwards and downwards
- ▲ Suitable for ABS, ABS N and ABS T



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.