

New products for machining technicians

NEW High pressure chuck



HyPower – Rough

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



HyPower – Access 4,5°

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

NEW PSC parting blade holders and square shank holders with DirectCooling



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

NEW VDI holders with DirectCooling



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

NEW Shell mill adapter



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

NEW Torsional vibration dampers with ABS connection



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

NEW BMT holders with DirectCooling



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



Solid drilling and bore machining

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

Threading

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

Turning

9 Turning Tools

10 Multifunctional Tools –
EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples

Table of contents

Symbol explanation	4
Toolfinder	
Machine interface	5
Rotating toolholders	6+7
Adapters, stationary	
– HSK-T and PSC tool holders	8+9
– VDI adapters for star turrets	10
– VDI adapters for disc turrets	11
– BMT tool holders	12
Accessories	13
Product programme	
Adapters and accessories	14–302
Technical Information	
Driven Tools	303+304
Quick-Change	305+306
Technical data – ISO 7388-1 / ISO 7388-2 / ISO 26623-1	307
Technical data – ISO 12164	308
Technical Information for Polygon Shank Adapters	309
HyPower / HyTens	310–312
Static clamping moments / Centro-P and HDC ER precision collet chucks	313
Technical information – ABS	314
Compensation holder DAH	315

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.

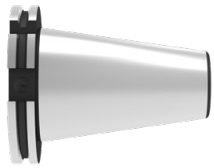
Symbol explanation

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		
	specially matched adapter for ThermoGrip® shrinking process		Collet description ▲ Type version ▲ Radial run-out accuracy

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders

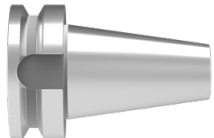


- ▲ SK 30
- ▲ SK 40
- ▲ SK 50
- ▲ SK-FC 50

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

ISO 7388-2 – MAS-BT taper shank

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

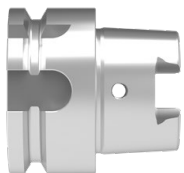


- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

▶	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

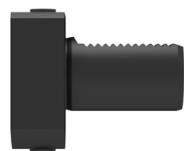
▶	Toolfinder – Adapters, rotating	6+7
	Product programme	157–176

PSC, stationary

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

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

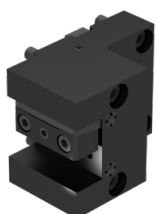
ISO 10889 – VDI tool holders with cylindrical shank



- ▲ 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 – 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			
<div style="display: flex; justify-content: space-around; align-items: center;">         </div>										
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 adapters – HSK-T and PSC tool holders





Toolholders for negative turning inserts


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


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

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




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


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






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


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


Toolholders for positive turning inserts


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







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


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

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

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

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

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

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



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

HOLDERS FOR GROOVING AND THREADING INSERTS

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

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

TOOLHOLDERS FOR THREADING INSERTS

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

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

BORING BARS FOR NEGATIVE INSERTS

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

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

BORING BARS FOR POSITIVE INSERTS

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

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

BASIC HOLDER

Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°		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

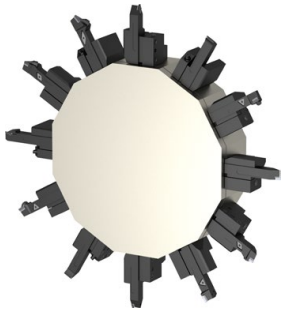
PARTING BLADE HOLDERS

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

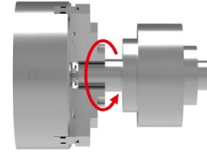
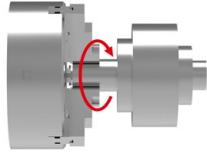
ACCESSORIES





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

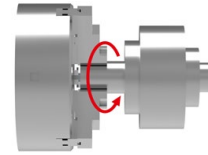
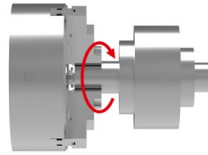
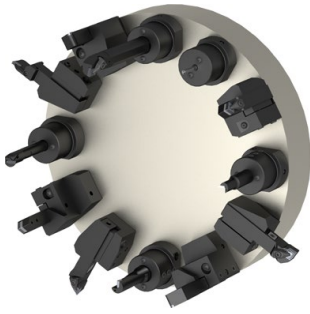
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 205–207 209–212	B2/B3/B6/B7/C1/C2/D1/D2 205–207 209–212
 Parting blade holders / DirectCooling	double – overhead 208 216+217	double 208 216+217
 Adapter VDI to VDI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











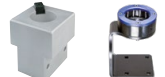











Accessories

 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				Mori/Seiki – BMT 40					
	Axial square section tool holder	Left-hand		227		Axial square section tool holder	Left-hand		235
	Square section adapter	Left-hand		227		Square section adapter	Left-hand		235
	Square multiple tool holder			228		Square multiple tool holder			236
	Combi tool holder	with thro' coolant		228		Combi tool holder	with thro' coolant		236
Doosan – BMT 55				Mori/Seiki – BMT 60					
	Axial square section tool holder	Left-hand		229		Axial square section tool holder	Left-hand		237
	Square section adapter	Left-hand		229		Square section adapter	Left-hand		237
	Square multiple tool holder			230		Square multiple tool holder			238
	Boring bar holder	with thro' coolant		230		Combi tool holder	with thro' coolant		238
EMAG – BMT 55				Mazak – BMT 68					
	Axial square section tool holder	Left-hand		231		Axial square section tool holder	Left-hand		239
	Square section adapter	Left-hand		231		Square section adapter	Left-hand		239
	Boring bar holder	with thro' coolant		232		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

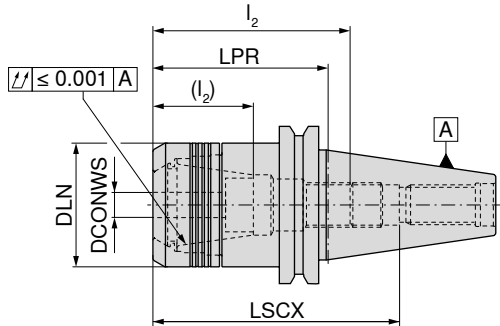
Type		Page No.	Type		Page No.	
Pull stud	SK	58–60	Spare parts for VDI		264–266	
	MAS-BT	110+111		Spare parts driven tools		267
	PSC	176			Quick change applications	
Coolant pipe/key	HSK-A	156	Reduction sleeve and reducing bushings			282+283
	PSC	176		3D tester and zero setting device		299+300
Drill chuck 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	
							£		£	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	282.49	016		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	233.38	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	287.41	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			290.62	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			320.75	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			263.93	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	215.66	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	287.41	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			315.85	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			332.75	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	283.72	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	201.27	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	287.41	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			315.85	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			332.75	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	323.20	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	538.66	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			479.16	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			540.60	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			474.95	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			880.56	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			484.79	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			401.87	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			494.17	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			567.26	26900

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

→ Transmittable torque moments, Page 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

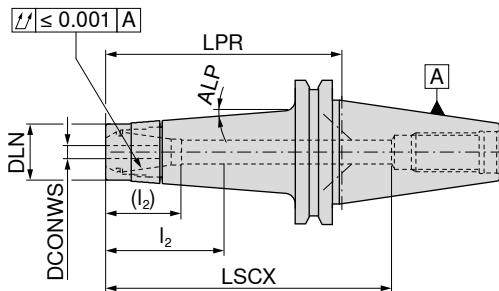
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	92.42 011	68.64 001	57.33 341	38.40 337
430E (ER25)	103.01 013	76.26 003	40.33 432	28.76 431
470E (ER32)	110.15 015	83.89 005	34.06 402	24.81 401
472E (ER40)	150.65 017	122.04 007		34.77 400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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







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

84 417 ...







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

→ Transmittable torque moments, Page 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

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

Accessories

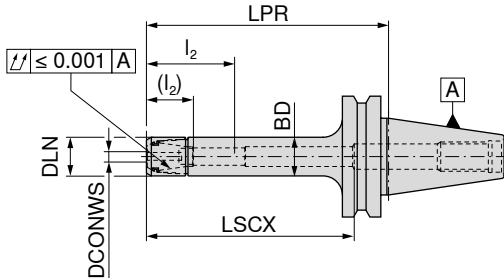
					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-275, 279	→ 280	→ 286	→ 286	→ 58, 60	→ 284

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



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

84 412 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	£	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	294.43	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	303.86	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	392.47	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	409.82	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	294.43	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	294.43	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	392.47	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	392.47	510

→ Transmittable torque moments, Page 313

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

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

Accessories

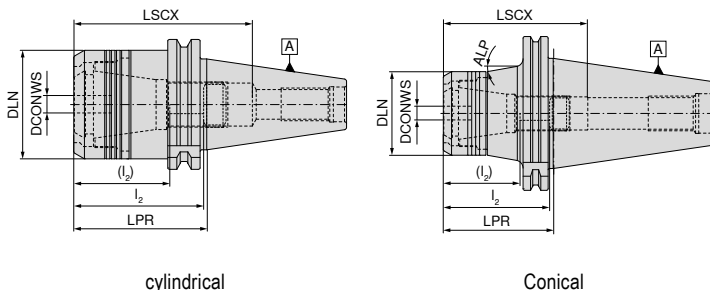
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-275, 279	→ 280	→ 285	→ 286	→ 286	→ 58, 60	→ 284

ER precision collet chuck – HDC

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

Scope of supply:

Base body including lock nut, without backstop screw



AD
G 6,3 n_{max} 18000

cylindrical



AD
G 6,3 n_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet
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 ...
£ Y8	£ Y8
393.28 12079	632.13 12078 738.30 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	127.88 30100	34.06 402	24.81 401

Accessories

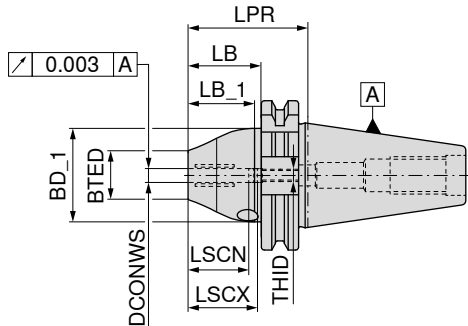
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 58, 60	→ 284

HyPower – Rough

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 254 ...

£
Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	£	
SK 40	6	50.0	26	42	27.1	30.9	37	27	M5	658.80	10679
SK 40	8	50.0	28	42	27.1	30.9	37	27	M6	658.80	10879
SK 40	10	50.0	30	42	27.1	30.9	41	31	M8x1	658.80	11079
SK 40	12	50.0	32	49	27.1	30.9	46	36	M10x1	658.80	11279
SK 40	16	64.5	38	49	41.6	45.4	49	39	M12x1	658.80	11679
SK 40	20	64.5	38	49	41.6	45.4	51	41	M16x1	658.80	12079

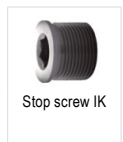
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts		£		£		£			
DCONWS		Y7		Y8		Y7			
6	SW5	7.73	050	M10x12	12.96	55000	M5x12,5 - SW2,5	23.98	418
8	SW5	7.73	050	M10x12	12.96	55000	M6x12,5 - SW3	23.98	419
10	SW5	7.73	050	M10x12	12.96	55000	M8x1x13,5 - SW3	23.98	420
12	SW5	7.73	050	M10x12	12.96	55000	M10x1x13,5 - SW5	23.98	421
16	SW5	7.73	050	M10x12	12.96	55000	M12x1x13,5 - SW5	23.98	422
20	SW5	7.73	050	M10x12	12.96	55000	M16x1x13,5 - SW8	27.66	424

Accessories

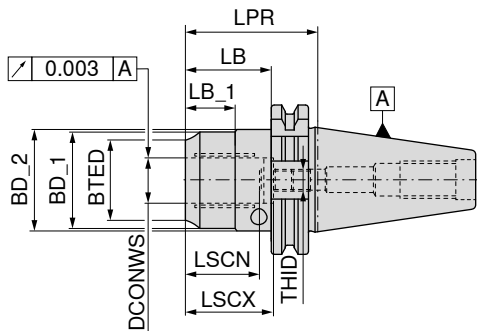
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw

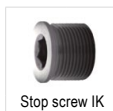
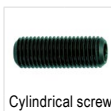


AD/B
G 2,5 n_{max} 25000

83 427 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	£	
SK 40	20	64.5	38					51	40	M16x1x13,5	429.89	120
SK 40	32	81.0	57	63	70	61.9	26	61	51	M16x1x13,5	518.94	13279
SK 50	20	64.5	38	49		45.4		51	41	M16x1x13,5	616.50	12078
SK 50	32	81.0	57	68	72	61.9	35	61	51	M16x1x13,5	616.50	13278

→ Min. clamping depth, Page 312



Spare parts for Article no.	£		£		£		£						
83 427 13279	Y7	M5x5 - SW2,5	3.67	157	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424
83 427 12078	Y7	M5x5 - SW2,5	3.67	157	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424
83 427 13278	Y7	M5x5 - SW2,5	3.67	157	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424

Accessories

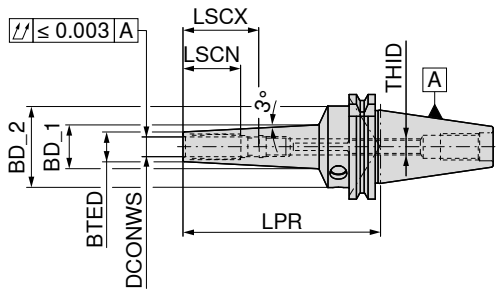


HyPower – Access 3°

- ▲ High pressure chuck, slim 3°
- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw, pressure screw and screw plug

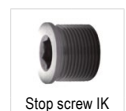
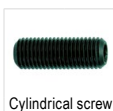


AD/B
G 2,5 n_{max} 25000

83 421 ...

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

→ Min. clamping depth, Page 312



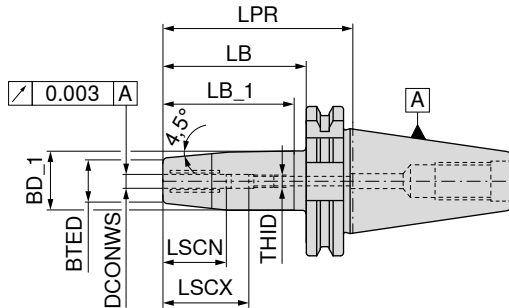
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
	£	Y7	£	Y7	£	Y7	£	Y7
83 421 103	M5x5 - SW2,5	3.67 157	SW5	7.73 050	M10x1x10	21.84 158	M3x20 - SW1,5	16.65 172
83 421 104	M5x5 - SW2,5	3.67 157	SW5	7.73 050	M10x1x10	21.84 158	M3x20 - SW1,5	16.65 172
83 421 105	M5x5 - SW2,5	3.67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

HyPower – Access 4.5°

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 255 ...

£

Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	
SK 40	6	80	21	27	55.7	60.9	37	27	M5	788.40 10679
SK 40	8	80	21	27	55.7	60.9	37	27	M6	788.40 10879
SK 40	10	80	24	32	55.7	60.9	41	31	M8x1	788.40 11079
SK 40	12	80	24	32	55.7	60.9	46	36	M10x1	788.40 11279
SK 40	16	80	27	34	55.8	60.9	49	39	M12x1	788.40 11679
SK 40	20	80	33	42	57.2	60.9	51	41	M16x1	788.40 12079

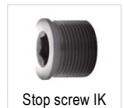
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS		£			£			£	
6	SW5	7.73	050	M10x12	12.96	55000	M5x12,5 - SW2,5	23.98	418
8	SW5	7.73	050	M10x12	12.96	55000	M6x12,5 - SW3	23.98	419
10	SW5	7.73	050	M10x12	12.96	55000	M8x1x13,5 - SW3	23.98	420
12	SW5	7.73	050	M10x12	12.96	55000	M10x1x13,5 - SW5	23.98	421
16	SW5	7.73	050	M10x12	12.96	55000	M12x1x13,5 - SW5	23.98	422
20	SW5	7.73	050	M10x12	12.96	55000	M16x1x13,5 - SW8	27.66	424

Accessories

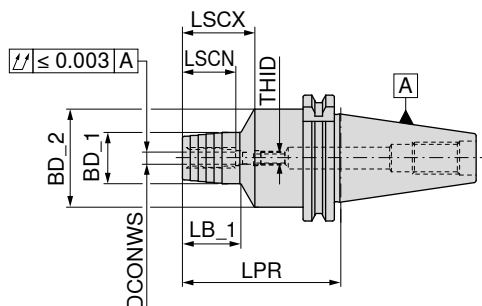
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

HyTens – Fit

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

Scope of supply:

Base body with backstop screw and pressure screw



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

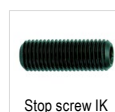
83 402 ...

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

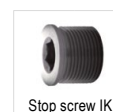
→ Min. clamping depth, Page 312



Pressure screw



Stop screw IK



Stop screw IK

Spare parts

DCONWS	Pressure screw	Stop screw IK	Stop screw IK
6	M8x1x10		M5x12,5 - SW2,5
8	M8x1x10	M6x14 - SW2	M6x12,5 - SW3
10	M10x1x12		M8x1x13,5 - SW3
12	M10x1x12		M10x1x13,5 - SW5
16	M10x1x12		M12x1x13,5 - SW5
20 - 32	M10x1x12		M16x1x13,5 - SW8

Accessories

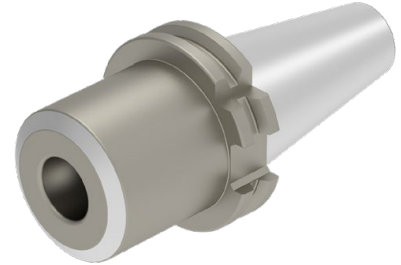
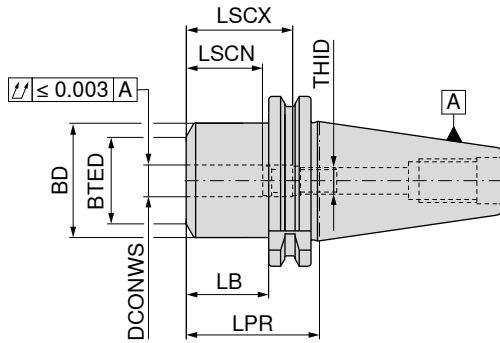
Reduction sleeve	Pull studs	Others
→ 282	→ 58, 60	→ 284

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

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

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

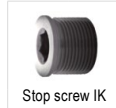
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

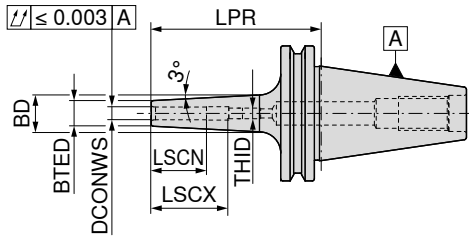
Spare parts

DCONWS								
12	SW5	7.73	050	M10x1x12	16.61	440	M8x1x13,5 - SW3	23.98 420
20	SW5	7.73	050	M10x1x12	16.61	440	M16x1x13,5 - SW8	27.66 424

Heat shrink adapter, slim 3°

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

TG

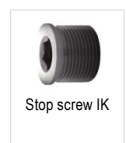
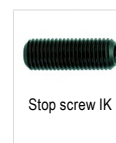


AD/B
G 2,5 n_{max} 25000

84 320 ...

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

→ Min. clamping depth, Page 312



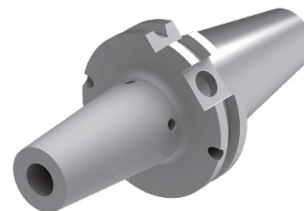
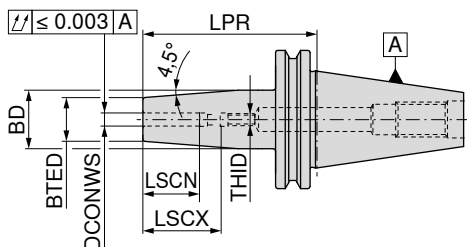
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



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

84 300 ...

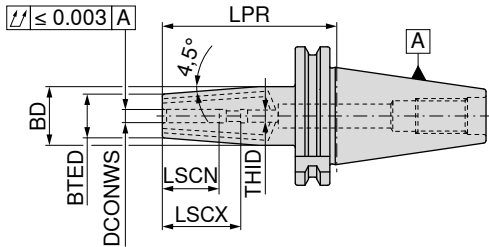
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£ Y8	
short	SK 40	3	80	10	17	22	12	M6	245.40	103
	SK 40	4	80	15	22	26	16	M6	245.40	104
	SK 40	5	80	15	22	30	20	M6	245.40	105
	SK 40	6	80	21	27	36	26	M5	235.28	106
	SK 40	8	80	21	27	26	26	M6	235.28	108
	SK 40	10	80	24	32	41	31	M8x1	235.28	110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

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG

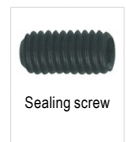
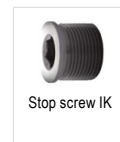
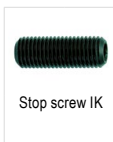


AD/B – 2KMB
G 2,5 n_{max} 25000

84 317 ...

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

→ Min. clamping depth, Page 312



Spare parts	DCONWS		83 950 ...		83 950 ...		83 950 ...			
			£		£		£			
	3 - 5	M6x14 - SW2	23.98	417						
	6				M5x12,5 - SW2,5	23.98	418	M2x6	1.93	512
	8				M6x12,5 - SW3	23.98	419	M2x6	1.93	512
	10				M8x1x13,5 - SW3	23.98	420	M2x6	1.93	512
	12 - 14				M10x1x13,5 - SW5	23.98	421	M2x6	1.93	512
	16 - 18				M12x1x13,5 - SW5	23.98	422	M2x6	1.93	512
	20 - 25				M16x1x13,5 - SW8	27.66	424	M2x6	1.93	512
	32	M16x1 - SW5	19.25	511				M2x6	1.93	512

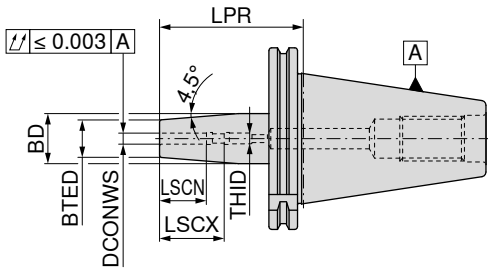
Accessories

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

Shrink fit adapters 4.5°

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

TG



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

84 301 ...

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

→ Min. clamping depth, Page 312



Spare parts
DCONWS

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

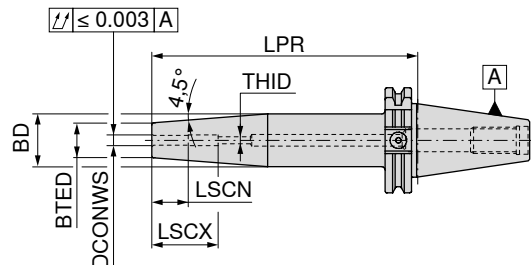
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG



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

82 310 ...

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

→ Min. clamping depth, Page 312

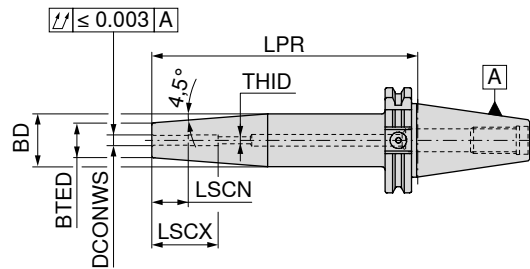
Shrink fit adapters 4.5°

- ▲ 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 ...

£	Y8/3B
325.95	30679
325.95	30879
325.95	31079
325.95	31279
325.95	31479
325.95	31679
325.95	31879
325.95	32079
325.95	32579
326.68	30678
326.68	30878
326.68	31078
326.68	31278
326.68	31478
326.68	31678
326.68	31878
326.68	32078
326.68	32578
326.68	33278

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID
		mm	mm	mm	mm	mm	mm	
extra-long	SK 40	6	160	21	31.0	36	26	M5
	SK 40	8	160	21	32.0	36	26	M6
	SK 40	10	160	24	34.0	41	31	M8x1
	SK 40	12	160	24	34.0	47	37	M10x1
	SK 40	14	160	27	36.0	47	37	M10x1
	SK 40	16	160	27	36.0	50	40	M12x1
	SK 40	18	160	33	44.0	50	40	M12x1
	SK 40	20	160	33	44.0	52	42	M16x1
	SK 40	25	160	44	50.0	58	48	M16x1
	SK 50	6	160	21	27.0	36	26	M5
	SK 50	8	160	21	27.0	36	26	M6
	SK 50	10	160	24	32.0	41	31	M8x1
	SK 50	12	160	24	32.0	47	37	M10x1
	SK 50	14	160	27	34.0	47	37	M10x1
	SK 50	16	160	27	34.0	50	40	M12x1
	SK 50	18	160	33	42.0	50	40	M12x1
	SK 50	20	160	33	42.0	52	42	M16x1
	SK 50	25	160	44	53.0	58	48	M16x1
	SK 50	32	160	44	53.0	62	52	M16x1

→ Min. clamping depth, Page 312



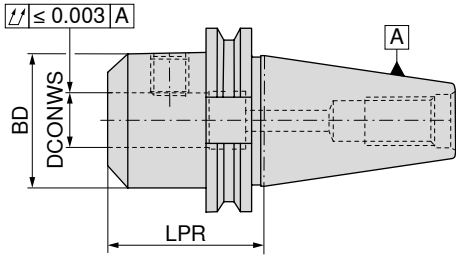
82 950 ...

Spare parts
DCONWS

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

Cylindrical shank adapter (Weldon)

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



NEW



AD
G 2,5 n_{max} 25000

82 741 ...

£	
Y8	
161.44	10680
147.10	10880
147.10	11080
147.10	11280
147.10	11480
147.10	11680
147.10	11880
176.16	12080
86.86	01679
86.86	02079
94.94	02579
119.98	03279 ¹⁾

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm
short	SK 30	6	50	25
	SK 30	8	50	28
	SK 30	10	50	35
	SK 30	12	50	42
	SK 30	14	63	44
	SK 30	16	63	48
	SK 30	18	63	50
	SK 30	20	70	52
extra short	SK 40	16	35	48
	SK 40	20	35	50
	SK 40	25	40	50
	SK 40	32	75	72

1) Version with two grub screws

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



Grubscrew

62 950 ...

Spare parts

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

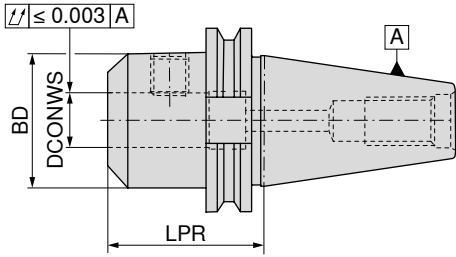
Accessories

Coolant transfer pipe
→ 156

Others
→ 284

Cylindrical shank adapter (Weldon)

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



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

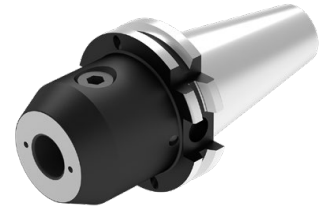
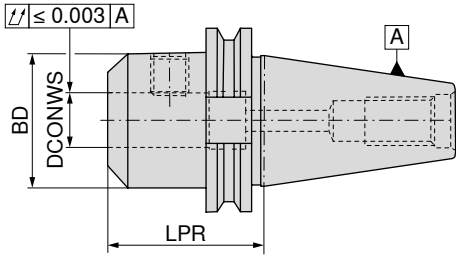
82 740 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	Price	
					£	Y8
short	SK 40	6	50	25	80.37	10679
	SK 40	8	50	28	80.37	10879
	SK 40	10	50	35	75.86	11079
	SK 40	12	50	42	75.86	11279
	SK 40	14	50	44	75.86	11479
	SK 40	16	63	48	82.14	11679
	SK 40	18	63	50	82.14	11879
	SK 40	20	63	52	82.14	12079
	SK 40	25	100	65	90.11	12579 ¹⁾
	SK 40	32	100	72	98.03	13279 ¹⁾
	SK 40	40	120	90	107.22	14079 ¹⁾
short	SK 50	6	63	25	120.88	10678
	SK 50	8	63	28	120.88	10878
	SK 50	10	63	35	115.68	11078
	SK 50	12	63	42	115.68	11278
	SK 50	14	63	44	115.68	11478
	SK 50	16	63	48	116.03	11678
	SK 50	18	63	50	116.03	11878
	SK 50	20	63	52	116.03	12078
	SK 50	25	80	65	126.86	12578 ¹⁾
	SK 50	32	100	72	128.64	13278 ¹⁾
	SK 50	40	120	90	134.24	14078 ¹⁾
medium length	SK 40	6	100	25	83.78	20679
	SK 40	8	100	28	83.78	20879
	SK 40	10	100	35	79.09	21079
	SK 40	12	100	42	79.09	21279
	SK 40	14	100	44	78.56	21479
	SK 40	16	100	48	86.86	21679
	SK 40	18	100	50	86.48	21879
	SK 40	20	100	52	86.86	22079
	SK 50	6	100	25	133.87	20678
	SK 50	8	100	28	133.87	20878
SK 50	10	100	35	128.48	21078	
SK 50	12	100	42	128.48	21278	
SK 50	14	100	44	128.48	21478	
SK 50	16	100	48	128.83	21678	
SK 50	18	100	50	128.83	21878	
SK 50	20	100	52	128.83	22078	
	SK 50	25	100	65	136.40	22578 ¹⁾

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



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

82 740 ...

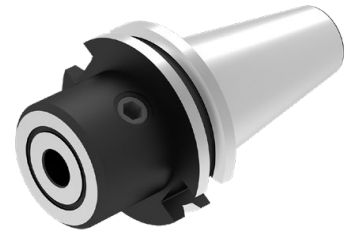
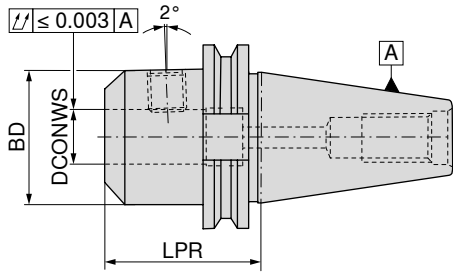
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	£	Y8
long	SK 40	6	130	25	92.61	30679
	SK 40	8	130	28	92.61	30879
	SK 40	10	130	35	87.20	31079
	SK 40	12	130	42	87.20	31279
	SK 40	14	130	44	87.20	31479
	SK 40	16	130	48	88.85	31679
	SK 40	18	130	50	88.85	31879
	SK 40	20	130	52	88.85	32079
	SK 50	6	130	25	144.32	30678
	SK 50	8	130	28	144.32	30878
	SK 50	10	130	35	141.62	31078
	SK 50	12	130	42	141.62	31278
	SK 50	14	130	44	141.62	31478
	SK 50	16	130	48	141.81	31678
	SK 50	18	130	50	141.81	31878
	SK 50	20	130	52	141.81	32078
	SK 50	25	130	65	145.58	32578 ¹⁾
	extra-long	SK 40	6	160	25	96.40
SK 40		8	160	28	96.40	40879
SK 40		10	160	35	91.34	41079
SK 40		12	160	42	91.34	41279
SK 40		14	160	44	91.34	41479
SK 40		16	160	48	91.71	41679
SK 40		18	160	50	91.71	41879
SK 40		20	160	52	91.71	42079
SK 40		25	160	65	98.03	42579 ¹⁾
SK 50		6	160	25	150.06	40678
SK 50		8	160	28	150.06	40878
SK 50		10	160	35	149.73	41078
SK 50		12	160	42	149.73	41278
SK 50		14	160	44	149.73	41478
SK 50		16	160	48	150.61	41678
SK 50		18	160	50	150.61	41878
SK 50		20	160	52	150.61	42078
SK 50		25	160	65	150.24	42578 ¹⁾
SK 50	32	160	72	150.98	43278 ¹⁾	

1) Version with two grub screws

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

Cylindrical Shank Adapter (Whistle Notch)

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



NEW



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

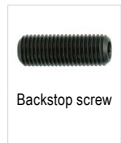
82 742 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	£	Y8
short	SK 40	6	50	25	99.12	10679
	SK 40	8	50	28	99.12	10879
	SK 40	10	50	35	91.89	11079
	SK 40	12	50	42	91.89	11279
	SK 40	14	50	44	91.89	11479
	SK 40	16	63	48	100.88	11679
	SK 40	18	63	50	100.88	11879
	SK 40	20	63	52	100.88	12079
	SK 40	25	100	65	128.29	12579 ¹⁾
	SK 40	32	100	72	120.51	13279 ¹⁾
	SK 50	6	63	25	169.12	10678
	SK 50	8	63	28	169.12	10878
	SK 50	10	63	35	161.60	11078
	SK 50	12	63	42	161.60	11278
	SK 50	14	63	44	161.60	11478
	SK 50	16	63	48	162.56	11678
	SK 50	18	63	50	162.56	11878
	SK 50	20	63	52	162.56	12078
SK 50	25	80	65	177.28	12578 ¹⁾	
SK 50	32	100	72	180.16	13278 ¹⁾	
long	SK 40	6	130	25	124.88	30679
	SK 40	8	130	28	124.88	30879
	SK 40	10	130	35	117.66	31079
	SK 40	12	130	42	117.66	31279
	SK 40	16	130	48	125.58	31679
	SK 40	20	130	52	125.58	32079
	SK 40	25	130	65	150.24	32579 ¹⁾
	SK 50	6	130	25	196.48	30678
	SK 50	8	130	28	196.48	30878
	SK 50	10	130	35	189.12	31078
	SK 50	12	130	42	189.12	31278
	SK 50	16	130	48	190.88	31678
	SK 50	20	130	52	190.88	32078
	SK 50	25	130	65	200.16	32578 ¹⁾
	SK 50	32	130	72	200.16	33278 ¹⁾

1) Version with two grub screws

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

Spare parts DCONWS _{H4}		62 950 ...		84 950 ...	
		£ W7		£ Y8	
6	M6x10	1.11	006	M5x20	14.78 44100
8	M8x10	1.11	008	M6x20	5.13 21500
10	M10x12	2.12	010	M8x16	14.78 44200
12 - 14	M12x16	1.68	012		
16 - 18	M14x16	2.08	016	M12x20	14.78 44300
20	M16x16	2.21	020		
25	M18x2x20	4.27	025	M20x24	14.78 44000
32	M20x2x20	4.46	032	M20x24	14.78 44000

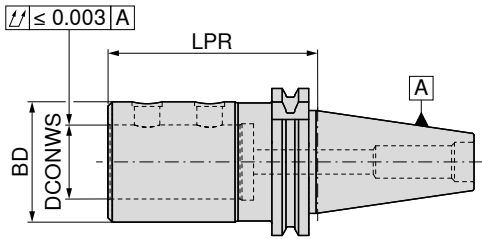


Accessories

	
Pull studs	Others
→ 58, 60	→ 284

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



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

82 748 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
SK 40	20	80	40	254.08	12079
SK 40	25	85	45	254.08	12579
SK 40	32	90	52	254.08	13279
SK 50	20	80	40	322.72	12078
SK 50	25	85	45	322.72	12578
SK 50	32	90	52	322.72	13278
SK 50	40	90	65	322.72	14078
SK 50	50	100	75	322.72	15078

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



10 950 ...

Spare parts	DCONWS	£	
20	M10x1x10	4.42	001
25 - 32	M12x1x10	4.42	002
40 - 50	M16x1x12	4.42	003

Accessories

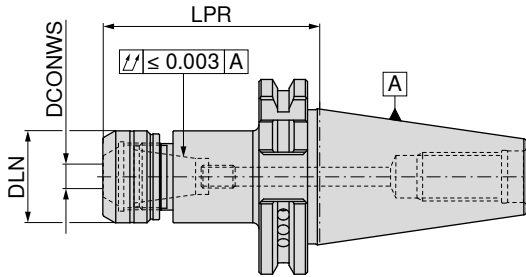
Pull studs	Others
→ 58, 60	→ 284

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

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

Spare parts for collet

	£		£		£		£	
426E (ER16)	82.32	Y8	11000	77.57	Y8	01000	7.75	00100
430E (ER25)	82.32	Y8	11600	77.57	Y8	01600	7.75	00300
470E (ER32)	82.32	Y8	12000	77.57	Y8	02000	7.75	00300

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

Accessories

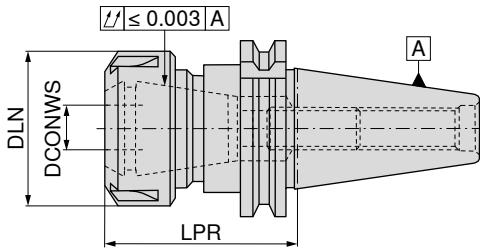
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop










AD
G 2,5 n_{max} 25000




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


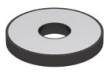


	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	£	
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	166.72	11080
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	166.72	11680
							166.72	12080
	SK 40	1 - 10	60	22	8 - 56	426E (ER16 mini)		213.44 11179
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)		112.22 11079
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		117.30 11679
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		117.66 12079
	SK 40	3 - 26	70	63	176	472E (ER40)		122.32 12679
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)		151.52 11078
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		157.82 11678
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		160.48 12078
SK 50	3 - 26	70	63	176	472E (ER40)		164.32 12678	
medium length	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	232.96	21080
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	232.96	21680
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	232.96	22080
	SK 40	1 - 10	120	32	8 - 56	426E (ER16)		123.06 21079
	SK 40	1 - 10	120	22	8 - 56	426E (ER16 mini)		213.44 21179
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		128.13 21679
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		128.48 22079
	SK 40	3 - 26	100	63	176	472E (ER40)		154.29 22679
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)		145.58 21078
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		151.52 21678
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		161.28 22078
	SK 50	3 - 26	100	63	176	472E (ER40)		169.12 22678
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)		192.48 41079
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		192.48 41679
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		192.48 42079
	SK 40	3 - 26	160	63	176	472E (ER40)		222.56 42679
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		165.12 41678
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		181.92 42078

Spare parts ER collet chucks

	 Lock nut IK 83 950 ...		 Lock nut 62 950 ...		 Y clamping key 83 357 ...		 ER Mini clamping key 83 950 ...		 Mini lock nut 62 950 ...		 Mini IK 83 950 ...		 Stop screw IK 84 950 ...	
Spare parts for collet	£		£		£		£		£		£		£	
426E (ER16 mini)	Y8		W7/6B		Y8		Y8	101	W7	066	Y8	058	Y8	44600
426E (ER16)	82.98	054	25.64	054	28.20	116			44.48				43.14	44600
430E (ER25)	96.66	055	26.70	055	28.20	125							43.14	44400
470E (ER32)	103.38	056	27.37	056	41.07	132							43.14	44400
472E (ER40)	124.40	057	28.36	057	46.52	140							43.14	44500

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

Accessories

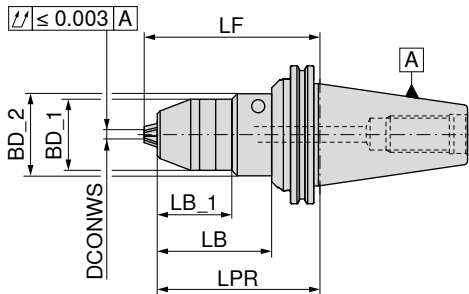
 ER collet	 Sealing ring	 Pull studs	 Others
→ 271–276, 279	→ 280	→ 58, 60	→ 284

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000



AD
G 6,3 n_{max} 10000

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

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

Accessories



Others

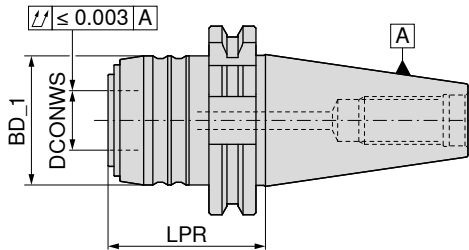
→ 284

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	346.27	012
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	449.17	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	376.14	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	582.18	120

Accessories

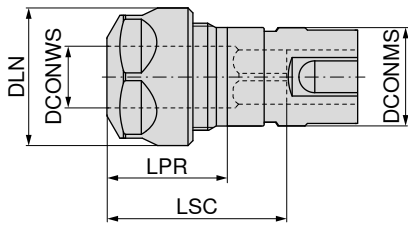
	
Pull studs	Others
→ 58, 60	→ 284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



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

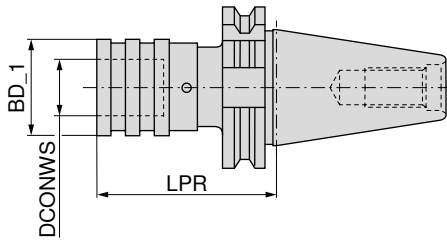
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

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

Quick change tap chuck with length compensation

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



A

83 428 ...

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

Accessories

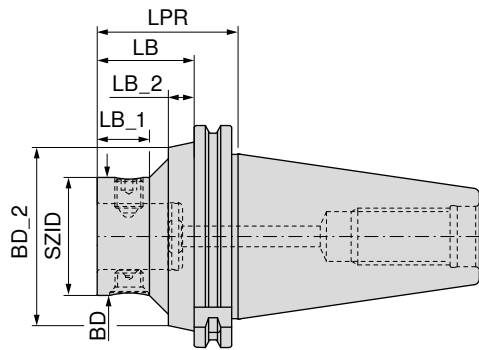
		
Collet	Pull studs	Others
→ 288, 290-292	→ 58, 60	→ 284

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



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

84 201 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	LB_2	BD_2	£	
			mm	mm	mm	mm	mm	mm	3E	
SK 40	A50 55120	ABS 25		50	30.9	20.0	7.9	50	225.31	04090
SK 40	A50 55130	ABS 32		50	30.9	20.0	7.9	50	225.31	04089
SK 40	A50 55140	ABS 40		50	30.9	20.0		50	225.31	04088
SK 40	A50 55150	ABS 50	50	50	30.9				225.31	04097
SK 40	A50 55160	ABS 63		90	70.9		15.9	50	225.31	04096
SK 50	A50 55320	ABS 25		60	40.9	20.0	12.9	80	254.07	05090
SK 50	A50 55330	ABS 32		60	40.9	20.0	12.9	80	254.07	05089
SK 50	A50 55340	ABS 40		60	40.9	20.0	12.9	80	254.07	05088
SK 50	A50 55350	ABS 50		60	40.9	22.0	10.9	80	254.07	05097
SK 50	A50 55360	ABS 63		60	40.9	30.4	7.3	80	254.07	05096
SK 50	A50 55370	ABS 80	80	70	50.9				254.07	05092
SK 50	A50 55380	ABS 100		115	95.9		15.9	80	254.07	05091

Conversion kit – Cooling agent supply



84 950 ...

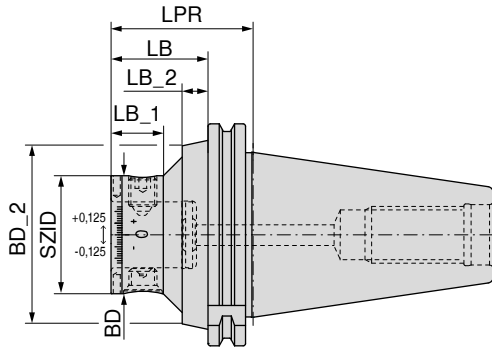
for	Adapter	£	
		W7/6B	
4 mm	SK 40	6.96	23200
6 mm	SK 50	6.96	23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



AD/B

84 204 ...

£
W4/6A
607.16 04097
781.53 04096

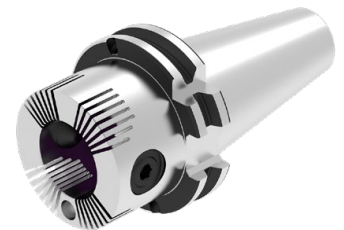
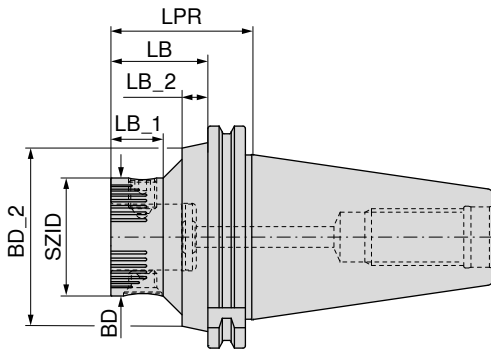
Adapter	KOMET no.	SZID	BD mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm
SK 40	A50 56150	ABS 50	50	50	30.9			
SK 40	A50 56160	ABS 63		90	70.9		15.9	50
SK 50	A50 56350	ABS 50		60	40.9	22.0	10.9	80
SK 50	A50 56360	ABS 63		60	40.9	30.4	7.3	80

Torsional vibration dampers with ABS Connection

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

Scope of supply:

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



AD/B

84 207 ...

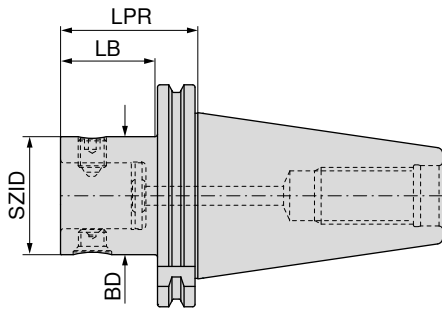
£
3E
618.21 04097
736.12 04096

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

Adapter with ABS Connection – SK-FC

▲ with face contact

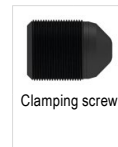
▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

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

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

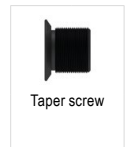


Clamping screw

84 950 ...

£
XX

10.95 20300	13.91 20400
10.42 25500	13.22 27300
12.82 25600	15.60 25100
15.79 25700	17.32 25200



Taper screw

84 950 ...

£
XX

Spare parts

SZID

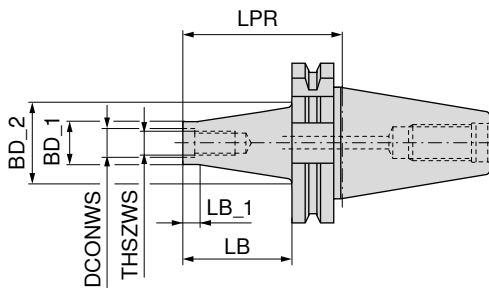
ABS 50
ABS 63
ABS 80
ABS 100

Accessories

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

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000



AD
G 16 n_{max} 8000

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

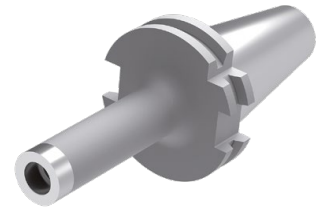
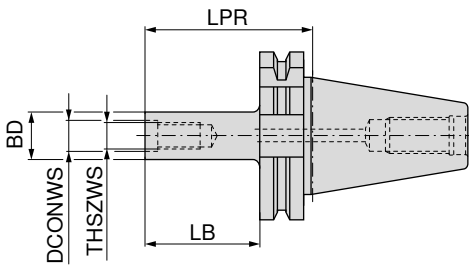
56 705 ...	56 707 ...
£	£
WA	WA
245.24	081
251.24	082
257.05	083
245.24	101
251.24	102
257.05	103
263.03	104
245.24	121
251.24	122
257.05	123
263.03	124
245.24	161
251.24	162
257.05	163
263.03	164
268.80	165
274.81	166
286.61	167
348.06	122
359.84	124
371.62	126
348.06	162
353.84	164
365.64	166
377.42	167
389.41	168

Accessories

Extension-Reduction set	Pull studs	Others
→ 257	→ 58, 60	→ 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	£	WA
SK 40	M8	8.5	50	13.8	69	266.88	082
SK 40	M10	10.5	50	18.0	69	266.88	102
SK 40	M10	10.5	75	18.0	94	272.87	103
SK 40	M10	10.5	100	18.0	119	278.88	104
SK 40	M12	12.5	50	21.0	69	266.88	122
SK 40	M12	12.5	75	21.0	94	272.87	123
SK 40	M12	12.5	100	21.0	119	278.88	124
SK 40	M16	17.0	50	29.0	69	266.88	162
SK 40	M16	17.0	75	29.0	94	272.87	163
SK 40	M16	17.0	100	29.0	119	278.88	164

Accessories

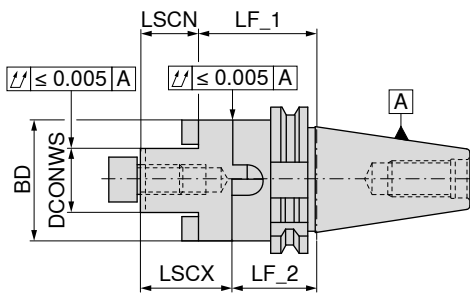
Extension-Reduction set → 257	Pull studs → 58, 60	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS	LF_1	BD	LSCX	LSCN	LF_2		
		mm	mm	mm	mm	mm	mm		£
short	SK 30	16	50	32	27	17	40		161.44 11680
	SK 30	22	50	40	31	19	38		161.44 12280
	SK 30	27	55	48	33	21	43		171.52 12780
	SK 30	32	60	58	38	24	46		181.44 13280
	SK 40	16	55	32	27	17	45		110.98 11679
	SK 40	22	55	40	31	19	43		115.33 12279
	SK 40	27	55	48	33	21	43		117.66 12779
	SK 40	32	60	58	38	24	46		124.34 13279
	SK 40	40	60	70	41	27	46		130.82 14079 ¹⁾
	SK 50	16	55	32	27	17	45		166.56 11678
	SK 50	22	55	40	31	19	43		172.32 12278
	SK 50	27	55	48	33	21	43		185.76 12778
SK 50	32	55	58	38	24	41		190.88 13278	
SK 50	40	55	70	41	27	41		196.48 14078 ¹⁾	
SK 50	50	70	90	46	30	54		214.56 15078 ¹⁾	
medium length	SK 40	16	100	32	27	17	90		147.89 21679
	SK 40	22	100	40	31	19	88		154.10 22279
	SK 40	27	100	48	33	21	88		156.98 22779
	SK 40	32	100	58	38	24	86		165.44 23279
	SK 40	40	100	70	41	27	86		174.40 24079

1) With cross screw



Spare parts	83 950 ...		83 370 ...		83 368 ...		83 367 ...		83 950 ...	
	£	Y8/3B	£	Y8	£	Y8	£	Y8	£	Y8/3B
DCONWS										
16	4 x 4 x 20	4.17 284	15.42 116	25.47 116	M8	6.77 016	M8x25	7.18 113		
22	6 x 6 x 25	4.17 285	14.79 122	31.70 122	M10	7.53 022	M10x25	8.10 124		
27	7 x 7 x 25	6.62 286	18.45 127	37.27 127	M12	9.63 027	M12x30	8.95 125		
32	8 x 7 x 28	4.72 287	19.36 132	50.79 132	M16	15.12 032	M16x35	10.90 126		
40	10 x 8 x 32	5.57 288	32.61 140	50.45 140	M20	16.18 040	M20x40 - SW17	12.02 112		
50	12 x 8 x 36	5.57 289	65.61 150	71.90 150	M24	41.15 050				

Accessories

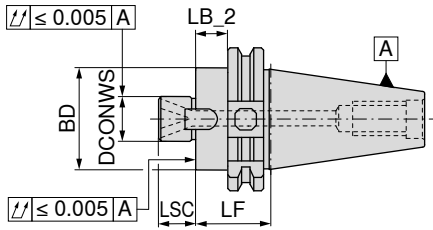
Pull studs	Milling Adapter Rings	Others
→ 58, 60	→ 263	→ 284

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



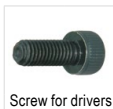
AD
G 2,5 n_{max} 25000

82 315 ...

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

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

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



Screw for drivers



Driver



clamping screw

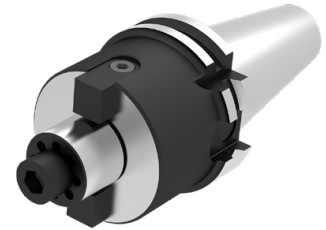
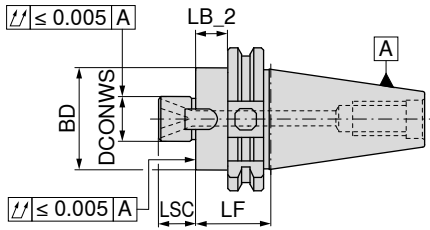
Spare parts	DCONWS		£	83 950 ...	£	83 950 ...	£	83 950 ...		
	22	M4x8	0.76	51700	10x7x20,5	10.73	51500	M10x25	8.10	124
	27	M5x8	0.93	51800	12x9x24,3	12.23	51600	M12x30	8.95	125

Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



NEW



AD

G 2,5 n_{max} 25000

82 745 ...

£
Y8

NEW



AD/B

G 2,5 n_{max} 25000

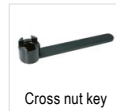
82 745 ...

£
Y8

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 745 ...		
							£	£	
short	SK 30	16	21.0	40	38	17	151.84	11680	
	SK 30	22	14.6	50	48	19	151.84	12280	
	SK 30	27	19.3	55	58	21	161.44	12780	
	SK 30	32	31.0	50	78	24	172.16	13280	
	SK 40	16	25.0	44	38	17		110.98	
	SK 40	22	25.0	44	48	19		117.66	
	SK 40	27	36.0	55	58	21		119.81	
	SK 40	32	31.0	50	78	24		126.13	
	SK 40	40	31.0	50	88	27		137.14	
	SK 50	16	25.0	44	38	17		171.36	
	SK 50	22	25.0	44	48	19		175.84	
	SK 50	27	25.0	44	58	21		180.16	
	SK 50	32	21.0	40	78	24		194.72	
	SK 50	40	31.0	50	88	27		198.24	
	medium length	SK 40	16	81.0	100	38	17		114.77
		SK 40	22	81.0	100	48	19		118.56
		SK 40	27	81.0	100	58	21		120.51
		SK 40	32	81.0	100	78	24		126.86
		SK 40	40	81.0	100	88	27		132.43
		SK 50	16	81.0	100	38	17		181.92
SK 50		22	81.0	100	48	19		185.76	
SK 50		27	81.0	100	58	21		190.88	
SK 50		32	81.0	100	78	24		196.48	
SK 50		40	81.0	100	88	27		200.16	
long	SK 40	16	111.0	130	38	17		121.97	
	SK 40	22	111.0	130	48	19		126.13	
	SK 40	27	111.0	130	58	21		128.13	
	SK 40	32	111.0	130	78	24		134.24	
	SK 40	40	111.0	130	88	27		140.18	
	SK 50	16	111.0	130	38	17		192.64	
	SK 50	22	111.0	130	48	19		196.48	
	SK 50	27	111.0	130	58	21		201.76	
	SK 50	32	111.0	130	78	24		207.36	
	SK 50	40	111.0	130	88	27		210.72	
extra-long	SK 40	16	141.0	160	38	17		126.13	
	SK 40	22	141.0	160	48	19		130.26	
	SK 40	27	141.0	160	58	21		132.06	
	SK 40	32	141.0	160	78	24		138.19	
	SK 40	40	141.0	160	88	27		143.97	
	SK 50	16	141.0	160	38	17		198.24	
	SK 50	22	141.0	160	48	19		203.68	
	SK 50	27	141.0	160	58	21		207.36	
	SK 50	32	141.0	160	78	24		212.64	
	SK 50	40	141.0	160	88	27		218.08	

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

Spare parts facemill adapters



Cross nut key

83 368 ...



Cross screw

83 367 ...

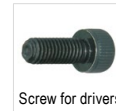


clamping screw

83 950 ...

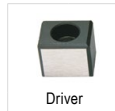
**Spare parts
DCONWS**

	£			£			£	
	Y8			Y8			Y8/3B	
16	25.47	116	M8	6.77	016	M8x25	7.18	113
22	31.70	122	M10	7.53	022	M10x25	8.10	124
27	37.27	127	M12	9.63	027	M12x30	8.95	125
32	50.79	132	M16	15.12	032	M16x35	10.90	126
40	50.45	140	M20	16.18	040	M20x40 - SW17	12.02	112



Screw for drivers

84 950 ...



Driver

84 950 ...

**Spare parts
DCONWS**

	£			£				
	Y8			Y8				
16			M3x12	9.91	162	8x9,8x10	43.82	43400
22			M4x10	9.91	163	10x11,2x12	43.82	43200
27			M4x16	9.91	164	12x12,6x14	43.82	43300
32			M5x16	9.91	166	14x14x22,5	36.52	160
40			M5x16	9.91	166	16x16x23	40.65	161

Accessories

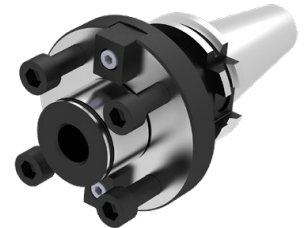
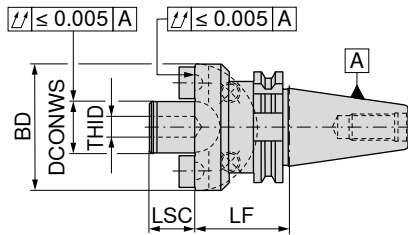
Pull studs	Extensions	Others
→ 58, 60	→ 262	→ 284

Large diameter facemill adapter

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

Scope of supply:

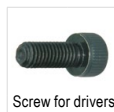
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

82 432 ...
£
Y8
227.20 14079
263.04 14078
319.04 16078

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



Screw for drivers



Driver



clamping screw

Spare parts

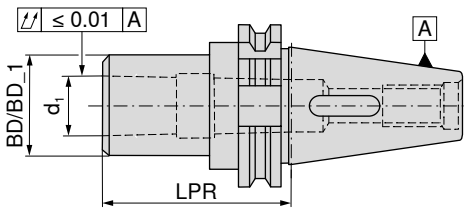
DCONWS		84 950 ...	84 950 ...	83 950 ...
		£	£	£
40	M5x16	9.91	166	16x16x23
60	M12x25	7.12	43500	25,4x25x26,5
				M12x50
				Y8/3B
				8.94
				140

Accessories

Pull studs	Others
→ 58, 60	→ 284

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

▲ also available with Balluff chip on request



NEW



AD

G 6,3 n_{max} 15000

82 746 ...

£

Y8

	Adapter	d ₁	LPR	BD	BD_1			
			mm	mm	mm			
short	SK 30	MK1	50	25				
	SK 30	MK2	63	32				
	SK 30	MK3	80	40				
	SK 40	MK1	50		25		97.66 11079	
	SK 40	MK2	50		32		97.66 12079	
	SK 40	MK3	70		40		104.30 13079	
	SK 40	MK4	95	48			108.83 14079	
	SK 50	MK1	50		25		133.52 11078	
	SK 50	MK2	60		32		138.19 12078	
	SK 50	MK3	65		40		138.19 13078	
	SK 50	MK4	95	48			142.69 14078	
	SK 50	MK5	105		63		155.17 15078	
	medium length	SK 40	MK2	117	32			139.04 22079
		SK 40	MK3	133	40			154.53 23079
		SK 40	MK4	156	48			168.48 24079

Accessories

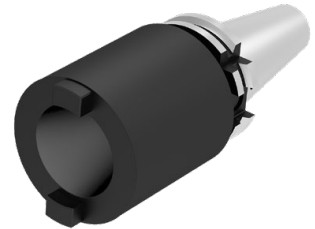
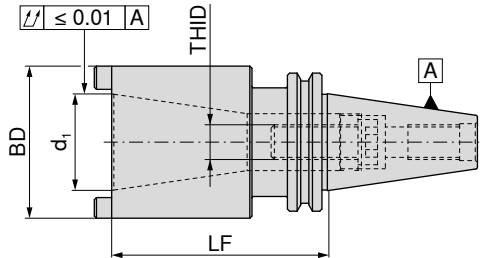
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 58, 60	→ 284

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



NEW



A

G 6,3 n_{max} 8000

84 040 ...

£

Y8

235.04 13079

183.68 14079

250.24 14078

263.04 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	Y8/3B	Y8	Y8/3B	Y8/3B	Y8	Y8/3B
84 040 14079	13.51 264	7.12 43700	0.96 030	60.20 023	49.77 127	8.95 125
84 040 14078	12.61 009	7.12 43600	0.96 030		47.10 43800	
84 040 15078	44.43 256		0.96 030	49.52 017	47.10 43900	

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

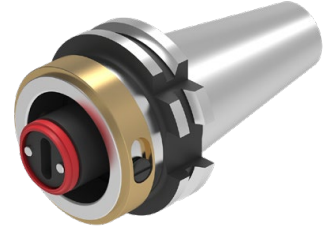
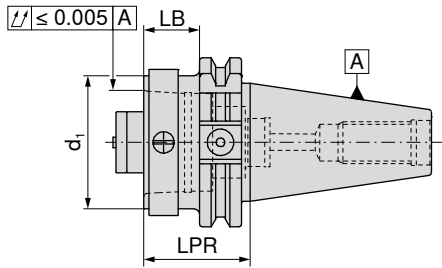
ISO 7388-1	Norm of the SK-shank		Clamping screw length	Clamping screw SK Article no.	Threaded ring Article no.	lock screw Article no.	hollow key Article no.
	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080					
Suitable for article no.			THID				
84 040 13079		SK 30	M12 x 40	83 950 18400	84 950 127	83 950 030	83 359 017
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 40	83 950 009	84 950 43800	83 950 030	83 359 023
84 040 14078	SK40		M16 x 70	83 950 264			
84 040 14078		SK40	M16 x 40	83 950 009			
84 040 15078	SK50		M24 x 80	83 950 256	84 950 43900	83 950 031	83 359 133
84 040 15078		SK50	M24 x 50	83 950 263	84 950 43900	83 950 031	83 359 133

SK/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

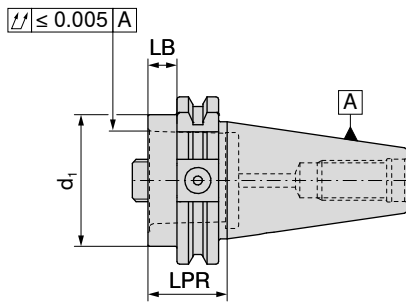
84 014 ...

Adapter	d ₁	LB	LPR	£	
		mm	mm	Y8	
SK 40	HSK-A 32	20.9	40	1,049.16	04060
SK 40	HSK-A 40	20.9	40	1,070.20	04059
SK 40	HSK-A 50	20.9	40	1,091.44	04058
SK 40	HSK-A 63	60.9	80	1,070.20	04057
SK 50	HSK-A 32	20.9	40	1,322.99	05060
SK 50	HSK-A 40	20.9	40	1,322.99	05059
SK 50	HSK-A 50	20.9	40	1,344.26	05058
SK 50	HSK-A 63	20.9	40	1,428.60	05057
SK 50	HSK-A 100	80.9	100	1,681.39	05055

SK/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 015 ...

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



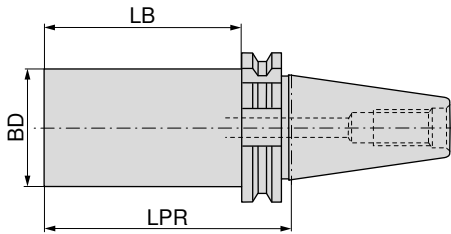
84 950 ...

84 950 ...

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

Blank

- ▲ Material: Steel 16MnCr5
- ▲ for production of special tools
- ▲ Diameter BD turned with 0.5 mm oversize
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



NEW



AD/B

82 747 ...

£
Y8

129.36 16379
237.92 16378

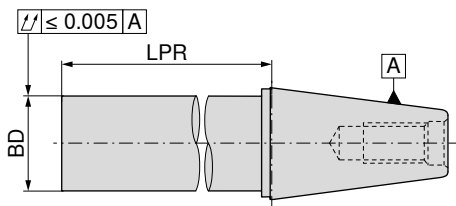
Adapter	BD mm	LPR mm	LB mm
SK 40	63.0	250	231
SK 50	63.5	300	281

Test bar

- ▲ Without clamping slots
- ▲ For MAS BT 40, use special tightening bolts with 3 mm shorter LF dimension, as standard

Scope of supply:

in wooden box



NEW



A



81 746 ...

£
Y8

564.00 14079
695.36 15078

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

Accessories

	
Pull studs	Others
→ 58, 60	→ 284

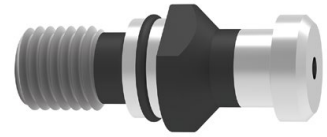
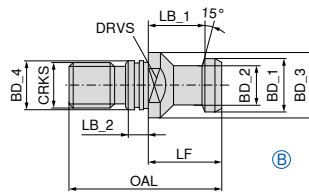
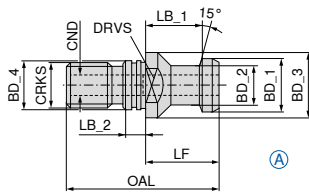
Pull studs for tool holders according to ISO 7388-1

▲ ISO 7388-3 AD

▲ For tools with or without axial coolant supply

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ...		82 468 ...	
														£		£	
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	50	A	Y8		15.25	040
SK 30	13	9	17	13	M12	44	24	19	5	3.5	14	20	A			17.92	030
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	150	A			22.64	050
SK 30	13	9	17	13	M12	44	24	19	5		14	20	B	17.92	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	50	B	15.25	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	150	B	22.64	050		

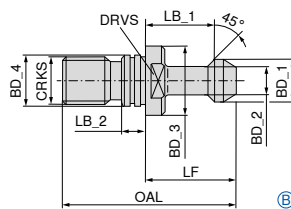
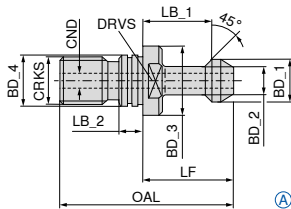
Pull studs for tool holders according to ISO 7388-1

▲ Similar to BT 45°, but 3 mm shorter

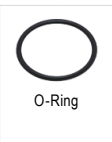
▲ for Haas, Micron and Hurco machines

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	83 538 ...		83 535 ...	
														£		£	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	50	A	Y8		22.07	040
SK 40	15	10	23	17	M16	57	32	25	5		19	50	B	26.19	040		



Spare parts

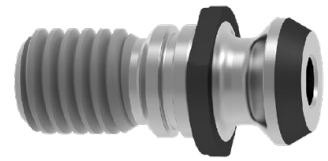
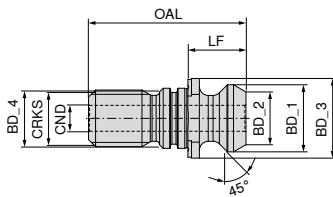
BD_4

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

Pull studs for tool holders according to ISO 7388-1

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

Scope of supply:
including O-Ring



NEW

82 469 ...

£
Y8

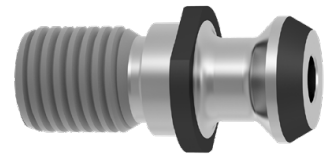
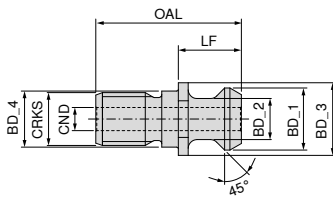
14.86 04000

Adapter	BD_1 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

Scope of supply:
including O-Ring



NEW

82 469 ...

£
Y8

14.86 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



83 476 ...

£
Y8

3.01 040

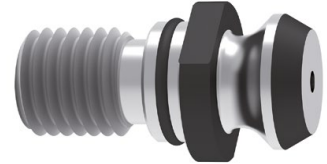
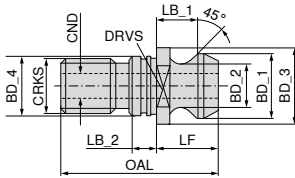
Spare parts
for Article no.
82 469 14000

Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

Scope of supply:

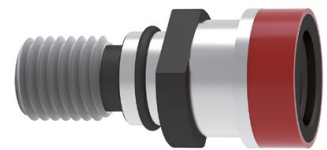
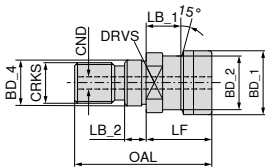
- SK 50 including O-ring
- SK 40 without O-ring groove



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	82 487 ...	
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£	
SK 40	18.79	12.44	21.8	17	M16	41.26	16.25	11.17	4.0	7.0	19	50	15.25	040
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	150	23.93	050

Pull studs for tool holders according to ISO 7388-1

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

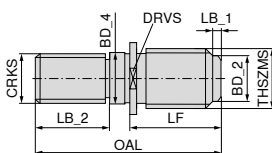


Adapter	BD_1	BD_2	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	without internal thread		with internal thread	
	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£		£	
SK 40	25.0	21.1	17	M16	53	25	13.6	8	7	19	50	24.95	040	24.95	040
SK 50	39.3	32.0	25	M24	65	25	13.3	10		30	150	28.46	050 ¹⁾	28.46	050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

- ▲ DECKEL thread S 20 x 2



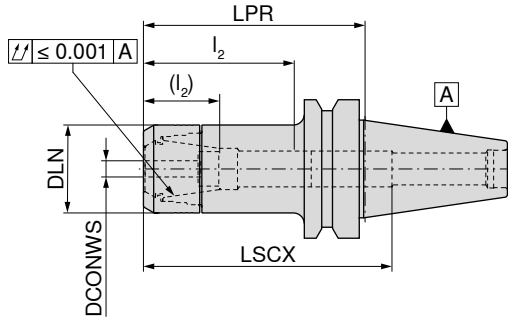
Adapter	THSZMS	CRKS	OAL	LF	LB_1	LB_2	BD_2	BD_4	DRVS	83 471 ...	
			mm	mm	mm	mm	mm	mm	mm	£	
SK 40	S 20 x 2	M16	55	33	4	17	16.7	17	22	42.89	040

ER Precision Collet chuck – Centro-P

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

Scope of supply:

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



AD
G 2,5 n_{max} 25000

84 524 ...

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

→ Transmittable torque moments, Page 313

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

Spare parts, ER precision collet chuck – Centro-P

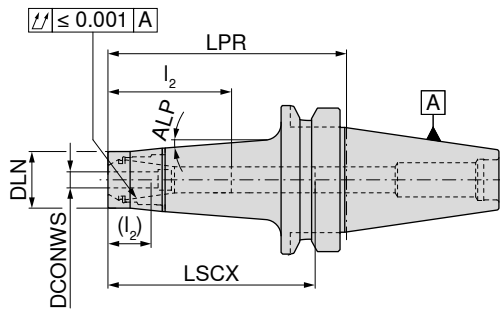
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	92.42	011	68.64	001	57.33	341	38.40	337
430E (ER25)	103.01	013	76.26	003	40.33	432	28.76	431
470E (ER32)	110.15	015	83.89	005	34.06	402	24.81	401
472E (ER40)	150.65	017	122.04	007			34.77	400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



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

84 517 ...

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

→ Transmittable torque moments, Page 313



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

Spare parts for collet	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	113.47	033	95.86	031	57.33	341	38.40	337

Accessories

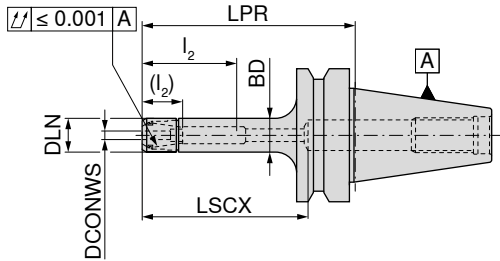
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-275, 279	→ 280	→ 286	→ 286	→ 110-111	→ 284

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



AD

G 2,5 n_{max} 25000

84 507 ...

£

Y8

007



AD/B

G 2,5 n_{max} 25000

84 508 ...

£

Y8

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	I_2 (I_2) mm	for collet		
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)	279.57	007
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	309.54	008
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		294.43 307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		303.86 40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		392.47 507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		409.82 90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		294.43 216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		294.43 316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		392.47 416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		392.47 516

→ Transmittable torque moments, Page 313



LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 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 ...
	£	£	£	£
	Y8	Y8	Y8	Y8
4008E (ER11)		95.86 041	54.64 340	36.39 336
426E (ER16)	93.35 035	76.59 034	57.33 341	38.40 337

Accessories

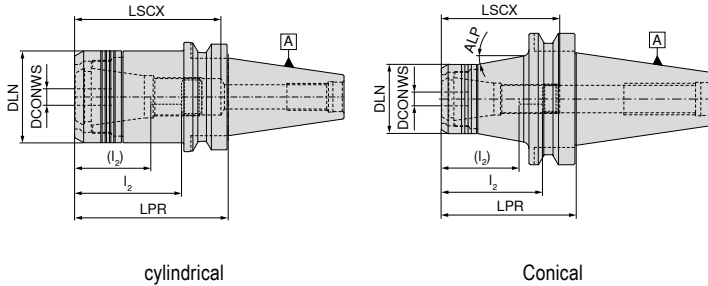
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 268-275, 279	→ 280	→ 285	→ 286	→ 286	→ 110-111	→ 284

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	£	£
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	407.76	12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	424.65	22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		632.13 12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		738.30 22068

→ 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	£ 127.88 30100	£ 34.06 402	£ 24.81 401

Accessories

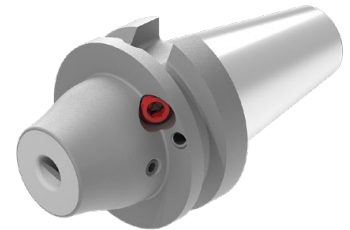
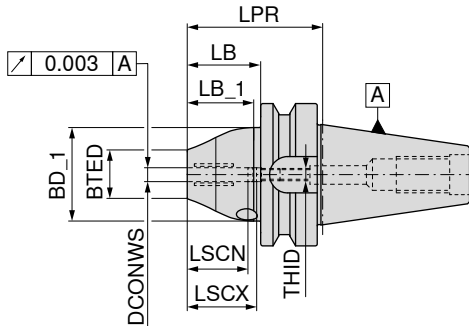
ER collet	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 286	→ 286	→ 110-111	→ 284

HyPower – Rough

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 254 ...

£
Y8

Adapter	DCONWS	LPR	BTED	BD_1	LB_1	LB	LSCX	LSCN	THID	£	
	mm	mm	mm	mm	mm	mm	mm	mm			
BT 40	6	58.0	26	42	27.2	31.0	37	27	M5	658.80	10669
BT 40	8	58.0	28	42	27.2	31.0	37	27	M6	658.80	10869
BT 40	10	58.0	30	42	27.2	31.0	41	31	M8x1	658.80	11069
BT 40	12	58.0	32	49	27.2	31.0	46	36	M10x1	658.80	11269
BT 40	16	72.5	38	49	41.7	45.5	49	38	M12x1	658.80	11669
BT 40	20	72.5	38	49	41.7	45.5	51	41	M16x1	658.80	12069

→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS	£		£		£	
	Y7		Y8		Y7	
6	7.73	050	12.96	55000	23.98	418
8	7.73	050	12.96	55000	23.98	419
10	7.73	050	12.96	55000	23.98	420
12	7.73	050	12.96	55000	23.98	421
16	7.73	050	12.96	55000	23.98	422
20	7.73	050	12.96	55000	27.66	424

Accessories

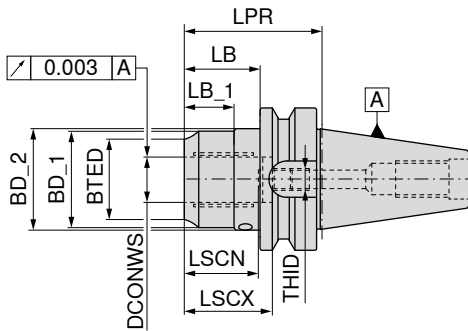
Reduction sleeve	Pull studs	Others
→ 282	→ 110–111	→ 284

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 513 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID	£	
BT 40	20	72.5	38					51	40	M16x1x13,5	429.89	120
BT 40	32	90.0	54	63		63.0		61	51	M16x1x13,5	518.94	13269
BT 50	20	83.5	38	49		45.5		51	41	M16x1x13,5	644.94	12068
BT 50	32	90.0	57	68	72	52.0	35	61	51	M16x1x13,5	644.94	13268

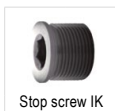
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

Article no.	SW5	£		M10x1x14	£		M16x1x13,5 - SW8	£	
83 513 13269		7.73	050		10.98	429		27.66	424
83 513 12068		7.73	050		10.98	429		27.66	424
83 513 13268		7.73	050		10.98	429		27.66	424

Accessories

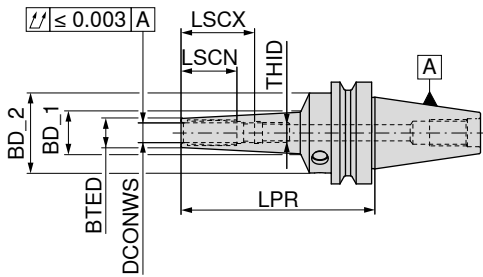
Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

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

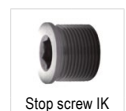


AD/B
G 2,5 n_{max} 25000

83 522 ...

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

→ Min. clamping depth, Page 312



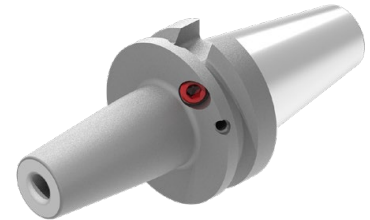
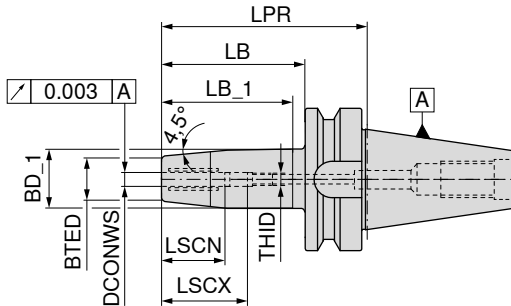
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
	£	Y7	£	Y7	£	Y7	£	Y7
83 522 103	M5x5 - SW2,5	3.67 157	SW5	7.73 050	M10x1x10	21.84 158	M3x20 - SW1,5	16.65 172
83 522 104	M5x5 - SW2,5	3.67 157	SW5	7.73 050	M10x1x10	21.84 158	M3x20 - SW1,5	16.65 172
83 522 105	M5x5 - SW2,5	3.67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

HyPower – Access 4.5°

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



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

84 255 ...

£
Y8

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	
BT 40	6	90	21	27	57.7	63	37	27	M5	788.40 10669
BT 40	8	90	21	27	57.7	63	37	27	M6	788.40 10869
BT 40	10	90	24	32	57.7	63	41	31	M8x1	788.40 11069
BT 40	12	90	24	32	57.7	63	46	36	M10x1	788.40 11269
BT 40	16	90	27	34	57.2	63	49	39	M12x1	788.40 11669
BT 40	20	90	33	42	57.5	63	51	41	M16x1	788.40 12069

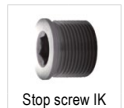
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

£
Y7

83 950 ...

£
Y8

83 950 ...

£
Y7

DCONWS							
6	SW5	7.73	050	M10x12	12.96	55000	M5x12,5 - SW2,5 23.98 418
8	SW5	7.73	050	M10x12	12.96	55000	M6x12,5 - SW3 23.98 419
10	SW5	7.73	050	M10x12	12.96	55000	M8x1x13,5 - SW3 23.98 420
12	SW5	7.73	050	M10x12	12.96	55000	M10x1x13,5 - SW5 23.98 421
16	SW5	7.73	050	M10x12	12.96	55000	M12x1x13,5 - SW5 23.98 422
20	SW5	7.73	050	M10x12	12.96	55000	M16x1x13,5 - SW8 27.66 424



Reduction sleeve

→ 282



Pull studs

→ 110–111



Others

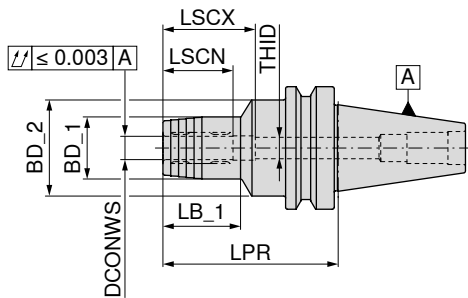
→ 284

HyTens – Fit

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

Scope of supply:

Base body with backstop screw and pressure screw

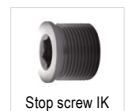
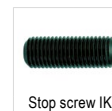


AD/B
G 2,5 n_{max} 25000

83 521 ...

Adapter	DCONWS	LPR	BD_1	BD_2	LSCX	LSCN	LB_1	THID	£	
	mm	mm	mm	mm	mm	mm	mm		Y8	
BT 40	6	90	26	49.5	37	27	29	M5	835.64	106
BT 40	8	90	28	49.5	37	27	30	M6	835.64	108
BT 40	10	90	30	49.5	41	31	35	M8x1	835.64	110
BT 40	12	90	32	49.5	46	36	40	M10x1	730.49	112
BT 40	16	90	38	49.5	49	39	45	M12x1	835.64	116
BT 40	20	90	42	49.5	51	41	47	M16x1	730.49	120
BT 40	25	90	55	52.0	57	47	50	M16x1	835.64	125
BT 40	32	90	63	62.0	61	51	48	M16x1	835.64	132
BT 50	6	90	26	49.5	37	27	29	M5	1,169.50	306
BT 50	8	90	28	49.5	37	27	30	M6	1,169.50	308
BT 50	10	90	30	49.5	41	31	34	M8x1	1,169.50	310
BT 50	12	90	32	49.5	46	36	34	M10x1	1,062.52	312
BT 50	16	90	38	49.5	49	39	35	M12x1	1,169.50	316
BT 50	20	90	42	49.5	51	41	35	M16x1	1,062.52	320
BT 50	25	110	55	63.0	57	47	48	M16x1	1,169.50	325
BT 50	32	110	63	70.0	61	51	50	M16x1	1,169.50	332

→ Min. clamping depth, Page 312



Spare parts	83 950 ...		83 950 ...		83 950 ...		
	£		£		£		
DCONWS	Y7		Y7		Y7		
6	16.61	439			23.98	418	
8	16.61	439	M6x14 - SW2	23.98	417	23.98	419
10	16.61	440				23.98	420
12	16.61	440				23.98	421
16	16.61	440				23.98	422
20 - 32	16.61	440				27.66	424

Accessories

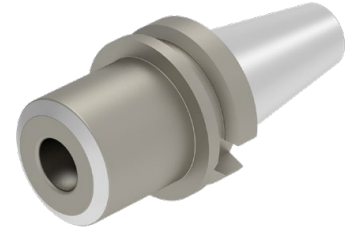
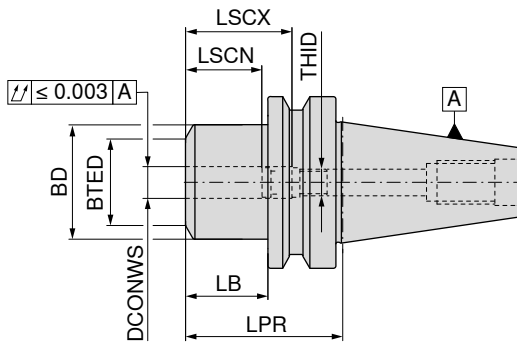
Reduction sleeve	Pull studs	Others
→ 282	→ 110-111	→ 284

HyTens – Compact

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 430 ...

£
Y8

377.13 01269

377.13 02069




674.03 02068

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

→ Min. clamping depth, Page 312

Spare parts for Article no.

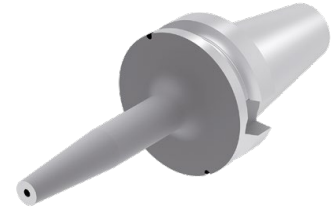
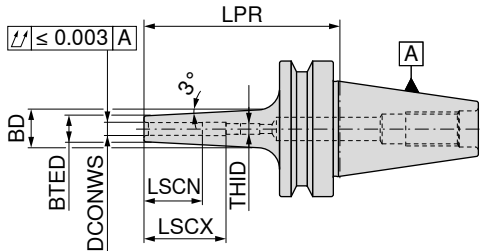
83 430 01269
83 430 02069
83 430 02068

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

Shrink adapter, Slim 3°

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

TG

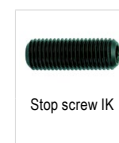


AD/B
G 2,5 n_{max} 25000

84 323 ...

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

→ Min. clamping depth, Page 312



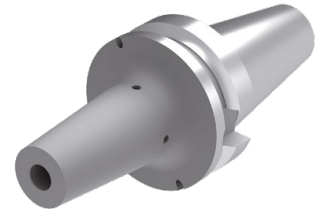
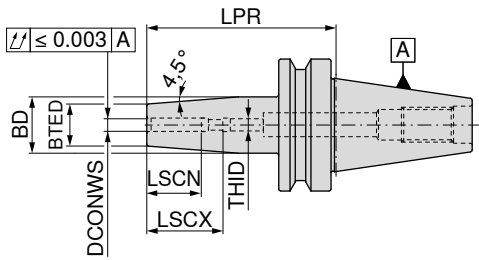
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



AD
G 2,5 n_{max} 25000





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

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

→ Min. clamping depth, Page 312

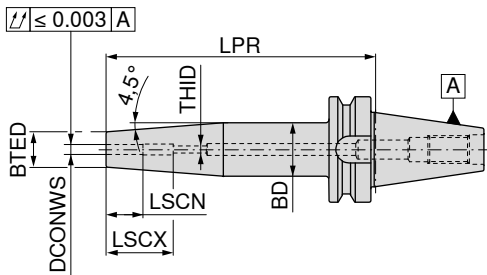
Spare parts heat shrink adapter 4.5°

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

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

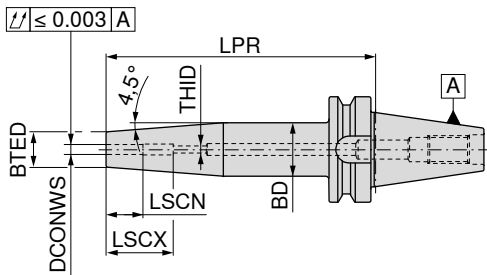
		Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID			
			mm	mm	mm	mm	mm	mm		£		
										Y8/3B		
short	BT 40	3	90	11	15					292.35	10369	
	BT 40	4	90	11	15					280.46	10469	
	BT 40	5	90	11	15					280.46	10569	
	BT 40	6	90	21	27	36	26	M5		251.66	10669	
	BT 40	8	90	21	27	36	26	M6		251.66	10869	
	BT 40	10	90	24	34	41	31	M8x1		251.66	11069	
	BT 40	12	90	24	34	46	36	M10x1		251.66	11269	
	BT 40	14	90	27	34	46	36	M10x1		251.66	11469	
	BT 40	16	90	27	34	49	39	M12x1		251.66	11669	
	BT 40	18	90	33	42	49	39	M12x1		251.66	11869	
	BT 40	20	90	33	42	51	41	M16x1		251.66	12069	
	BT 40	25	100	44	53	57	47	M16x1		251.66	12569	
		BT 50	6	100	21	27	36	26	M5		267.81	10668
		BT 50	8	100	21	27	36	26	M6		267.81	10868
		BT 50	10	100	24	32	41	31	M8x1		267.81	11068
		BT 50	12	100	24	32	47	37	M10x1		267.81	11268
		BT 50	14	100	27	34	47	37	M10x1		267.81	11468
		BT 50	16	100	27	34	50	40	M12x1		267.81	11668
BT 50		18	100	33	42	50	40	M12x1		267.81	11868	
BT 50		20	100	33	42	52	42	M16x1		267.81	12068	
BT 50		25	100	44	53	58	48	M16x1		267.81	12568	
BT 50		32	100	44	53	62	52	M16x1		267.81	13268	
medium length	BT 50	6	120	21	27	36	26	M5		294.10	20668	
	BT 50	8	120	21	27	36	26	M6		294.10	20868	
	BT 50	10	120	24	32	41	31	M8x1		294.10	21068	
	BT 50	12	120	24	32	47	37	M10x1		294.10	21268	
	BT 50	14	120	27	34	47	37	M10x1		294.10	21468	
	BT 50	16	120	27	34	50	40	M12x1		294.10	21668	
	BT 50	18	120	33	42	50	40	M12x1		294.10	21868	
	BT 50	20	120	33	42	52	42	M16x1		294.10	22068	
	BT 50	25	120	44	53	58	48	M16x1		294.10	22568	
	BT 50	32	120	44	53	62	52	M16x1		294.10	23268	

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

£
Y8/3B

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

→ Min. clamping depth, Page 312



Stop screw IK

82 950 ...

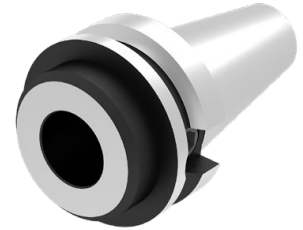
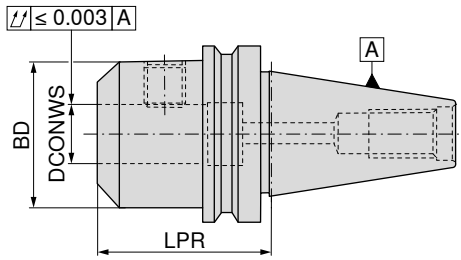
£
Y8/3B

Spare parts
DCONWS

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

Cylindrical shank adapter (Weldon)

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



NEW



AD

G 2,5 n_{max} 25000

82 741 ...

£

Y8

161.44 10670

147.10 10870

147.10 11070

147.10 11270

147.10 11470

147.10 11670

147.10 11870

176.16 12070

86.86 01669

86.86 02069

94.94 02569¹⁾

119.98 03269¹⁾

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

1) Version with two grub screws



Grubscrew

62 950 ...

£

W7

Spare parts

DCONWS

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

Accessories



Pull studs

→ 110-111

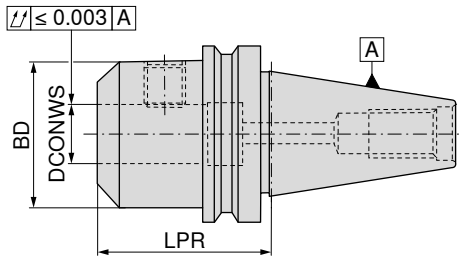


Others

→ 284

Cylindrical shank adapter (Weldon)

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



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

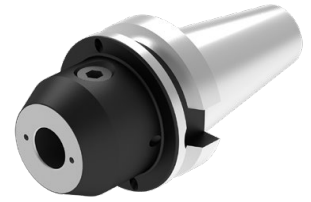
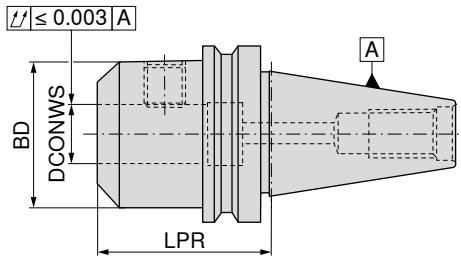
82 740 ...

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	£	
					Y8	
short	BT 40	6	50	25	80.37	10669
	BT 40	8	50	28	80.37	10869
	BT 40	10	63	35	75.86	11069
	BT 40	12	63	42	75.86	11269
	BT 40	14	63	44	75.86	11469
	BT 40	16	63	48	82.14	11669
	BT 40	18	63	50	82.14	11869
	BT 40	20	63	52	82.14	12069
	BT 40	25	100	65	90.11	12569
	BT 40	32	100	72	98.03	13269 ¹⁾
	BT 40	40	120	90	107.22	14069 ¹⁾
		BT 50	6	63	25	109.18
BT 50		8	63	28	109.18	10868
BT 50		10	80	35	106.13	11068
BT 50		12	80	42	112.61	11268
BT 50		14	80	44	112.61	11468
BT 50		16	80	48	112.61	11668
BT 50		18	80	50	112.61	11868
BT 50		20	80	52	112.61	12068
BT 50		25	100	65	125.23	12568 ¹⁾
BT 50		32	105	72	127.76	13268 ¹⁾
BT 50		40	120	90	132.43	14068 ¹⁾
medium length		BT 40	6	100	25	83.78
	BT 40	8	100	28	83.78	20869
	BT 40	10	100	35	79.09	21069
	BT 40	12	100	42	79.09	21269
	BT 40	14	100	44	78.56	21469
	BT 40	16	100	48	86.86	21669
	BT 40	18	100	50	86.48	21869
	BT 40	20	100	52	86.86	22069
	BT 50	6	100	25	122.32	20668
	BT 50	8	100	28	122.32	20868
	BT 50	10	100	35	116.94	21068
	BT 50	12	100	42	116.94	21268
BT 50	14	100	44	116.94	21468	
BT 50	16	100	48	117.66	21668	
BT 50	18	100	50	117.66	21868	
BT 50	20	100	52	117.66	22068	
BT 50	25	120	65	128.13	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 ...

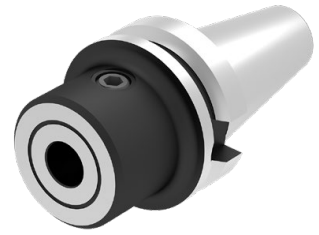
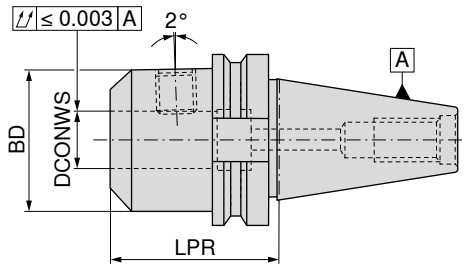
£
Y8

	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	82 740 ...	
					£	Y8
extra-long	BT 40	6	160	25	96.40	40669
	BT 40	8	160	28	96.40	40869
	BT 40	10	160	35	91.34	41069
	BT 40	12	160	42	91.34	41269
	BT 40	14	160	44	91.34	41469
	BT 40	16	160	48	91.71	41669
	BT 40	18	160	50	91.71	41869
	BT 40	20	160	52	91.71	42069
	BT 40	25	160	65	98.03	42569 ¹⁾
	BT 50	6	160	25	149.54	40668
	BT 50	8	160	28	149.54	40868
	BT 50	10	160	35	149.73	41068
	BT 50	12	160	42	149.73	41268
	BT 50	14	160	44	149.73	41468
	BT 50	16	160	48	148.99	41668
	BT 50	18	160	50	148.99	41868
	BT 50	20	160	52	148.99	42068
	BT 50	25	160	65	150.06	42568 ¹⁾
	BT 50	32	160	72	149.73	43268 ¹⁾

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

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



NEW





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

82 742 ...



	Adapter	DCONWS ^{H4} mm	LPR mm	BD mm	£	Y8
short	BT 40	6	50	25	99.12	10669
	BT 40	8	50	28	99.12	10869
	BT 40	10	63	35	91.89	11069
	BT 40	12	63	42	91.89	11269
	BT 40	14	63	44	91.89	11469
	BT 40	16	63	48	100.88	11669
	BT 40	18	63	50	100.88	11869
	BT 40	20	63	52	100.88	12069
	BT 40	25	100	65	128.29	12569 ¹⁾
	BT 40	32	100	72	139.81	13269 ¹⁾
	BT 40	40	120	80	162.40	14069 ¹⁾
	BT 50	6	63	25	169.12	10668
	BT 50	8	63	28	169.12	10868
	BT 50	10	80	35	161.60	11068
BT 50	12	80	42	161.60	11268	
BT 50	14	80	44	161.60	11468	
BT 50	16	80	48	162.56	11668	
BT 50	18	80	50	162.56	11868	
BT 50	20	80	52	162.56	12068	
BT 50	25	100	65	177.28	12568 ¹⁾	
BT 50	32	105	72	180.16	13268 ¹⁾	
long	BT 40	6	130	25	124.88	30669
	BT 40	8	130	28	124.88	30869
	BT 40	10	130	35	116.74	31069
	BT 40	12	130	42	116.74	31269
	BT 40	16	130	48	125.58	31669
	BT 40	20	130	52	125.58	32069
	BT 40	25	130	65	150.24	32569 ¹⁾
	BT 50	6	130	25	196.48	30668
	BT 50	8	130	28	196.48	30868
	BT 50	10	130	35	187.36	31068
	BT 50	12	130	42	187.36	31268
	BT 50	16	130	48	187.36	31668
	BT 50	20	130	52	187.36	32068
	BT 50	25	130	65	196.48	32568 ¹⁾
BT 50	32	130	72	198.24	33268 ¹⁾	

1) Version with two grub screws

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

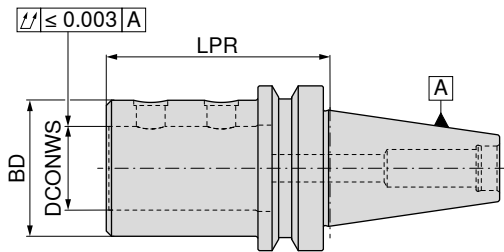
		 Grubscrew		 Backstop screw	
		62 950 ...		84 950 ...	
		£ W7		£ Y8	
Spare parts					
DCONWS_{H4}					
6	M6x10	1.11	006	M5x20	14.78 44100
8	M8x10	1.11	008	M6x20	5.13 21500
10	M10x12	2.12	010	M8x16	14.78 44200
12 - 14	M12x16	1.68	012		
16 - 18	M14x16	2.08	016	M12x20	14.78 44300
20	M16x16	2.21	020		
25	M18x2x20	4.27	025	M20x24	14.78 44000
32 - 40	M20x2x20	4.46	032	M20x24	14.78 44000

Accessories

	
Pull studs	Others
→ 110-111	→ 284

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

▲ also available with Balluff chip on request

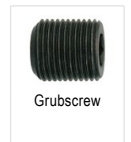


AD/B
G 6,3 n_{max} 15000

82 748 ...
£
Y8
254.08 12069
254.08 12569
254.08 13269
322.72 12068
322.72 12568
322.72 13268
322.72 14068
322.72 15068

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

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



10 950 ...

Spare parts
DCONWS

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

Accessories

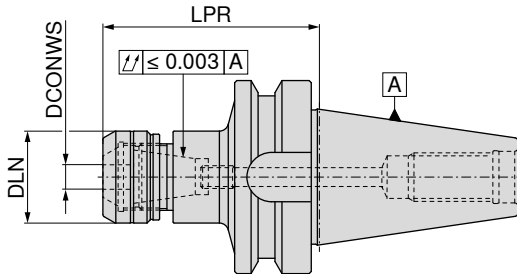
Pull studs	Others
→ 110-111	→ 284

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



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

82 700 ...

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



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

Spare parts for collet	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	£ Y8	£ Y8	£ Y8	£ Y8
426E (ER16)	82.32 11000	77.57 01000	M8X3,0	7.75 00100
430E (ER25)	82.32 11600	77.57 01600	M18x1,5	10.55 00200
470E (ER32)	82.32 12000	77.57 02000	M18x1,5	10.55 00200

Accessories

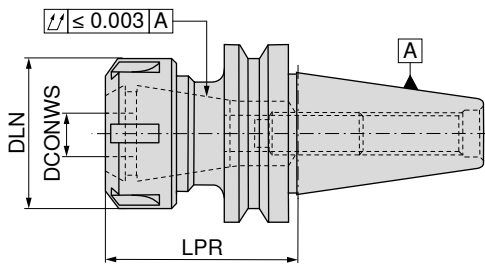
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000

82 743 ...

£
Y8
166.72 11070
166.72 11670
166.72 12070



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

82 743 ...

£
Y8
213.44 11169
112.22 11069
117.30 11669
117.66 12069
122.32 12669

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	1 - 10	70	32	56	426E (ER16)		
	BT 30	1 - 16	70	42	104	430E (ER25)		
	BT 30	2 - 20	70	50	136	470E (ER32)		
	BT 40	1 - 10	60	22	56	426E (ER16 mini)		213.44 11169
	BT 40	1 - 10	60	32	56	426E (ER16)		112.22 11069
	BT 40	1 - 16	70	42	104	430E (ER25)		117.30 11669
	BT 40	2 - 20	70	50	136	470E (ER32)		117.66 12069
	BT 40	3 - 26	70	63	176	472E (ER40)		122.32 12669
	BT 50	1 - 10	75	32	56	426E (ER16)		149.90 11068
	BT 50	1 - 16	75	42	104	430E (ER25)		135.33 11668
	BT 50	2 - 20	75	50	136	470E (ER32)		142.32 12068
	BT 50	4 - 26	75	63	176	472E (ER40)		145.22 12668
medium length	BT 30	1 - 10	100	32	56	426E (ER16)		232.96 21070
	BT 30	1 - 16	100	42	104	430E (ER25)		232.96 21670
	BT 40	1 - 10	120	22	56	426E (ER16 mini)		213.44 21169
	BT 40	1 - 10	120	32	56	426E (ER16)		123.06 21069
	BT 40	1 - 16	120	42	104	430E (ER25)		128.13 21669
	BT 40	2 - 20	120	50	136	470E (ER32)		128.48 22069
	BT 40	3 - 26	100	63	176	472E (ER40)		159.84 22669
	BT 50	1 - 10	100	32	56	426E (ER16)		167.36 21068
	BT 50	1 - 16	100	42	104	430E (ER25)		138.54 21668
	BT 50	2 - 20	100	50	136	470E (ER32)		148.26 22068
	BT 50	3 - 26	100	63	176	472E (ER40)		156.40 22668
	extra-long	BT 40	1 - 10	160	32	56	426E (ER16)	
BT 40		1 - 16	160	42	104	430E (ER25)		170.56 41669
BT 40		2 - 20	160	50	136	470E (ER32)		170.56 42069
BT 40		3 - 26	160	63	176	472E (ER40)		180.32 42669
BT 50		1 - 16	160	42	104	430E (ER25)		153.50 41668
BT 50		2 - 20	160	50	136	470E (ER32)		169.12 42068

Spare parts

for collet

	£		£		£		£		£		£
426E (ER16 mini)											
426E (ER16)	82.98	054	25.64	054	28.20	116					
430E (ER25)	96.66	055	26.70	055	28.20	125					
470E (ER32)	103.38	056	27.37	056	41.07	132					
472E (ER40)	124.40	057	28.36	057	46.52	140					

	Lock nut IK	83 950 ...	£ Y8
	Lock nut	62 950 ...	£ W7/GB
	Y clamping key	83 357 ...	£ Y8
	ER Mini clamping key	83 950 ...	£ Y8
	Mini lock nut	62 950 ...	£ W7
	Mini IK	83 950 ...	£ Y8
	Stop screw IK	84 950 ...	£ Y8

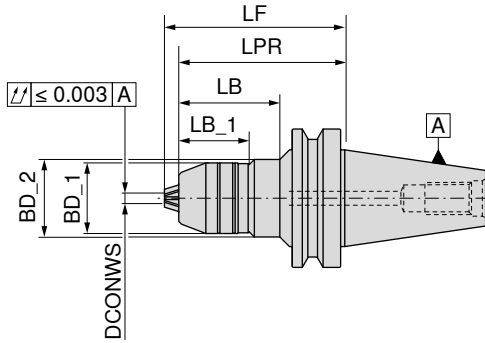
Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

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 ...		84 510 ...	
								£		£	
BT 40	0,5 - 13	48.5		50.9	80	80	89.0	536.37	413	486.62	413
BT 40	2,5 - 16	51.0		50.9	80	80	90.5	444.48	416	477.87	416
BT 50	2,5 - 16	51.0	56	50.9	73	120	130.5	632.47	516	665.84	516

Accessories



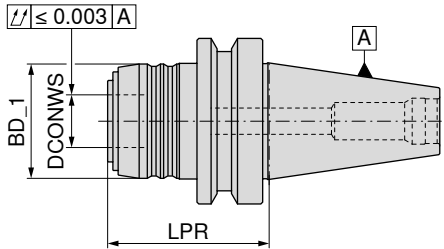
Others

→ 284

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

Synchro tapping chuck with minimum length compensation

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



AD

83 515 ...

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

Accessories



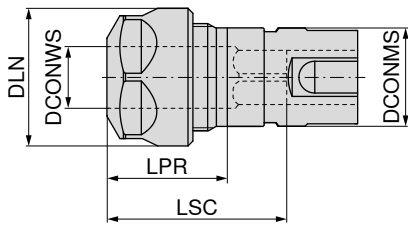
Pull studs	Others
→ 110-111	→ 284

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

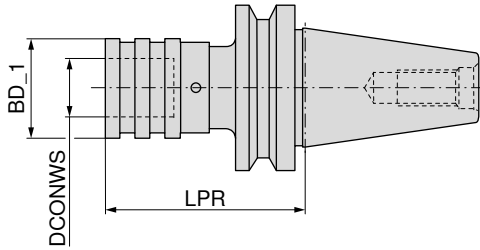
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	Y8	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	236.04	020
								274.95	

1) with 6 position lock nut

Spare parts for Article no.	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
83 608 012	W7	044	Y8	054	W7	054	Y8	116
83 608 020	32.23		96.66	055	26.70	055	28.20	125

Quick change tap chuck with length compensation

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



A

83 528 ...

Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LZD±	£	
			mm	mm	mm	mm	Y8	
BT 30	M3 - M12	01	63	38	19	9	588.80	312
BT 30	M6 - M20	02	96	55	31	15	738.41	320
BT 40	M3 - M12	01	68	38	19	9	472.44	412
BT 40	M6 - M20	02	93	55	31	15	490.14	420
BT 50	M3 - M12	01	80	38	19	9	791.71	512
BT 50	M6 - M20	02	102	55	31	15	911.44	520

Accessories

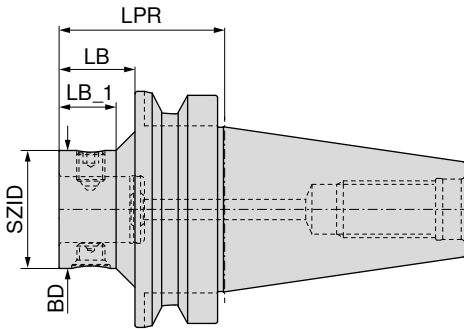
		
Collet	Pull studs	Others
→ 288, 290-292	→ 110-111	→ 284

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



AD



AD/B

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

Conversion kit – Cooling agent supply



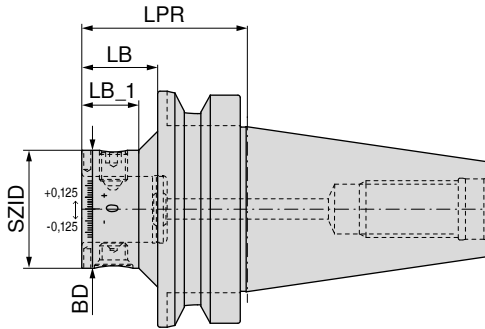
		84 950 ...
for	Adapter	£
4 mm	SK 40	W7/6B 6.96 23200
6 mm	SK 50	6.96 23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



AD



AD/B

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

84 205 ...	£
W4/6A	
781.53	04096
894.82	05096

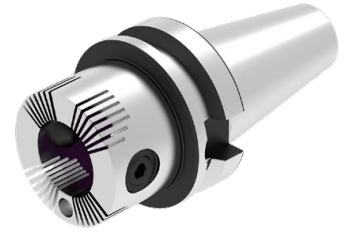
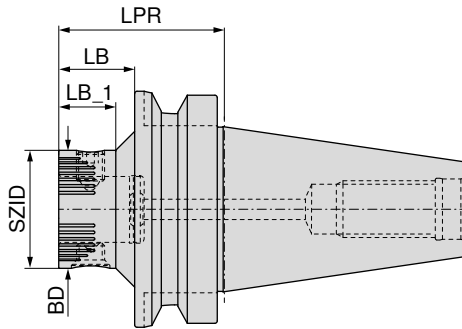
84 205 ...	£
W4/6A	
607.16	04097
681.10	05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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

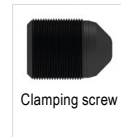


AD/B

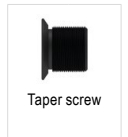
84 208 ...

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

£	
3E	
657.48	04097
652.32	04096
725.61	05097
788.47	05096



Clamping screw



Taper screw

84 950 ...

£	
XX	
10.95	20300
10.42	25500

84 950 ...

£	
XX	
13.91	20400
13.22	27300

Spare parts

SZID

ABS 50

ABS 63

Accessories



Pull studs

→ 110-111



Extension

→ 187

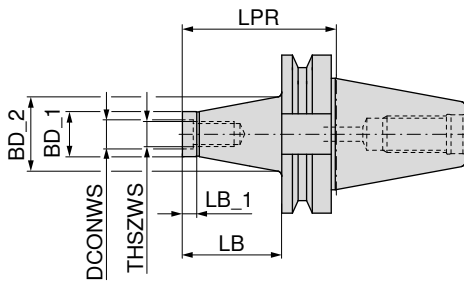


Others

→ 284

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

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

Accessories

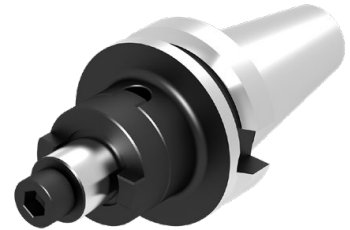
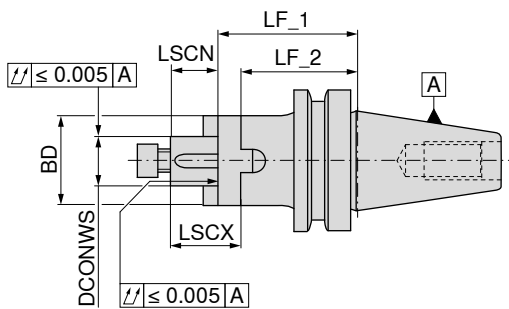
Extension-Reduction set → 257	Pull studs → 110-111	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2,5 n_{max} 25000

82 744 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm			
short	BT 30	16	45	32	27	17	35		161.44 11670	
	BT 30	22	47	40	31	19	35		161.44 12270	
	BT 30	27	49	46	33	21	37		171.52 12770	
	BT 40	16	55	32	27	17	45		110.98 11669	
	BT 40	22	55	40	31	19	43		115.33 12269	
	BT 40	27	55	48	33	21	43		117.66 12769	
	BT 40	32	60	58	38	24	46		124.34 13269	
	BT 40	40	60	70	41	27	46		130.82 14069 ¹⁾	
	BT 50	16	70	32	27	17	60		170.40 11668	
	BT 50	22	70	40	31	19	58		176.16 12268	
	BT 50	27	70	48	33	21	58		189.12 12768	
	BT 50	32	70	58	38	24	56		194.72 13268	
	BT 50	40	70	70	41	27	56		201.76 14068 ¹⁾	
	medium length	BT 30	16	80	32	27	17	70		205.60 21670
		BT 30	22	80	40	31	19	68		205.60 22270
BT 30		27	90	48	33	21	78		209.92 22770	
BT 40		16	100	32	27	17	90		140.26 21669	
BT 40		22	100	40	31	19	88		146.06 22269	
BT 40		27	100	48	33	21	88		148.72 22769	
BT 40		32	100	58	38	24	86		156.98 23269	
BT 40		40	100	70	41	27	86		165.12 24069 ¹⁾	

1) With cross screw



Spare parts	83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
DCONWS	£ Y8/3B	£ Y8	£ Y8	£ Y8	£ Y8/3B
16	4 x 4 x 20 4.17 284	15.42 116	25.47 116	M8 6.77 016	M8x25 7.18 113
22	6 x 6 x 25 4.17 285	14.79 122	31.70 122	M10 7.53 022	M10x25 8.10 124
27	7 x 7 x 25 6.62 286	18.45 127	37.27 127	M12 9.63 027	M12x30 8.95 125
32	8 x 7 x 28 4.72 287	19.36 132	50.79 132	M16 15.12 032	M16x35 10.90 126
40	10 x 8 x 32 5.57 288	32.61 140	50.45 140	M20 16.18 040	M20x40 - SW17 12.02 112

Accessories

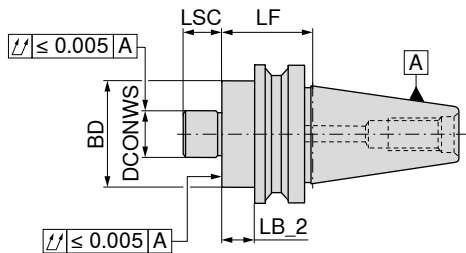


Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



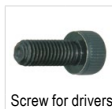
AD
G 2,5 n_{max} 25000

82 315 ...

£	
Y8/3B	112.65 12269
	108.93 12769
	156.45 12268
	161.41 12768

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

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



Screw for drivers



Driver



clamping screw

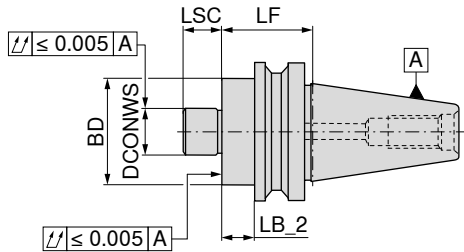
Spare parts	DCONWS		£	83 950 ...		£	83 950 ...		£	83 950 ...
	22	M4x8	0.76	51700	10x7x20,5	10.73	51500	M10x25	8.10	124
	27	M5x8	0.93	51800	12x9x24,3	12.23	51600	M12x30	8.95	125

Shell mill adapter

- ▲ 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



AD
G 2,5 n_{max} 25000

82 745 ...

£	
Y8	
151.84	11670
151.84	12270
161.44	12770
177.12	13270



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

82 745 ...

£	
Y8	
	110.98 11669
	117.47 12269
	119.81 12769
	126.13 13269
	137.14 14069 ¹⁾

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	BT 30	16	18	40	38	17			
	BT 30	22	18	40	48	19			
	BT 30	27	18	50	58	21			
	BT 30	32	28	50	78	24			
	BT 40	16	25	52	38	17			
	BT 40	22	25	52	48	19			
	BT 40	27	25	52	58	21			
	BT 40	32	23	50	78	24			
	BT 40	40	23	50	88	27			
	BT 50	16	25	63	38	17	146.67	11668	
	BT 50	22	25	63	48	19	150.24	12268	
	BT 50	27	25	63	58	21	155.31	12768	
medium length	BT 40	16	73	100	38	17			
	BT 40	22	73	100	48	19			
	BT 40	27	73	100	58	21			
	BT 40	32	73	100	78	24			
	BT 40	40	73	100	88	27			
	BT 50	16	62	100	38	17	160.32	21668	
	BT 50	22	62	100	48	19	164.16	22268	
	BT 50	27	62	100	58	21	168.96	22768	
	BT 50	32	62	100	78	24	174.24	23268	
	BT 50	40	62	100	88	27	178.08	24068 ¹⁾	
	long	BT 40	16	103	130	38	17		121.97 31669
		BT 40	22	103	130	48	19		126.13 32269
BT 40		27	103	130	58	21		128.13 32769	
BT 40		32	103	130	78	24		134.24 33269	
BT 40		40	103	130	88	27		140.18 34069 ¹⁾	
BT 50		16	92	130	38	17	171.04	31668	
BT 50		22	92	130	48	19	174.72	32268	
BT 50		27	92	130	58	21	180.00	32768	
BT 50		32	92	130	78	24	185.76	33268	
BT 50		40	92	130	88	27	189.12	34068 ¹⁾	
extra-long		BT 40	16	133	160	38	17		126.13 41669
		BT 40	22	133	160	48	19		130.26 42269
	BT 40	27	133	160	58	21		132.06 42769	
	BT 40	32	133	160	78	24		138.19 43269	
	BT 40	40	133	160	88	27		143.97 44069 ¹⁾	
	BT 50	16	122	160	38	17	177.12	41668	
	BT 50	22	122	160	48	19	180.16	42268	
	BT 50	27	122	160	58	21	185.76	42768	
	BT 50	32	122	160	78	24	190.88	43268	
	BT 50	40	122	160	88	27	194.72	44068 ¹⁾	

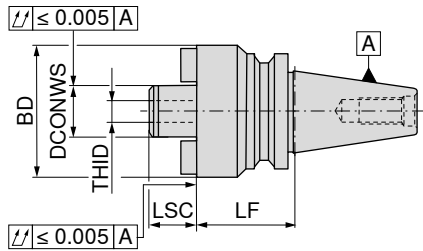
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Large diameter facemill adapter

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

Scope of supply:

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



NEW



A
G 6,3 n_{max} 8000

82 432 ...

£
Y8

263.04 14068
319.04 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 ...

£
Y8

9.91 166

84 950 ...

£
Y8

40.65 161
43.82 43100

83 950 ...

£
Y8/3B

8.94 140
18.37 160

Spare parts

DCONWS

DCONWS	Screw for drivers	Driver	Clamping screw
40	M5x16	16x16x23	M12x50
60	M12x25	25,4x25x26,5	M16x45

Accessories



Pull studs

→ 110-111

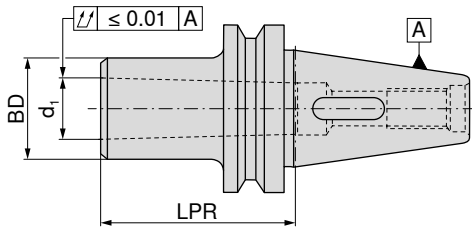


Others

→ 284

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

▲ also available with Balluff chip on request



NEW



AD

G 6,3 n_{max} 12000

82 746 ...

£
Y8

Adapter	d ₁	LPR	BD		
		mm	mm		
BT 30	MK1	50	25		
BT 30	MK2	60	32	144.19	11070
BT 30	MK3	77	40	144.19	12070
				156.78	13070
BT 40	MK1	50	25	97.66	11069
BT 40	MK2	50	32	97.66	12069
BT 40	MK3	70	40	104.30	13069
BT 40	MK4	95	48	108.83	14069
BT 50	MK1	45	25	133.52	11068
BT 50	MK2	60	32	138.19	12068
BT 50	MK3	65	40	138.19	13068
BT 50	MK4	95	48	142.69	14068
BT 50	MK5	105	63	155.17	15068

Accessories

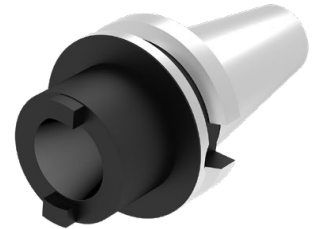
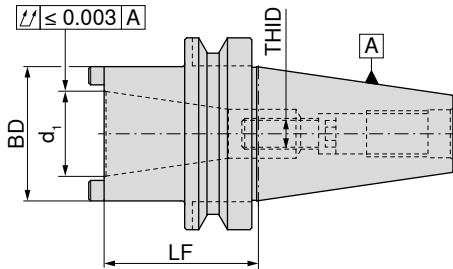
		
Morse taper adapter sleeve	Pull studs	Others
→ 242	→ 110-111	→ 284

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 ...

£
Y8
235.04 13069
235.04 14069

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

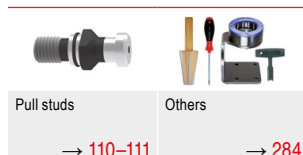
Spare parts for Article no.

Article no.	Clamping screw SK	Clamping Screw	Counterscrew	Hollow key with nose	Threaded ring	clamping screw
84 040 13069	£ Y8/3B 13.51	£ Y8 7.12	£ Y8/3B 0.96	£ Y8/3B 60.20	£ Y8 49.77	£ Y8/3B 8.95
84 040 14069	264	43700	030	023	127	125

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

ISO 7388-2 Suitable for article no.	Taper Shank	Clamping screw length	Clamping screw length
	∅ d _i	ISO 7388-1, ISO 7388-2 THID	DIN 2080 THID
84 040 13069	SK 30 – BT 30	M12x55	M12x35 – 83 950 018
84 040 14069	SK 40 – BT 40	M16x60	M16x35 – 83 950 126
84 040 14068	SK 50 – BT 50	M16x70 – 83 950 256	M16x40 – 83 950 009

Accessories



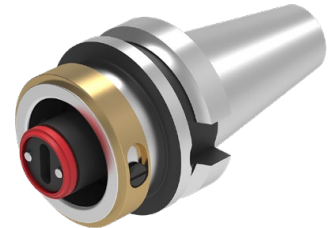
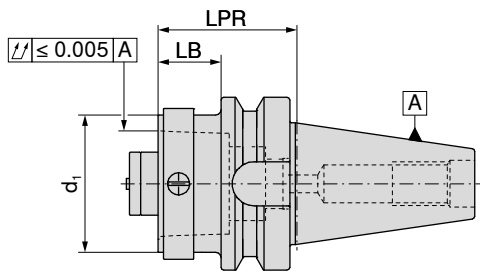
Pull studs → 110-111
Others → 284

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 ...

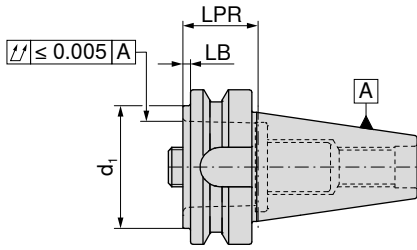
£
Y8

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

BT/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 017 ...

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



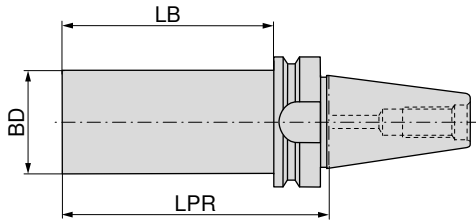
84 950 ...

84 950 ...

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

Blank

- ▲ Material: Steel 16MnCr5
- ▲ for production of special tools
- ▲ Diameter BD turned with 0.5 mm oversize
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



NEW



AD/B

82 747 ...

£
Y8

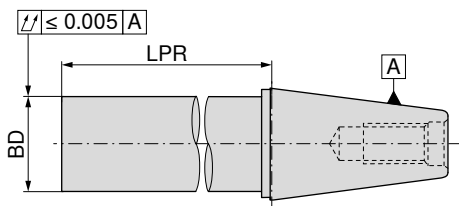
129.36 16369
228.96 16368

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

Test bar

- ▲ Without clamping slots
- ▲ For MAS BT 40, use special tightening bolts with 3 mm shorter LF dimension, as standard

Scope of supply:
in wooden box



NEW



A

81 746 ...

£
Y8

564.00 14079
695.36 15078

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

Accessories



Pull studs

Others

→ 110-111

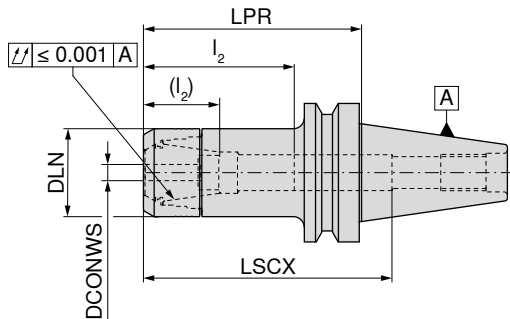
→ 284

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

→ 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.	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	£		£		£		£	
84 525 002	92.42	011	68.64	001	57.33	341	38.40	337
84 525 012	103.01	013	76.26	003	40.33	432	28.76	431
84 525 022	110.15	015	83.89	005	34.06	402	24.81	401
84 525 102	92.42	011	68.64	001	57.33	341	38.40	337
84 525 112	103.01	013	76.26	003	40.33	432	28.76	431
84 525 122	110.15	015	83.89	005	34.06	402	24.81	401

Accessories

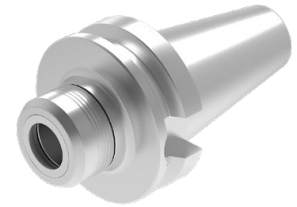
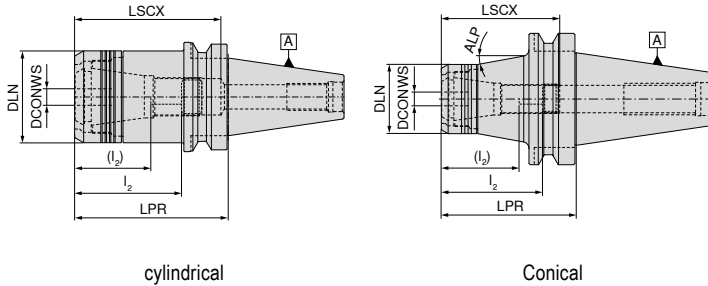
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 268-276, 278-279	→ 280	→ 286	→ 286	→ 110-111	→ 284

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 σ_{max} 18000

cylindrical



AD
G 6,3 σ_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	£	£
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	Y8	12064
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)	632.13	22064
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)		1,025.41 12063
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)		1,035.06 22063

→ Transmittable torque moments, Page 313



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

Spare parts

DCONWS

2 - 20

Lock nut	Stop screw 2	Stop screw 1
£ Y8	£ Y8	£ Y8
127.88 30100	34.06 402	24.81 401

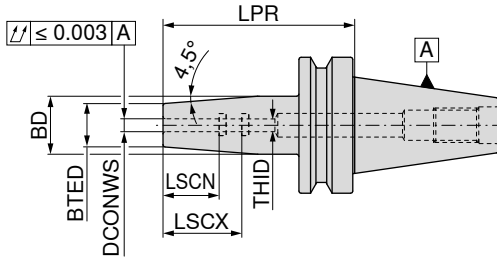
Accessories

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

Shrink fit adapters 4.5° – BT-FC

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

TG



AD

G 2,5 n_{max} 25000



AD/B

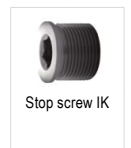
G 2,5 n_{max} 25000

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

→ Min. clamping depth, Page 312



Stop screw IK



Stop screw IK

Spare parts
DCONWS

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

Accessories

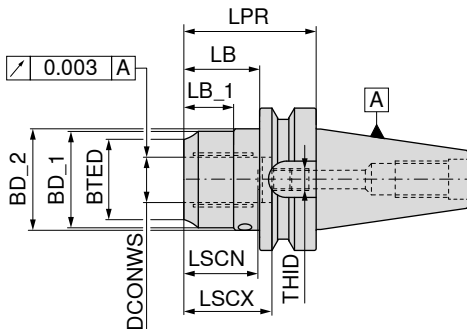
Shrink fit extension	Pull studs	Others
→ 247	→ 110-111	→ 284

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw

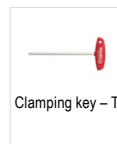


AD
G 2,5 n_{max} 25000

83 527 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LB_1 mm	LSCX mm	LSCN mm	THID	£	
BT-FC 40	20	72.5	38					51	40	M16x1x13,5	459.79	120
BT-FC 40	32	90.0	54	63	62	64.0	48	61	51	M16x1x13,5	558.00	13274
BT-FC 50	20	83.5	38	49		47.0		51	41	M16x1x13,5	667.80	12073
BT-FC 50	32	90.0	57	68	72	53.5	35	61	51	M16x1x13,5	667.80	13273

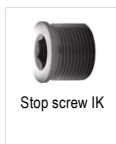
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

Article no.	Part	£		Part	£		Part	£	
83 527 120	SW5	7.73	050	M10x1x10	21.84	158	M8x1x13,5 - SW3	23.98	420
83 527 13274	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424
83 527 12073	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424
83 527 13273	SW5	7.73	050	M10x1x14	10.98	429	M16x1x13,5 - SW8	27.66	424

Accessories



Reduction sleeve

Pull studs

Others

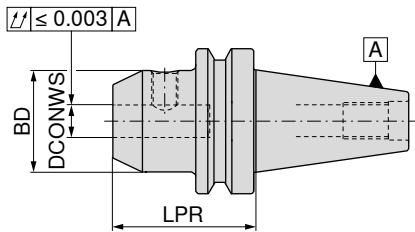
→ 282

→ 110-111

→ 284

Cylindrical shank adapter (Weldon) – BT-FC

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



AD
G 2,5 n_{max} 25000

84 552 ...

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

1) Version with two grub screws



Grubscrew

62 950 ...

Spare parts

DCONWS

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

Accessories

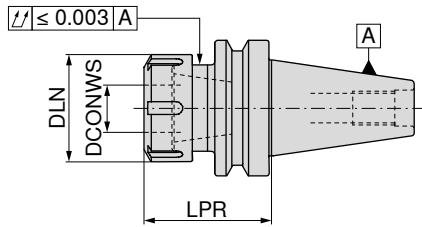
Pull studs	Others
→ 110–111	→ 284

ER Collet chuck – BT-FC

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

Scope of supply:

Toolholder including nut



AD
G 2,5 n_{max} 20000

84 557 ...

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

1) with 6 position lock nut

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£	W7	£	Y8	£	W7/6B	£	Y8
426E (ER16) / BT30-BT50		M22x1,5 - SW25	62 950 ...	83 950 ...	62 950 ...		83 357 ...	
430E (ER25) / BT30-BT50	32.23		044	054	055	26.70	28.20	125
470E (ER32) / BT30-BT50				056	056	27.37	41.07	132

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

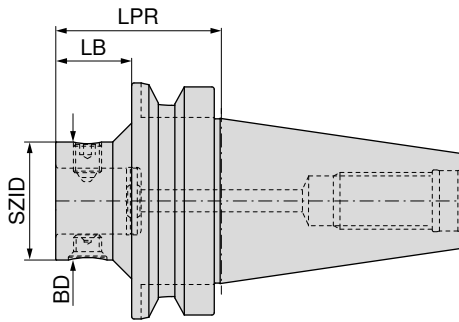
Accessories

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

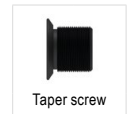
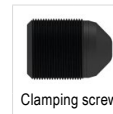


AD

84 264 ...

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

£	Y8	
1,154.29	05064	
1,187.67	06364	
1,571.33	05063	
1,613.47	06363	
1,638.08	08063	
1,655.82	10063	



84 950 ...

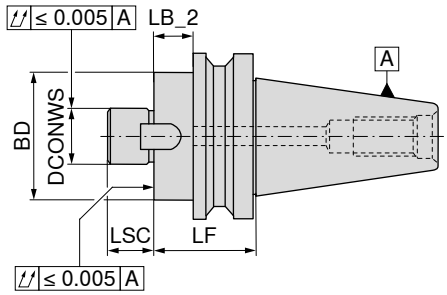
84 950 ...

Spare parts

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

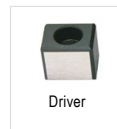
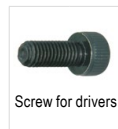
Shell mill adapter – BT-FC

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



AD
G 6,3 n_{max} 15000

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	84 562 ...	
							£	
short	BT-FC 30	16	18	39.0	40	17	Y8	016
	BT-FC 30	22	18	39.0	50	19	147.06	022
	BT-FC 30	27	18	39.0	60	21	147.06	027
	BT-FC 30	32	28	49.0	80	24	147.06	032
	BT-FC 40	16	8	34.0	40	17	176.84	116
	BT-FC 40	22	8	34.0	50	19	176.84	122
	BT-FC 40	27	8	34.0	60	21	176.84	127
	BT-FC 40	32	23	49.0	80	24	176.84	132
	BT-FC 40	40	23	49.0	89	27	176.84	140
	BT-FC 50	22	12	48.5	50	19	204.72	322
	BT-FC 50	27	12	48.5	60	21	204.72	327
	BT-FC 50	32	12	48.5	80	24	217.78	332
	BT-FC 50	40	17	53.5	89	27	217.78	340



Spare parts DCONWS	84 950 ...		84 950 ...		83 950 ...					
	£		£		£					
16	Y8	M3x12	9.91	162	8x9x11	25.20	157	M8x25	7.18	113
22	Y8	M4x10	9.91	163	10x11,2x13	29.67	158	M10x25	8.10	124
27	Y8	M4x16	9.91	164	12x12,6x15	32.14	159	M12x30	8.95	125
32	Y8	M5x16	9.91	165	14x14x22,5	36.52	160	M16x35	10.90	126
40	Y8	M5x16	9.91	166	16x16x23	40.65	161	M20x40 - SW17	12.02	112

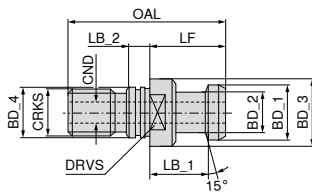
Accessories

→ 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 ...

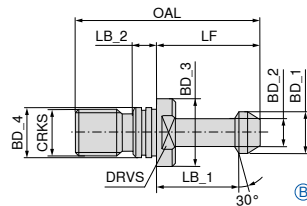
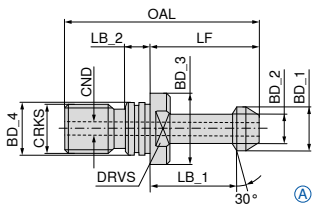
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	50

£
Y8
22.15 040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



82 533 ...

82 531 ...

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

£
Y8

£
Y8

21.99 030
18.83 040
26.71 050

21.99 030
28.28 050



83 476 ...

Spare parts

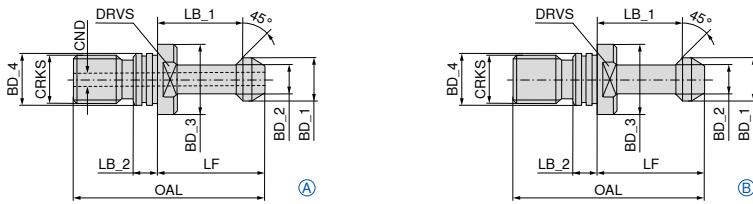
BD_4

17	BT / SK 40	£ 3.01	040
25	BT / SK 50	£ 3.01	050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

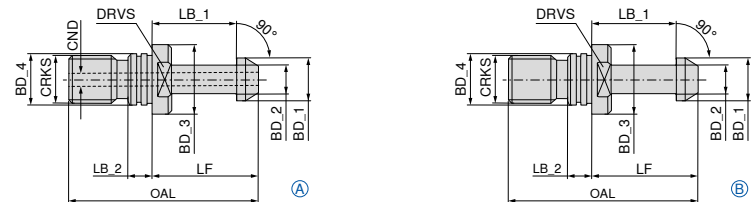


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														£		£	
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	50	A	Y8		21.99	040
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	20	A			21.99	030
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	150	A			28.28	050
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	20	B	21.99	030		
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	50	B	18.83	040		
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	150	B	26.71	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



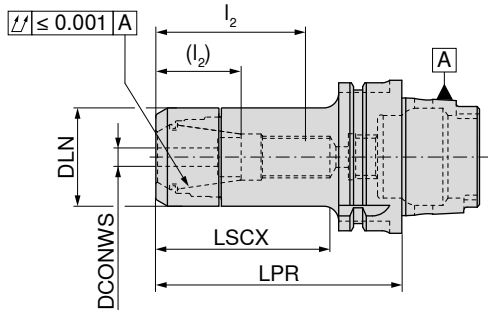
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														£		£	
BT 50	23	17	38	25	M24	85	45	35	8.0	6	30	150	A	Y8		28.28	050
BT 40	15	10	23	17	M16	60	35	28	5.5	4	19	50	A			21.99	040
BT 40	15	10	23	17	M16	60	35	28	5.5		19	50	B	18.83	040		
BT 50	23	17	38	25	M24	85	45	35	8.0		30	150	B	26.71	050		

ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 722 ...

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

1) Item cannot be combined with backstop screw

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

→ Transmittable torque moments, Page 313



LSCX = Clamping depth without back stop screw for shanks
l₂ = With back stop screw 1, Dimension in brackets (l₂) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts ER precision collet chuck – Centro-P

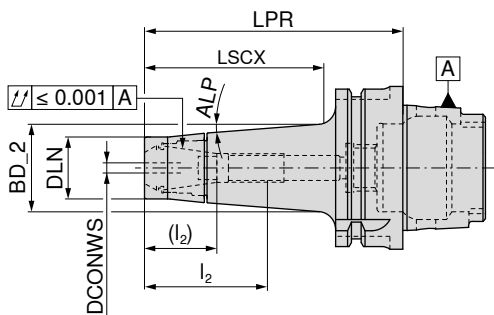
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1			
	£		£		£		£			
426E (ER16)	92.42	011	68.64	001						
426E (ER16)	92.42	011	68.64	001	M11x1 - SW6	57.33	341	M11x1 - SW6	38.40	337
430E (ER25)	103.01	013	76.26	003	M18x1,5 - SW6	40.33	432	M18x1,5 - SW6	28.76	431
470E (ER32)	110.15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

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

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

→ Transmittable torque moments, Page 313



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

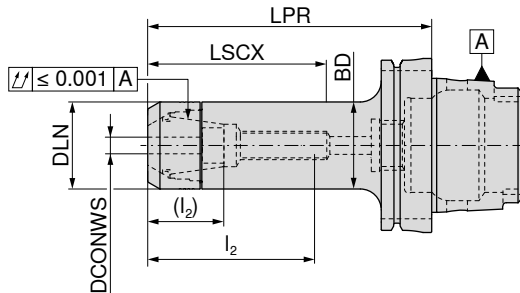
Spare parts for collet	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	113.47	033	95.86	031	57.33	341	38.40	337

ER precision collet chuck, slim – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

84 719 ...

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

→ Transmittable torque moments, Page 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 ...
	£ Y8	£ Y8	£ Y8	£ Y8
4008E (ER11)		95.86 041	54.64 340	36.39 336
426E (ER16)	93.35 035	76.59 034	57.33 341	38.40 337

Accessories

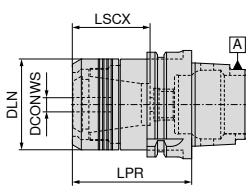
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268-275, 279	→ 280	→ 285	→ 286	→ 286	→ 156	→ 284

ER precision collet chuck – HDC

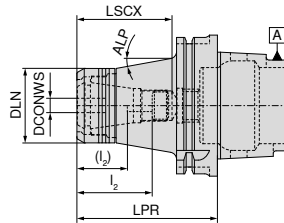
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

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	£ Y8	£ Y8
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	482.55	12057
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	482.55	22057
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)		801.03 22055

→ Transmittable torque moments, Page 313



LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

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

Accessories

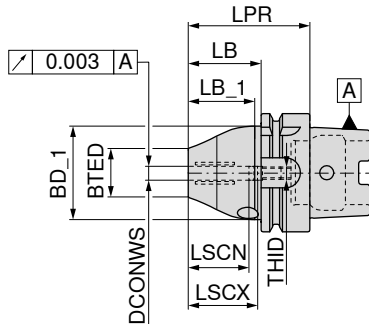
ER collet	Roll key	Roll key device	Others
→ 268-276, 278-279	→ 286	→ 286	→ 284

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	£	
HSK-A 63	6	65	26	50.0	35.2	39	37	27	M5	666.00	10657
HSK-A 63	8	65	28	50.0	35.2	39	37	27	M6	666.00	10857
HSK-A 63	10	75	30	50.0	45.2	49	41	31	M8x1	666.00	11057
HSK-A 63	12	75	32	52.5	45.2	49	46	36	M8x1	666.00	11257
HSK-A 63	16	79	38	52.5	49.2	53	49	39	M8x1	666.00	11657
HSK-A 63	20	79	38	52.5	49.2	53	51	41	M8x1	666.00	12057
HSK-A 100	6	73	26	50.0	40.2	44	37	27	M5	909.00	10655
HSK-A 100	8	73	28	50.0	40.2	44	37	27	M6	909.00	10855
HSK-A 100	10	83	30	50.0	50.2	54	41	31	M8x1	909.00	11055
HSK-A 100	12	83	32	52.5	50.2	54	46	36	M8x1	909.00	11255
HSK-A 100	16	87	38	52.5	54.2	58	49	39	M8x1	909.00	11655
HSK-A 100	20	87	38	52.5	54.2	58	51	41	M8x1	909.00	12055

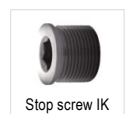
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts	DCONWS	£		£		£	
		Y7		Y8		Y7	
6	SW5	7.73	050	12.96	55000	23.98	418
8	SW5	7.73	050	12.96	55000	23.98	419
10	SW5	7.73	050	12.96	55000	23.98	420
12	SW5	7.73	050	12.96	55000	23.98	420
16	SW5	7.73	050	12.96	55000	23.98	420
20	SW5	7.73	050	12.96	55000	23.98	420

Accessories

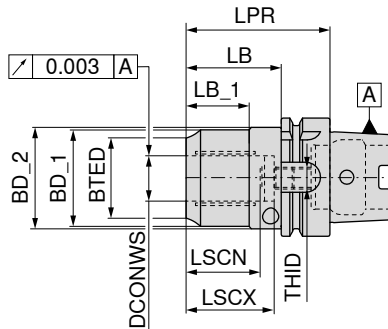
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



AD
G 2,5 n_{max} 25000

83 722 ...

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LB	LSCX	LSCN	THID	£	
HSK-A 63	20	80	36	49	52.5	36	54	51	40	M8x1	467.28	120
HSK-A 63	32	105	54	63	52.5	55	79	61	51	M16x1	564.66	13257
HSK-A 100	20	85	38	49	52.5	36	56	51	41	M8x1	763.38	12055
HSK-A 100	32	100	57	68	72.0	42	71	61	51	M8x1	763.38	13255

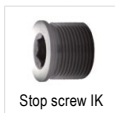
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

Article no.	Part	£	QTY	Part	£	QTY	Part	£	QTY
83 722 120	SW5	7.73	050	M10x1x10	21.84	158	M8x1x13,5 - SW3	23.98	420
83 722 13257	SW5	7.73	050	M10x1x10	21.84	158	M16x1x13,5 - SW8	27.66	424
83 722 12055	SW5	7.73	050	M10x1x10	21.84	158	M8x1x13,5 - SW3	23.98	420
83 722 13255	SW5	7.73	050	M10x1x10	21.84	158	M8x1x13,5 - SW3	23.98	420

Accessories

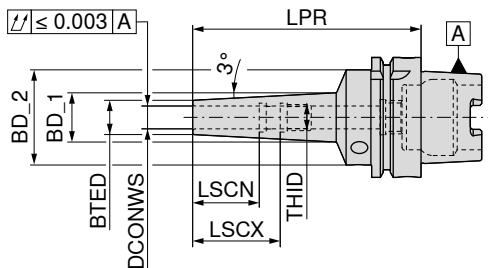
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

HyPower – Access 3°

- ▲ High pressure chuck, slim 3°
- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 727 ...

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

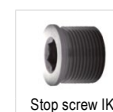
→ Min. clamping depth, Page 312



Clamping key - T



Pressure screw



Stop screw IK

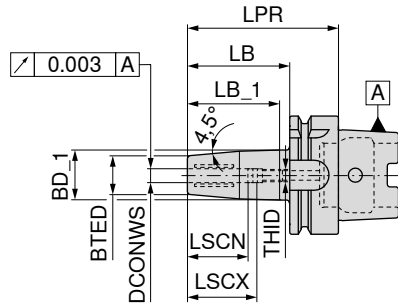
Spare parts	80 397 ...			83 950 ...			83 950 ...		
	DCONWS	£		£		£		£	
		Y7		Y7		Y7		Y7	
3	SW5	7.73	050	M10x1x10	21.84	158	M3x20 - SW1,5	16.65	172
4	SW5	7.73	050	M10x1x10	21.84	158	M3x20 - SW1,5	16.65	172
5	SW5	7.73	050	M10x1x10	21.84	158	M3x20 - SW1,5	16.65	172
6	SW5	7.73	050	M10x1x10	21.84	158	M5x12,5 - SW2,5	23.98	418
6	SW5	7.73	050	M10x1x10	21.84	158	M6x12,5 - SW3	23.98	419
8	SW5	7.73	050	M10x1x10	21.84	158	M6x12,5 - SW3	23.98	419
10	SW5	7.73	050	M10x1x12	21.84	159	M8x1x13,5 - SW3	23.98	420
12	SW5	7.73	050	M10x1x12	21.84	159	M10x1x13,5 - SW5	23.98	421
16	SW5	7.73	050	M10x1x12	21.84	159	M12x1x13,5 - SW5	23.98	422
20	SW5	7.73	050	M10x1x12	21.84	159	M16x1x13,5 - SW8	27.66	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	LPR	BTED	BD_1	LB_1	LB	LSCX	LSCN	THID	£	
	mm	mm	mm	mm	mm	mm	mm	mm		Y8	
HSK-A 63	6	80	21	27	48.9	54	37	27	M5	810.00	10657
HSK-A 63	8	80	21	27	48.9	54	37	27	M6	810.00	10857
HSK-A 63	10	85	24	32	53.7	59	41	31	M8x1	810.00	11057
HSK-A 63	12	90	24	32	58.6	64	46	36	M10x1	810.00	11257
HSK-A 63	16	95	27	34	63.1	69	49	39	M12x1	810.00	11657
HSK-A 63	20	100	33	42	68.9	74	51	41	M16x1	810.00	12057
HSK-A 100	6	85	21	27	38.7	56	37	27	M5	1,047.60	10655
HSK-A 100	8	85	21	27	38.7	56	37	27	M6	1,047.60	10855
HSK-A 100	10	90	24	32	53.7	61	41	31	M8x1	1,047.60	11055
HSK-A 100	12	95	24	32	58.6	66	46	36	M10x1	1,047.60	11255
HSK-A 100	16	100	27	34	63.1	71	49	39	M12x1	1,047.60	11655
HSK-A 100	20	105	33	42	68.9	76	51	41	M16x1	1,047.60	12055

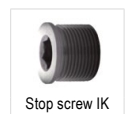
→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

Article no.	Part	£	Part	£	Part	£
		Y7		Y8		Y7
84 255 10657	SW5	7.73	050 M10x10	10.53 55100	M5x12,5 - SW2,5	23.98 418
84 255 10857	SW5	7.73	050 M10x10	10.53 55100	M6x12,5 - SW3	23.98 419
84 255 11057	SW5	7.73	050 M10x10	10.53 55100	M8x1x13,5 - SW3	23.98 420
84 255 11257	SW5	7.73	050 M10x10	10.53 55100	M10x1x13,5 - SW5	23.98 421
84 255 11657	SW5	7.73	050 M10x10	10.53 55100	M12x1x13,5 - SW5	23.98 422
84 255 12057	SW5	7.73	050 M10x10	10.53 55100	M16x1x13,5 - SW5	27.66 423
84 255 10655	SW5	7.73	050 M10x10	10.53 55100	M5x12,5 - SW2,5	23.98 418
84 255 10855	SW5	7.73	050 M10x12	12.96 55000	M6x12,5 - SW3	23.98 419
84 255 11055	SW5	7.73	050 M10x12	12.96 55000	M8x1x13,5 - SW3	23.98 420
84 255 11255	SW5	7.73	050 M10x12	12.96 55000	M10x1x13,5 - SW5	23.98 421
84 255 11655	SW5	7.73	050 M10x12	12.96 55000	M12x1x13,5 - SW5	23.98 422
84 255 12055	SW5	7.73	050 M10x12	12.96 55000	M16x1x13,5 - SW5	27.66 423

Accessories

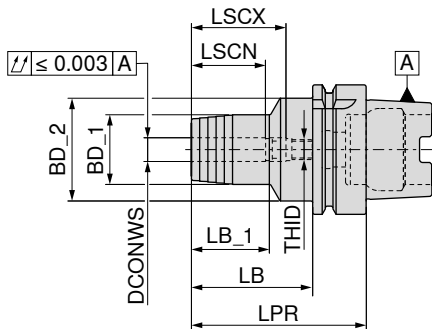
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

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	£	
											Y8	
short	HSK-A 63	6	70	26	49.5	24		37	27	M5	911.26	606
	HSK-A 63	8	70	28	49.5	24		37	27	M6	911.26	608
	HSK-A 63	10	80	30	49.5	32		41	31	M8x1	911.26	610
	HSK-A 63	12	85	32	49.5	40		46	36	M10x1	835.64	612
	HSK-A 63	16	90	38	49.5	46		49	39	M12x1	911.26	616
	HSK-A 63	20	90	42	49.5	48		51	41	M16x1	835.64	620
	HSK-A 63	25	120	57	52.0	63		57	47	M16x1	911.26	625
	HSK-A 63	32	125	63	53.0	61		61	51	M16x1	911.26	632
	HSK-A 100	6	75	26	50.0	26	46	37	27	M5	1,056.60	10655
	HSK-A 100	8	75	28	50.0	26	46	37	27	M6	1,056.60	10855
	HSK-A 100	10	90	30	50.0	42	61	41	31	M8x1	1,056.60	11055
	HSK-A 100	12	95	32	50.0	47	66	46	36	M10x1	1,056.60	11255
	HSK-A 100	16	100	38	50.0	53	71	49	39	M12x1	1,056.60	11655
	HSK-A 100	20	105	42	50.0	59	76	51	41	M16x1	1,056.60	12055
	HSK-A 100	25	110	57	63.0	62	81	57	47	M16x1	1,056.60	12555
	HSK-A 100	32	110	63	67.0	62	81	61	51	M16x1	1,056.60	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



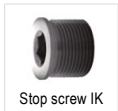
This article can be found in our online shop at cuttingtools.ceratizit.com

83 433 HSK-100 2-channel

Spare parts HyTens – Fit



Pressure screw



Stop screw IK

Spare parts DCONWS		83 950 ...		83 950 ...	
		£ Y7		£ Y7	
6	M8x1x10	16.61	439	M5x12,5 - SW2,5	23.98 418
8	M10x1x12	16.61	440	M6x12,5 - SW3	23.98 419
10	M10x1x12	16.61	440	M8x1x13,5 - SW3	23.98 420
12	M10x1x12	16.61	440	M10x1x13,5 - SW5	23.98 421
16	M10x1x12	16.61	440	M12x1x13,5 - SW5	23.98 422
20	M10x1x12	16.61	440	M16x1x13,5 - SW5	27.66 423
20 - 25	M10x1x12	16.61	440	M16x1x13,5 - SW8	27.66 424
25 - 32	M10x1x12	16.61	440	M16x1x13,5 - SW5	27.66 423
32	M10x1x12	16.61	440	M16x1x13,5 - SW8	27.66 424

Accessories

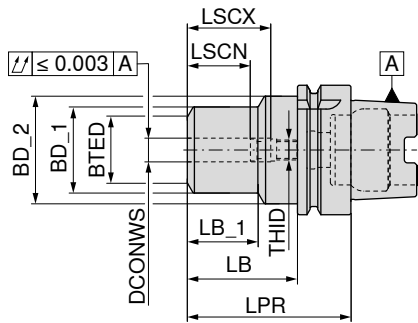
		
Reduction sleeve	Coolant transfer pipe	Others
→ 282	→ 156	→ 284

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	Price	Code
	mm	mm	mm	mm	mm	mm	mm	mm	mm		£	
HSK-A 63	12	80	42	52.5	32	54	34	36	46	M8x1	419.73	01257
HSK-A 63	20	80	49	52.5	38	54	36	41	51	M8x1	419.73	02057
HSK-A 100	12	85	42	52.5	32	51	34	36	46	M8x1	589.11	01255
HSK-A 100	20	85	49	52.5	38	51	36	41	51	M8x1	589.11	02055

→ Min. clamping depth, Page 312



Clamping key – T



Pressure screw



Stop screw IK

Spare parts

DCONWS	Clamping key – T	Pressure screw	Stop screw IK
	£	£	£
12 - 20	7.73	16.61	23.98
	050	440	420

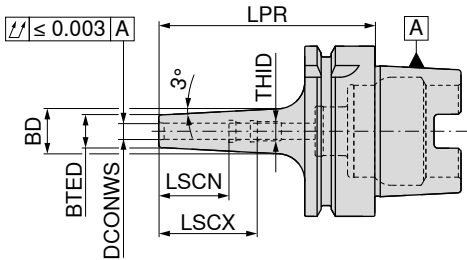
Accessories

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

Shrink adapter, slim 3°

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

TG

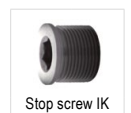
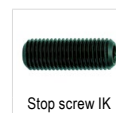


G 2,5 n_{max} 25000

84 324 ...

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

→ Min. clamping depth, Page 312



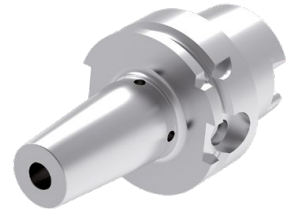
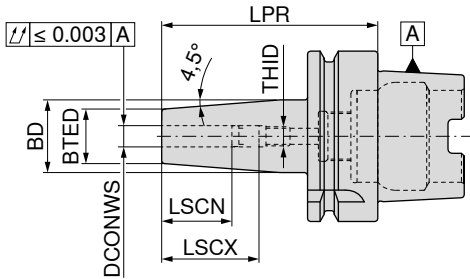
Spare parts

DCONWS		£		£	
3 - 5	M6x14 - SW2	23.98	417	23.98	418
6				23.98	419
8				23.98	420
10				23.98	421
12 - 14				23.98	422
16 - 18				23.98	422
20				27.66	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 ...

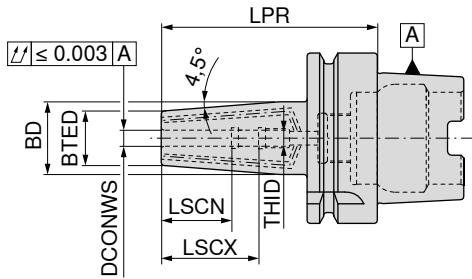
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	£	
									Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	245.40	103
	HSK-A 63	4	80	15	22	26	16	M6	245.40	104
	HSK-A 63	5	80	15	22	30	20	M6	245.40	105
	HSK-A 63	6	80	21	27	36	26	M5	245.40	106
	HSK-A 63	8	80	21	27	36	26	M6	245.40	108
	HSK-A 63	10	85	24	32	41	31	M8x1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

→ Min. clamping depth, Page 312

Shrink fit adapters 4.5°

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

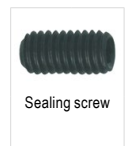
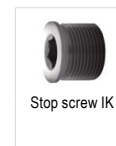
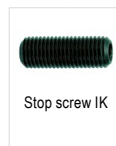
TG



G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 316 ...	
									£	
short	HSK-A 63	3	80	10	15	28	12	M6	751.35	103
	HSK-A 63	4	80	15	22	28	16	M6	730.36	104
	HSK-A 63	5	80	15	22	30	20	M6	730.36	105
	HSK-A 63	6	80	21	27	36	26	M5	663.20	106
	HSK-A 63	8	80	21	27	36	26	M6	663.20	108
	HSK-A 63	10	85	24	32	41	31	M8x1	663.20	110
	HSK-A 63	12	90	24	32	47	37	M10x1	663.20	112
	HSK-A 63	14	90	27	34	47	37	M10x1	663.20	114
	HSK-A 63	16	95	27	34	50	40	M12x1	663.20	116
	HSK-A 63	18	95	33	42	50	40	M12x1	663.20	118
	HSK-A 63	20	100	33	42	52	42	M16x1	663.20	120
	HSK-A 63	25	115	44	53	58	48	M16x1	663.20	125
	HSK-A 63	32	120	44	53	62	52	M16x1	663.20	132

→ Min. clamping depth, Page 312



Spare parts	83 950 ...		83 950 ...		83 950 ...	
	£		£		£	
DCONWS	Y7		Y7		Y7	
3 - 5		M6x14 - SW2	23.98	417		
6					M5x12,5 - SW2,5	23.98 418
8					M6x12,5 - SW3	23.98 419
10					M8x1x13,5 - SW3	23.98 420
12 - 14					M10x1x13,5 - SW5	23.98 421
16 - 18		M12x1 - SW5	32.59	510		
20 - 32		M16x1 - SW5	19.25	511		
					M2x6	1.93 512
					M2x6	1.93 512
					M2x6	1.93 512
					M2x6	1.93 512
					M2x6	1.93 512
					M2x6	1.93 512

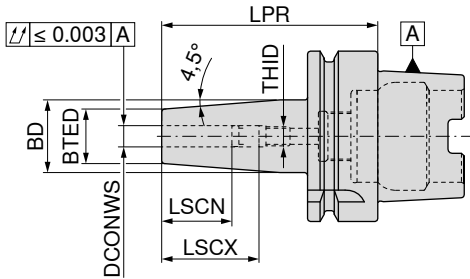
Accessories

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	£ Y8	
short	HSK-A 100	6	85	21	27	36	26	M5	460.20	106
	HSK-A 100	8	85	21	27	36	26	M6	460.20	108
	HSK-A 100	10	90	24	32	41	31	M8x1	460.20	110
	HSK-A 100	12	95	24	32	47	37	M10x1	460.20	112
	HSK-A 100	14	95	27	34	47	37	M10x1	460.20	114
	HSK-A 100	16	100	27	34	50	40	M12x1	460.20	116
	HSK-A 100	18	100	33	42	50	40	M12x1	460.20	118
	HSK-A 100	20	105	33	42	52	42	M16x1	460.20	120
	HSK-A 100	25	115	44	53	58	48	M16x1	460.20	125
	HSK-A 100	32	120	44	53	62	52	M16x1	460.20	132
medium length	HSK-A 100	6	120	21	27	36	26	M5	531.67	206
	HSK-A 100	8	120	21	27	36	26	M6	531.67	208
	HSK-A 100	10	120	24	32	41	31	M8x1	531.67	210
	HSK-A 100	12	120	24	32	47	37	M10x1	531.67	212
	HSK-A 100	14	120	27	34	47	37	M10x1	531.67	214
	HSK-A 100	16	120	27	34	50	40	M12x1	531.67	216
	HSK-A 100	18	120	33	42	50	40	M12x1	531.67	218
	HSK-A 100	20	120	33	42	52	42	M16x1	531.67	220
	HSK-A 100	25	120	44	53	58	48	M16x1	531.67	225
	extra-long	HSK-A 100	6	160	21	27	36	26	M5	610.97
HSK-A 100		8	160	21	27	36	26	M6	610.97	308
HSK-A 100		10	160	24	32	41	31	M8x1	610.97	310
HSK-A 100		12	160	24	32	47	37	M10x1	610.97	312
HSK-A 100		14	160	27	34	47	37	M10x1	610.97	314
HSK-A 100		16	160	27	34	50	40	M12x1	610.97	316
HSK-A 100		18	160	33	42	50	40	M12x1	610.97	318
HSK-A 100		20	160	33	42	52	42	M16x1	610.97	320
HSK-A 100		25	160	44	53	58	48	M16x1	610.97	325
HSK-A 100		32	160	44	53	62	52	M16x1	610.97	332

→ Min. clamping depth, Page 312

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



TG

84 318

HSK-63

1-channel



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

84 318

HSK-100

1-channel



TG

84 319

HSK-63

2-channel



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

84 319

HSK-100

2-channel

Spare parts heat shrink adapter 4.5°



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

Accessories

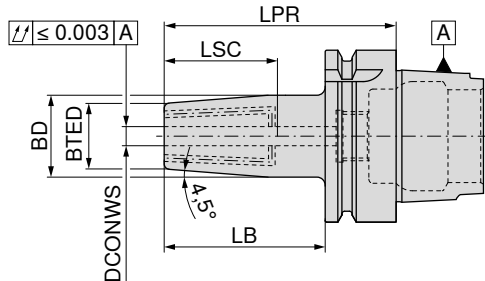
		
Shrink fit extension	Coolant transfer pipe	Others
→ 247	→ 156	→ 284

Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop



G 2,5 n_{max} 25000

84 717 ...

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

→ Min. clamping depth, Page 312



Stop screw IK



Sealing screw

Spare parts

DCONWS

DCONWS	Part	Price (£)	Code
6	M5x0,8x14	10.90	402
8	M6x1x16	10.90	403
10	M8x1x20	12.29	404
12 - 18	M10x1x20	13.71	405
20 - 32	M12x1x20	14.08	406

62 950 ...

£
W7

62 950 ...

£
W7

1 Sealing screw for closing of two additional coolant holes.

Accessories

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

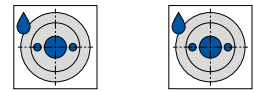
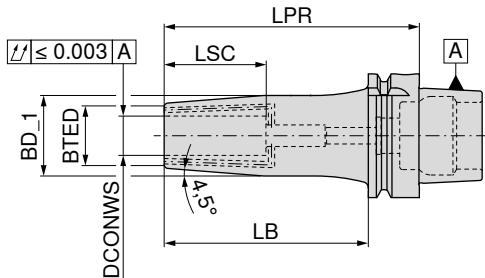
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



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

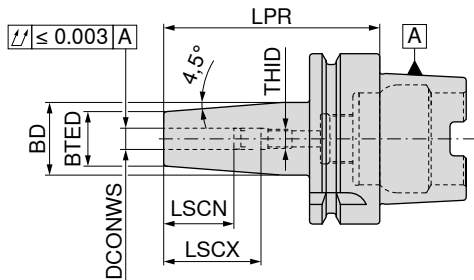
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
								£ Y8	£ Y8
long	HSK-A 63	6	130	21	27	104	36.5	660.23	606
	HSK-A 63	8	130	21	27	104	36.5	660.23	608
	HSK-A 63	10	130	24	32	104	41.5	660.23	610
	HSK-A 63	12	130	24	32	104	46.5	660.23	612
	HSK-A 63	14	130	27	34	104	46.5	660.23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

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

→ Min. clamping depth, Page 312



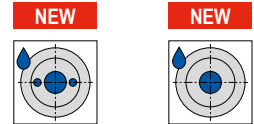
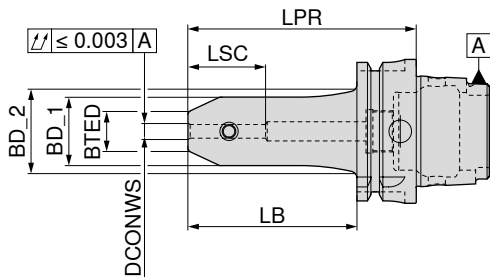
Stop screw IK

Spare parts

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

Cylindrical shank adapter (Weldon)

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



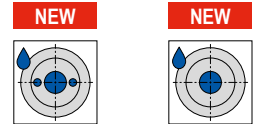
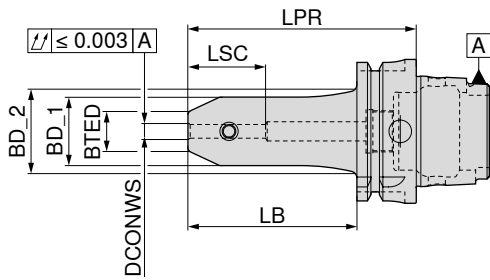
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
									£ Y8/3B	£ Y8/3B
short	HSK-A 63	6	65	17	30		39	34	203.72	10657
	HSK-A 63	8	65	20	32		39	34	203.72	10857
	HSK-A 63	10	65	25	35		39	39	203.72	11057
	HSK-A 63	12	80	30	42		54	44	203.72	11257
	HSK-A 63	14	80	32	45		54	44	203.72	11457
	HSK-A 63	16	80	36	48		54	47	203.72	11657
	HSK-A 63	18	80	38	48		54	47	203.72	11857
	HSK-A 63	20	80	40	52		54	49	203.72	12057
	HSK-A 63	25	110	45	63		84	54	203.72	12557 ¹⁾
	HSK-A 63	32	110	52	72		84	58	203.72	13257 ¹⁾
short	HSK-A 100	6	80	17	30		51	34	273.20	10655
	HSK-A 100	8	80	20	32		51	34	273.20	10855
	HSK-A 100	10	80	25	35		51	39	273.20	11055
	HSK-A 100	12	80	30	42		51	44	273.20	11255
	HSK-A 100	14	80	32	45		51	44	273.20	11455
	HSK-A 100	16	100	36	48		71	47	273.20	11655
	HSK-A 100	18	100	38	48		71	47	273.20	11855
	HSK-A 100	20	100	40	52		71	49	273.20	12055
	HSK-A 100	25	100	45	65		71	54	273.20	12555 ¹⁾
	HSK-A 100	32	100	52	72		71	58	273.20	13255 ¹⁾
medium length	HSK-A 63	6	100	17	30	36.2	74	34	222.77	20657
	HSK-A 63	8	100	20	32	38.2	74	34	222.77	20857
	HSK-A 63	10	100	25	35	41.2	74	39	222.77	21057
	HSK-A 63	12	100	30	42		74	44	222.77	21257
	HSK-A 63	14	100	32	45		74	44	222.77	21457
	HSK-A 63	16	100	36	48		74	47	222.77	21657
	HSK-A 63	18	100	38	48		74	47	222.77	21857
	HSK-A 63	20	100	40	52		74	49	222.77	22057
long	HSK-A 63	6	130	17	30	36.2	104	34	238.01	30657
	HSK-A 63	8	130	20	32	38.2	104	34	238.01	30857
	HSK-A 63	10	130	25	35	41.2	104	39	238.01	31057
	HSK-A 63	12	130	30	42	48.2	104	44	238.01	31257
	HSK-A 63	14	130	32	45	50.5	104	44	238.01	31457
	HSK-A 63	16	130	36	48	50.1	104	47	238.01	31657
	HSK-A 63	18	130	38	48	50.1	104	47	238.01	31857
	HSK-A 63	20	130	40	52		104	49	238.01	32057
	HSK-A 63	25	130	45	63		104	54	238.01	32557 ¹⁾
	HSK-A 63	32	130	52	72		104	58	238.01	33257 ¹⁾

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



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

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
									£ Y8/3B	£ Y8/3B
extra-long	HSK-A 63	6	160	17	30	36.2	134	34	253.24	40657
	HSK-A 63	8	160	20	32	38.2	134	34	253.24	40857
	HSK-A 63	10	160	25	35	41.2	134	39	253.24	41057
	HSK-A 63	12	160	30	42	48.2	134	44	253.24	41257
	HSK-A 63	14	160	32	45	50.5	134	44	253.24	41457
	HSK-A 63	16	160	36	48	50.1	134	47	253.24	41657
	HSK-A 63	18	160	38	48	50.1	134	47	253.24	41857
	HSK-A 63	20	160	40	52		134	49	253.24	42057
	HSK-A 63	25	160	45	63		134	54	253.24	42557 ¹⁾
	HSK-A 100	6	160	17	30	38.2	131	34	333.44	40655
	HSK-A 100	8	160	20	32	40.2	131	34	333.44	40855
	HSK-A 100	10	160	25	35	43.2	131	39	333.44	41055
	HSK-A 100	12	160	30	42	50.2	131	44	333.44	41255
	HSK-A 100	14	160	32	45	53.2	131	44	333.44	41455
	HSK-A 100	16	160	36	48	56.2	131	47	333.44	41655
	HSK-A 100	18	160	38	48	56.2	131	47	333.44	41855
	HSK-A 100	20	160	40	52	60.2	131	49	333.44	42055
	HSK-A 100	25	160	45	65	73.2	131	54	333.44	42555 ¹⁾
	HSK-A 100	32	160	52	72	79.5	134	58	333.44	43255 ¹⁾

1) Version with two grubscrews

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

Accessories



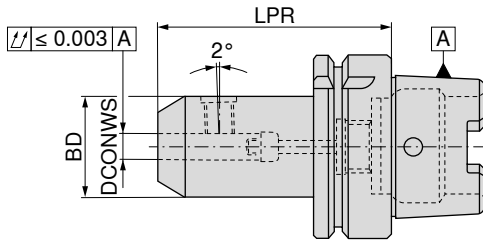
Coolant transfer pipe
→ 156



Others
→ 284

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

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



G 2,5 n_{max} 25000

82 742 ...

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

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

1) Version with two grubscrews



Grubscrew

62 950 ...

Spare parts

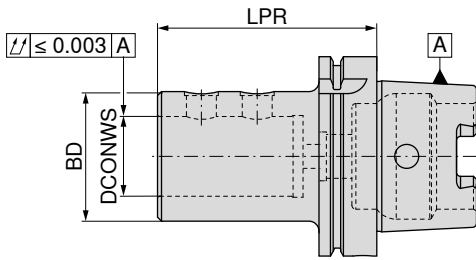
DCONWS		£	
		W7	
6	M6x10	1.11	006
8	M8x10	1.11	008
10	M10x12	2.12	010
12 - 14	M12x16	1.68	012
16 - 18	M14x16	2.08	016
20	M16x16	2.21	020
25	M18x2x20	4.27	025
32 - 40	M20x2x20	4.46	032

Accessories

Coolant transfer pipe	Others
→ 156	→ 284

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

10 842 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
HSK-A 63	20	80	40	2E/45	
HSK-A 63	25	90	45	201.79	320
HSK-A 63	32	90	52	201.79	325
HSK-A 63	40	110	65	201.79	332
HSK-A 63	40	110	65	201.79	340
HSK-A 100	20	90	40	226.26	420
HSK-A 100	25	100	45	226.26	425
HSK-A 100	32	100	52	226.26	432
HSK-A 100	40	110	65	226.26	440
HSK-A 100	50	120	75	226.26	450

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



10 950 ...

Spare parts	DCONWS	£	
20		2A/28	
25 - 32		4.42	M10x10 001
40 - 50		4.42	M12x10 002
		4.42	M16x12 003

Accessories

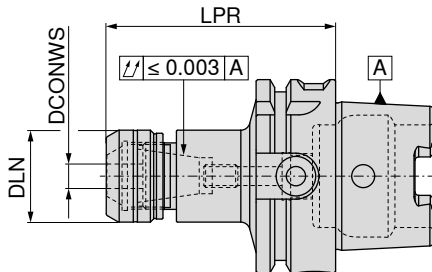
Coolant transfer pipe	Others
→ 156	→ 284

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



G 2,5 n_{max} 25000

82 700 ...

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



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

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

Spare parts for collet

Accessories

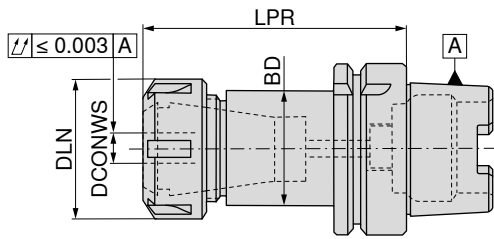
ER collet	Sealing ring	Roll key
→ 268-276, 278-279	→ 281	→ 286

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000

82 743 ...








£
Y8/3B

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



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

Spare parts ER collet chucks

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

Accessories

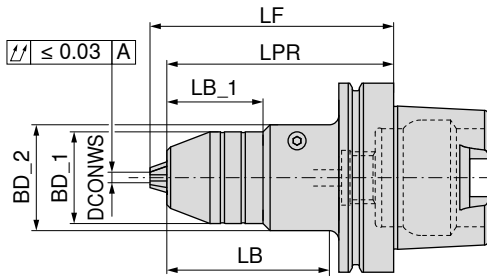
		
ER collet	Coolant transfer pipe	Others
→ 268–276, 279	→ 156	→ 284

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 ...

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		

£
Y8

696.54 613
735.82 616

989.67 113
1,034.84 116

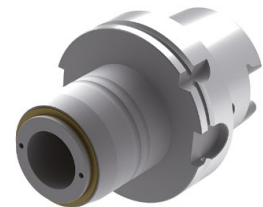
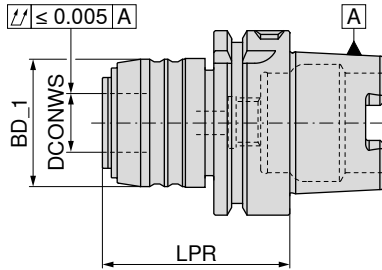
Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

Others
→ 284

Synchro tapping chuck with minimum length compensation

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



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

83 724 ...

£	
Y8	
435.88	612
542.15	620
688.62	112
814.96	120

Accessories



Coolant transfer pipe

Others

→ 156

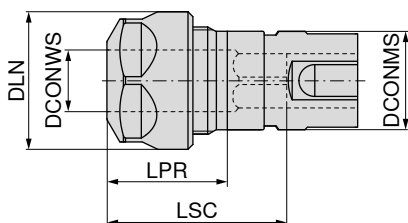
→ 284

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

83 608 ...

£	
Y8	
236.04	012 ¹⁾
274.95	020

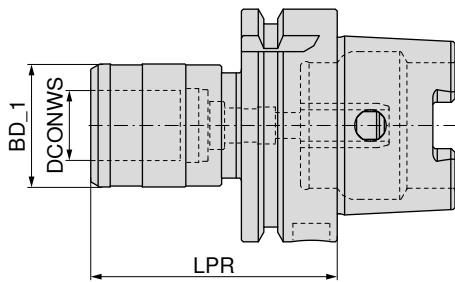
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

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

Quick change tap chuck with length compensation

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



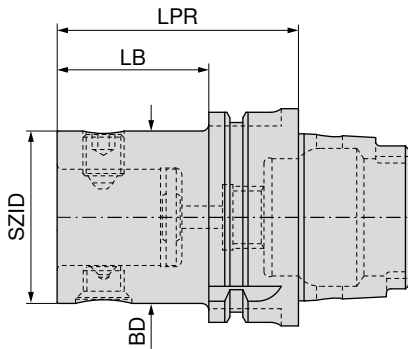
Adapter	SZID	LPR	BD_1	DCONWS	LZD±	83 712 ...	
		mm	mm	mm	mm	£	
HSK-A 63	01	72	41	19	7,5	958.13	612
HSK-A 63	02	110	60	31	10	1,114.16	620
HSK-A 100	01	80	41	19	7,5	1,616.28	112
HSK-A 100	02	100	60	31	10	1,420.75	120

Accessories

Collet	Coolant transfer pipe	Others
→ 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		80	54		
HSK-A 63	A06 30170	ABS 80		100	74		
HSK-A 100	A06 50180	ABS 100		100	71		
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		

£
3E
282.92 06390
282.92 06389
282.92 06388
282.92 06397
282.92 06396
282.92 06392

311.79 10091
311.79 10090
311.79 10089
311.79 10088
311.79 10097
311.79 10096
311.79 10092

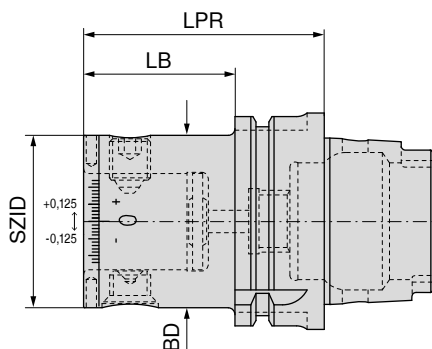
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

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

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



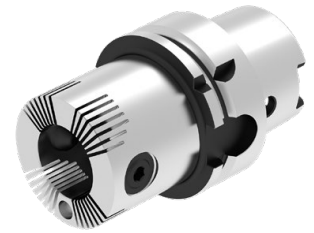
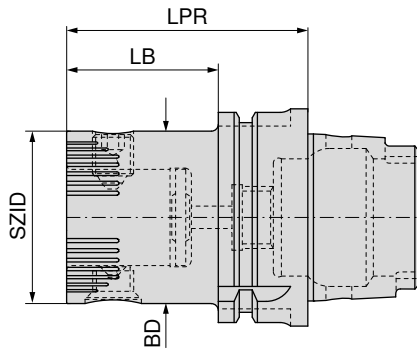
84 203 ...

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

£
W4/6A
693.22 06397
787.75 10097
955.86 10096

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request



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

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



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

Spare parts

SZID

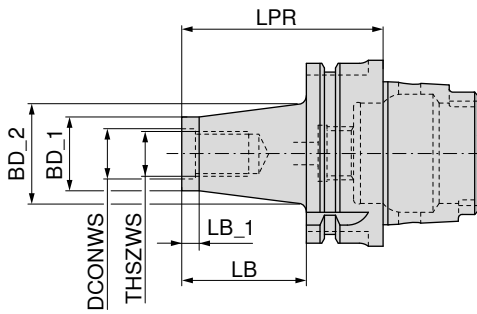
ABS 50
ABS 63
ABS 80

Accessories

Coolant transfer pipe	Extension	Others
→ 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 ...

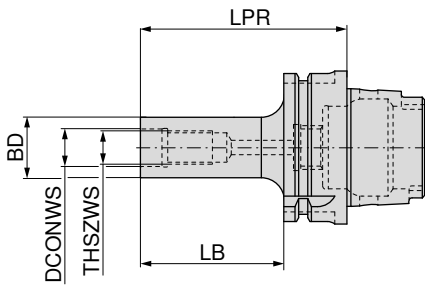
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	£	
HSK-A 63	M8	8.5	25	13.8	15	12	51	542.47	081
HSK-A 63	M8	8.5	50	13.8	23	12	76	548.24	082
HSK-A 63	M8	8.5	75	13.8	25	12	101	554.23	083
HSK-A 63	M8	8.5	100	13.8	30	12	126	560.02	084
HSK-A 63	M10	10.5	25	18.0	23	12	51	542.47	101
HSK-A 63	M10	10.5	50	18.0	25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

Accessories

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

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

56 719 ...

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

Accessories

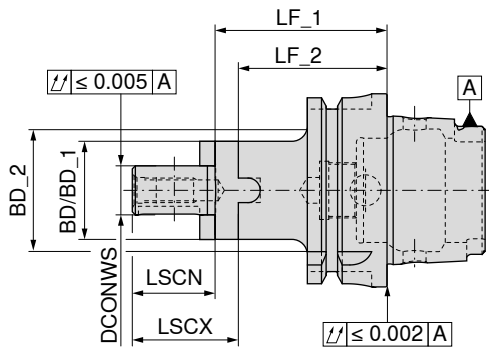
Extension-Reduction set → 257	Coolant transfer pipe → 156	Others → 284

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



G 2,5 n_{max} 25000

82 744 ...

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



83 950 ...

83 370 ...

83 950 ...

Spare parts

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

Accessories

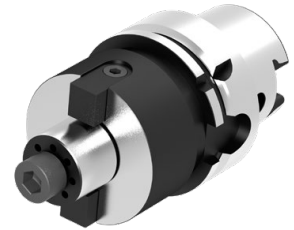
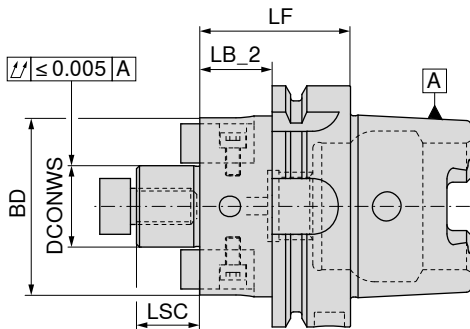
Milling Adapter Rings	Coolant transfer pipe	Others
→ 263	→ 156	→ 284

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



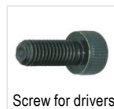
G 2,5 n_{max} 25000

82 315 ...

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

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

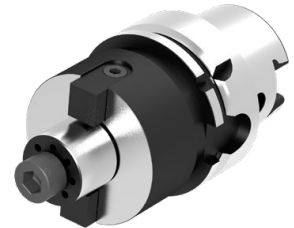
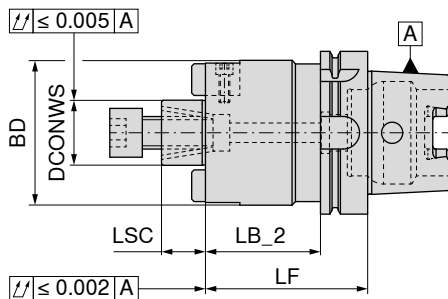
Spare parts	DCONWS	Screw for drivers		Driver		clamping screw			
		£	...	£	...	£	...		
22	M4x8	0.76	51700	10x7x20,5	10.73	51500	M10x25	8.10	124
27	M5x8	0.93	51800	12x9x24,3	12.23	51600	M12x30	8.95	125

Shell mill adapter

- ▲ 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		£	
										Y8/3B	
short	HSK-A 63	16	34	60	38			17		223.68	11657
	HSK-A 63	22	34	60	48			19		223.68	12257
	HSK-A 63	27	34	60	58			21		223.68	12757
	HSK-A 63	32	34	60	78			24		223.68	13257
	HSK-A 63	40	34	70	88			27		223.68	14057 ¹⁾
	HSK-A 100	16	31	60	38			17		314.74	11655
	HSK-A 100	22	31	60	48			19		314.74	12255
	HSK-A 100	27	31	60	58			21		314.74	12755
	HSK-A 100	32	31	60	78			24		314.74	13255
	HSK-A 100	40	41	70	88			27		314.74	14055 ¹⁾
medium length	HSK-A 63	16	74	100		38	44.3	17		242.01	21657
	HSK-A 63	22	74	100		48	50.3	19		242.01	22257
	HSK-A 63	27	74	100	58			21		242.01	22757
	HSK-A 63	32	74	100	78			24		242.01	23257
	HSK-A 63	40	74	100	88			27		242.01	24057 ¹⁾
	HSK-A 100	16	71	100		38	46.3	17		333.07	21655
	HSK-A 100	22	71	100		48	56.3	19		333.07	22255
	HSK-A 100	27	71	100	58			21		333.07	22755
	HSK-A 100	32	71	100	78			24		333.07	23255
	HSK-A 100	40	71	100	88			27		333.07	24055 ¹⁾
long	HSK-A 63	16	104	130		38	44.3	17		261.77	31657
	HSK-A 63	22	104	130		48	50.3	19		261.77	32257
	HSK-A 63	27	104	130	58			21		261.77	32757
	HSK-A 63	32	104	130	78			24		261.77	33257
	HSK-A 63	40	104	130	88			27		261.77	34057 ¹⁾
	HSK-A 100	16	101	130		38	46.3	17		404.00	31655
	HSK-A 100	22	101	130		48	56.3	19		404.00	32255
	HSK-A 100	27	101	130	58			21		404.00	32755
	HSK-A 100	32	101	130	78			24		404.00	33255
	HSK-A 100	40	101	130	88			27		404.00	34055 ¹⁾
extra-long	HSK-A 63	16	134	160		38	44.3	17		282.09	41657
	HSK-A 63	22	134	160		48	50.3	19		282.09	42257
	HSK-A 63	27	134	160	58			21		282.09	42757
	HSK-A 63	32	134	160	78			24		282.09	43257
	HSK-A 63	40	134	160	88			27		282.09	44057 ¹⁾
	HSK-A 100	16	131	160		38	46.3	17		440.83	41655
	HSK-A 100	22	131	160		48	56.3	19		440.83	42255
	HSK-A 100	27	131	160	58			21		440.83	42755
	HSK-A 100	32	131	160	78			24		440.83	43255
	HSK-A 100	40	131	160	88			27		440.83	44055 ¹⁾

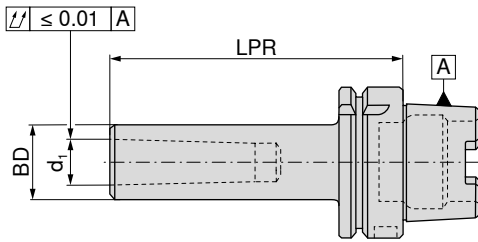
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

		 Cross nut key 83 368 ...		 Cross screw 83 367 ...		 clamping screw 83 950 ...	
Spare parts		£		£		£	
DCONWS		Y8		Y8		Y8/3B	
16		25.47	116	6.77	016	7.18	113
22		31.70	122	7.53	022	8.10	124
27		37.27	127	9.63	027	8.95	125
32		50.79	132	15.12	032	10.90	126
40		50.45	140	16.18	040	12.02	112
				 Screw for drivers 83 950 ...		 Driver 83 950 ...	
Spare parts				£		£	
DCONWS				Y8/3B		Y8/3B	
				1.23	296	17.35	120
16	M3x8			1.61	297	17.91	121
22	M4x12			1.66	136	19.75	122
27	M5x12			1.75	137	19.96	123
32	M5x20			1.99	138	26.57	295
40	M6x16						

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

▲ also available with Balluff chip on request



G 6,3 n_{max} 8000

82 746 ...

£	
Y8/3B	
151.00	01057
151.00	02057
151.00	03057
151.00	04057
245.81	02055
245.81	03055
245.81	04055

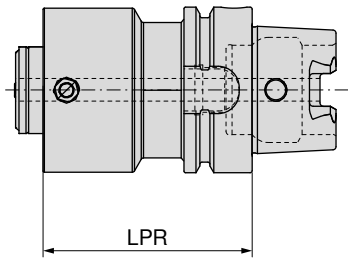
Adapter	d ₁	LPR	BD
		mm	mm
HSK-A 63	MK1	100	25
HSK-A 63	MK2	120	32
HSK-A 63	MK3	140	40
HSK-A 63	MK4	160	48
HSK-A 100	MK2	120	32
HSK-A 100	MK3	150	40
HSK-A 100	MK4	170	48

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**



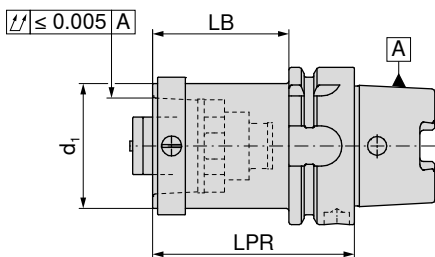
Adapter	LPR mm	£	84 621 ...
HSK-T 63	80	1,304.15	08037
HSK-T 63	120	1,391.01	12037
HSK-T 100	125	1,738.95	12535
HSK-T 100	160	1,847.65	16035
HSK-T 100	200	1,977.94	20035

HSK-A reduction

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

Scope of supply:

with clamping cartridge and cover ring

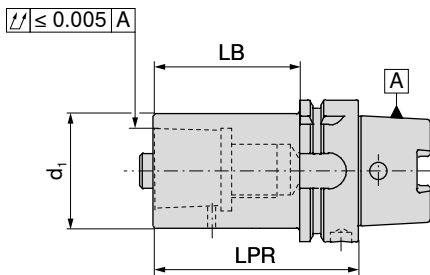


Adapter	d ₁	LB mm	LPR mm	£	84 040 ...
HSK-A 63	HSK-A 40	54	80	1,133.50	06359
HSK-A 63	HSK-A 50	54	80	1,154.77	06358
HSK-A 100	HSK-A 50	51	80	1,344.26	10058
HSK-A 100	HSK-A 63	71	100	1,344.26	10057

HSK-A/PSC adapter

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

Scope of supply:
with tightening screw



Adapter	d ₁	LB mm	LPR mm	84 013 ... £ Y8	
HSK-A 63	PSC 50	64	90	628.12	06394
HSK-A 63	PSC 32	49	75	585.84	06387
HSK-A 63	PSC 40	54	80	628.12	06395
HSK-A 100	PSC 32	51	80	690.99	10087
HSK-A 100	PSC 80	91	120	901.95	10086
HSK-A 100	PSC 63	81	110	838.64	10093
HSK-A 100	PSC 50	71	100	733.05	10094
HSK-A 100	PSC 40	61	90	712.02	10095

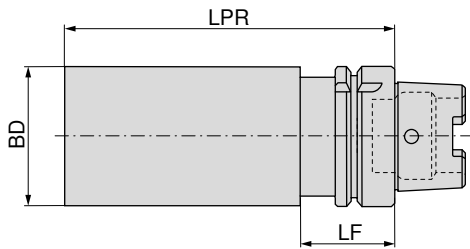
Spare parts
d₁

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



Blank

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

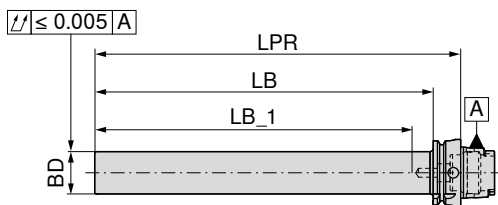


Adapter	BD mm	LPR mm	LF mm
HSK-A 63	63.0	200	42
HSK-A 63	80.0	250	42
HSK-A 100	63.0	200	
HSK-A 100	80.0	250	
HSK-A 100	97.5	250	45

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

Test arbor

Scope of supply:
in wooden box



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

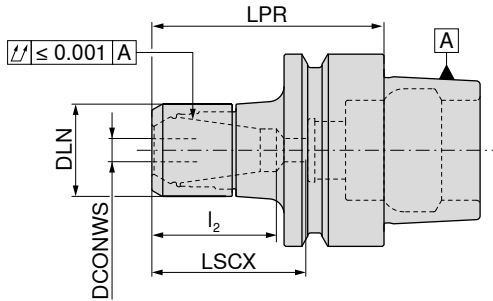
81 746 ...	
£	
Y8/3B	
706.27	063
901.89	100

ER precision collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 30000

84 776 ...

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

→ Transmittable torque moments, Page 313



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

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

Spare parts for collet

430E (ER25)

Accessories

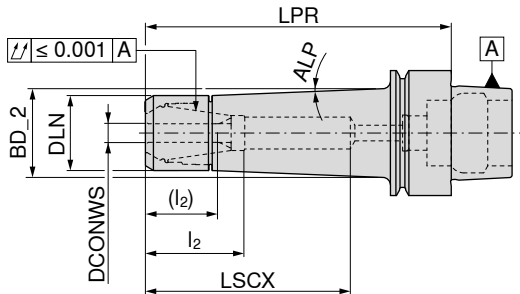
→ 268-275, 279	→ 280	→ 286	→ 286	→ 156	→ 284

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 30000

84 774 ...

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

→ Transmittable torque moments, Page 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

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

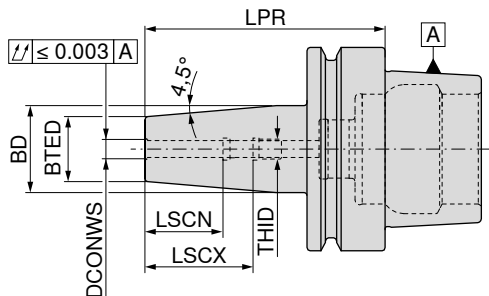
Accessories

ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 268-275, 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 ...	
									£ Y8		£ Y8	
short	HSK-E 40	3	60	10	15	28	12	M6	345.31	103		
	HSK-E 40	4	60	10	15	28	16	M6	336.48	104		
	HSK-E 40	5	60	10	15	30	20	M6	336.48	105		
	HSK-E 40	6	80	21	27	36	26	M5	283.54	106		
	HSK-E 40	8	80	21	27	36	26	M6	283.54	108		
	HSK-E 40	10	80	24	32	41	31	M8x1	283.54	110		
	HSK-E 40	12	90	24	32	47	37	M10x1	283.54	112		
	HSK-E 40	14	90	27	34	47	37	M10x1	283.54	114		
	HSK-E 40	16	90	27	34	50	40	M12x1	283.54	116		
	HSK-E 50	3	80	10	15	22	12	M6			348.89	103
	HSK-E 50	4	80	15	22	26	16	M6			340.05	104
	HSK-E 50	5	80	15	22	30	20	M6			340.05	105
	HSK-E 50	6	80	21	27	36	26	M5			321.49	106
	HSK-E 50	8	80	21	27	36	26	M6			321.49	108
	HSK-E 50	10	85	24	32	41	31	M8x1			321.49	110
	HSK-E 50	12	90	24	32	47	37	M10x1			321.49	112
	HSK-E 50	14	90	27	34	47	37	M10x1			321.49	114
	HSK-E 50	16	95	27	34	50	40	M12x1			321.49	116
	HSK-E 50	18	95	33	42	50	40	M12x1			321.49	118
	HSK-E 50	20	100	33	42	52	42	M16x1			321.49	120

→ Min. clamping depth, Page 312

Spare parts	DCONWS	Screw	Part No.	Price	Stock	Screw	Part No.	Price	Stock	Screw	Part No.	Price	Stock
	3 - 5	M6x14 - SW2	83 950 ...	23.98	417	M5x14 - SW2	83 950 ...	23.98	411	M5x12,5 - SW2,5	83 950 ...	23.98	418
	6									M6x12,5 - SW3		23.98	419
	8									M8x1x13,5 - SW3		23.98	420
	10									M10x1x13,5 - SW5		23.98	421
	12 - 14									M12x1x13,5 - SW5		23.98	422
	16 - 18									M16x1x13,5 - SW5		27.66	423

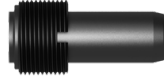
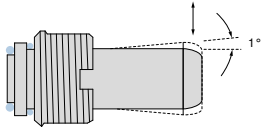
Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals



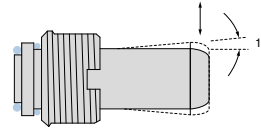
Adapter		THOD	83 760 ...	
			£	
			Y8	
HSK 32	M10 x 1		24.08	032
HSK 40	M12 x 1		24.08	040
HSK 50	M16 x 1		24.08	050
HSK 63	M18 x 1		13.15	063
HSK 80	M20 x 1,5		26.37	080
HSK 100	M24 x 1,5		21.50	100

Coolant transfer pipe with strainer

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



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

NEW



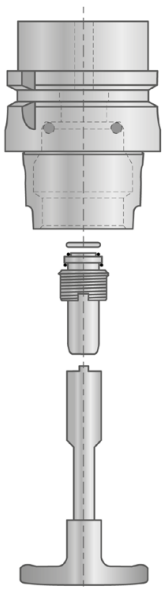
For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole

Key

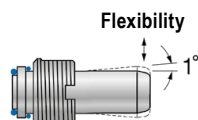


Adapter		83 758 ...	
		£	
		Y8	
HSK 32		41.46	032
HSK 40		41.82	040
HSK 50		45.36	050
HSK 63		28.22	063
HSK 80		53.42	080
HSK 100		52.96	100

Coolant pipe for HSK tools



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

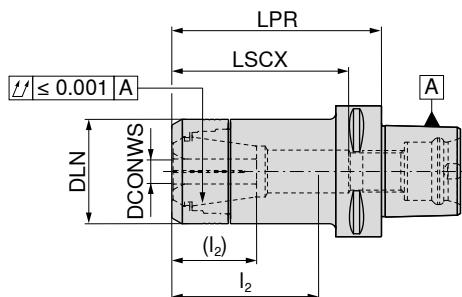


ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2,5 n_{max} 25000

84 112 ...

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

→ Transmittable torque moments, Page 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

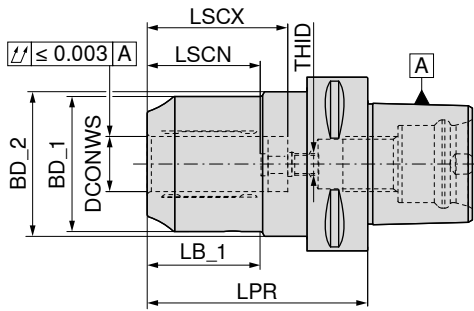
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
426E (ER16)	92.42	011	68.64	001	57.33	341	38.40	337
430E (ER25)	103.01	013	76.26	003	40.33	432	28.76	431
470E (ER32)	110.15	015	83.89	005	34.06	402	24.81	401
472E (ER40)	150.65	017	122.04	007			34.77	400

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



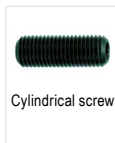
G 2,5 n_{max} 25000

84 108 ...

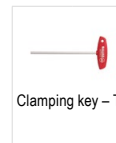
£
Y8
869.79 **62000**

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

→ Min. clamping depth, Page 312



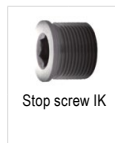
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

84 108 62000	M5x5 - SW2,5	83 950 ...	£ Y7 3.67	157	SW5	80 397 ...	£ Y7 7.73	050	M10x1x14	83 950 ...	£ Y7 10.98	429	M16x1x13,5 - SW8	83 950 ...	£ Y7 27.66	424
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Accessories

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

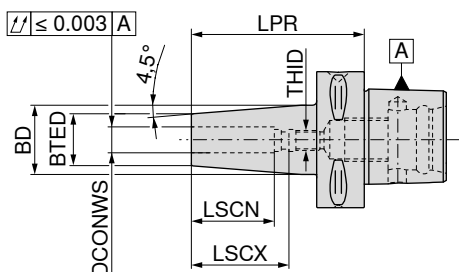
Shrink adapters

- ▲ 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 ...

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

→ Min. clamping depth, Page 312

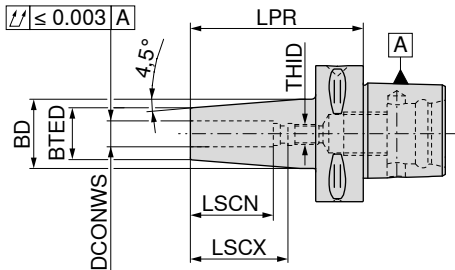
Shrink adapters

- ▲ 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

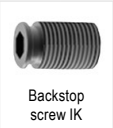


G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

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

→ Min. clamping depth, Page 312

Spare parts heat shrink adapter



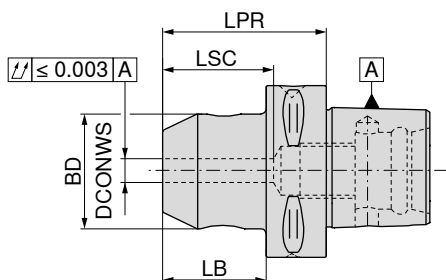
Backstop screw IK

84 950 ...

Spare parts	£	
DCONWS	Y8	
6	16.15	140
8	16.15	141
10	16.15	142
12 - 14	16.15	143
16 - 18	16.15	144
20 - 32	16.15	145

Cylindrical shank adapter (Weldon)

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



G 6,3 n_{max} 15000

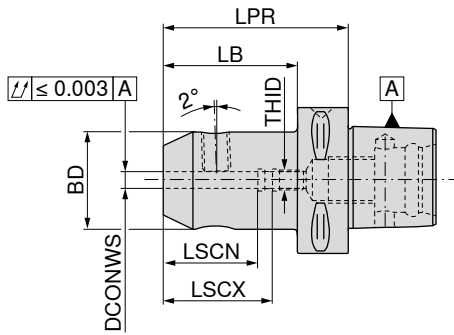
84 100 ...

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

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

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

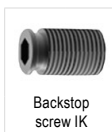


G 6,3 n_{max} 15000

84 102 ...

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

1) Version with two grubscrews



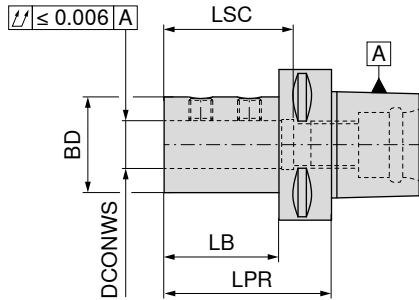
62 950 ...

84 950 ...

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

Indexable insert drill adapter ISO 26623-1 PSC

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



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

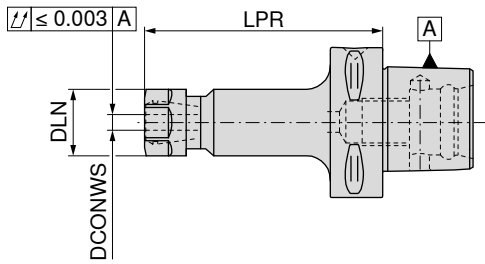


Spare parts

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

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

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

84 114 ...

£
Y8

231.16 304

246.72 404

262.11 504

308.77 506

262.11 604

308.77 606

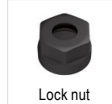
339.70 806

293.21 804

62 950 ...

£
W7

M22x1,5 - SW25 32.23 044



Spare parts for collet

426E (ER16)

Accessories

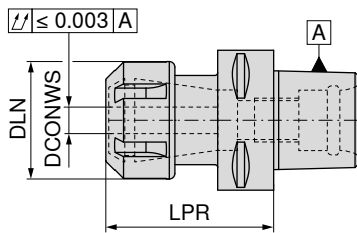


ER collet

→ 268-275, 279

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 115 ...

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

1) with 6 position lock nut

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

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
428E (ER20)	25.99	045	94.26	053	26.70	055	40.89	12000
430E (ER25)			96.66	055	27.37	056	28.20	125
470E (ER32)			103.38	056	28.36	057	41.07	132
472E (ER40)			124.40	057			46.52	140

Accessories



ER collet

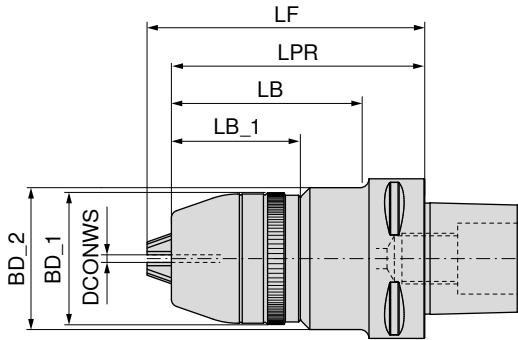
→ 268-275, 279

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 2,5 n_{max} 12000

84 111 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm		
PSC 40	0,5 - 13	48.5	56	50.90	78.0	100	109.0		
PSC 40	2,5 - 16	51.0	56	52.15	78.0	100	110.5		
PSC 50	0,5 - 13	48.5	56	50.90	77.0	100	109.0		
PSC 50	2,5 - 16	51.0	56	52.15	77.0	100	110.5		
PSC 63	0,5 - 13	48.5	56	50.90	74.5	100	109.0		
PSC 63	2,5 - 16	51.0	56	52.15	74.5	100	110.5		

£	
Y8	
1,102.74	01395
1,131.70	01695
1,125.35	01394
1,154.81	01694
1,148.21	01393
1,178.43	01693

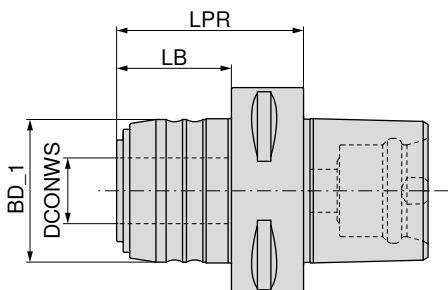
Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

Others
→ 284

Synchronised quick change tap chuck with minimal length compensation

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



84 140 ...

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

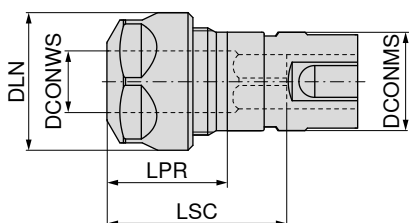
£	Y8	012
1,059.53		612
1,191.47		620

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

£	Y8	012
236.04		012 ¹⁾
274.95		020

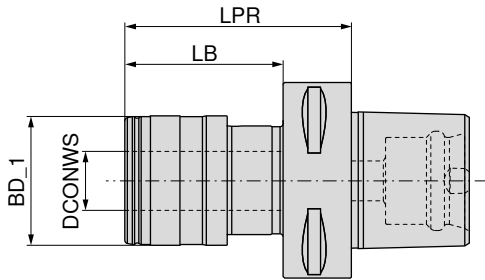
1) with 6 position lock nut

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

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

Quick change tap chuck with length compensation

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



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

Accessories

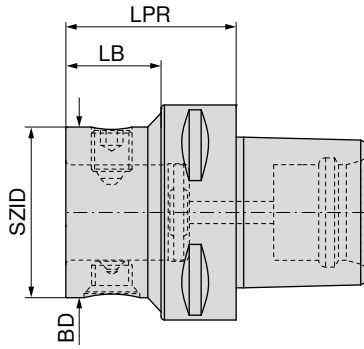


Collet

→ 288-292

Adapter with ABS Connection

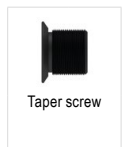
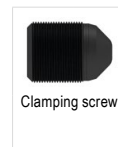
▲ also available with Balluff chip on request



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

84 215 ...

£	
Y8/3K	
1,735.85	04097
1,117.76	05097
1,161.35	06397
1,199.98	06396
1,645.70	08097
1,735.85	08096
1,836.13	08092



84 950 ...

84 950 ...

£		£	
XX		XX	
10.95	20300	13.91	20400
10.42	25500	13.22	27300
12.82	25600	15.60	25100

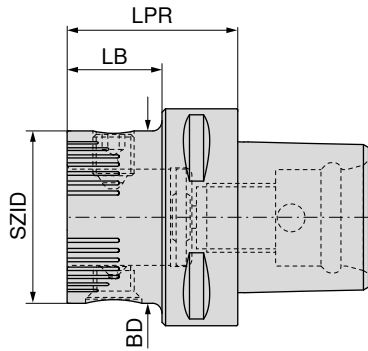
Spare parts

SZID

- ABS 50
- ABS 63
- ABS 80

Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request



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



Spare parts

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

Accessories



Coolant transfer pipe

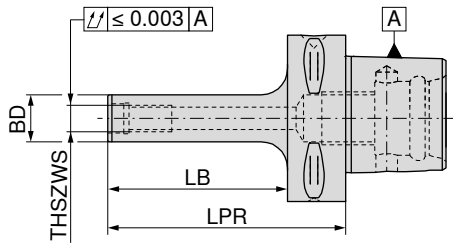
Others

→ 176

→ 284

Adapter for screw-in milling cutter

▲ also available with Balluff chip on request



G 2,5 n_{max} 20000

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

84 110 ...

£

Y8

355.26 302

355.26 306

364.59 402

364.59 405

364.59 408

370.79 502

370.79 505

370.79 508

370.79 512

401.75 602

401.75 605

401.75 608

401.75 612

Accessories



Coolant transfer pipe

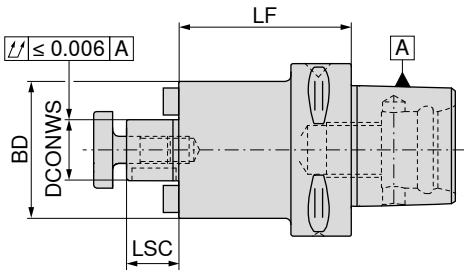
→ 176

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 ...

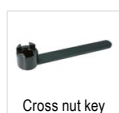
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	£	
PSC 40	16	28	40	17	277.66	401
PSC 40	16	63	40	17	293.21	402
PSC 40	22	40	50	19	277.66	411
PSC 40	22	63	50	19	293.21	412
PSC 50	16	28	40	17	277.66	501
PSC 50	16	63	40	17	293.21	502
PSC 50	22	28	50	19	277.66	511
PSC 50	22	63	50	19	293.21	512
PSC 50	27	32	50	21	277.66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



84 950 ...



84 950 ...



83 368 ...



83 367 ...



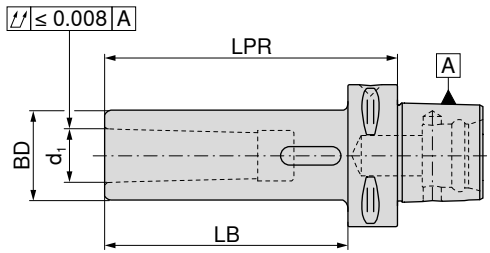
83 950 ...

Spare parts

DCONWS	£		£		£		£		£	
16	6.07	108	13.77	113	25.47	116	6.77	016	7.18	113
22	6.07	109	16.15	114	31.70	122	7.53	022	8.10	124
27	6.07	110	17.47	115	37.27	127	9.63	027	8.95	125
32	6.07	111	19.83	116	50.79	132	15.12	032	10.90	126
40	6.07	112	22.06	117	50.45	140	16.18	040	12.02	112

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

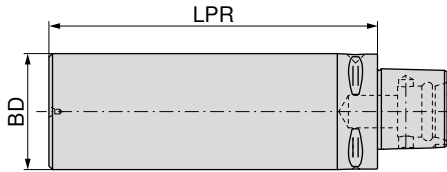
▲ also available with Balluff chip on request



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

Blank

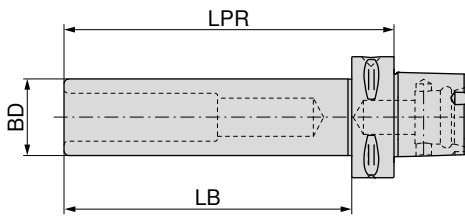
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



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

Test bar

▲ also available with Balluff chip on request



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

84 136 ...

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

Coolant pipe

Scope of supply:

complete, including seals



84 116 ...

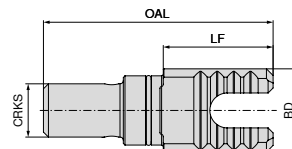
Adapter	THOD	£	
		Y8	
PSC 40	M14 x 1,5	54.86	04000
PSC 50	M16 x 1,5	57.67	05000
PSC 63	M20 x 2,0	60.51	06300
PSC 80	M20 x 2,0	75.40	08000

Pull stud for PSC adapter

▲ for front clamping

Scope of supply:

including O-Ring



NEW

83 235 ...

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

Key



84 117 ...

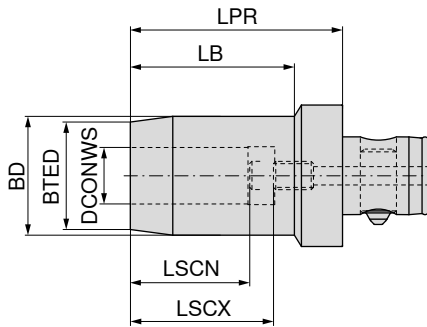
Adapter	£	
	Y8	
PSC 40	49.28	04000
PSC 50	52.78	05000
PSC 63	56.38	06300
PSC 80	76.23	08000

HyTens – Fit

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

Scope of supply:

Base body including backstop screw



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

84 253 ...

£	Y8
917.93	00688
917.93	00888
917.93	01088
917.93	01288
1,027.98	00697
1,027.98	00897
1,027.98	01097
1,027.98	01297
1,027.98	01497
1,027.98	01697
1,027.98	01897
1,027.98	02097
1,306.15	02096
1,306.15	02596
1,306.15	03296



Spare parts DCONWS

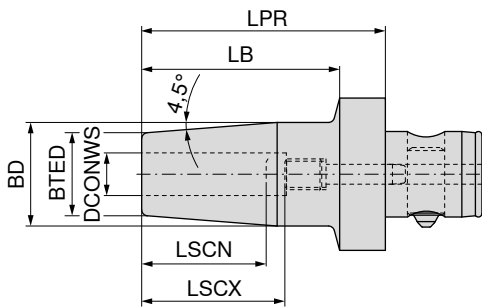
DCONWS	Part Description	£	Y7
6	M5x12,5 - SW2,5	23.98	418
8	M6x12,5 - SW3	23.98	419
10	M8x1x13,5 - SW3	23.98	420
12	M10x1x13,5 - SW5	23.98	421
14	M10x1x13,5 - SW5	23.98	421
16	M10x1x13,5 - SW5	23.98	421
18	M10x1x13,5 - SW5	23.98	421
20	M16x1x13,5 - SW5	27.66	423
25	M16x1x13,5 - SW5	27.66	423
32	M16x1x13,5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

83 950 ...

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

Heat shrink adapter 4.5° with ABS connection

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



G 6,3 n_{max} 15000

84 222 ...

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



Backstop screw

84 950 ...

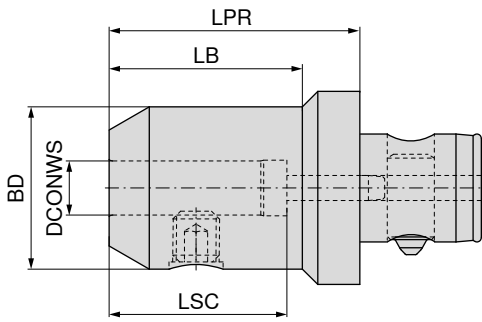
Spare parts

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

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

Cylindrical shank adapter (Weldon) with ABS connection

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



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

1) Version with two grub screws

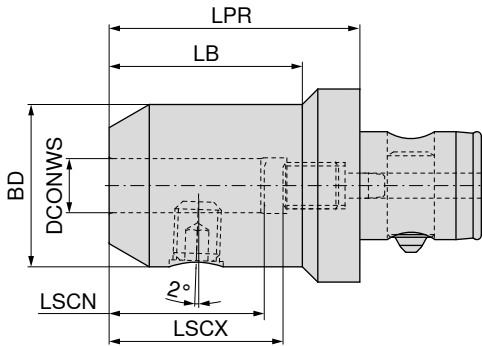


			62 950 ...	
Spare parts	DCONWS		£	
			W7	
6		M6x10	1.11	006
8		M8x10	1.11	008
10		M10x12	2.12	010
12		M12x16	1.68	012
14		M12x16	1.68	012
16		M14x16	2.08	016
18		M14x16	2.08	016
20		M16x16	2.21	020
25		M18x2x20	4.27	025
32		M20x2x20	4.46	032

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

Cylindrical shank adapter (Whistle Notch) with ABS connection

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

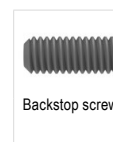


84 220 ...


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

1) Version with two grub screws

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



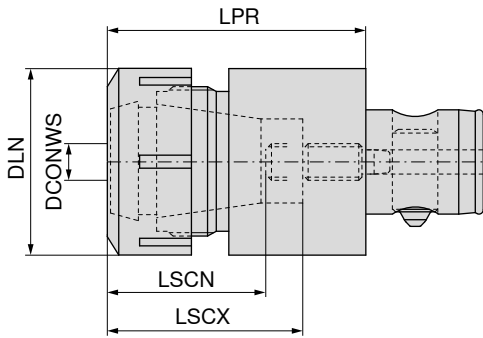
		62 950 ...		84 950 ...	
		£		£	
Spare parts		W7		W7/6B	
DCONWS					
6	M6x10	1.11	006	M5x16	3.79 20500
8	M8x10	1.11	008	M6x16 - SW2,5	3.79 20600
9	M8x10	1.11	008	M8x1x16 - SW3	3.79 20800
10	M10x12	2.12	010	M8x1x16 - SW2,5	3.79 20700
12	M12x16	1.68	012	M10x1x18 - SW3	4.77 20900
13	M12x16	1.68	012	M12x1x17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

 For an overview of the ABS spare parts, take a look at [page 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	£ 3E 236.47 01690 ¹⁾
ABS 32	A33 12130	428E (ER20)	1 - 13	52.5	34	39	35	259.75 02089 ¹⁾
ABS 40	A33 13141	430E (ER25)	1 - 16	62.0	42	46	43	277.34 02588
ABS 50	A33 14151	470E (ER32)	2 - 20	69.3	50	51	48	320.47 03297
ABS 63	A33 15161	472E (ER40)	3 - 26	78.3	63	55	52	316.08 04096

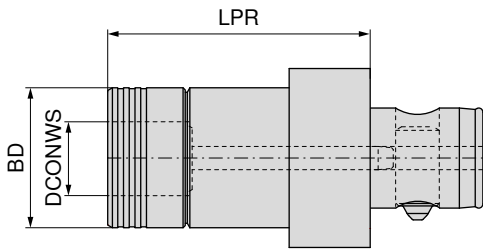
1) with 6 position lock nut

Spare parts for collet	Lock nut		Lock nut IK		Lock nut		Backstop screw	
	£		£		£		£	
426E (ER16)	32.23	044	82.98	054	26.70	055	3.79	22500
428E (ER20)	25.99	045	94.26	053	27.37	056	3.79	22000
430E (ER25)			96.66	055	28.36	057	4.15	22600
470E (ER32)			103.38	056			4.77	22700
472E (ER40)			124.40	057			6.59	22800

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

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)



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

84 225 ...

£

3E

1,095.44 01989

1,419.46 01988

1,344.36 01997

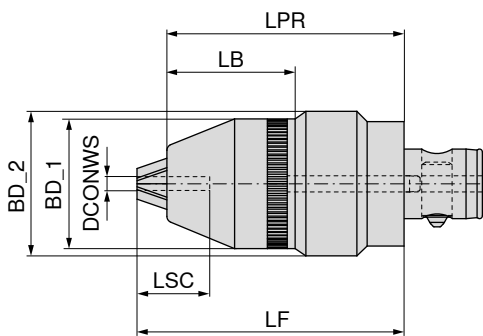
1,647.98 03197

1,663.00 03196

Short drill chuck

Scope of supply:

Toolholder including clamping key SW4



G 6,3 n_{max} 10000

84 247 ...

£

Y8

1,306.71 01397

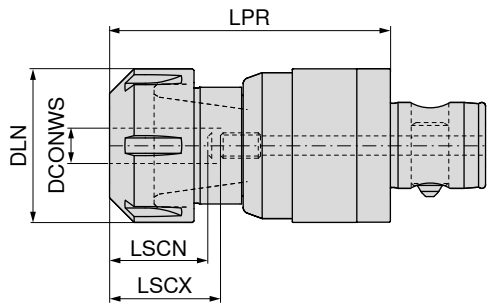
1,327.01 01697

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

Accessories

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

Synchro tapping shuck with ABS connection



84 226 ...

Adapter	KOMET no.	for collet	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm		
ABS 32	50795131002000	ER 20	1 - 13	78.0	34	42	29		
ABS 50	50795135002000	ER 20	1 - 13	85.0	34	42	29	£ Y8/3K 1,539.98	02089
ABS 50	50795135003200	ER 32	2 - 20	90.5	50	45	31	1,689.28	03297

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

Accessories



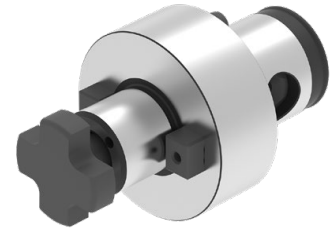
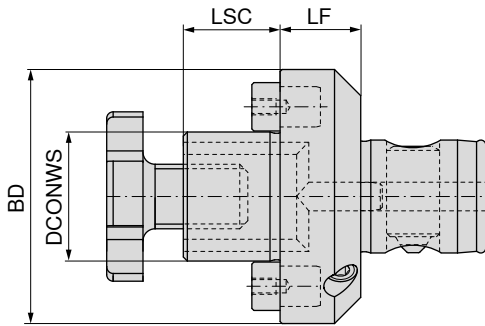
ER collet

→ 268-276, 278-279

Shell mill adapter with ABS connection

Scope of supply:

Base body including drive dogs and retaining screw



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

Spare parts

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

Drive dog	Driver	Cross screw
84 950 ...	83 950 ...	83 367 ...
£	£	£
W7/6B	Y8/3B	Y8
41.69		6.77
22900		016
44.01		7.53
23000		022
41.69		9.63
23100		027
	26.57	15.12
	295	032
	29.95	16.18
	298	040

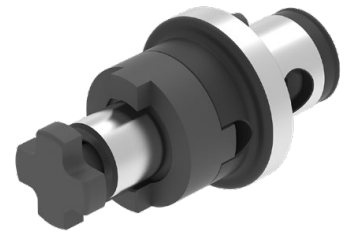
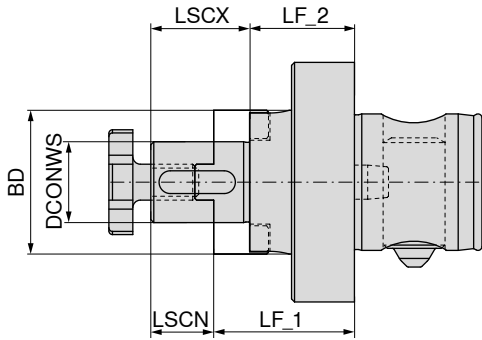
For an overview of the ABS spare parts, take a look at **page 314**.

Combination shell mill adapter with ABS connection

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

Scope of supply:

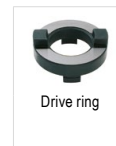
Base body including retaining screw, drive ring and drive key



Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm		
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 ...

£	
3E	
255.25	01697
246.45	02297
358.03	01696
402.23	02296
312.75	02796
470.79	02292
423.27	02792
353.64	03292
372.40	04092

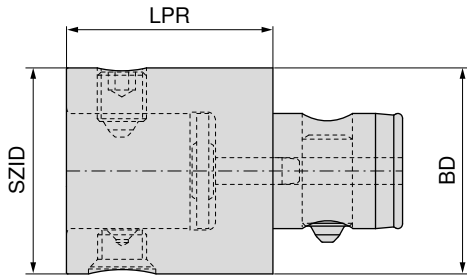


Spare parts

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

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

Extension with ABS Connection



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

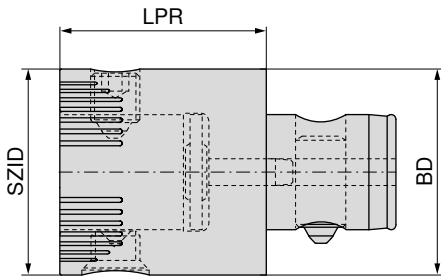
Spare parts	Clamping screw		Clamping screw		Positioning pin		Pendulum bolt		Coolant pipe		Taper screw	
	£	XX	£	XX	£	XX	£	XX	£	XX	£	XX
Adapter												
ABS 25			7.20	26800	0.42	23600	23.80	26000	7.28	24400	10.42	27000
ABS 32	12.01	13989			8.20	23700	17.70	26100	7.55	24500	10.42	27100
ABS 40			8.16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

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

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc




Adapter	KOMET no.	SZID	BD	LPR	84 216 ...	
			mm	mm	£	
ABS 50	A20 00651	ABS 50	50	50	3E	
ABS 63	A20 00661	ABS 63	63	60	633.98	05097
ABS 80	A20 00670	ABS 80	80	70	793.73	06096
					793.73	07092

Clamping screw		Taper screw	
84 950 ...		84 950 ...	
£	XX	£	XX
10.95	20300	13.91	20400
10.42	25500	13.22	27300
12.82	25600	15.60	25100

Spare parts

Adapter

ABS 50	10.95	20300	13.91	20400
ABS 63	10.42	25500	13.22	27300
ABS 80	12.82	25600	15.60	25100

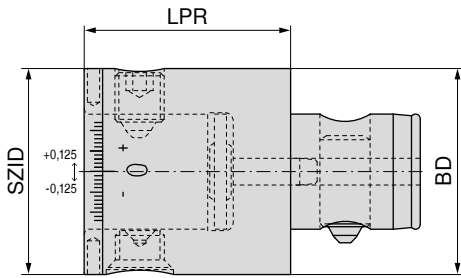
 For an overview of the ABS spare parts, take a look at **page 314**.

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



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

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

Spare parts

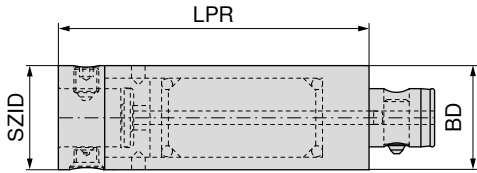
Adapter

ABS 50
ABS 63

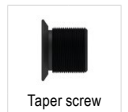
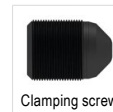
For an overview of the ABS spare parts, take a look at **page 314**.

Damping element with ABS connection

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



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

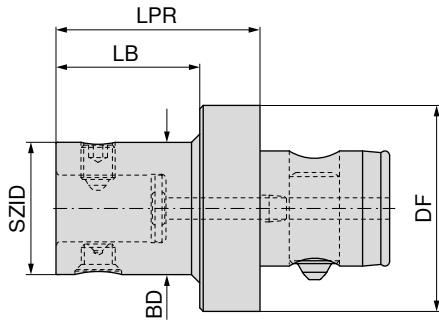


Spare parts

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

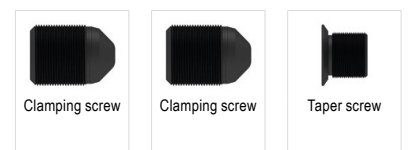
For an overview of the ABS spare parts, take a look at **page 314**.

Reduction with ABS connection



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

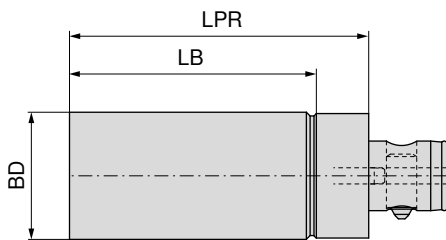
Spare parts SZID	62 950 ...		84 950 ...		84 950 ...	
	£	XX	£	XX	£	XX
ABS 25						
ABS 32	12.01	13989	7.20	26800	10.42	27000
ABS 40			8.16	26900	10.84	27200
ABS 50			10.95	20300	13.91	20400
ABS 63			10.42	25500	13.22	27300
ABS 80			12.82	25600	15.60	25100
ABS 100			15.79	25700	17.32	25200



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

Blank with ABS connection


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



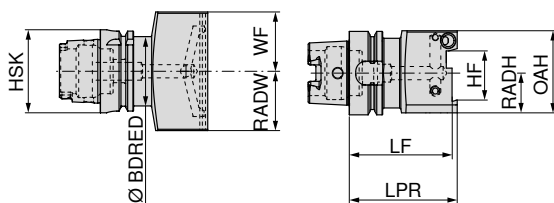
Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...

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

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

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



radial

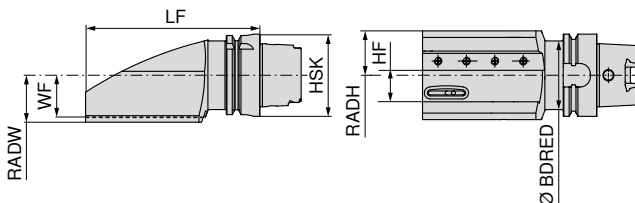
74 586 ...

£
2D/80

449.58 02637
449.58 03237

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

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



Illustrations show right-hand versions



Left-hand

74 585 ...

£
2D/80

449.58 02637
449.58 03237



Right-hand

74 584 ...

£
2D/80

449.58 02637
449.58 03237

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



70 950 ...

£
2A/28

4.97 293



70 950 ...

£
2A/28

4.97 292



70 950 ...

£
2A/28

71.66 860



70 950 ...

£
2A/28

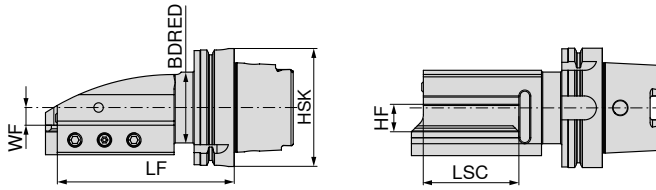
2.57 861

Spare parts for parting blades

XLCF R/L 26...	19x2,5	4.97	293	23x2,5	4.97	292	71.66	860	M6x12	2.57	861
XLCF R/L 32...	19x2,5	4.97	293	23x2,5	4.97	292	71.66	860	M6x12	2.57	861

HSK-T square shank holder 0° with DirectCooling

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



Illustrations show right-hand versions



NEW



Left-hand

74 571 ...

£

2D/80

351.52 02537

464.18 02535

NEW



Right-hand

74 570 ...

£

2D/80

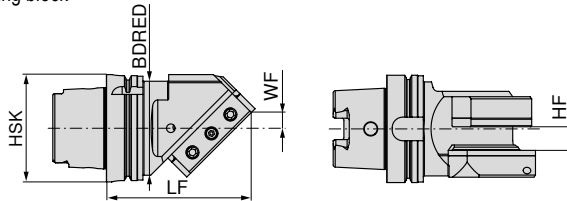
351.52 02537

464.18 02535

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

HSK-T square shank holder 45° with DirectCooling

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



Illustrations show right-hand versions



NEW



Left-hand

74 573 ...

£

2D/80

393.25 02537

477.74 02535

NEW



Right-hand

74 572 ...

£

2D/80

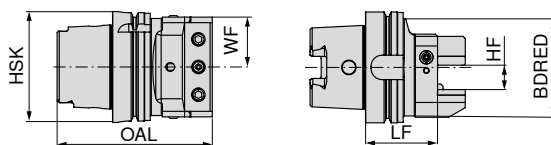
351.52 02537

477.74 02535

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

HSK-T square shank holder 90° with DirectCooling

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



NEW



Neutral

74 575 ...

£

2D/80

351.52 02537

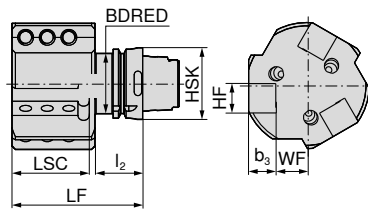
464.18 02535

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

Spare parts HSK-T square shank holders with DirectCooling

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

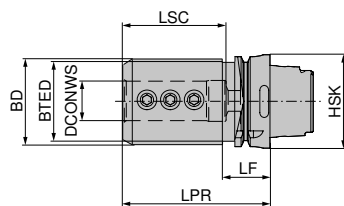
HSK-T square shank adapter 3-face 0°



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

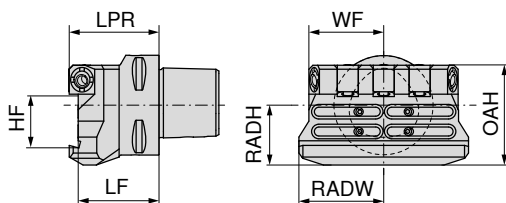
		Protection plugs		Nozzle		Hollow key with nose		Grubscrew		
		70 950 ...		70 950 ...		70 950 ...		70 950 ...		
		£ 2A/28		£ 2A/28		£ 2A/28		£ 2A/28		
Spare parts										
Adapter										
HSK-T 63	UNJF 7/16"-20	23.32	05600	UNJF 7/16"-20	33.54	05500	51.85	05700	M12x1,75x25	2.58 851
HSK-T 100	UNJF 7/16"-20	23.32	05600	UNJF 7/16"-20	33.54	05500	51.85	05700	M12x1,75x25	2.58 851

HSK-T Boring bar holder



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

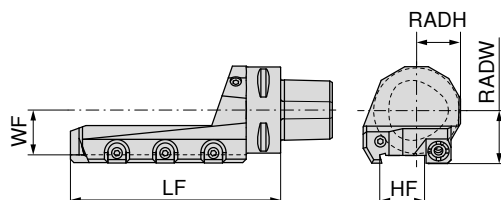
MonoClamp – PSC parting blade holder GX/LX/FX/SX with DirectCooling



84 617 ...

Adapter	LF mm	LPR mm	WF mm	HF mm	OAH mm	RADW mm	RADH mm	for parting blades	£	
PSC 40	40.5	45	37.5	26	50	42.5	30	XLCF N 26...	1,283.00	62695
PSC 50	40.5	45	37.5	26	50	42.5	30	XLCF N 26...	1,283.00	62694
PSC 63	45.5	50	40.0	32	57	45.0	35	XLCF N 32...	1,438.20	63293

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



Diagrams show right hand versions



Left-hand



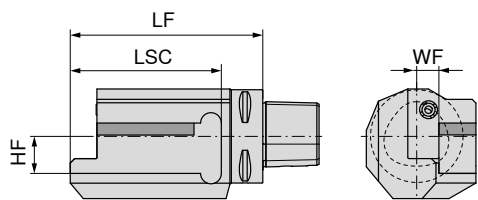
Right-hand

Adapter	LF mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades	£		£	
PSC 40	122	21	26	31	20.5	XLCF N 26...	1,283.00	32695	1,283.00	22695
PSC 50	122	26	26	31	22.5	XLCF N 26...	1,283.00	32694	1,283.00	22694
PSC 63	160	32	32	37	25.5	XLCF N 32...	1,438.20	33293	1,438.20	23293

PSC square shank holder 0° with DirectCooling

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

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



Diagrams show right hand versions



Left-hand

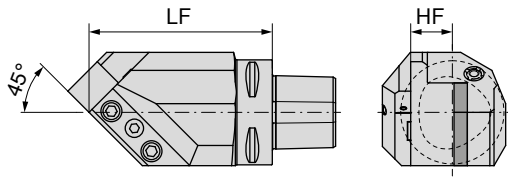


Right-hand

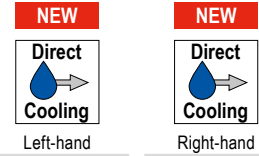
Adapter	LF mm	WF mm	LSC mm	HF mm	£		£	
PSC 63	130	15	102	20 / 25	963.20	32593	963.20	22593
PSC 80	130	20	102	25	1,074.40	32586	1,074.40	22586

PSC square shank holder 45° with DirectCooling

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



Diagrams show right hand versions

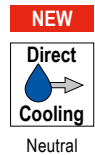
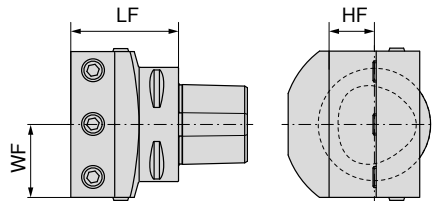


Adapter	LF mm	HF mm
PSC 50	85	20
PSC 63	110	20 / 25

NEW 84 616 ... Left-hand		NEW 84 616 ... Right-hand	
£		£	
Y8	1,012.20	Y8	1,012.20
	12094		02094
	1,278.00		1,278.00
	12593		02593

PSC square shank holder 90° with DirectCooling

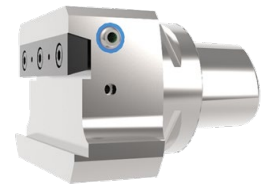
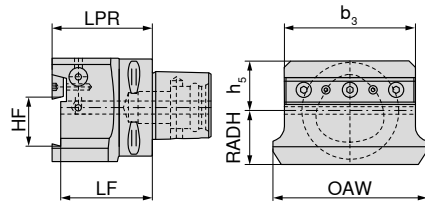
- ▲ Suitable for tool holders with PSC 40 – HF = 20 mm / PSC 63 HF = 20 / 25 mm
- ▲ These HF values can be achieved by removing the clamping block



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

NEW 84 616 ... Neutral	
£	
Y8	927.40
	62095
	963.20
	62593

Radial parting blade holder, right / left



Neutral

84 132 ...

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

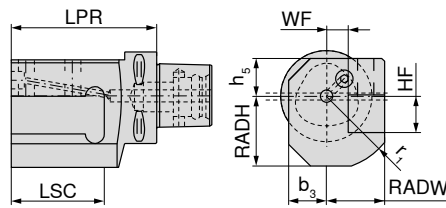
£

Y8

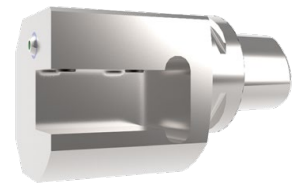
494.90 626

494.90 632

Square section adapter, single face



Illustrations show right-hand versions



Left-hand

Right-hand

84 611 ...

84 610 ...

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

£

Y8

401.75 520

401.75 525

401.75 532

463.78 620

463.78 625

463.78 632

556.96 820

556.96 825

556.96 832

£

Y8

401.75 520

401.75 525

401.75 532

463.78 620

463.78 625

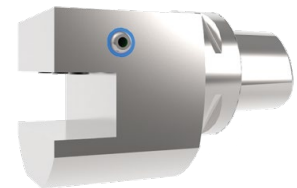
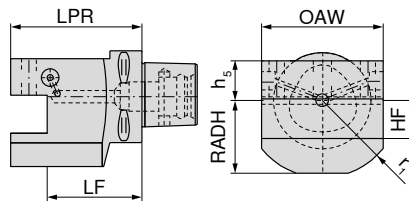
463.78 632

556.96 820

556.96 825

556.96 832

Radial square section tool holders 90°



Neutral

84 602 ...

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

£

Y8

401.75 520

417.31 525

448.41 532

463.78 620

494.90 625

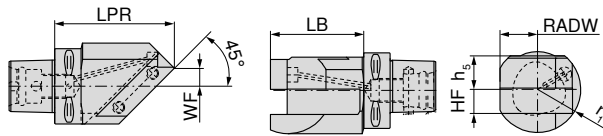
525.83 632

494.90 820

525.83 825

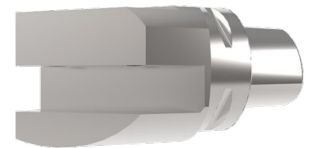
556.96 832

Square section adapter 45°



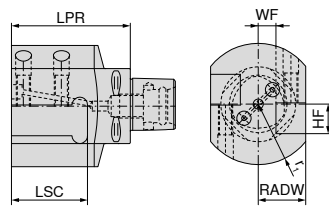
Illustrations show right-hand versions

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



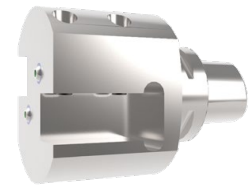
Left-hand		Right-hand	
84 605 ...		84 604 ...	
£		£	
Y8		Y8	
401.75	520	401.75	520
479.35	620	479.35	620
541.39	832	541.39	832

Square section adapter, double face



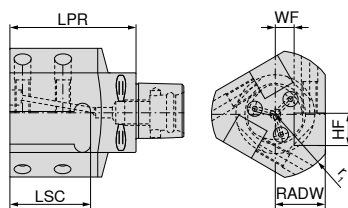
Illustrations show right-hand versions

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



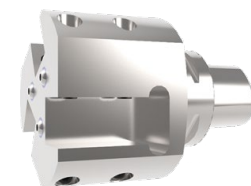
Left-hand		Right-hand	
84 613 ...		84 612 ...	
£		£	
Y8		Y8	
681.05	520	681.05	520
696.59	525	696.59	525
711.99	532	711.99	532
711.99	620	711.99	620
727.55	625	727.55	625
743.09	632	743.09	632
851.62	820	851.62	820
867.20	825	867.20	825
882.75	832	882.75	832

Square section adapter, triple face



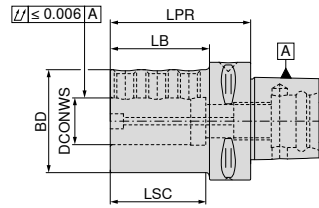
Illustrations show right-hand versions

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



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

Boring bar holder



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

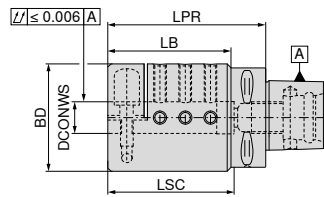


Grubscrew

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

Boring bar adapter, split version

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



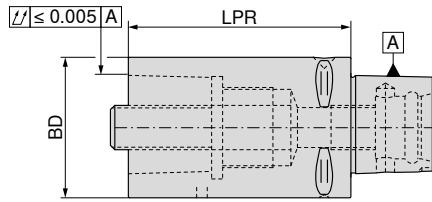
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ... £ Y8
PSC 63	6	80	40	58	60	432.85 606
PSC 63	8	85	45	63	65	432.85 608
PSC 63	10	85	50	63	65	432.85 610
PSC 63	12	100	63	78	80	432.85 612
PSC 63	16	100	63	78	80	432.85 616
PSC 63	20	100	68	78	80	432.85 620
PSC 63	25	100	68	78	80	432.85 625
PSC 63	32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

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



Extension, axial clamping

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



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

Spare parts

Adapter	84 950 ...		84 950 ...	
	£		£	
	Y8		Y8	
PSC 32	49.77	127	36.12	122
PSC 40	49.77	128	40.71	123
PSC 50	49.77	129	40.71	124
PSC 63	99.37	130	45.31	126
PSC 80	99.37	130	45.31	126



Accessories

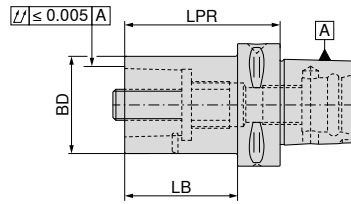


Hollow nose keys

→ 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 ...

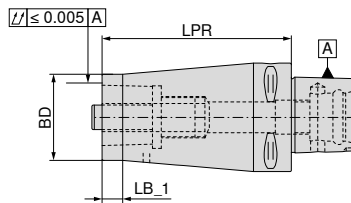
£
Y8

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

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

Tapered reduction

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



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

84 625 ...

£
Y8

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

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

Spare parts

Adapter

PSC 40	49.77	128
PSC 50	49.77	129
PSC 63	99.37	130
PSC 80	99.37	130
PSC 80X	99.37	130



84 950 ...

£
Y8

49.77	128
49.77	129
99.37	130
99.37	130
99.37	130

84 950 ...

£
Y8

40.71	123
40.71	124
45.31	126
45.31	126
45.31	126

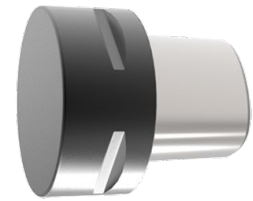
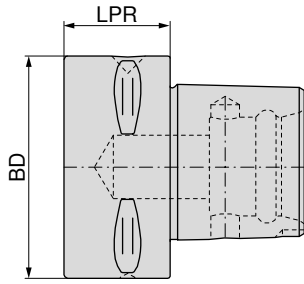
Accessories



Hollow nose keys

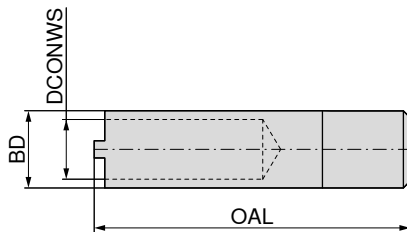
→ 204

Sealing plugs



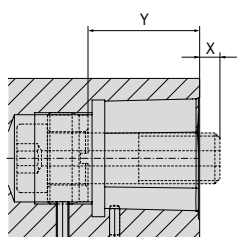
Adapter	BD mm	LPR mm	84 135 ...	
			£	
			Y8	
PSC 40	40	28	155.19	040
PSC 50	50	28	155.19	050
PSC 63	63	30	183.05	060
PSC 80	80	38	198.58	080

Hollow nose key for clamping screw for PSC extensions and reductions



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

Installation instructions: clamping screw for PSC extensions and reductions



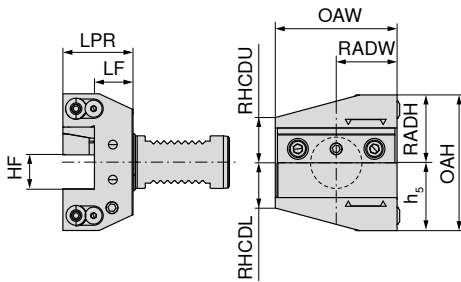
X = Screw leading edge
Y = Threaded ring insertion depth

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

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

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

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



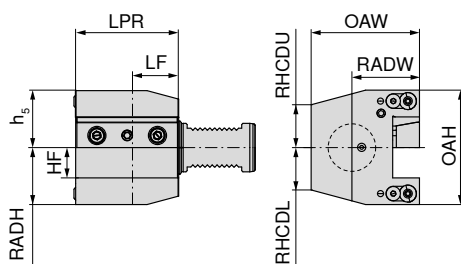
double

82 245 ...

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm	£	
VDI 20	16	16	30	55	30	30.0	30	60	22	22	398.38	01629
VDI 20	16	26	40	55	30	30.0	30	60	22	22	398.38	51629
VDI 25	16	16	30	55	30	30.0	30	60	22	22	398.38	01628
VDI 30	20	22	40	70	39	35.0	39	78	26	26	398.38	02027
VDI 40	25	22	44	85	47	42.5	47	94	33	33	469.97	02526
VDI 50	25	22	44	98	55	50.0	55	110	42	42	585.59	02525

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

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



double

82 246 ...

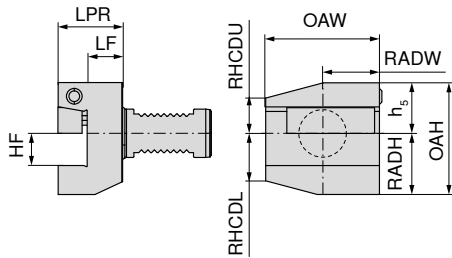
Adapter	HF _{0/-0,1} mm	LF mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm	£	
VDI 30	20	30	70	74	39	39.0	39	78	26	26	458.24	02027
VDI 40	25	30	85	94	47	52.5	47	94	35	35	545.91	02526
VDI 50	25	30	85	105	50	63.0	50	100	42	42	697.22	02525



You can find spare parts on → Page 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



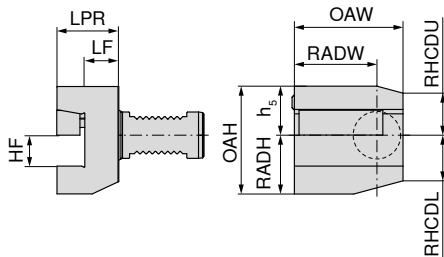
double

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	306.70	02027
VDI 40	25	22	44	85.0	48	42.5	38.0	86.0	35.0	30	362.57	02526
VDI 50	25	22	44	92.5	48	50.0	43.0	91.0	43.0	30	450.14	02525

Radial square section tool holder with DirectCooling – B2 / B3

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



double

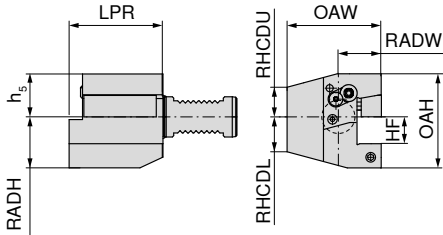
82 247 ...

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm	£	
VDI 30	20	22	40	70.0	38	35.0	31.5	69.5	29.5	27	306.70	12027
VDI 40	25	22	44	85.0	48	42.5	38.0	86.0	35.0	30	362.57	12526
VDI 50	25	22	44	92.5	48	50.0	43.0	91.0	35.0	38	450.14	12525

You can find spare parts on → Page 264+265

Axial square section tool holder with DirectCooling – C1 / C4

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



double

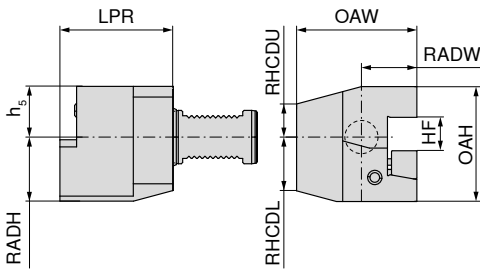
82 248 ...

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

£	
Y8	02027
350.61	
418.34	02526
533.83	02525

Axial square section tool holder with DirectCooling – C2 / C3

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



double

82 248 ...

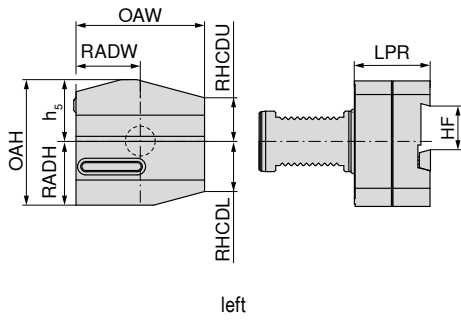
Adapter	HF _{0/-0,1} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	70	76	38	41.0	32	70	26	26
VDI 40	25	85	90	48	47.5	38	86	35	30
VDI 50	25	85	95	48	52.5	44	92	42	37

£	
Y8	12027
350.61	
418.34	12526
533.83	12525

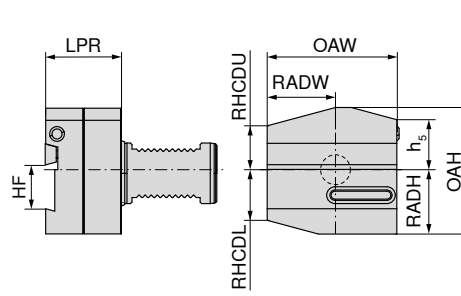
You can find spare parts on → Page 264+265

Parting blade holder for parting blades with DirectCooling

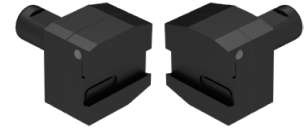
- ▲ Double tooth profile for normal and overhead applications
- ▲ for parting blades with DirectCooling
- ▲ can be used up to 100 bar



left



right



NEW




NEW



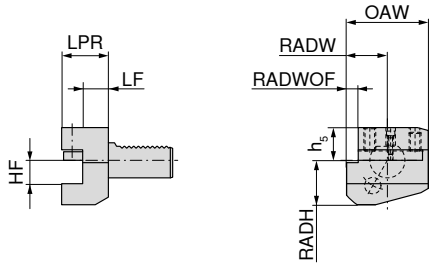
Left-hand

Right-hand

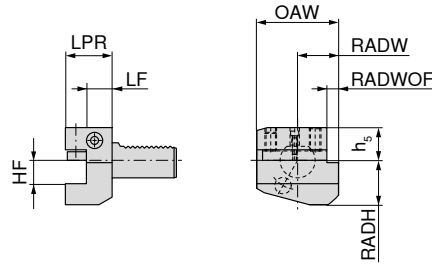
Adapter	HF mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm	Left-hand		Right-hand					
										£		£					
VDI 30	26	50	70	37	35,0	32	69	30	25	82 249 ...	£	768.93	12627	82 249 ...	£	768.93	02627
VDI 40	32	50	85	40	42,5	43	83	31	31	864.60	13226	864.60	03226	864.60	12626	864.60	02626
VDI 50	32	50	100	45	50,0	43	88	37	35	1,031.74	13225	1,031.74	03225	1,031.74	13225	1,031.74	03225

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

Radial tool holders, short



B2



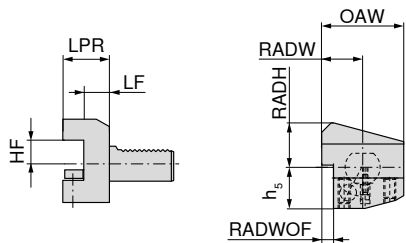
B1



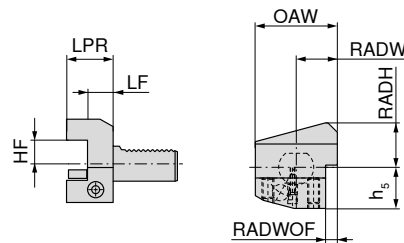
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	82 189 ...		82 185 ...	
									£		£	
									Y8		Y8	
									312.03	160	224.30	160
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	249.60	201	235.85	201
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	191.49	200	204.41	200
VDI 20	16	55	30.0	7.0	25.0	30	18.0	30	696.71	202 ¹⁾	665.92	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	25.5	40			589.32	203 ¹⁾
VDI 30	20	70	35.0	10.0	28.0	38	18.5	40	207.35	300	187.99	300
VDI 30	20	70	35.0	10.0	28.0	38	42.0	60	327.85	301	311.13	301
VDI 30	20	70	35.0	10.0	28.0	35	32.0	50			1,450.27	302 ¹⁾
VDI 40	25	85	42.5	12.5	32.5	48	18.5	44	210.11	400	191.83	400
VDI 50	32	100	50.0	16.0	35.0	60	30.0	55	325.78	500	320.43	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3

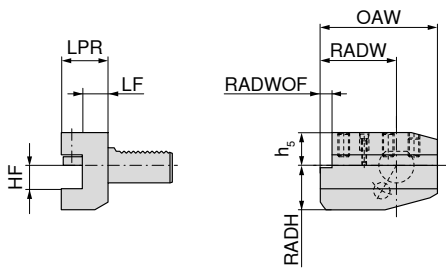


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	82 196 ...		82 193 ...	
									£		£	
									Y8		Y8	
											236.45	160
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	444.84	201	296.75	201
VDI 20	16	55	30.0	7.0	25.0	30	18.5	30	871.27	202 ¹⁾	720.44	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	1,160.75	203 ¹⁾	756.14	203 ¹⁾
VDI 30	20	70	35.0	10.0	35.0	38	18.5	40	210.11	300	193.70	300
VDI 40	25	85	42.5	12.5	42.5	48	18.5	44	215.83	400	204.84	400
VDI 50	32	100	50.0	16.0	50.0	60	30.0	55	382.83	500	325.78	500

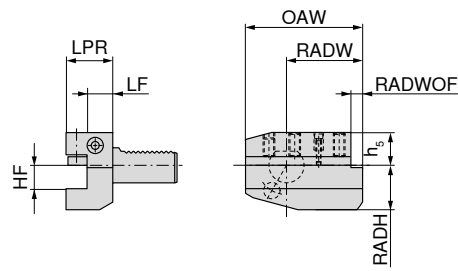
1) Height adjustable +/- 1 mm

You can find spare parts on →Page 266

Radial tool holders, long



B6



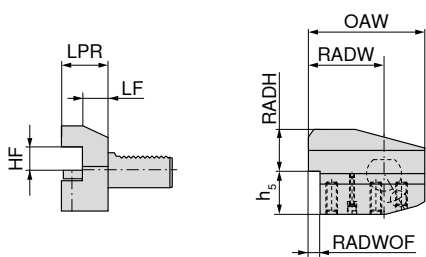
B5



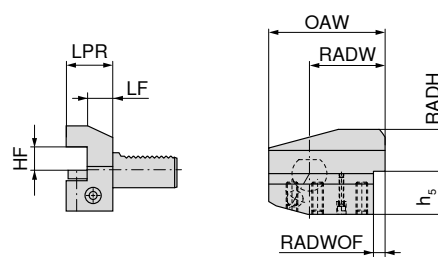
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									82 202 ...	201	82 199 ...	201
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40	£ Y8 359.35		£ Y8 329.29	201
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30			£ Y8 846.16	202 ¹⁾
VDI 30	20	100	65.0	10.0	28.0	38	18.5	40	242.95	300	236.14	300
VDI 40	25	118	75.5	12.5	32.5	48	18.5	44	241.11	400	245.92	400
VDI 50	32	130	80.0	16.0	35.0	60	30.0	55	456.08	500	450.63	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, long



B8



B7

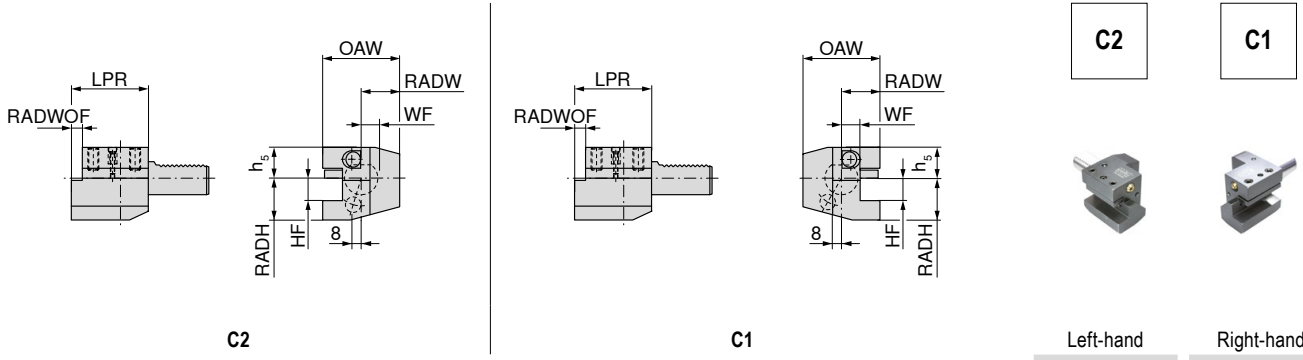


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	Left-hand		Right-hand	
									82 208 ...	200	82 205 ...	200
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30	£ Y8 341.27		£ Y8 275.16	200
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30			£ Y8 832.69	202 ¹⁾
VDI 30	20	100	65.0	10.0	35.0	38	42.0	60			£ Y8 358.87	301
VDI 30	20	100	65.0	10.0	35.0	38	18.5	40	277.63	300	242.95	300
VDI 40	25	118	75.5	12.5	42.5	48	18.5	44	269.32	400	269.32	400
VDI 50	32	130	80.0	16.0	50.0	60	30.0	55	438.13	500	458.32	500

1) Height adjustable +/- 1 mm

You can find spare parts on → Page 266

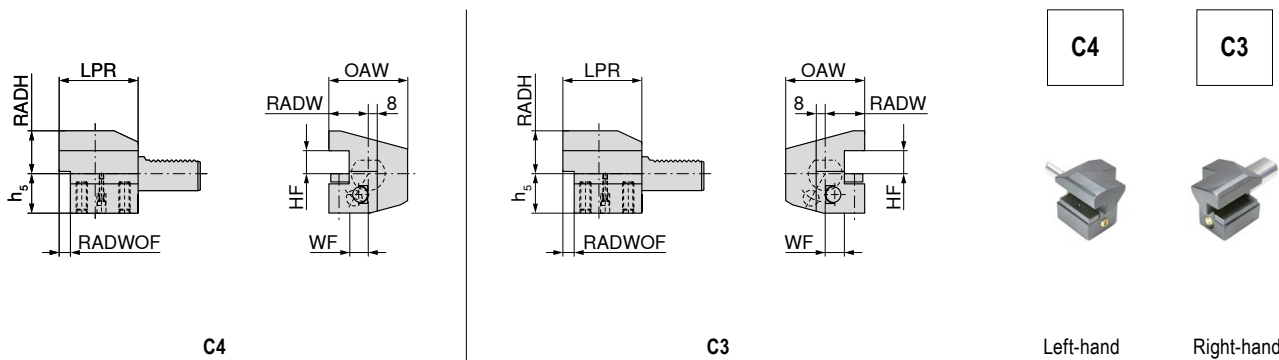
Axial tool holders



Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								£	Y8	£	Y8
VDI 16	12	43	24.0	13.0	20.0	22	44			307.51	160
VDI 20	16	65	40.0	25.5	25.0	30	50			861.66	202 ¹⁾
VDI 20	16	65	40.0	26.0	25.0	30	50	238.90	200	241.85	201
VDI 30	20	76	41.0	23.0	28.0	38	70	232.42	300	218.06	300
VDI 30	20	70	35.0	17.0	28.0	38	70			253.66	400
VDI 40	25	85	42.5	20.5	32.5	48	85	256.61	400		
VDI 40	25	90	47.5	25.5	32.5	48	85				
VDI 50	32	105	55.0	30.5	35.0	60	100	463.64	500		
VDI 50	32	100	50.0	25.5	35.0	60	100			369.85	500

1) Height adjustable +/- 1 mm

Axial tool holders, overhead

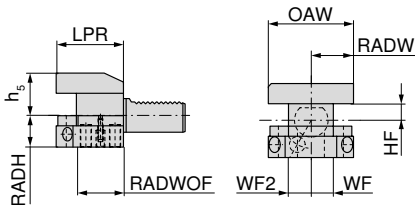


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								£	Y8	£	Y8
VDI 16	12	43	24.0	13.0	20.0	22	44			277.12	160
VDI 20	16	65	40.0	25.5	30.0	25	50			1,111.03	202 ¹⁾
VDI 20	16	65	40.0	26.0	25.0	30	50	255.69	200	292.20	201
VDI 20	16	65	40.0	25.5	25.0	30	50	897.25	201 ¹⁾		
VDI 30	20	70	35.0	17.0	35.0	38	70			222.69	300
VDI 30	20	76	41.0	23.0	35.0	38	70	234.28	300		
VDI 40	25	85	42.5	20.5	42.5	48	85			256.61	400
VDI 40	25	90	47.5	25.5	42.5	48	85	256.61	400		
VDI 50	32	100	50.0	25.5	50.0	60	100			376.32	500
VDI 50	32	105	55.0	30.5	50.0	60	100	320.43	500		

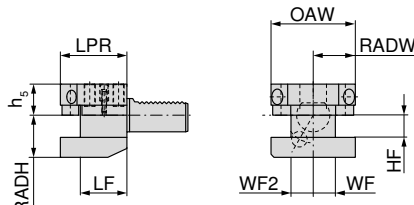
1) Height adjustable +/- 1 mm

You can find spare parts on →Page 266

Multiple tool holders



D2



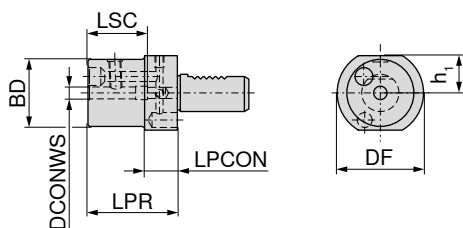
D1



Adapter	HF _{0/-0,1} mm	RADW mm	WF _{0/+0,3} mm	WF2 _{0/+0,3} mm	OAW mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	82 224 ...		82 222 ...	
										£	Y8	£	Y8
VDI 30	20	35.0	17.0	23.0	76	28.0	38	42	60			512.65	300
VDI 30	20	35.0	17.0	23.0	76	35.0	38	42	60				
VDI 40	25	42.5	20.5	25.5	90	32.5	48	50	72			536.81	400
VDI 40	25	42.5	20.5	25.5	90	42.5	48	50	72				

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



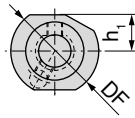
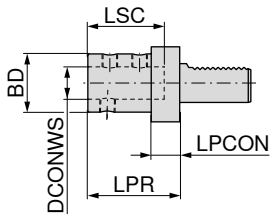
Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	83 269 ...	
								£	Y8
VDI 20	6	50	45	23.0	60	22	40	344.40	206
VDI 20	8	50	45	23.0	60	22	40	329.08	208
VDI 20	10	50	45	23.0	60	22	44	329.08	210
VDI 20	12	50	45	23.0	60	22	49	329.08	212
VDI 20	14	50	45	23.0	62	22	49	329.08	214
VDI 20	16	50	45	23.0	67	22	52	318.02	216
VDI 20	18	50	45	23.0	67	22	52	318.02	218
VDI 20	20	50	45	23.0	67	22	52	318.02	220
VDI 30	6	68	52	28.0	67	22	35	355.65	306
VDI 30	8	68	52	28.0	67	22	35	340.53	308
VDI 30	10	68	52	28.0	67	22	39	340.53	310
VDI 30	12	68	52	28.0	67	22	44	340.53	312
VDI 30	14	68	52	28.0	67	22	44	328.74	314
VDI 30	16	68	52	28.0	67	22	47	327.25	316
VDI 30	18	68	52	28.0	67	22	47	340.53	318
VDI 30	20	68	52	28.0	67	22	52	327.25	320
VDI 40	6	83	52	32.5	67	22	35	397.16	406
VDI 40	8	83	52	32.5	67	22	35	382.05	408
VDI 40	10	83	52	32.5	67	22	39	382.05	410
VDI 40	12	83	52	32.5	67	22	44	382.05	412
VDI 40	14	83	52	32.5	67	22	44	382.05	414
VDI 40	16	83	52	32.5	67	22	47	368.95	416
VDI 40	18	83	52	32.5	67	22	47	368.95	418
VDI 40	20	83	52	32.5	67	22	52	368.95	420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply

E1



AD

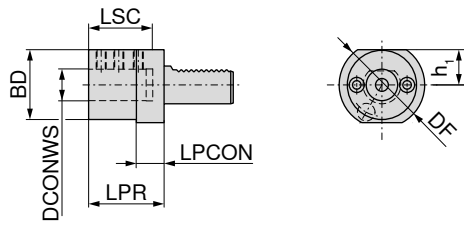
82 274 ...

Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£	
VDI 20	16	50	36	23.0	67	18	54	183.01	200
VDI 20	20	50	40	23.0	67	18	54	183.01	201
VDI 20	25	50	45	23.0	71	18	59	183.01	202
VDI 30	16	68	36	28.0	67	22	54	169.54	300
VDI 30	20	68	40	28.0	67	22	54	169.54	301
VDI 30	25	68	45	28.0	71	22	59	169.54	302
VDI 30	32	68	52	28.0	75	22	63	169.54	303
VDI 30	40	68	60	28.0	87	22	73	246.15	304
VDI 40	16	83	36	32.5	67	22	54	191.83	400
VDI 40	20	83	40	32.5	67	22	54	191.83	401
VDI 40	25	83	45	32.5	75	22	59	191.83	402
VDI 40	32	83	52	32.5	75	22	63	191.83	403
VDI 40	40	83	60	32.5	90	22	73	191.83	404
VDI 50	20	98	40	35.0	80	30	54	270.98	500
VDI 50	25	98	45	35.0	80	30	59	270.98	501
VDI 50	32	98	52	35.0	80	30	63	270.98	502
VDI 50	40	98	60	35.0	90	30	73	270.98	503
VDI 50	50	98	70	35.0	100	30	83	245.27	504

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

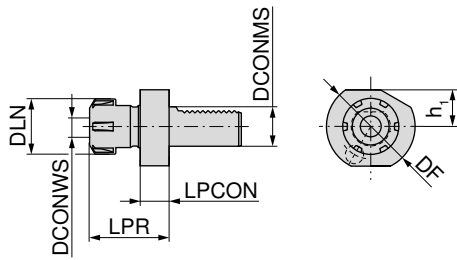
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£ Y8	
VDI 16	6	40	32	18.0	44	13	34	277.41	160 ¹⁾
VDI 16	8	40	32	18.0	44	13	34	211.71	161 ¹⁾
VDI 16	10	40	32	18.0	44	13	34	211.71	162 ¹⁾
VDI 16	12	40	40	18.0	44	13	34	211.71	163 ¹⁾
VDI 16	16	40	40	18.0	44	13	34	211.71	164 ¹⁾
VDI 20	8	50	40	23.0	50	18	41	196.83	200
VDI 20	10	50	40	23.0	50	18	41	196.83	201
VDI 20	12	50	40	23.0	50	18	41	196.83	202
VDI 20	16	50	40	23.0	50	18	41	196.83	203
VDI 20	20	50	50	23.0	50	18	41	196.83	204
VDI 20	25	50	50	23.0	60	18	51	196.83	205
VDI 30	8	68	55	28.0	60	22	51	191.83	300
VDI 30	10	68	55	28.0	60	22	51	191.83	301
VDI 30	12	68	55	28.0	60	22	51	191.83	302
VDI 30	16	68	55	28.0	60	22	51	191.83	303
VDI 30	20	68	55	28.0	60	22	51	191.83	304
VDI 30	25	68	55	28.0	60	22	51	191.83	305
VDI 30	32	68	68	28.0	75	22	61	191.83	306
VDI 40	8	83	55	32.5	75	22	61	195.56	400
VDI 40	10	83	55	32.5	75	22	61	195.56	401
VDI 40	12	83	55	32.5	75	22	61	195.56	402
VDI 40	16	83	55	32.5	75	22	61	195.56	403
VDI 40	20	83	55	32.5	75	22	61	195.56	404
VDI 40	25	83	55	32.5	75	22	61	195.56	405
VDI 40	32	83	83	32.5	75	22	61	195.56	406
VDI 40	40	83	83	32.5	90	22	76	195.56	407
VDI 50	12	98	68	35.0	90	30	76	281.69	500
VDI 50	16	98	68	35.0	90	30	76	281.69	501
VDI 50	20	98	68	35.0	90	30	76	281.69	502
VDI 50	25	98	68	35.0	90	30	76	270.08	503
VDI 50	32	98	68	35.0	90	30	76	270.08	504
VDI 50	40	98	98	35.0	90	30	76	270.08	505
VDI 50	50	98	98	35.0	100	30	86	270.08	506

1) Coolant supply through pipe joint

You can find spare parts on →Page 266

ER Collet chucks

E4



Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	£	
VDI 16	1 - 10	40	28	18.0	43.5	14	426E (ER16)	323.39	160
VDI 16	1 - 13	40	34	18.0	44.0	14	428E (ER20)	320.01	161
VDI 20	1 - 16	50	42	23.0	57.0	18	430E (ER25)	263.43	202
VDI 20	2 - 20	50	50	23.0	62.0	18	470E (ER32)	275.42	203
VDI 30	1 - 16	68	42	28.0	57.0	22	430E (ER25)	260.03	300
VDI 30	2 - 20	68	50	28.0	75.0	22	470E (ER32)	260.27	301
VDI 40	1 - 16	83	42	32.5	75.0	22	430E (ER25)	281.94	400
VDI 40	2 - 20	83	50	32.5	75.0	22	470E (ER32)	281.94	401
VDI 40	3 - 26	83	63	32.5	75.0	22	472E (ER40)	276.89	402
VDI 50	2 - 20	94	50	35.0	75.0	30	470E (ER32)	410.64	500
VDI 50	3 - 26	94	63	35.0	63.0	30	472E (ER40)	410.64	501

82 286 ...

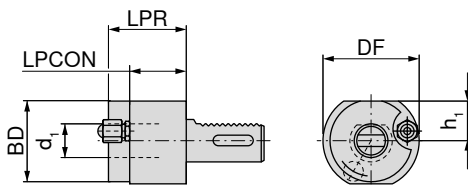
£
Y8

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

Morse taper adapters

▲ For taper shanks with ejector tang

F1



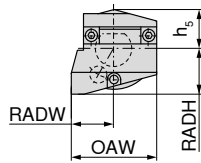
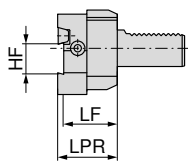
Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	£	
VDI 20	MK1		50	23.0	23		195.22	200
VDI 20	MK2		50	23.0	87		195.22	201
VDI 30	MK1		68	28.0	27		191.64	300
VDI 30	MK2		68	28.0	27		192.97	301
VDI 30	MK3	58	68	28.0	55	40	192.97	302
VDI 40	MK2	55	83	32.5	36	22	196.47	401
VDI 40	MK3	58	83	32.5	36	22	196.47	402
VDI 40	MK4	68	83	32.5	80	22	196.47	403
VDI 50	MK2	55	98	35.0	36	30	297.93	500
VDI 50	MK3	58	98	35.0	36	30	297.93	501
VDI 50	MK4	68	98	35.0	50	30	297.93	502

82 277 ...

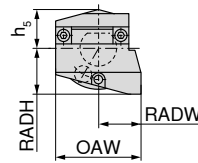
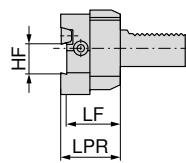
£
Y8

Parting blade holders, height adjustable

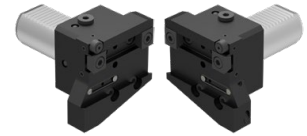
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



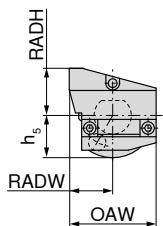
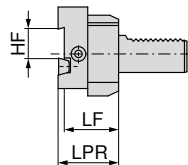
right



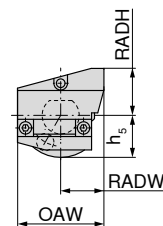
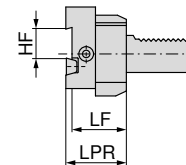
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 237 ...	82 236 ...		
VDI 30	70	35.0	26	28.0	38	44	49	£ Y8		£ Y8	
VDI 30	70	35.0	32	30.5	38	44	49	689.16	300	689.16	300
								873.85	302	873.85	302
VDI 40	73	42.5	26	32.0	48	44	49	905.31	040	905.31	040
VDI 40	85	42.5	32	32.0	48	44	49	814.42	400	710.11	400

Parting blade holders, height adjustable, overhead

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



left



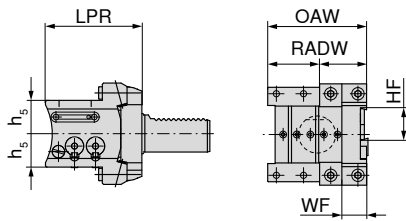
right



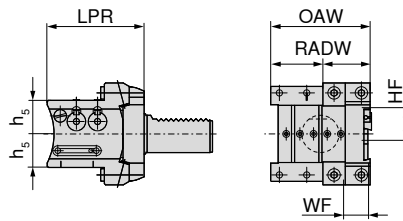
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 243 ...	82 242 ...		
VDI 30	70	35.0	26	34.0	38	44	49	£ Y8		£ Y8	
VDI 30	70	35.0	32	30.5	38	44	49	1,035.94	300	1,035.94	300
								873.85	302	979.82	302
VDI 40	73	42.5	26	32.0	48	44	49	905.31	040	905.31	040
VDI 40	85	42.5	32	32.0	48	44	49	709.11	400	709.11	400

Parting blade holders, height adjustable

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



Universal-overhead



Universal



Universal-overhead

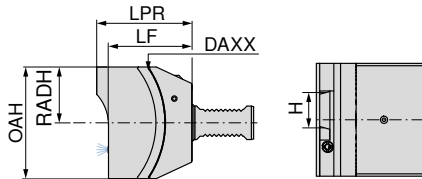
Universal

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

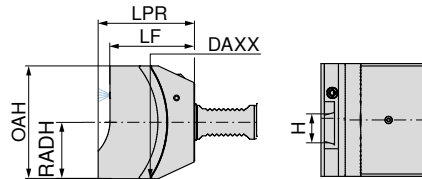
82 244 ...		82 238 ...	
£		£	
Y8		Y8	
1,391.86	300	1,391.86	300
1,544.37	400	1,544.37	400
1,544.37	402	1,544.37	402

Parting blade holder

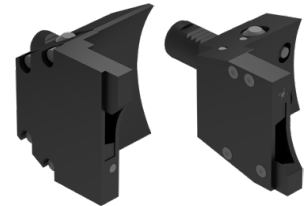
- ▲ doubles = reciprocally interlocked VDI shank



double – overhead



double




double – overhead

double

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

83 227 ...		83 226 ...	
£		£	
Y7		Y7	
1,500.38	02629 ¹⁾	1,500.38	02629 ¹⁾
1,500.38	03227 ¹⁾	1,500.38	03227 ¹⁾
1,500.38	02627 ¹⁾	1,500.38	02627 ¹⁾
1,617.95	03226 ¹⁾	1,617.95	03226 ¹⁾
1,617.95	02626 ¹⁾	1,617.95	02626 ¹⁾

1) Not ex-stock

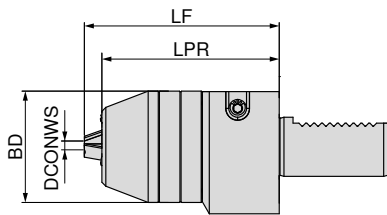
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Short drill chuck – NC 2010

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

Scope of supply:

Basic body including chuck key SW 4

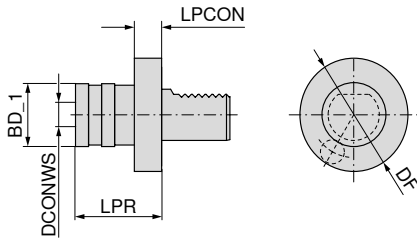


Adapter	DCONWS mm	BD mm	LPR mm	LF mm	84 297 ... £ Y8
VDI 20	0,5 - 10	48.5	40	50	679.56 210 ¹⁾
VDI 30	0,5 - 13	56.5	90	99	684.75 313
VDI 30	2,5 - 16	56.5	90	99	726.62 316
VDI 40	0,5 - 13	56.5	90	99	684.75 413
VDI 40	2,5 - 16	56.5	90	99	726.62 416

1) Without Through Coolant

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	83 307 ...	
VDI 20	M3 - M12	01	19	38	55	9	£	
							Y8	
VDI 30	M3 - M12	01	19	38	55	9	755.04	112
VDI 40	M3 - M12	01	19	38	55	9	578.85	312
							648.60	412
VDI 20	M6 - M20	02	31	55	77	15	824.75	120
VDI 30	M6 - M20	02	31	55	77	15	764.99	320
VDI 40	M6 - M20	02	31	55	77	15	798.34	420

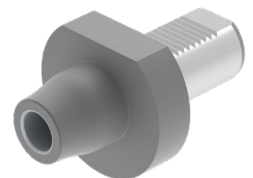
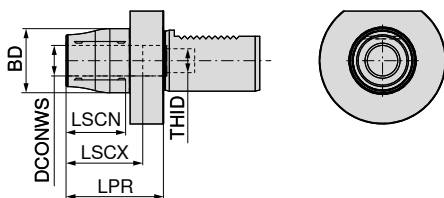
Quick change adapters can be found on → Page 288–292.

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

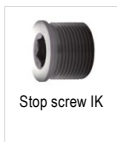
Scope of supply:

Base body with backstop screw and pressure screw



AD

Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID	83 402 ...	
VDI 30	20	42	64	51	41	M16x1	£	
							Y8	
VDI 40	20	42	64	51	41	M16x1	946.07	02027
							988.13	02026



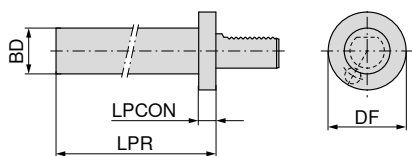
Spare parts
DCONWS

20

83 950 ...	
£	
Y7	
M16x1x31 - SW5	31.25 48700

Test arbors

▲ Radial run-out ≤ 0.02 mm



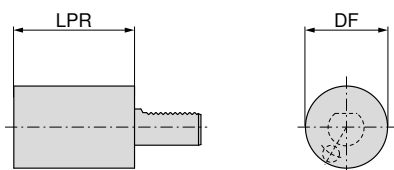
Adapter	BD _{H5} mm	DF mm	LPR mm	LPCON mm
VDI 16	30	40	120	15
VDI 20	40	50	150	15
VDI 30	40	68	200	15
VDI 40	40	83	200	15
VDI 50	40	98	200	15

83 324 ...

£	
Y8	
433.37	016
471.37	020
509.12	030
537.24	040
586.90	050

Tool holders, rough machined, round

▲ Manufactured from C45



A2



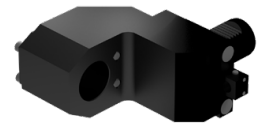
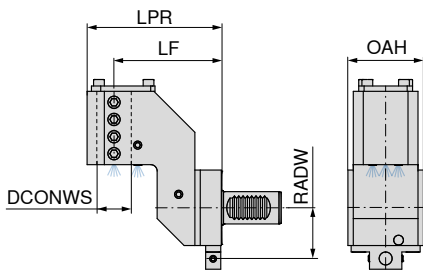
Adapter	LPR mm	DF mm
VDI 16	60	40
VDI 20	70	50
VDI 30	100	68
VDI 30	240	68
VDI 40	120	83
VDI 40	320	83
VDI 50	135	98
VDI 50	400	98

82 330 ...

£	
Y8	
147.02	160
128.26	200
150.27	300
182.50	303
176.10	400
265.88	403
247.27	500
399.20	502

Boring bar holder, with offset, with through coolant

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



IC

double

83 229 ...

£

Y7


1,345.96 02528¹⁾

1,573.86 03227¹⁾

1,845.80 04026¹⁾

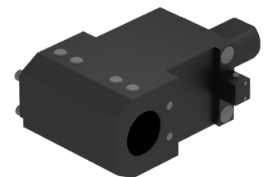
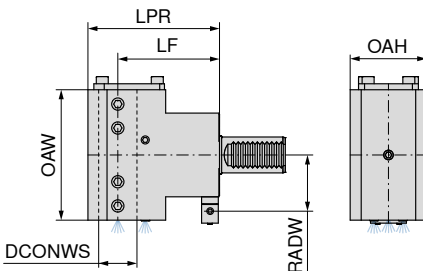
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	99.5	75	30	40
VDI 30	32	125.0	100	70	47
VDI 40	40	133.0	100	85	56

1) Not ex-stock

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

Double boring bar holder with through coolant

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



IC

83 230 ...

£

Y7

1,515.37 02528¹⁾


1,610.61 03227¹⁾

1,610.61 13227¹⁾

1,746.57 04026¹⁾

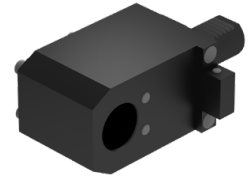
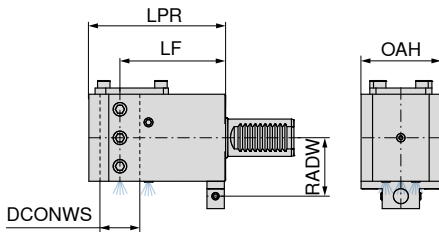
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	OAW mm
VDI 25	25	99.5	75	54	40	104
VDI 30	32	110.0	85	62	47	109
VDI 30	32	125.0	100	62	47	118
VDI 40	40	152.0	120	76	56	116

1) Not ex-stock

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

Boring bar holder with through coolant

▲ external coolant supply available



IC

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

83 228 ...

£

Y7

894.35 02528¹⁾

1,047.99 03227¹⁾


1,088.49 13227¹⁾

1,316.39 04026¹⁾

1,360.63 14026¹⁾

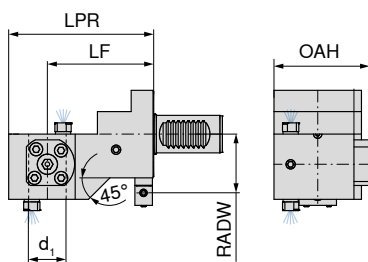
1,570.07 05025¹⁾

1) Not ex-stock

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

90° VDI to VDI adapter, double sided

▲ for rotating toolholder



IC

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

83 225 ...

£

Y7

1,128.97 02528¹⁾

1,128.97 02028¹⁾

1,298.12 03027¹⁾

1,338.42 13027¹⁾

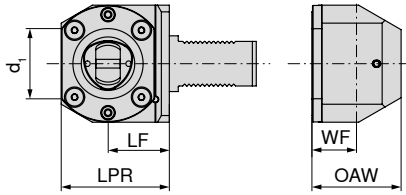
1,570.07 04026¹⁾

1,570.07 14026¹⁾

1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:
including pull stud

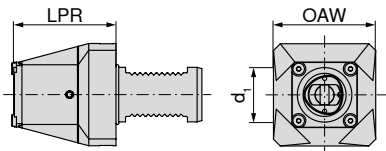


						90°
						83 231 ...
						£
						Y7
VDI 30	PSC 40	41	65	21	56	1,637.67 04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	1,711.15 04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	1,711.15 05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	1,803.34 06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	1,711.15 05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	1,803.34 06325 ¹⁾

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud



				83 232 ...
				£
				Y7
VDI 30	PSC 40	70	60	1,637.67 04027 ¹⁾
VDI 40	PSC 40	75	75	1,637.67 04026 ¹⁾
VDI 40	PSC 50	85	82	1,711.15 05026 ¹⁾
VDI 40	PSC 63	90	105	1,803.34 06326 ¹⁾
VDI 50	PSC 50	85	91	1,711.15 05025 ¹⁾
VDI 50	PSC 63	100	105	1,803.34 06325 ¹⁾

1) Not ex-stock

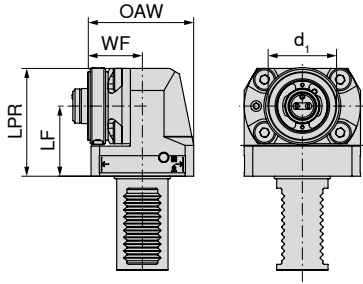
Accessories



Pull stud PSC

→ 176

90° VDI to HSK-T adapter



90°

83 233 ...

£

Y7

1,637.67 04027¹⁾

1,637.67 04026¹⁾

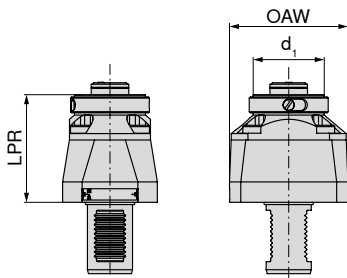
1,803.34 06326¹⁾

1,803.34 06325¹⁾

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

1) Not ex-stock

VDI to HSK-T adapter



83 234 ...

£

Y7

1,774.27 04027¹⁾

1,774.27 04026¹⁾

1,953.63 06326¹⁾

1,953.63 06325¹⁾

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

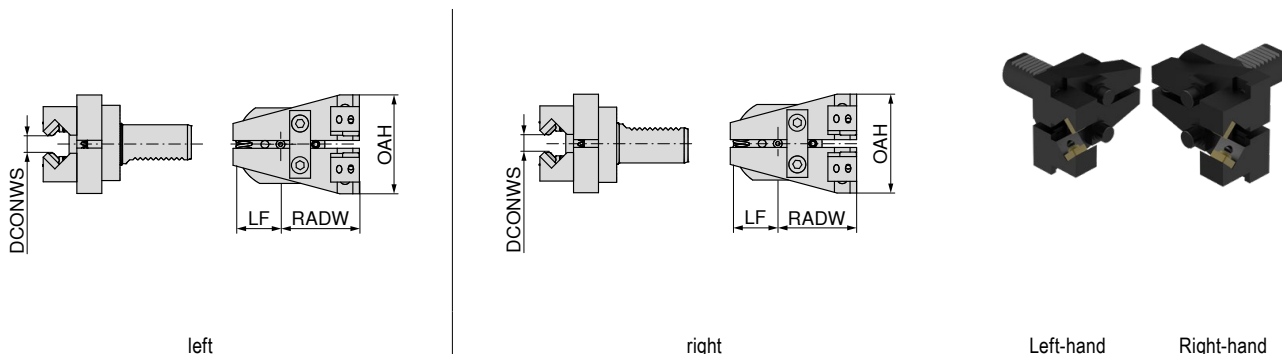
1) Not ex-stock

Bar pullers for disc turrets, radial

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

Scope of supply:

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



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

Left-hand		Right-hand	
80 309 ...		80 306 ...	
£		£	
Y7		Y7	
		2,100.50	01600
		2,482.53	02000
2,482.53	03000	2,482.53	03000
3,473.84	04000	3,473.84	04000

Bar pullers for star turrets

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

Scope of supply:

Bar puller with GA 3

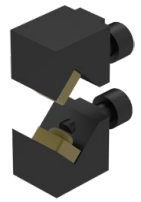
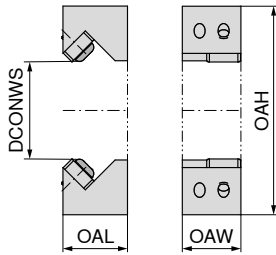


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2 - 42	122.5	129	37.0	3 - 4
VDI 40	2 - 65	142.5	149	41.5	3 - 4

Left-hand	
80 310 ...	
£	
Y7	
2,727.14	03000
3,564.22	04000

Gripper accessories

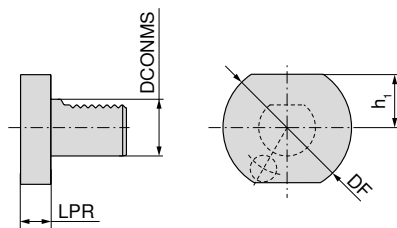
- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
- ▲ Price per pair



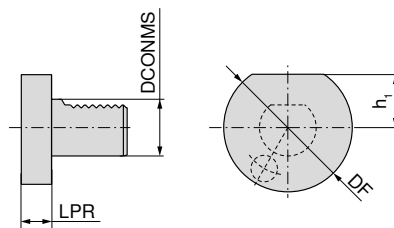
80 312 ...

GA	DCONWS mm	OAL mm	OAW mm	OAH mm	£	
1	2 - 22	24.5	13	58	Y7	
3	2 - 42	26.0	22	86	454.37	12200
4	42 - 65	29.5	22	102	454.37	14200
					607.97	16500

Protection plugs



Steel



Plastic



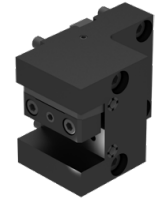
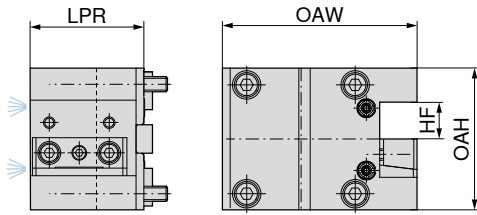
Steel

Plastic

DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm	82 317 ...		83 318 ...	
				£		£	
16	40	18.0	16	Y8		Y8	
20	50	23.0	16	44.51	160	37.21	160
30	68	28.0	16	88.39	200	15.08	200
40	83	32.5	20	47.22	300	15.04	300
50	98	35.0	20	55.54	400	17.34	400
				108.77	500	24.65	500

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

▲ directly screwed version

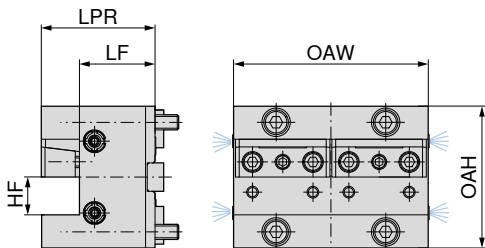


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	99.5

Left-hand		Left-hand	
82 480 ...	82 480 ...	82 480 ...	82 480 ...
£ Y7	£ Y7	£ Y7	£ Y7
1,017.48 00001	880.69 00006		

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

▲ directly screwed version

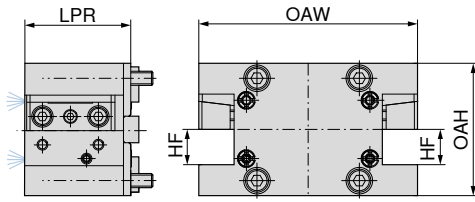


Adapter	Hole pattern	HF mm	LF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	40	60	75	103
BMT 45	58 x 58	20	40	60	75	80

Left-hand		Left-hand	
82 480 ...	82 480 ...	82 480 ...	82 480 ...
£ Y7	£ Y7	£ Y7	£ Y7
1,069.23 01002	926.60 01007		

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

▲ directly screwed version

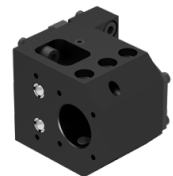
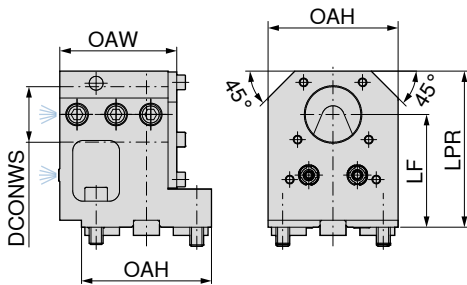


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	124

82 480 ...	82 480 ...
£ Y7	£ Y7
1,414.31 02003	1,231.08 02008

Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version



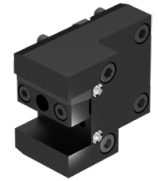
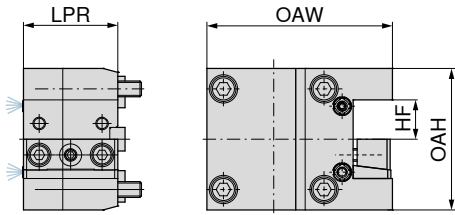
IC

Adapter	Hole pattern	DCONWS mm	LF mm	OAW mm	OAH mm	LPR mm
BMT 45	58 x 58	32	65	67.5	75	90
BMT 45	58 x 58	32	85	67.5	75	110

82 480 ...
£ Y7
1,087.00 03004
1,839.72 03005

Doosan – BMT 55 – Axial square section tool holder

▲ directly screwed version

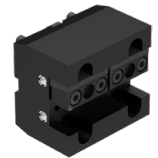
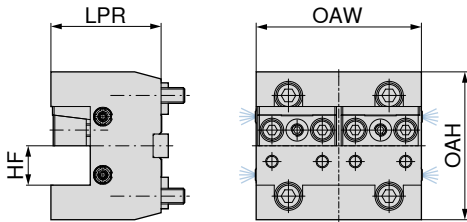


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	60	90	118

Left-hand		Left-hand	
82 481 ...		82 481 ...	
£		£	
Y7		Y7	
1,103.83	00001	1,105.06	00005

Doosan – BMT 55 – Radial square section tool holder

▲ directly screwed version

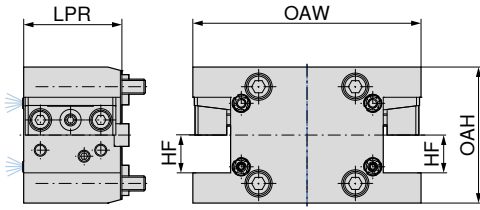


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105
BMT 55	64 x 64	25	95	94	105

Left-hand		Left-hand	
82 481 ...		82 481 ...	
£		£	
Y7		Y7	
1,103.83	01002	1,579.06	01006

Doosan – BMT 55 – Multi square section tool holder

▲ directly screwed version

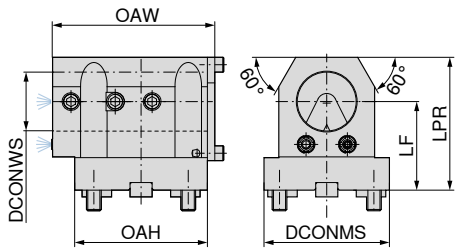


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	65	90	151
BMT 55	64 x 64	25	60	90	151

82 481 ...	82 481 ...
£ Y7	£ Y7
1,610.18 02003	1,553.68 02007

Doosan – BMT 55 – Boring bar holder

▲ directly screwed version



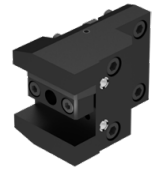
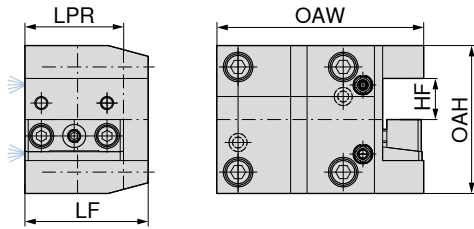
IC

Adapter	Hole pattern	DCONWS mm	LF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT55	64 x 64	40	60	85	90	90	110

82 481 ...
£ Y7
1,087.00 04004

EMAG – BMT 55 – Axial square section tool holder

▲ directly screwed version

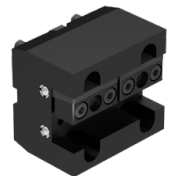
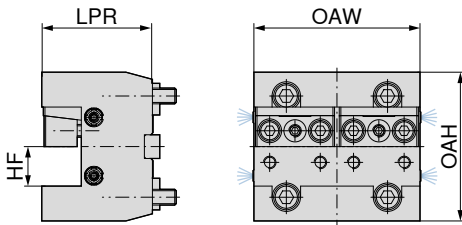


Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm
BMT 55	64 X 64	25	60	75	90	126

Left-hand	Left-hand
82 482 ...	82 482 ...
£ Y7	£ Y7
1,077.49 00001	1,081.85 00004

EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



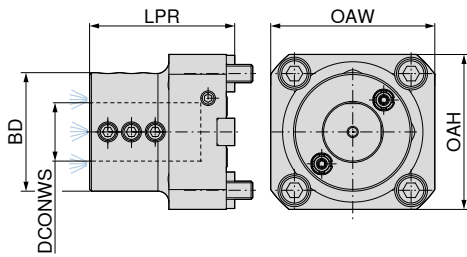
IC

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

Left-hand
82 482 ...
£ Y7
1,103.83 01002

EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

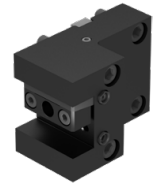
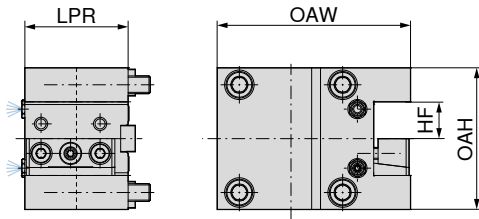
82 482 ...

£
Y7
1,317.16 04003

Adapter	Hole pattern	DCONWS mm	BD mm	LPR mm	OAW mm	OAH mm
BMT55	64 x 64	32	65	75	85	90

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

▲ directly screwed version

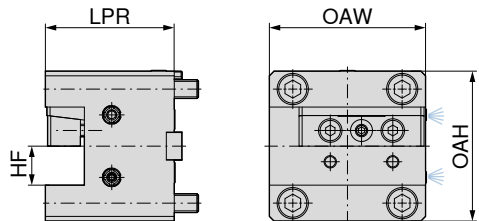


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	70	96	131
BMT 65	70 x 73	25	75	97	131

Left-hand	Left-hand
82 483 ...	82 483 ...
£ Y7	£ Y7
1,736.86 00001	1,320.00 00005

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

▲ directly screwed version

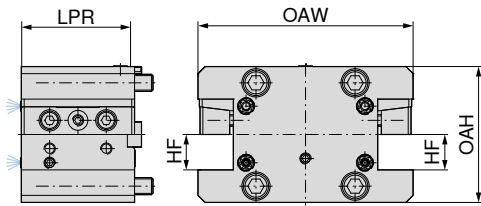


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	82.5	96	100

Right-hand	Right-hand
82 483 ...	82 483 ...
£ Y7	£ Y7
1,311.14 05002	1,288.70 05006

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

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



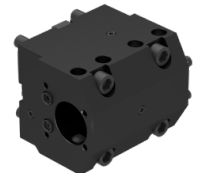
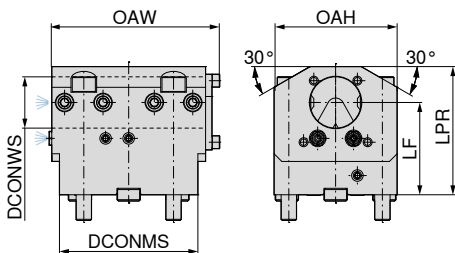
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	80	96	152

82 483 ...
£
Y7
1,690.50 02003

82 483 ...
£
Y7
1,625.08 02007

HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



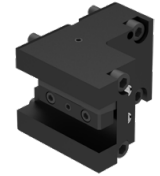
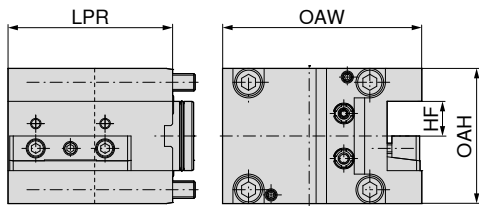
IC

Adapter	Hole pattern	DCONWS mm	LF mm	OAH mm	LPR mm	DCONMS mm	OAW mm
BMT 65	70 x 73	40	78	96	100	108	125

82 483 ...
£
Y7
2,303.54 03004

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

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

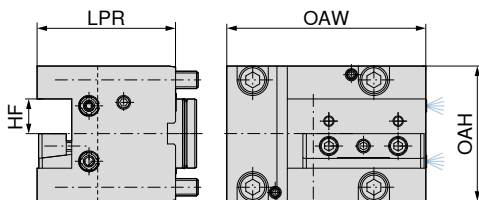


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	115

Left-hand	Left-hand
82 484 ...	82 484 ...
£ Y7	£ Y7
1,017.48 00001	1,028.57 00005

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

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

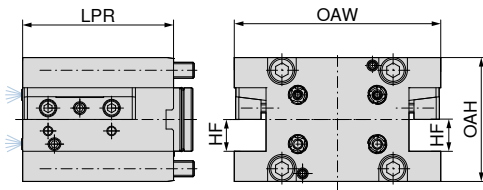


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	80	78	115

Left-hand	Left-hand
82 484 ...	82 484 ...
£ Y7	£ Y7
1,069.23 01002	1,074.49 01006

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

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



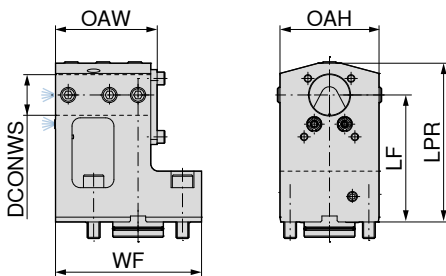
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	130

82 484 ...
£
Y7
1,121.29 02003

82 484 ...
£
Y7
1,120.52 02007

Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version



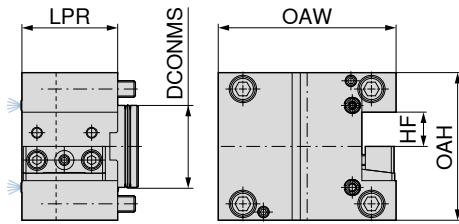
IC

Adapter	Hole pattern	DCONWS mm	OAH mm	OAW mm	LF mm	WF mm	LPR mm
BMT 40	70 x 62	32	78	80	100	115	125

82 484 ...
£
Y7
1,017.48 03004

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

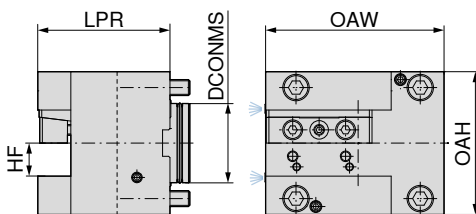
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	70	108	130	£ Y7 1,017.48 00001	£ Y7 1,028.57 00005

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

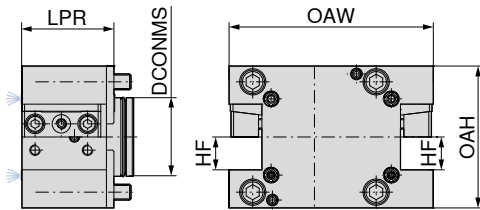
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	100	108	135	£ Y7 1,069.23 01002	£ Y7 1,074.49 01006

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

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



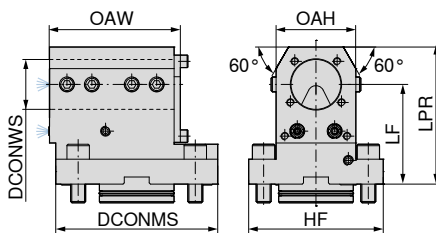
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155.5

82 485 ...
£
Y7
1,224.80 02003

82 485 ...
£
Y7
1,212.47 02007

Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



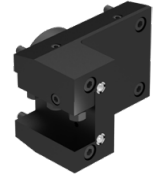
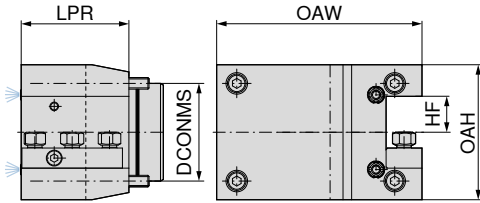
IC

Adapter	Hole pattern	DCONWS mm	OAH mm	LF mm	OAW mm	HF mm	LPR mm	DCONMS mm
BMT 60	94 x 84	40	64	80	105	108	110	130

82 485 ...
£
Y7
1,017.48 03004

Mazak – BMT 68 – Axial square section tool holder

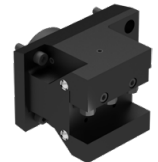
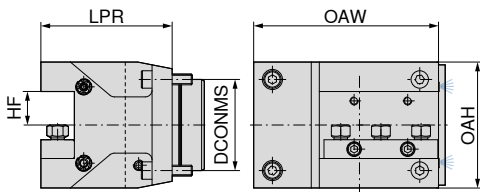
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	75	94	143	£ Y7 974.30 00001	£ Y7 990.40 00005

Mazak – BMT 68 – Radial square section tool holder

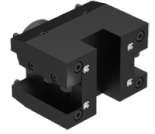
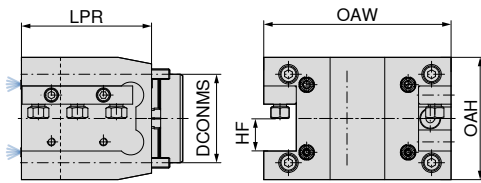
- ▲ directly screwed version
- ▲ For right and left direction of rotation



Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	94	98	143	£ Y7 990.18 01002	£ Y7 1,004.41 01006

EMAG – BMT 68 – Multi square section tool holder

▲ directly screwed version



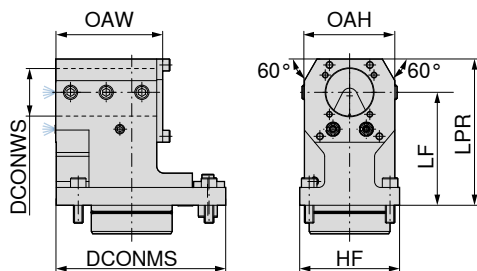
Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm
BMT 68	110 x 68	25	68	94	100	144

82 486 ...
£
Y7
1,559.39 02003

82 486 ...
£
Y7
1,508.73 02007

Mazak – BMT 68 – Combi tool holder

▲ directly screwed version



IC

Adapter	Hole pattern	DCONWS mm	OAH mm	HF mm	OAW mm	LF mm	LPR mm	DCONMS mm
BMT 68	110 x 68	40	76	84	90	95	123	142.5

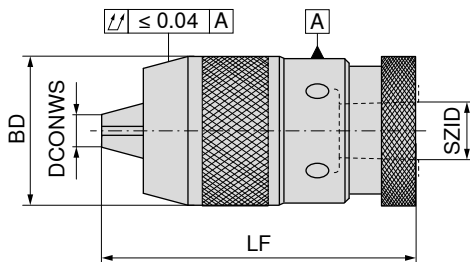
82 486 ...
£
Y7
952.71 03004

Drill chuck

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

Scope of supply:

Holder with clamping key



SZID	DCONWS mm	LF mm	BD mm	83 636 ...	
				£	
				Y8	
B12	0 - 8	73	35	186.31	012
B12	0 - 10	92	43	220.30	112
B16	1 - 13	106	50	264.05	016
B16	3 - 16	110	57	215.58	116
B18	3 - 16	110	57	281.15	018



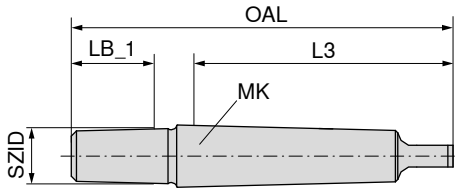
NC clamping key

Spare parts
DCONWS

DCONWS	83 302 ...	
	£	
	Y8	
0 - 10	21.05	010
0 - 8	19.75	008
1 - 13	17.37	013
3 - 16	20.63	016

Drill chuck adapter DIN 238

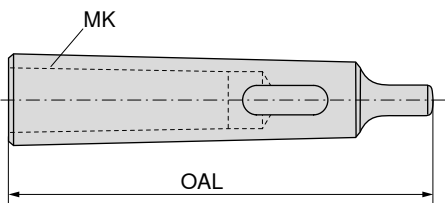
▲ Through-hardened and ground



Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm	83 642 ...	
					£	
					Y8	
MK1	B12	62.0	18.5	89.0	17.22	120
MK1	B16	62.0	24.0	97.0	17.22	160
MK1	B18	62.0	32.0	106.0	17.22	180
MK2	B12	75.0	18.5	106.5	17.22	121
MK2	B16	75.0	24.0	110.5	17.22	161
MK2	B18	75.0	32.0	117.5	17.59	181
MK3	B12	94.0	18.5	125.0	17.22	122
MK3	B16	94.0	24.0	134.0	17.22	162
MK3	B18	94.0	32.0	141.0	23.38	182
MK4	B16	117.5	24.0	159.0	39.55	163
MK4	B18	117.5	32.0	168.0	39.55	183
MK5	B16	149.5	24.0	196.0	149.16	164
MK5	B18	149.5	32.0	204.5	149.16	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



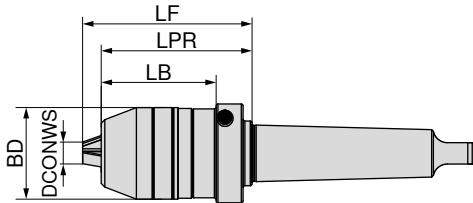
Adapter	d _i	OAL mm	83 644 ...	
			£	
			Y8	
MK1	MK0	80	29.21	010
MK2	MK1	92	31.33	020
MK3	MK1	99	33.61	130
MK3	MK2	112	35.89	030
MK4	MK1	124	44.59	240
MK4	MK2	124	44.59	140
MK4	MK3	140	65.07	040
MK5	MK2	156	85.03	250
MK5	MK3	156	89.57	150
MK5	MK4	171	93.70	050

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
MK3	0,5 - 13	48,5	64	84	93,0
MK3	2,5 - 16	51,0	64	84	94,5
MK4	2,5 - 16	51,0	64	84	94,5

84 314 ...

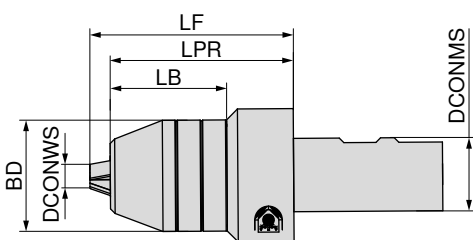
£	
Y8	
557.28	313
574.98	316
615.92	416

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



G 6,3 n_{max} 10000

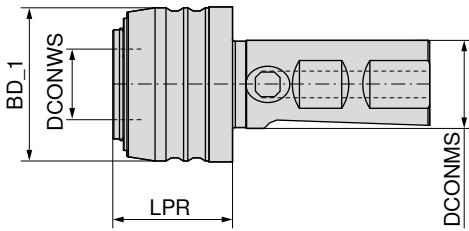
DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
25	0,5 - 13	48,5	50,9	80	89,0
32	0,5 - 13	48,5	50,9	80	89,0
32	2,5 - 16	51,0	50,9	80	90,5

84 311 ...

£	
Y8	
615.73	213
615.73	313
777.16	316

Synchro quick change tapping chuck with minimum length compensation

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



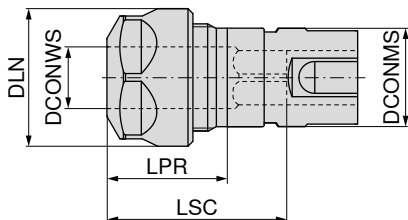
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	83 641 ...	
20	M3 - M12	1	35	43.5	25	1,0 / 0,2	£ Y8	
32	M6 - M20	2	56	60.0	25	1,0 / 0,2	286.12	012
							326.12	020

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

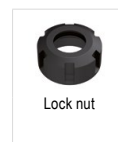
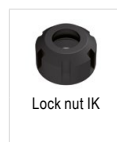
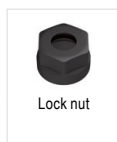
Scope of supply:

Includes lock nut



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

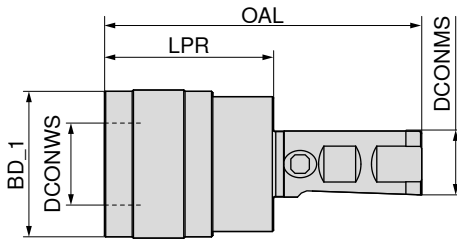
1) with 6 position lock nut



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

Quick change tap chuck with length compensation

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



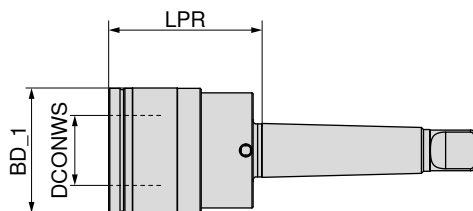
DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm
20	M3 - M12	01	41	38	19	91	9
20	M6 - M20	02	63	55	31	138	15
25	M3 - M12	01	41	38	19	97	9
25	M6 - M20	02	63	55	31	119	15
32	M3 - M12	01	41	38	19	102	9
32	M6 - M20	02	63	55	31	124	15

83 648 ...

£	
Y8	
423.74	112
580.69	120
423.74	212
523.33	220
432.57	312
541.42	320

DIN 228B – Quick change tap chuck with length compensation

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



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

83 646 ...

£	
Y8	
369.15	212
363.02	312
453.99	320
453.99	420

Accessories

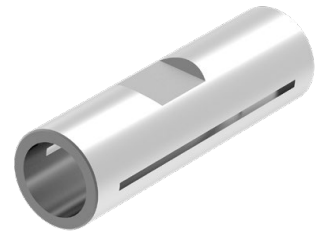
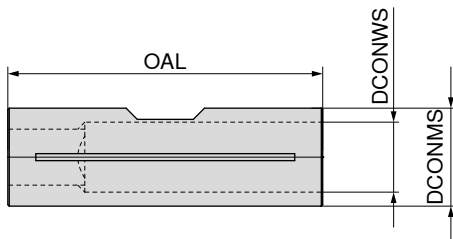


Collet

→ 288, 290-292

Clamping sleeve for taps in Weldon chucks

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

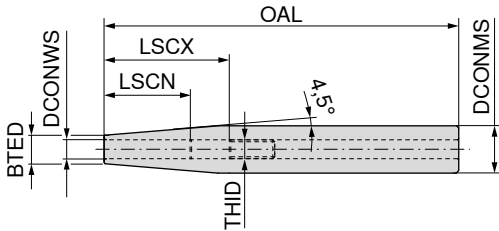


DCONWS _{H7}	DCONMS _{H6}	OAL	80 699 ...	
mm	mm	mm	£	
3.5	6	26	Y7	
4.0	8	32	90.42	03500
4.5	8	26	87.62	04000
6.0	10	30	87.62	04500
7.0	10	31	84.68	06000
8.0	12	38	84.68	07000
9.0	12	38	84.68	08000
10.0	14	42	84.68	09000
11.0	14	42	84.68	10000
12.0	16	44	84.68	11000
14.0	18	45	84.68	12000
16.0	20	46	84.68	14000
			84.68	16000

Shrink fit extension

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

TG



								84 310 ...	
								£	
								Y8	
DCONMS _{h6}	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS		
mm	mm	mm	mm	mm	mm	mm	mm		
12	3	8	150					255.32	003
12	4	8	150					255.32	004
12	5	10	150					255.32	005
12	6	10	150	36	26	M5	2.5	255.32	006
16	3	10	150					255.32	103
16	4	10	150					255.32	104
16	5	10	150					255.32	105
16	6	10	150	36	26	M5	2.5	255.32	106
16	8	12	150	36	26	M6	3.0	255.32	108
20	3	10	150					255.32	203
20	4	10	150					255.32	204
20	5	10	150					255.32	205
20	6	10	150	36	26	M5	2.5	255.32	206
20	8	12	150	36	26	M6	3.0	255.32	208
20	10	14	150	42	32	M8x1	3.0	255.32	210
20	12	16	150	47	37	M10x1	5.0	255.32	212
25	3	10	150					255.32	303
25	4	10	150					255.32	304
25	5	15	150					255.32	305
25	6	20	150	36	26	M5	2.5	255.32	306
25	8	20	150	36	26	M6	3.0	255.32	308
25	10	20	150	42	32	M8x1	3.0	255.32	310
25	12	20	150	47	37	M10x1	5.0	255.32	312
25	14	20	150	47	37	M10x1	5.0	255.32	314
25	16	22	150	50	40	M10x1	5.0	255.32	316
32	6	20	150	36	26	M5	2.5	255.32	406
32	8	20	150	36	26	M6	3.0	255.32	408
32	10	24	150	42	32	M8x1	3.0	255.32	410
32	12	24	150	47	37	M10x1	5.0	255.32	412
32	14	27	150	47	37	M10x1	5.0	255.32	414
32	16	27	150	50	40	M10x1	5.0	255.32	416
32	18	27	150	50	40	M10x1	5.0	255.32	418
32	20	27	150	52	42	M10x1	5.0	255.32	420

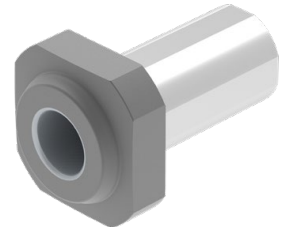
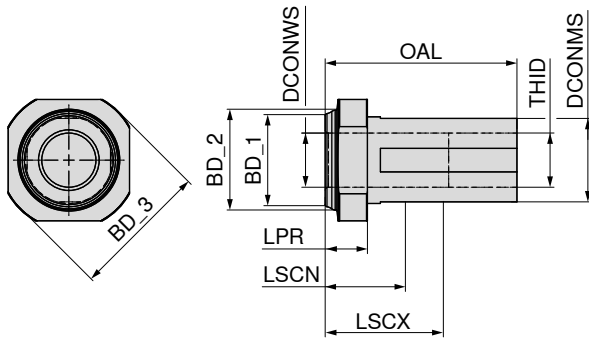
Observe the minimum clamping depth on → Page 312.

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 ...

£	
Y8	
672.01	31699
672.01	32099
693.04	41699
693.04	42099
693.04	42599

Spare parts

DCONWS

16 - 20
25



Stop screw IK

83 950 ...

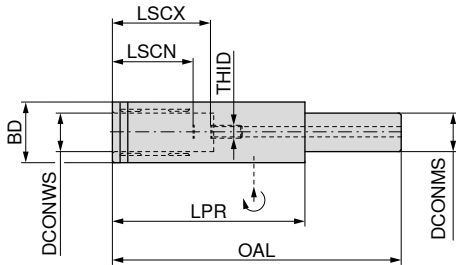
£	
Y7	
49.09	48500
77.46	48600

Hydraulic expansion extension especially for Hydraulic Chucks

▲ For solid carbide and HSS shanks with h6 tolerance or better

Scope of supply:

Base body with backstop screw and pressure screw

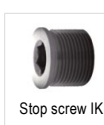


G 2,5 n_{max} 25000

84 313 ...

DCONMS	DCONWS	BD	LPR	OAL	LSCX	LSCN	THID		£	
mm	mm	mm	mm	mm	mm	mm	mm		Y8	
20	12	25.0	100	150	46	36	M6	892.29	112	
20	20	31.5	100	150	51	41	M10x1	892.29	120	
32	20	31.5	90	150	51	41	M10x1	892.29	132	
32	20	31.5	90	200	51	41	M10x1	922.46	232	

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



83 950 ...

Spare parts for Article no.

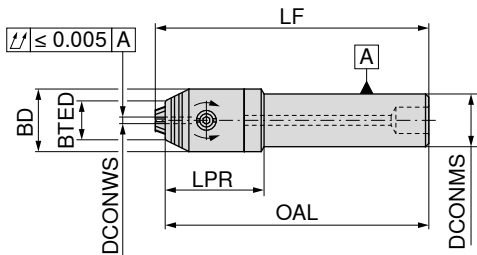
Article no.	Part	£	
		Y7	
84 313 112	M6x12,5 - SW3	23.98	419
84 313 120	M10x1x13,5 - SW5	23.98	421
84 313 132	M10x1x13,5 - SW5	23.98	421
84 313 232	M10x1x13,5 - SW5	23.98	421

Micro-precision collet chuck

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

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000

84 315 ...

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm	£	Article no.
16	0,2 - 3,4	30	80	83	19	12	2	1,098.19	161
16	0,2 - 3,4	30	100	103	19	12	2	1,156.14	162
16	0,2 - 3,4	30	160	163	19	12	2	1,265.98	163
20	0,2 - 3,4	28	80	83	19	12	2	1,098.19	201
20	0,2 - 3,4	28	100	103	19	12	2	1,156.14	202
20	0,2 - 3,4	28	160	163	19	12	2	1,265.98	203

Torx blade

80 950 ...

£
Y7

Torque screwdriver

80 021 ...

£
Y7

Spare parts for Article no.

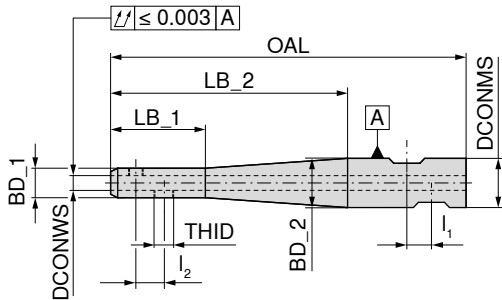
84 315 161	11.39	152	1,8 Nm	147.94	018
84 315 162	11.39	152	1,8 Nm	147.94	018
84 315 163	11.39	152	1,8 Nm	147.94	018
84 315 201	11.39	152	1,8 Nm	147.94	018
84 315 202	11.39	152	1,8 Nm	147.94	018
84 315 203	11.39	152	1,8 Nm	147.94	018

Micro-extension

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

Scope of supply:

Holder with shank clamping screw



80 642 ...

DCONWS	BD_1	LB_1	LB_2	OAL	DCONMS	BD_2	l ₁	l ₂	THID	TQX	£	
mm	mm	mm	mm	mm	mm	mm	mm	mm		Nm	Y7	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	267.08	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	325.82	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	264.41	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	317.81	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	264.41	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	317.81	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	264.41	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	317.81	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	269.75	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	325.82	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	275.07	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	344.54	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	288.42	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	352.52	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	285.79	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	347.20	12000 ¹⁾

1) only pre-balanced design



Clamping screw

80 950 ...

Spare parts

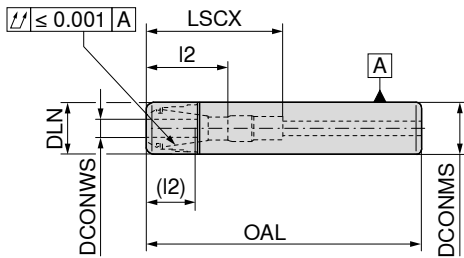
DCONWS	£	
	Y7	
6	18.82	M6X0,5X3 21700
8	18.82	M8x0,75x4 21800
10	18.82	M10x1x5 21900
12 - 14	19.36	M12x1x5 30000
16 - 18	19.88	M14x1x6,5 31000
20	20.46	M16x1x6,5 32000

ER-Mini precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



							84 456 ...	
							£	
							Y8	
DCONMS	DCONWS	DLN	OAL	LSCX	l_2 (l_2)	for collet		
mm	mm	mm	mm	mm	mm			
10	1 - 5	10	80	16		4004E (ER08)	261.50	00400
10	1 - 5	10	150	16		4004E (ER08)	412.84	005
10	1 - 5	10	200	16		4004E (ER08)	396.76	006
12	1 - 5	10	120	16		4004E (ER08)	280.73	11000
12	1 - 5	10	160	16		4004E (ER08)	292.28	11200
12	1 - 5	10	200	16		4004E (ER08)	357.64	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	303.86	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	314.66	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	303.86	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	290.34	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	269.10	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	314.66	104

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

Spare parts for collet	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
	£	£	£	£
4004E (ER08)	Y8	Y8	Y8	Y8
4008E (ER11)		115.19 040		
426E (ER16)	93.35 035	95.86 041	54.64 340	36.39 336
		76.59 034	57.33 341	38.40 337
			M8x1 - SW4	M8x1 - SW4
			M11x1 - SW6	M11x1 - SW6

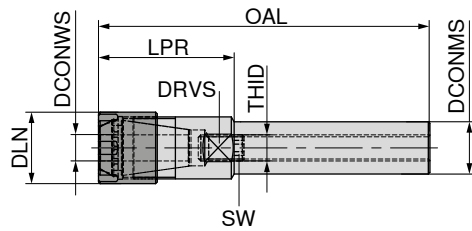
Accessories

ER collet	Device	Roll key	Roll key device
→ 268-275, 279	→ 285	→ 286	→ 286

i The transferable torques can be found on → **Page 313.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



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

83 453 ...

£
Y8

081¹⁾

156.92

331.88

326.06

331.88

326.06

233.86

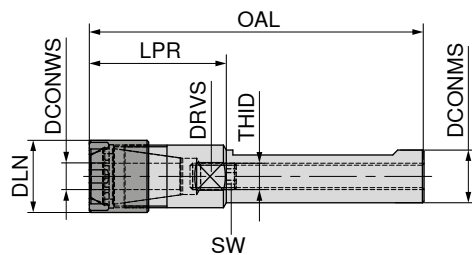
270.56

340.83

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



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

83 454 ...

£
Y8

204

233.86

168.14

196.06

270.56

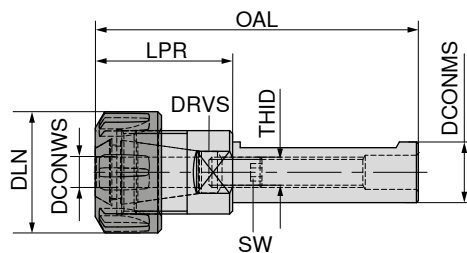
340.83

Spare parts for ER collet chuck with mini lock nut

	ER Mini clamping key		Mini lock nut		Mini IK		Stop screw IK		
	83 950 ...		62 950 ...		83 950 ...		83 950 ...		
Spare parts for collet	£		£		£		£		
4004E (ER08)	42.35	099	M10x0,75	71.00	067				
4004E (ER08)	42.35	099	M10x0,75	71.00	067				
4008E (ER11)	42.35	100	M13x0,75	63.77	065				
426E (ER16)	47.39	101	M19x1	44.48	066	M19x1	107.02	058	
426E (ER16)	47.39	101	M19x1	44.48	066	M19x1	107.02	058	
428E (ER20)	44.47	102	M24x1	70.62	068	M24x1	109.01	059	
430E (ER25)	44.47	103	M30x1	70.62	069	M30x1	114.91	060	
							M5x0,8 SW 2,5	3.18	003
							M7,5x0,5 SW 3	3.71	004
							M11x1 SW 5	4.22	006
							M8x1,25 SW 4	4.06	005
							M14x1 SW 5	4.42	007
							M18x1 SW 5	4.75	008

ER Collet Chuck

▲ with cylindrical shank and clamping flat



DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	83 455 ...	
mm	mm	mm	mm	mm	mm	mm	mm		£	
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	199.22	401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	245.97	402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	228.38	405

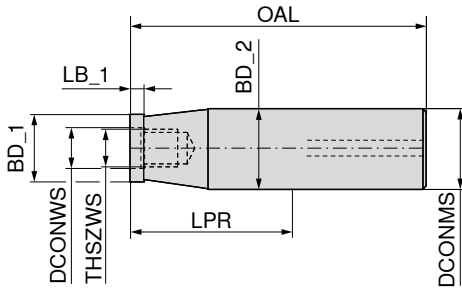
	Y clamping key		Stop screw IK		Stop screw			
	83 357 ...		83 950 ...		83 950 ...			
Spare parts for collet	£		£		£			
470E (ER32)	41.07	132						
472E (ER40)	46.52	140	M28x1,5x25 SW 6	7.57	096	M22x1,5x20 SW 5	6.14	095

	Lock nut IK		Lock nut		
	83 950 ...		62 950 ...		
Spare parts for collet	£		£		
470E (ER32)	103.38	056	M40x1,5	27.37	056
472E (ER40)	124.40	057	M50x1,5	28.36	057

Accessories



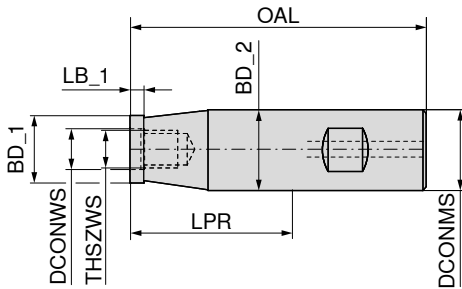
Cylindrical milling bar for cutters with threaded end



56 727 ...

DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	£ WA	
12	M5	5.5	20	9.5	7.8	11.5	65	142.75	052
12	M6	6.5	20	11.5	7.8	11.5	65	132.32	060
12	M6	6.5	40	11.5	7.8	11.5	85	142.74	062
16	M8	8.5	20	13.8	7.8	15.8	68	147.70	081
16	M8	8.5	40	13.8	7.8	15.8	88	158.80	082
20	M10	10.5	25	18.0	7.8	19.8	75	153.87	101
20	M10	10.5	45	18.0	7.8	19.8	95	166.36	102
25	M12	12.5	50	21.0	7.8	24.8	106	173.73	122
32	M16	17.0	50	29.0	12.0	31.8	110	187.41	162

Milling bar for cutters with threaded end (Weldon)

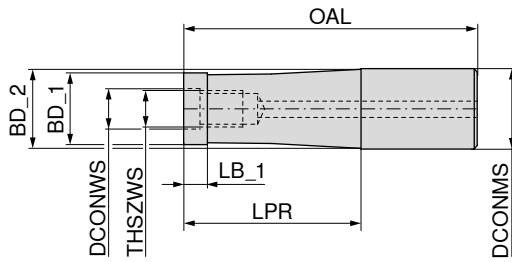


56 729 ...

DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	£ WA	
12	M6	6.5	20	11.5	7.8	11.5	65	132.32	060
12	M6	6.5	40	11.5	7.8	11.5	85	142.74	062
16	M8	8.5	20	13.8	12.0	15.8	68	147.70	081
16	M8	8.5	40	13.8	8.0	15.8	88	158.80	082
20	M10	10.5	25	18.0	8.0	19.8	75	153.87	101
20	M10	10.5	45	18.0	12.0	19.8	95	166.36	102
25	M12	12.5	30	21.0	12.0	24.9	86	160.21	121
25	M12	12.5	50	21.0	8.0	24.9	106	173.73	122
32	M16	17.0	50	29.0	12.0	31.8	110	187.41	162

Screw-in adapter with cylindrical shank

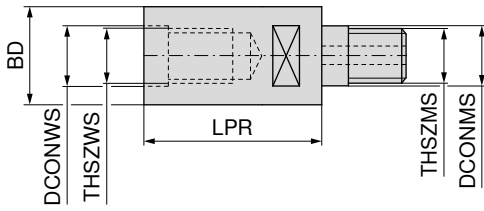
▲ Vibration-damped



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	Solid carbide		Densimet	
								56 743 ...	56 744 ...	56 743 ...	56 744 ...
								£		£	
								WC		WC	
12	M5	5.5	40	9.5	9	11.3	85			528.80	052
12	M5	5.5	60	9.5	9	11.3	105			571.53	053
12	M5	5.5	80	9.5	9	11.3	125			635.64	054
12	M6	6.5	20	11.5		11.5	65	696.41	060		
12	M6	6.5	40	11.5		11.5	85	743.71	062		
12	M6	6.5	60	11.5		11.5	105	824.51	063		
12	M6	6.5	80	11.5		11.5	125	902.49	064		
12	M6	6.5	100	11.5		11.5	145	980.49	065		
16	M8	8.5	40	14.2	9	15.3	88	788.91	082	648.97	082
16	M8	8.5	60	14.2	9	15.3	108	871.91	083	702.41	083
16	M8	8.5	80	14.2	9	15.3	128	939.77	084	769.18	084
16	M8	8.5	100	14.2	9	15.3	148	924.78	085	846.63	085
16	M8	8.5	120	14.2	9	15.3	168	988.81	086	932.09	086
16	M8	8.5	150	14.2	9	15.3	198			1,175.11	087
20	M10	10.5	60	18.5	9	19.3	110	1,002.94	103	819.91	103
20	M10	10.5	80	18.5	9	19.3	130	1,022.27	104	913.42	104
20	M10	10.5	100	18.5	9	19.3	150	1,226.64	105	1,020.23	105
20	M10	10.5	120	18.5	9	19.3	170	1,264.57	106	1,132.39	106
20	M10	10.5	140	18.5	9	19.3	190	1,409.45	107	1,319.36	107
25	M12	12.5	75	23.0	9	24.3	131			1,231.21	124
25	M12	12.5	80	23.0	9	24.3	136	1,091.90	124		
25	M12	12.5	100	23.0	9	24.3	156	1,404.11	125	1,362.08	125
25	M12	12.5	120	23.0	9	24.3	176	1,579.37	126		
25	M12	12.5	125	23.0	9	24.3	181			1,490.27	126
25	M12	12.5	140	23.0	9	24.3	196	1,824.48	127		
25	M12	12.5	150	23.0	9	24.3	206			1,674.57	127
25	M12	12.5	160	23.0	9	24.3	216	2,069.59	128		
25	M12	12.5	175	23.0	9	24.3	231			1,896.24	128
32	M16	17.0	100	29.0	9	31.5	160	2,325.86	165 ¹⁾		
32	M16	17.0	150	29.0	9	31.5	210	2,821.67	166 ¹⁾		
32	M16	17.0	200	29.0	9	31.5	260	3,401.04	167 ¹⁾		
32	M16	17.0	250	29.0	9	31.5	310	4,086.29	168 ¹⁾		
32	M16	17.0	300	29.0	9	31.5	360	4,671.23	169 ¹⁾		

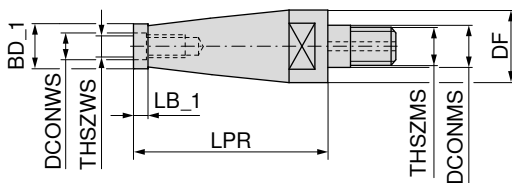
1) On request

Extensions for milling cutters with threaded end



THSZWS	THSZMS	DCONWS	DCONMS	LPR	BD	56 733 ...	
		mm	mm	mm	mm	£	WA
M8	M8	8.5	8.5	40	13.8	160.21	081
M8	M8	8.5	8.5	60	13.8	197.34	082
M10	M10	10.5	10.5	40	18.0	166.36	101
M10	M10	10.5	10.5	60	18.0	203.49	102
M12	M12	12.5	12.5	40	21.0	172.51	121
M12	M12	12.5	12.5	60	21.0	209.64	122
M16	M16	17.0	17.0	40	29.0	178.68	161
M16	M16	17.0	17.0	60	29.0	216.01	162

Reductions for milling cutters with threaded end



THSZWS	THSZMS	DCONMS	DCONWS	LPR	BD_1	DF	LB_1	56 735 ...	
		mm	mm	mm	mm	mm	mm	£	WA
M6	M8	8.5	6.5	20	9.5	13.8	7.8	141.63	060
M8	M10	10.5	8.5	40	13.8	18.0	7.8	166.36	081
M8	M12	12.5	8.5	60	13.8	21.0	7.8	179.86	082
M10	M12	12.5	10.5	40	18.0	21.0	7.8	172.51	101
M10	M16	17.0	10.5	60	18.0	29.0	7.8	209.64	102
M12	M16	17.0	12.5	40	21.0	29.0	7.8	172.51	121

MultiChange – Programme Overview

The "MultiChange" interchangeable head system enables an extremely fast and problem free tool change. Provides quick changeover and concentricity with the highest stability at the same time. For a multitude of applications, the suitable interchangeable heads are available in the following chapters.

Exchangeable heads	
<p>→ Chapter 2, Solid carbide drilling</p> <p>Solid Carbide NC Spot Drills</p> <p>Ø 8, 10, 12, 16, 20 mm NOF 2</p> <p>SIG 90° SIG 120° SIG 142°</p>	<p>Page No. 2 107</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>	

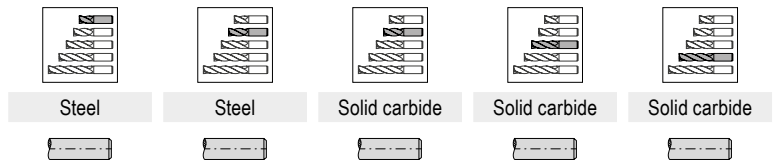
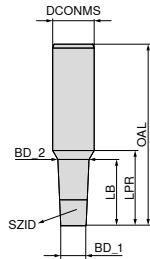
Tool holder	
<p>→ Catalogue – Clamping technology, Chapter 16 Accessories</p> <p>Page No. 16 259 – 16 261</p> <p>extra short / OAL 60 – 90 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>short / OAL 85 – 120 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>medium / OAL 110 – 150 mm</p> <p>Tapered 87° / Solid carbide</p> <p>Cylindrical* / Solid carbide</p> <p>long / OAL 150 – 200 mm</p> <p>Tapered 87° / Solid carbide</p> <p>Cylindrical* / Steel</p> <p>Cylindrical* / Solid carbide</p> <p>extra long / OAL 200 – 250 mm</p> <p>Cylindrical* / Steel</p> <p>Cylindrical* / Solid carbide</p>	
<p>* only conditionally suitable for milling</p>	

MultiChange – Holders

- ▲ Tapered 87°
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	84 001 ...		84 004 ...		84 005 ...		84 007 ...		84 010 ...	
							£		£		£		£		£	
06	7.8	9.4	10	60	18	19	187.68	080								
06	7.8	9.4	10	85	43	44			222.22	080	376.30	080	416.43	080		
06	7.8	9.4	10	110	68	69									479.85	080
06	7.8	9.4	10	150	108	109										
08	9.8	12.0	16	70	25	29	190.74	100								
08	9.8	13.0	16	90	38	41			227.82	100	410.39	100				
08	9.8	14.9	16	110	60	61						460.81	100			
08	9.8	15.4	16	150	100	101								536.34	100	
10	11.8	14.2	16	70	27	29	211.46	120								
10	11.8	15.2	16	90	40	41			232.58	120	410.39	120				
10	11.8	16.6	20	110	56	59						588.55	120			
10	11.8	19.5	20	150	98	99									633.88	120
12	15.8	18.2	20	80	27	29	226.98	160								
12	15.8	19.5	20	105	53	54			280.04	160	576.94	160				
12	15.8	19.5	20	130	78	79						689.13	160			
12	15.8	19.5	20	150	98	99									707.00	160
16	19.8	23.2	25	90	39	41	266.27	200								
16	19.8	24.5	25	120	60	61			327.51	200	707.22	200				
16	19.8	24.5	25	150	90	91						799.57	200			
16	19.8	24.5	25	200	140	141									897.07	200

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

Accessories



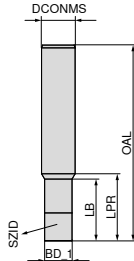
insertion key → 293 Adjustable wrench → 293

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel

Steel

Steel

Steel



SZID	BD_1	DCONMS	OAL	LB	LPR
	mm	mm	mm	mm	mm
06	7.8	10	60	17	19
06	7.8	10	85	42	44
06	7.8	10	150	107	109
08	9.8	12	70	22	24
08	9.8	12	90	42	44
08	9.8	12	150	102	104
10	11.8	16	70	17	21
10	11.8	16	90	37	41
10	11.8	16	150	97	101
12	15.8	16	80	30	31
12	15.8	16	105	55	56
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	90	26	31
16	19.8	25	120	56	61
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 000 ...	84 002 ...	84 008 ...	84 011 ...
£	£	£	£
Y8	Y8	Y8	Y8
170.45	199.99	280.04	
173.26	204.96	286.95	
192.23	209.29	293.01	
206.46	252.00	352.96	
242.08	294.70	412.51	639.51
			710.68

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

Accessories



insertion key

Adjustable wrench

→ 293

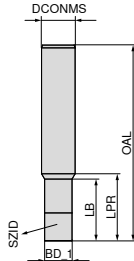
→ 293

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Solid carbide

Solid carbide

Solid carbide

Solid carbide



SZID	BD_1	DCONMS	OAL	LB	LPR
	mm	mm	mm	mm	mm
06	7.8	10	85	42	44
06	7.8	10	110	67	69
06	7.8	10	150	107	109
08	9.8	12	90	42	44
08	9.8	12	110	62	64
08	9.8	12	150	102	104
10	11.8	16	90	37	41
10	11.8	16	110	57	61
10	11.8	16	150	97	101
12	15.8	16	105	55	56
12	15.8	16	130	80	81
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	120	56	61
16	19.8	25	150	86	91
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 003 ...	84 006 ...	84 009 ...	84 012 ...
£	£	£	£
Y8	Y8	Y8	Y8
376.30			
	416.43		
		479.85	
398.68			
	434.11		
		509.16	
410.39			
	460.81		
		536.34	
446.59			
	609.52		
		691.66	
			913.07
707.22			
	799.57		
		897.07	
			1,382.09

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

Accessories



insertion key

Adjustable wrench

→ 293

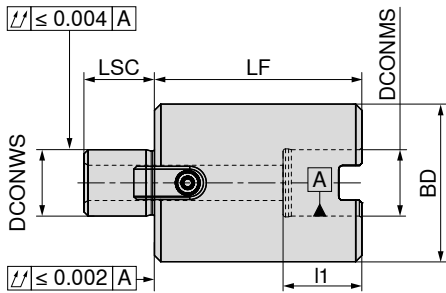
→ 293

Extension for Shell mill arbors

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


Scope of supply:

Holder without clamping screw

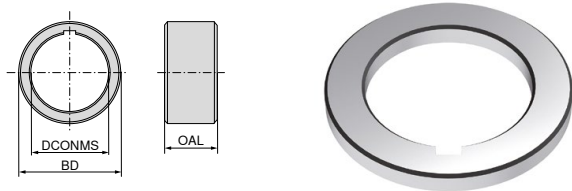


						82 648 ...	
						£	
						Y8/3B	
DCONWS _{H5}	DCONMS _{H5}	LF	BD	LSC	l ₁		
mm	mm	mm	mm	mm	mm		
16	16	50	38	17	19	145.58	050
16	16	75	38	17	19	146.60	075
22	22	50	48	19	21	149.08	150
22	22	75	48	19	21	150.52	175
27	27	50	58	21	23	156.08	250
27	27	75	58	21	23	158.97	275
32	32	50	78	24	26	169.26	350
32	32	75	78	24	26	175.26	375
40	40	50	88	27	29	210.04	450
40	40	75	88	27	29	218.26	475

		83 950 ...		83 950 ...		82 649 ...		82 649 ...				
		£		£		£		£				
		Y8/3B		Y8/3B		Y8/3B		Y8/3B				
Spare parts for Article no.												
82 648 050	M3x8	1.23	296	8x9x17,5	17.35	120	M8x125	8.24	001	M8x80	5.07	050
82 648 075	M3x8	1.23	296	8x9x17,5	17.35	120				M8x100	7.04	075
82 648 150	M4x12	1.61	297	10x11x20,5	17.91	121	M10x125	12.20	100	M10x80	8.05	150
82 648 175	M4x12	1.61	297	10x11x20,5	17.91	121				M10x100	10.63	175
82 648 250	M5x12	1.66	136	12x13x24,3	19.75	122	M12x125	18.67	200	M12x80	11.77	250
82 648 275	M5x12	1.66	136	12x13x24,3	19.75	122				M12x100	15.90	275
82 648 350	M5x20	1.75	137	14x21x21,2	19.96	123	M16x125	27.40	300	M16x80	17.30	350
82 648 375	M5x20	1.75	137	14x21x21,2	19.96	123				M16x100	24.10	375
82 648 450	M6x16	1.99	138	15,9x16,3x19,5	26.57	295						
82 648 475	M6x16	1.99	138	15,9x16,3x19,5	26.57	295						

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

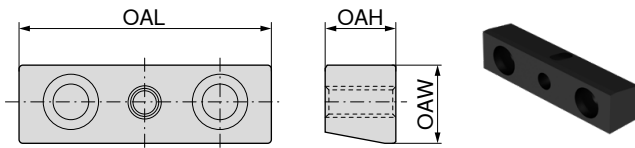
Milling Adapter Rings DIN 2084 Form B



			83 385 ...	
DCONMS mm	BD mm	OAL mm	£ Y8	
13	22	2	14.53	013
	22	3	14.60	113
	22	4	15.21	213
	22	5	15.71	313
	22	6	16.50	413
	22	10	18.38	513
16	26	2	12.87	016
	26	3	12.87	116
	26	4	13.06	216
	26	5	13.55	316
	26	6	14.00	416
	26	10	19.87	516
	26	20	25.30	616
	26	30	31.50	716
22	34	2	13.25	022
	34	3	13.55	122
	34	4	13.73	222
	34	5	15.03	322
	34	6	16.95	422
	34	10	23.31	522
	34	20	29.22	622
	34	30	38.75	722
27	41	2	14.60	027
	41	3	14.98	127
	41	4	16.50	227
	41	5	17.12	327
	41	6	19.20	427
	41	10	23.83	527
	41	20	32.09	627
	41	30	42.92	727
32	47	2	16.29	032
	47	3	17.32	132
	47	4	18.82	232
	47	5	20.38	332
	47	6	21.58	432
	47	10	26.30	532
	47	20	39.73	632
	47	30	48.27	732
40	55	2	18.95	040
	55	3	21.05	140
	55	4	23.21	240
	55	5	25.30	340
	55	6	27.26	440
	55	10	36.54	540
	55	20	50.28	640
	55	30	62.08	740

Spare parts for VDI holders with DirectCooling

Clamping rail



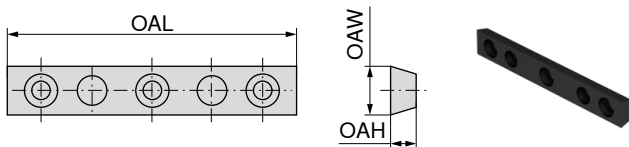
OAL mm	OAW mm	OAH mm	82 250 ... £ Y8	
53.0	12.7	11.5	22.26	05300
54.0	16.0	15.0	22.26	05400
67.5	16.0	15.0	27.94	06750
68.0	21.0	19.0	27.94	06800
83.0	20.5	19.0	33.51	08300
90.0	20.5	19.0	39.79	09000

Screw for ball-shaped spray nozzle



THOD	82 950 ... £ Y8	
M3x10	4.36	31000
M4x10	4.36	31300
M5x12	5.57	31100
M6x12	6.77	31200

Clamping wedge



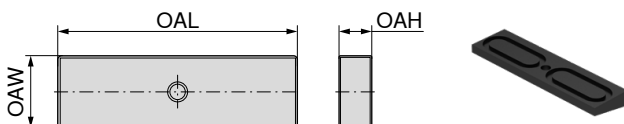
OAL mm	OAW mm	OAH mm	82 250 ... £ Y8	
70	14	7.3	27.94	07000
85	14	7.3	33.51	08500
100	14	7.3	39.79	10000

Ball-shaped spray nozzle



THID	BD mm	82 950 ... £ Y8	
M5	8	11.12	30600
M6	10	13.91	30900
M6	12	16.69	30700
M6	14	19.96	30800

Levelling plates



OAL mm	OAW mm	OAH mm	82 250 ... £ Y8	
53.0	14	6.1	44.63	15300
67.5	18	6.3	55.76	16750
83.0	22	7.5	67.72	18300
90.0	22	7.5	78.12	19000

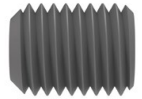
Spare parts for VDI holders with DirectCooling

O ring for clamping wedge



Size	82 950 ...	
	£	Y8
Ø13 x Ø2	8.36	32600
Ø18 x Ø2	11.12	32700
Ø22 x Ø2	11.12	32800

Screw plug for ball-shaped spray nozzle



THOD	OAL mm	82 950 ...	
		£	Y8
M5	6	4.84	32900
M6	6	4.84	33000

O ring for ball-shaped spray nozzle



Size	82 950 ...	
	£	Y8
Ø10 x Ø2	4.36	31600
Ø5 x Ø1,5	4.36	31400
Ø7 x Ø1,5	4.36	31700
Ø7 x Ø2,5	4.36	31500

Screw for clamping wedge



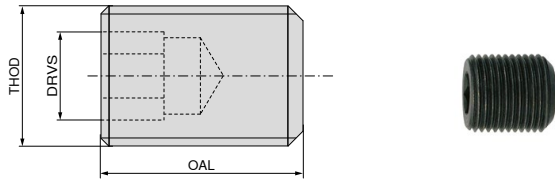
THOD	82 950 ...	
	£	Y8
M5x12	5.57	31800
M6x16	8.36	32200
M6x20	8.36	31900
M8x20	11.12	32300
M8x25	13.91	32100

Quad ring



Size	82 950 ...	
	£	Y8
Ø21,95 x Ø1,78	16.69	32400
Ø28,3 x Ø1,78	19.96	32500

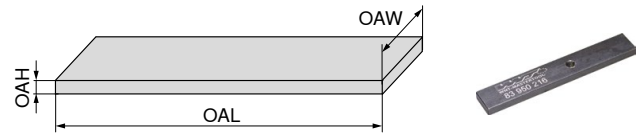
Screw for cylindrical adapters E2



			83 950 ...	
THOD	OAL	DRVS	£	
	mm	mm	Y8	
M6	12	3	4.28	461
M6	16	3	4.16	462
M6	25	3	4.28	463
M8	10	4	4.28	464
M8	12	4	4.28	465
M8	16	4	4.28	466
M8	20	4	4.16	467
M8	25	4	4.16	468
M8	30	4	4.28	469
M10	16	5	4.28	470
M10	20	5	4.16	471
M10	25	5	5.09	472
M10	30	5	4.70	473
M12	12	6	5.09	474
M12	16	6	5.09	475
M12	20	6	5.09	476
M12	25	6	5.09	477

Levelling plates

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



			83 950 ...	
OAH	OAL	OAW	£	
mm	mm	mm	Y8	
4	38	14	24.43	210
4	48	14	20.89	211
4	54	14	20.89	212
4	55	12	24.43	213
4	69	16	20.89	214
4	72	14	20.89	215
4	75	12	24.43	216
4	99	16	20.89	217
5	84	20	23.98	218
5	117	20	20.89	219
7	99	25	20.89	220
7	120	25	28.46	221
7	129	25	24.43	222
7	143	25	24.43	223

Clamping screw for cylindrical adapters E1



			83 950 ...	
THOD			£	
			Y8	
M10x1x10			8.63	180
M12x1x12			8.63	181
M16x1x13			7.70	182

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



for collet	THOD	DRVS mm	83 950 ...	
			£	
			Y8	
ER 16	M24x1	19	105.16	45600
ER 20	M28x1,5	22	110.32	45700
ER 25	M32x1,5	24	108.00	45800
ER 32	M40x1,5	32	117.45	45900

Ball-shaped spray nozzle



		83 950 ...	
		£	
		Y8	
Ø 8 - M 5		6.60	200
Ø 10 - M 6		8.32	201
Ø 14 - M 8		8.21	202

Pipe joints

▲ steel pipe



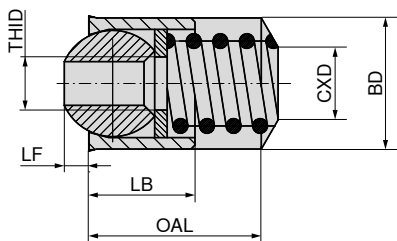
THOD	CXD mm	Type	83 950 ...	
			£	
			Y7	
M8x1	5	A	17.91	372
M10x1	6	A	38.92	373
M10x1	8	A	22.82	374
M8x1	5	B	17.91	375
M10x1	6	B	38.92	376
M10x1	8	B	38.92	377

O-Ring



Adapter	Size	83 950 ...	
		£	
		Y8	
VDI 16	15 x 1,5	1.99	205
VDI 20	18,77 x 1,78	1.99	206
VDI 30	28,3 x 1,78	2.32	207
VDI 40	37,77 x 2,62	2.67	208
VDI 50	47,29 x 2,62	2.67	209

Spray nozzle element

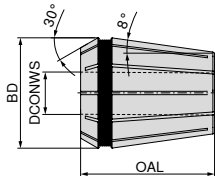


BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ...	
						£	
						Y8	
9.88	M4	13	8	2.2	5.5	17.36	247
11.88	M6	15	10	3.0	6.8	17.36	248
13.88	M6	17	12	4.0	6.8	17.36	249

ER precision collet for precision collet chucks – Centro-P

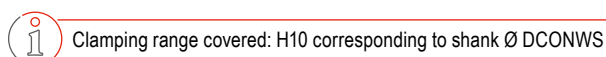
- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coloured ring as identification of precision collet
- ▲ ER08: 5 µm runout and repeatability
- ▲ Coated precision collet

ER-B
2 µm



DCONWS mm	BD = 8.5 OAL = 13.6 4004 E / ER08		BD = 11.5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	£		£		£		£		£		£	
		84 577 ...		84 585 ...		84 596 ...		84 597 ...		84 598 ...		84 599 ...
		Y8		Y8		Y8		Y8		Y8		Y8
1.0	119.93	010	115.95	010	113.96	010						
1.1					203.83	011						
1.2					203.83	012						
1.4					203.83	014						
1.5	119.93	015	115.95	015	113.96	015						
1.6					203.83	016						
1.8					203.83	018						
2.0	106.51	020	101.92	020	97.34	020	100.77	020	103.06	020		
2.2					180.93	022						
2.4					180.93	024						
2.5	106.51	025	101.92	025	97.34	025	100.77	025				
2.6					180.93	026						
2.8					180.93	028						
3.0	90.46	030	85.90	030	82.45	030	84.75	030	85.90	030	125.94	030
3.2					160.33	032						
3.4					141.95	034						
3.5	90.46	035	85.90	035	104.97	035	109.96	035				
3.6					160.33	036						
3.8					160.33	038						
4.0	90.46	040	85.90	040	82.45	040	84.75	040	85.90	040	109.94	040
4.5	90.46	045	85.90	045	104.97	045	109.96	045				
5.0	90.46	050	85.90	050	82.45	050	84.75	050	85.90	050	109.94	050
5.5			85.90	055	104.97	055	109.96	055				
5.6					160.33	056						
6.0			85.90	060	82.45	060	84.75	060	85.90	060	109.94	060
6.3					160.33	063						
6.5			85.90	065	104.97	065	109.96	065				
7.0			85.90	070	82.45	070	84.75	070	85.90	070	109.94	070
7.1					160.33	071						
7.5					104.97	075	109.96	075				
8.0					82.45	080	84.75	080	85.90	080	109.94	080
8.5					104.97	085	109.96	085				
9.0					82.45	090	84.75	090	85.90	090	109.94	090
9.5					104.97	095	109.96	095				
10.0					82.45	100	84.75	100	85.90	100	109.94	100
10.5							109.96	105				
11.0							84.75	110	85.90	110	109.94	110
11.5							109.96	115				
12.0							84.75	120	85.90	120	109.94	120
12.5							109.96	125				
13.0							84.75	130	85.90	130	109.94	130
13.5							109.96	135				
14.0							84.75	140	85.90	140	109.94	140
14.5							109.96	145				
15.0							84.75	150	85.90	150	109.94	150
15.5							109.96	155				
16.0							84.75	160	85.90	160	109.94	160
17.0									85.90	170	109.94	170
18.0									85.90	180	109.94	180
19.0									85.90	190	109.94	190
20.0									85.90	200	109.94	200
21.0											109.94	210
22.0											109.94	220
23.0											109.94	230
24.0											109.94	240
25.0											109.94	250
26.0											109.94	260
Set in wooden box					531.33	999	641.29	999	737.47	999		

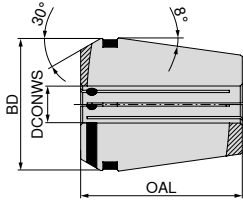
1) Included in the set



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

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

ER-B
2 µm

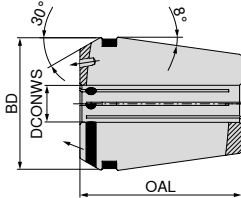


DCONWS mm	BD = 11.3 OAL = 18 425 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
	£		£		£		£		£	
3	107.94	030	112.22	030	113.96	030	117.98	030		
4	107.94	040	112.22	040	119.10	040	107.94	040		
5	117.98	050	107.94	050	113.96	050	117.98	050		
6	107.94	060	112.22	060	119.10	060	107.94	060	123.94	060
7			107.94	070	113.96	070	117.98	070		
8			112.22	080	119.10	080	107.94	080	123.94	080
9			107.94	090	113.96	090	117.98	090		
10			112.22	100	119.10	100	107.94	100	123.94	100
11					113.96	110	117.98	110		
12					119.10	120	107.94	120	123.94	120
13					113.96	130	117.98	130		
14					119.10	140	107.94	140	123.94	140
15					113.96	150	117.98	150		
16					119.10	160	107.94	160	123.94	160
17							117.98	170		
18							107.94	180	123.94	180
19							117.98	190		
20							107.94	200	123.94	200
22									135.94	220
25									123.94	250

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

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

ER-A
2 μm

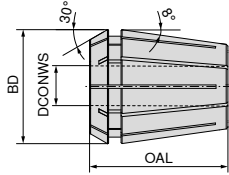


DCONWS mm	BD = 11.3 OAL = 18 4012 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
3	165.36	03000	147.94	03000						
4	165.36	04000	147.94	040	157.94	040	163.92	040		
6	165.36	06000	147.94	060	157.94	060	163.92	060	189.93	06000
8			147.94	080	157.94	080	163.92	080	189.93	08000
10			147.94	10000	157.94	100	163.92	100	189.93	100
12					157.94	120	163.92	120	189.93	120
14					157.94	140	163.92	140		
16					157.94	16000	163.92	160	189.93	160
18							163.92	180	189.93	200
20							163.92	200	189.93	200
25									189.93	250

ER precision collet

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

ER-B
5 µm



DCONWS mm	BD = 11.5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27.5 426 E / ER16		BD = 21 OAL = 31.5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8	
1.0	49.68	010	47.99	010	49.49	010 ¹⁾	52.21	010 ¹⁾				
1.5	49.68	015	47.99	015 ¹⁾	49.49	015 ¹⁾	52.21	015 ¹⁾				
2.0	49.68	020	47.99	020	49.49	020	52.21	020	55.14	020 ¹⁾		
2.5	49.68	025	47.99	025 ¹⁾	49.49	025 ¹⁾	52.21	025 ¹⁾	55.14	025 ¹⁾		
3.0	40.25	030	37.95	030	39.20	030	40.25	030	42.99	030	74.43	030 ¹⁾
3.5	40.25	035										
4.0	40.25	040	37.95	040	39.20	040	40.25	040	42.99	040	55.56	040
4.5	40.25	045										
5.0	40.25	050	37.95	050	39.20	050	40.25	050	42.99	050	55.56	050
5.5	40.25	055										
6.0	40.25	060	37.95	060	39.20	060	40.25	060	42.99	060	55.56	060
6.5	40.25	065										
7.0	40.25	070	37.95	070	39.20	070	40.25	070	42.99	070	55.56	070
8.0			37.95	080	39.20	080	40.25	080	42.99	080	55.56	080
9.0			37.95	090	39.20	090	40.13	090	42.99	090	55.56	090
10.0			37.95	100	39.20	100	40.25	100	42.99	100	55.56	100
11.0					39.20	110	40.25	110	42.99	110	55.56	110
12.0					39.20	120	40.25	120	42.99	120	55.56	120
13.0					39.20	130	40.25	130	42.99	130	55.56	130
14.0							40.25	140	42.99	140	55.56	140
15.0							40.25	150	42.99	150	55.56	150
16.0							40.25	160	42.99	160	55.56	160
17.0									42.99	170	55.56	170
18.0									42.99	180	55.56	180
19.0									42.99	190	55.56	190
20.0									42.99	200	55.56	200
21.0											55.56	210
22.0											55.56	220
23.0											55.56	230
24.0											55.56	240
25.0											55.56	250
26.0											55.56	260
Set in wooden box	599.52	999	433.92	999	528.24	999	668.70	999	836.36	999	1,352.06	999

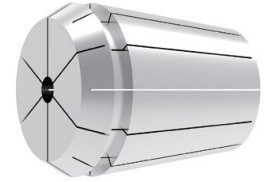
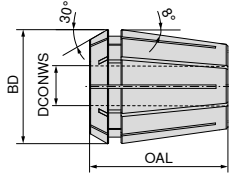
1) not included in the set

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- ▲ DIN ISO 15488-B (alt DIN 6499-B)
- ▲ 16 times slotted
- ▲ Double taper clamping

ER-B
10 µm



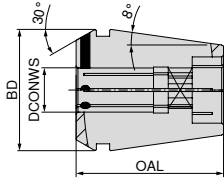
DCONWS mm	NEW		NEW		NEW		NEW	
	£		£		£		£	
		BD = 8.5 OAL = 13.6 4004 E / ER08		BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32
		82 683 ...		82 684 ...		82 685 ...		82 686 ...
	Y8		Y8		Y8		Y8	
1.0	37.45	01000	29.78	01000				
1.5	37.45	01500						
2.0	37.45	02000	29.78	02000	31.14	02000		
2.5	37.45	02500						
3.0	37.45	03000	29.78	03000	31.14	03000	32.97	03000
3.5	37.45	03500						
4.0	37.45	04000	29.78	04000	31.14	04000	32.97	04000
4.5	37.45	04500						
5.0	37.45	05000	29.78	05000	31.14	05000	32.97	05000
6.0			29.78	06000	31.14	06000	32.97	06000
7.0			29.78	07000	31.14	07000	32.97	07000
8.0			29.78	08000	31.14	08000	32.97	08000
9.0			29.78	09000	31.14	09000	32.97	09000
10.0			29.78	10000	31.14	10000	32.97	10000
11.0					31.14	11000	32.97	11000
12.0					31.14	12000	32.97	12000
13.0					31.14	13000	32.97	13000
14.0					31.14	14000	32.97	14000
15.0					31.14	15000	32.97	15000
16.0					31.14	16000	32.97	16000
17.0							32.97	17000
18.0							32.97	18000
19.0							32.97	19000
20.0							32.97	20000
Set in plastic case	373.35	99900	329.64	99900	498.65	99900	630.84	99900

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

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max.} = 60$ bar
- ▲ Coated collet

ER-A
10 µm



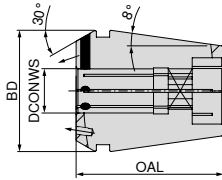
BD = 16.7 OAL = 27.5 4031 E / ER16	BD = 25.7 OAL = 34 4282 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
84 531 ...	84 533 ...	84 534 ...
£ Y8	£ Y8	£ Y8
104.89 028		
79.98 035	87.96 035	
79.98 040	87.96 040	108.26 040
79.98 045	87.96 045	108.26 045
79.98 060	87.96 060	108.26 060
79.98 070	87.96 070	108.26 070
79.98 080	87.96 080	108.26 080
79.98 090	87.96 090	108.26 090
	87.96 100	108.26 100
	87.96 110	108.26 110
	87.96 120	108.26 120
	87.96 140	108.26 140
	87.96 160	108.26 160
		108.26 180
		108.26 200

DCONWS mm
2.8
3.5
4.0
4.5
6.0
7.0
8.0
9.0
10.0
11.0
12.0
14.0
16.0
18.0
20.0

ER precision collet, sealed with coolant channels

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

ER-A
10 µm



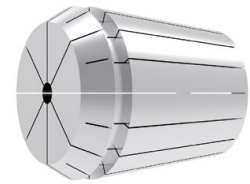
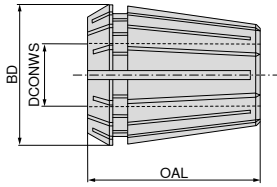
BD = 16.7 OAL = 27.5 4537 E / ER16	BD = 25.7 OAL = 34 4537 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
--	--	--

DCONWS mm	84 567 ...		84 568 ...		84 569 ...	
	£		£		£	
3.5	Y8		Y8		Y8	
4.5	145.09	035	160.69	045	174.09	045
6.0	145.09	060	160.69	060	174.09	060
7.0	145.09	070	160.69	070	174.09	070
8.0	145.09	080	160.69	080	174.09	080
9.0	145.09	09000	160.69	090	174.09	090
10.0			160.69	100	174.09	100
11.0			160.69	110	174.09	110
12.0			160.69	120	174.09	120
14.0			160.69	140	174.09	140
16.0			160.69	16000	174.09	160
18.0					174.09	180
20.0					174.09	200

ER precision collet

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

ER-B
20 µm



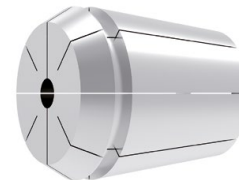
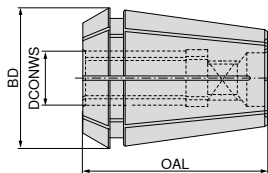
DCONWS mm	NEW		NEW		NEW		NEW		NEW						
	BD = 17 OAL = 27.5 426 E / ER16	BD = 21 OAL = 31.5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40	82 687 ...		82 688 ...		82 689 ...		82 690 ...		82 691 ...	
	£		£		£		£		£		£		£		£
	Y8		Y8		Y8		Y8		Y8		Y8		Y8		Y8
1	29.16	01000	30.14	01000											
2	29.16	02000	30.14	02000	31.30	02000									
3	23.71	03000	21.92	03000	23.49	03000			25.29	03000			31.92	03000	
4	23.71	04000	21.92	04000	23.49	04000			25.29	04000			31.92	04000	
5	23.71	05000	21.92	05000	23.49	05000			25.29	05000			31.92	05000	
6	23.71	06000	21.92	06000	23.49	06000			25.29	06000			31.92	06000	
7	23.71	07000	21.92	07000	23.49	07000			25.29	07000			31.92	07000	
8	23.71	08000	21.92	08000	23.49	08000			25.29	08000			31.92	08000	
9	23.71	09000	21.92	09000	23.49	09000			25.29	09000			31.92	09000	
10	23.71	10000	21.92	10000	23.49	10000			25.29	10000			31.92	10000	
11			21.92	11000	23.49	11000			25.29	11000			31.92	11000	
12			21.92	12000	23.49	12000			25.29	12000			31.92	12000	
13			21.92	13000	23.49	13000			25.29	13000			31.92	13000	
14					23.49	14000			25.29	14000			31.92	14000	
15					23.49	15000			25.29	15000			31.92	15000	
16					23.49	16000			25.29	16000			31.92	16000	
17									25.29	17000			31.92	17000	
18									25.29	18000			31.92	18000	
19									25.29	19000			31.92	19000	
20									25.29	20000			31.92	20000	
21													31.92	21000	
22													31.92	22000	
23													31.92	23000	
24													31.92	24000	
25													31.92	25000	
26													31.92	26000	
Set in plastic case	262.56	99900	281.94	99900	370.28	99900	454.41	99900	767.74	99900					

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet with internal square

- ▲ Similar DIN ISO 15488-A (old DIN 6499-A)
- ▲ 8 times slotted
- ▲ Double taper collets for holding taps on synchronised spindle machines, without compensating lengths

ER-A
15 µm



DCONWS mm	NEW		NEW		NEW	
	£	Y8	£	Y8	£	Y8
4.5	62.09	04500	67.97	04500		
5.5	62.09	05500	67.97	05500		
6.0	62.09	06000	67.97	06000		
7.0	62.09	07000	67.97	07000	81.30	07000
8.0	62.09	08000	67.97	08000	81.30	08000
9.0	62.09	09000	67.97	09000	81.30	09000
10.0	62.09	10000	67.97	10000	81.30	10000
11.0	62.09	11000	67.97	11000	81.30	11000
12.0	62.09	12000	67.97	12000	81.30	12000
14.0			67.97	14000	81.30	14000
16.0			67.97	16000	81.30	16000
18.0					81.30	18000
20.0					81.30	20000

NEW	NEW	NEW
BD = 25.7 OAL = 34 430 E / ER25	BD = 32.7 OAL = 40 470 E / ER32	BD = 40.7 OAL = 46 472 E / ER40

82 692 ...	82 693 ...	82 694 ...
£	£	£
Y8	Y8	Y8

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box

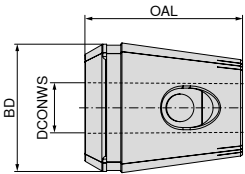


for collet	capacity	83 689 ...
		£
		Y8/3B
4004E (ER08)	9	34.98 008
426E (ER16)	10	39.53 116
428E (ER20)	11	62.72 020
4008E (ER11)	13	52.37 011
430E (ER25)	14	65.35 025
470E (ER32)	18	84.68 032
472E (ER40)	24	106.98 040

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

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

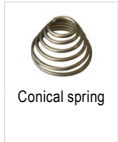
ER
5 μm



BD = 32.7
OAL = 40
ER 32

83 629 ...

DCONWS mm	£ Y8	
12	217.68	120
16	217.68	160



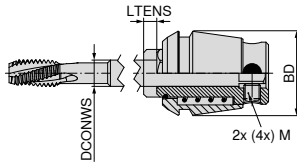
83 950 ...

Spare parts DCONWS	£ Y8	
12	13.06	CP 32 455
16	13.06	CP 32 455

Tapping Collet Form ET (ER) with length compensation

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

ER
10 µm



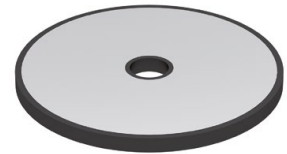
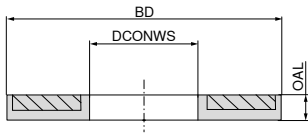
DCONWS mm	BD = 17 LTENS = 7 426 E / ER16		BD = 21 LTENS = 7 428 E / ER20		BD = 26 LTENS = 8 430 E / ER25		BD = 33 LTENS = 10 470 E / ER32		BD = 41 LTENS = 13 472 E / ER40	
	£		£		£		£		£	
2.2	275.59	022	275.59	022						
2.5	275.59	025	275.59	025	292.22	025				
2.8	275.59	028	275.59	028	292.22	028				
3.0	275.59	030	275.59	030	292.22	030				
3.5	275.59	035	275.59	035	292.22	035				
4.0	275.59	040	275.59	040	292.22	040				
4.5	275.59	045	275.59	045	292.22	045	311.03	045		
5.0							311.03	050		
5.5	275.59	055	275.59	055	292.22	055	311.03	055		
6.0	275.59	060	275.59	060	292.22	060	311.03	060	341.46	060
7.0			275.59	070	292.22	070	311.03	070	341.46	070
8.0					292.22	080	311.03	080	341.46	080
9.0					292.22	090	311.03	090	351.16	090
10.0					292.22	100	311.03	100	351.16	100
11.0							311.03	110	351.16	110
12.0							311.03	120	351.16	120
14.0									351.16	140
16.0									351.16	160



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

Sealing discs for precision collet chucks – Centro-P, ER-Standard and ER-Mini with thro' coolant

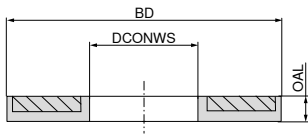
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



DCONWS mm	BD = 12.6 OAL = 2 426E (ER16)		BD = 15.8 OAL = 2 428E (ER20)		BD = 20.2 OAL = 2 430E (ER25)		BD = 26.2 OAL = 2 444E / OZ (ER32)		BD = 34.2 OAL = 2 472E (ER40)	
	£		£		£		£		£	
	83 690 ...		83 694 ...		83 691 ...		83 692 ...		83 693 ...	
	Y8		Y8		Y8		Y8		Y8	
1.0	34.96	010								
1.5	34.96	015								
2.0	31.82	020	35.75	020	31.82	020	38.72	020		
2.5	31.82	025	35.75	025	31.82	025	38.72	025		
3.0	30.29	030	27.64	030	30.29	030	31.53	030	37.76	030
3.5	30.29	035	27.64	035	30.29	035	31.53	035	37.76	035
4.0	30.29	040	27.64	040	30.29	040	31.53	040	37.76	040
4.5	30.29	045	27.64	045	30.29	045	31.53	045	37.76	045
5.0	30.29	050	27.64	050	30.29	050	31.53	050	37.76	050
5.5	30.29	055	27.64	055	30.29	055	31.53	055	37.76	055
6.0	30.29	060	27.64	060	30.29	060	31.53	060	37.76	060
6.5	30.29	065	27.64	065	30.29	065	31.53	065	37.76	065
7.0	30.29	070	27.64	070	30.29	070	31.53	070	37.76	070
7.5	30.29	075	27.64	075	30.29	075	31.53	075	37.76	075
8.0	30.29	080	27.64	080	30.29	080	31.53	080	37.76	080
8.5	30.29	085	27.64	085	30.29	085	31.53	085	37.76	085
9.0	30.29	090	27.64	090	30.29	090	31.53	090	37.76	090
9.5	30.29	095	27.64	095	30.29	095	31.53	095	37.76	095
10.0	30.29	100	27.64	100	30.29	100	31.53	100	37.76	100
10.5			27.64	105	30.29	105	31.53	105	37.76	105
11.0			27.64	110	30.29	110	31.53	110	37.76	110
11.5			27.64	115	30.29	115	31.53	115	37.76	115
12.0			27.64	120	30.29	120	31.53	120	37.76	120
12.5			27.64	125	30.29	125	31.53	125	37.76	125
13.0			27.64	130	30.29	130	31.53	130	37.76	130
13.5					30.29	135	31.53	135	37.76	135
14.0					30.29	140	31.53	140	37.76	140
14.5					30.29	145	31.53	145	37.76	145
15.0					30.29	150	31.53	150	37.76	150
15.5					30.29	155	31.53	155	37.76	155
16.0					30.29	160	31.53	160	37.76	160
16.5							31.53	165	37.76	165
17.0							31.53	170	37.76	170
17.5							31.53	175	37.76	175
18.0							31.53	180	37.76	180
18.5							31.53	185	37.76	185
19.0							31.53	190	37.76	190
19.5							31.53	195	37.76	195
20.0							31.53	200	37.76	200
20.5									37.76	205
21.0									37.76	210
21.5									37.76	215
22.0									37.76	220
22.5									37.76	225
23.0									37.76	230
23.5									37.76	235
24.0									37.76	240
24.5									37.76	245
25.0									37.76	250
25.5									37.76	255
26.0									37.76	260

Sealing rings for precision collet chucks – PCC

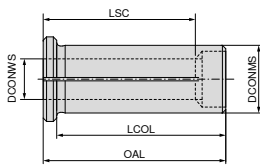
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	BD = 13 OAL = 4 426E (ER16)		BD = 21 OAL = 4 430E (ER25)		BD = 27 OAL = 4 470E (ER32)	
	£ Y8		£ Y8		£ Y8	
		82 630 ...		82 631 ...		82 632 ...
3.0	40.88	03000	40.88	03000	40.88	03000
3.5	40.88	03500	40.88	03500	40.88	03500
4.0	40.88	04000	40.88	04000	40.88	04000
4.5	40.88	04500	40.88	04500	40.88	04500
5.0	40.88	05000	40.88	05000	40.88	05000
5.5	40.88	05500	40.88	05500	40.88	05500
6.0	40.88	06000	40.88	06000	40.88	06000
6.5	40.88	06500	40.88	06500	40.88	06500
7.0	40.88	07000	40.88	07000	40.88	07000
7.5	40.88	07500	40.88	07500	40.88	07500
8.0	40.88	08000	40.88	08000	40.88	08000
8.5	40.88	08500	40.88	08500	40.88	08500
9.0	40.88	09000	40.88	09000	40.88	09000
9.5	40.88	09500	40.88	09500	40.88	09500
10.0	40.88	10000	40.88	10000	40.88	10000
10.5			40.88	10500	40.88	10500
11.0			40.88	11000	40.88	11000
11.5			40.88	11500	40.88	11500
12.0			40.88	12000	40.88	12000
12.5			40.88	12500	40.88	12500
13.0			40.88	13000	40.88	13000
13.5			40.88	13500	40.88	13500
14.0			40.88	14000	40.88	14000
14.5			40.88	14500	40.88	14500
15.0			40.88	15000	40.88	15000
15.5			40.88	15500	40.88	15500
16.0			40.88	16000	40.88	16000
16.5					40.88	16500
17.0					40.88	17000
17.5					40.88	17500
18.0					40.88	18000
18.5					40.88	18500
19.0					40.88	19000
19.5					40.88	19500
20.0					40.88	20000

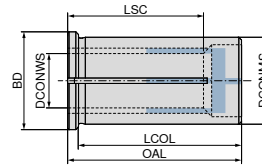
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

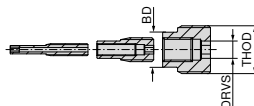
▲ with coolant holes, for flexible diameter application



						83 609 ...	
DCONMS	DCONWS	OAL	LCOL	LSC	£		
mm	mm	mm	mm	mm	Y8		
12	3	40	36	29	273.00	103	
12	4	40	36	29	273.00	104	
12	5	40	36	29	273.00	105	
12	6	40	36	36	273.00	106	
12	8	40	36	37	273.00	108	
20	3	54	50	28	256.43	203	
20	4	54	50	28	256.43	204	
20	5	54	50	28	256.43	205	
20	6	54	50	36	199.22	206	
20	8	54	50	37	199.22	208	
20	10	54	50	40	199.22	210	
20	12	54	50	45	199.22	212	
20	14	54	50	45	199.22	214	
20	16	54	50	48	199.22	216	
25	6	60	56	37	209.14	256	
25	8	60	56	37	209.14	258	
25	10	60	56	40	209.14	260	
25	12	60	56	46	209.14	262	
25	14	60	56	47	209.14	264	
25	16	60	56	48	209.14	266	
25	18	60	56	48	209.14	268	
25	20	60	56	50	209.14	270	
32	6	64	60	36	256.43	306	
32	8	64	60	36	256.43	308	
32	10	64	60	40	256.43	310	
32	12	64	60	45	256.43	312	
32	14	64	60	46	256.43	314	
32	16	64	60	48	256.43	316	
32	18	64	60	49	256.43	318	
32	20	64	60	50	256.43	320	
32	25	64	60	56	256.43	325	

						83 611 ...	
DCONMS	DCONWS	BD	OAL	LCOL	LSC	£	
mm	mm	mm	mm	mm	mm	Y8	
12	3	16	44	40	29	443.28	10300
12	4	16	44	40	29	443.28	10400
12	5	16	44	40	29	443.28	10500
12	6	16	44	40	36	443.28	10600
12	8	16	44	40	37	443.28	10800
20	3	25	54	50	28	278.97	20300
20	4	25	54	50	28	278.97	20400
20	5	25	54	50	28	278.97	20500
20	6	25	54	50	36	278.97	20600
20	8	25	54	50	37	278.97	20800
20	10	25	54	50	40	278.97	21000
20	12	25	54	50	45	278.97	21200
20	14	25	54	50	45	278.97	21400
20	16	25	54	50	48	278.97	21600
32	6	36	64	60	36	315.46	30600
32	8	36	64	60	36	315.46	30800
32	10	36	64	60	40	315.46	31000
32	12	36	64	60	45	315.46	31200
32	14	36	64	60	46	315.46	31400
32	16	36	64	60	48	315.46	31600
32	18	36	64	60	49	315.46	31800
32	20	36	64	60	50	315.46	32000
32	25	36	64	60	56	315.46	32500

Stop screw for use with reducing sleeves in hydraulic chuck



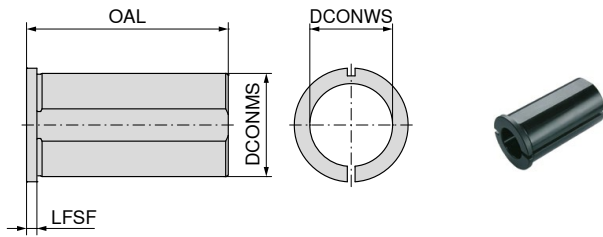
Adaptation for the use of stop screws for reducing sleeves

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

			83 950 ...	
THOD	BD	DRVS	£	
	mm	mm	Y7	
M4x0,5x26	2,8	2	23.98	425
M8x1x19	5,8	2,5	23.98	428
M10x1x16	5,8	3	23.98	426
M16x1x16	11,7	5	23.98	427

Slotted reduction sleeves

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

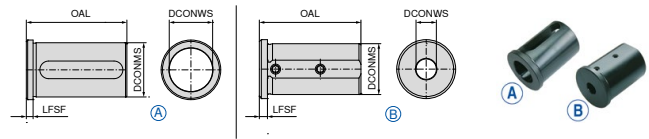


83 271 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	£ Y8	
20	6	30	4	124.48	206
20	8	30	4	98.00	208
20	10	30	4	98.00	210
20	12	30	4	98.00	212
20	15	30	4	98.00	215
20	16	30	4	98.00	216
25	6	40	4	139.97	256
25	8	40	4	104.43	258
25	10	40	4	104.43	260
25	12	40	4	104.43	262
25	15	40	4	111.55	265
25	16	40	4	104.43	266
25	20	40	4	104.43	270
32	6	50	4	135.19	326
32	8	50	4	104.43	328
32	10	50	4	104.43	330
32	12	50	4	104.43	332
32	15	50	4	104.43	335
32	16	50	4	104.43	336
32	20	50	4	104.43	340
40	10	78	4	125.86	410
40	12	78	4	125.86	412
40	15	78	4	125.86	415
40	16	78	4	125.86	416
40	20	78	4	125.86	420
40	25	78	4	125.86	425
40	32	78	4	125.86	432
50	20	88	4	168.92	520
50	25	88	4	168.92	525
50	32	88	4	168.92	532
50	40	88	4	168.92	540

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	£ Y8	
25	6	50	4	B	167.34	256
25	8	50	4	B	127.60	258
25	10	50	4	B	127.60	260
25	12	50	4	B	127.60	262
25	14	50	4	A	117.52	264
25	16	50	4	A	127.60	266
25	20	50	4	A	127.60	270
32	6	58	5	B	172.67	326
32	8	58	5	B	172.67	328
32	10	58	5	B	131.20	330
32	12	58	5	B	131.20	332
32	16	58	5	A	131.20	336
32	20	58	5	A	131.20	340
32	25	58	5	A	131.20	345
40	8	58	5	B	209.76	408
40	10	58	5	B	172.67	410
40	12	58	5	B	172.67	412
40	16	58	5	A	172.67	416
40	20	58	5	A	172.67	420
40	25	58	5	A	172.67	425
40	32	58	5	A	172.67	432
50	12	75	5	B	194.80	512
50	16	75	5	A	194.80	516
50	20	75	5	A	194.80	520
50	25	75	5	A	194.80	525
50	32	75	5	A	194.80	532
50	40	75	5	A	194.80	540

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...		
Adapter	£	
	Y8	
MK 1	14.21	001
MK 2	17.22	002
MK 3	22.15	003
MK 4	27.25	004
MK 5	38.84	005
HSK 32	93.90	320
HSK 40	102.03	400
HSK 50	103.53	500
HSK 63	98.29	630
HSK 80	156.26	800
HSK 100	149.53	100
SK 30	26.04	130
SK 40	30.81	140
SK 50	40.10	150

Assembly device for ISO adaptors

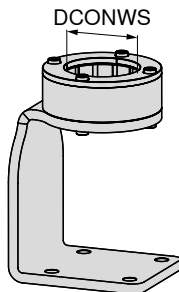
▲ Aluminium




80 720 ...		
Adapter	£	
	Y7	
SK 30	253.35	030
SK 40	253.35	040
SK 50	421.48	050

Assembly fixture for tool holders

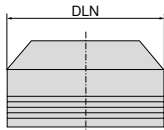
- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary



80 722 ...		
Holder Type	DCONWS mm	£
		Y7
HSK 32, PSC 32	32.0	365.74 032
HSK 40, PSC 40	40.0	365.74 040
MAS-BT 30	46.0	321.17 046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	321.17 050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	321.17 063
ISO 7388-1 - SK 50	97.5	639.12 097
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	639.12 100

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

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



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	30	80	68.64	001	92.42	011
430E (ER25)	2 - 16	40	90	76.26	003	103.01	013
470E (ER32)	2 - 20	50	180	83.89	005	110.15	015
472E (ER40)	3 - 26	63	200	122.04	007	150.65	017

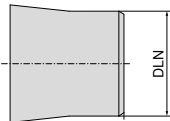
Collet removal aid for Mini lock nut for precision collet chuck – Centro-P



84 950 ...

for collet	£ Y8	
4004E (ER08)	57.33	070
4008E (ER11)	80.64	072

Tapered lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	24	80	95.86	031	113.47	033

Mini lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
4004E (ER08)	1 - 5	10	5 - 8	115.19	040		
4008E (ER11)	1 - 7	16	10	95.86	041		
4008E (ER11)	Ø 3,0	16	10	199.43	042 ¹⁾		
4008E (ER11)	Ø 4,0	16	10	199.43	043 ¹⁾		
4008E (ER11)	Ø 5,0	16	10	199.43	044 ¹⁾		
4008E (ER11)	Ø 6,0	16	10	199.43	045 ¹⁾		
4008E (ER11)	Ø 7,0	16	10	199.43	046 ¹⁾		
426E (ER16)	1 - 10	22	30	76.59	034		
426E (ER16)	1 - 10	22	28			93.35	035

1) directly sealed

Roll key

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



		84 950 ...		
for lock nut	DLN mm	£ Y8		
4004E / ER08 CP mini	10	338.71	050	1)
4008E / ER 11 CP mini	16	156.15	080	1)
426E / ER 16 CP / ER 16 mini	22	139.08	026	1)
426E / ER 16 CP Conical	24	156.15	082	2)
426E / ER 16 CP	30	139.08	027	
426E / ER 16 STD	32	139.08	028	
430E / ER 25 CP	40	163.04	054	
470E / ER 32 CP + STD	50	152.85	056	
470E / ER 32 HDC	53	185.78	30200	
472E / ER 40 CP + STD	63	174.11	057	

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

Torque key



		84 435 ...		
TQX Nm	Square mm	£ Y8		
5 - 30	9 x 12	287.70	030	
10 - 80	9 x 12	340.41	080	
20 - 200	14 x 18	347.64	200	

Additional roll key device for torque key

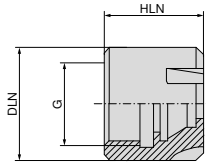
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



		84 950 ...			
for lock nut	DLN mm	TQX Nm	Square mm	£ Y8	
4008E / ER 11 CP mini	16	5 - 30	9 x 12	156.18	060 1)
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	139.08	170 1)
426E / ER 16 CP Conical	24	10 - 80	9 x 12	156.18	061 2)
426E / ER 16 CP	30	20 - 200	14 x 18	139.08	171
426E / ER 16 STD	32	20 - 200	14 x 18	139.08	172
430E / ER 25 CP	40	20 - 200	14 x 18	156.18	065
470E / ER 32 CP + STD	50	20 - 200	14 x 18	156.18	067
470E / ER 32 HDC	53	20 - 200	14 x 18	185.78	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	156.18	068

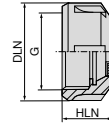
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



					62 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7	
4004E (ER08)	M10x0,75	12	11.0	8	71.00	067
4008E (ER11)	M13x0,75	16	12.0	18	63.77	065
426E (ER16)	M19x1	22	18.0	28	44.48	066
428E (ER20)	M24x1	28	19.5	35	70.62	068
430E (ER25)	M30x1	35	21.0	40	70.62	069

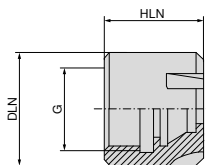
ER Lock nut



for seals

				62 950 ...		83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	£ W7		£ Y8	
426E (ER16)	M22x1,5	32	17.0	25.64	054		
426E (ER16)	M22x1,5	32	22.0			82.98	054
428E (ER20)	M25x1,5	35	23.2			94.26	053
430E (ER25)	M32x1,5	42	20.0	26.70	055		
430E (ER25)	M32x1,5	42	24.7			96.66	055
470E (ER32)	M40x1,5	50	22.3	27.37	056		
470E (ER32)	M40x1,5	50	27.0			103.38	056
472E (ER40)	M50x1,5	63	25.3	28.36	057		
472E (ER40)	M50x1,5	63	30.7			124.40	057

Mini ER lock nut for sealing rings



for seals

					83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ Y8	
426E (ER16-DS)	M19x1	22	22.0	28	107.02	058
428E (ER20-DS)	M24x1	28	23.2	35	109.01	059
430E (ER25-DS)	M30x1	35	24.7	40	114.91	060

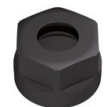
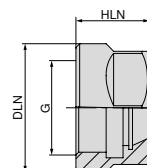
Y clamping key



		83 357 ...	
for lock nut		£ Y8	
ER 16		28.20	116
ER 20		40.89	12000
ER 25		28.20	125
ER 32		41.07	132
ER 40		46.52	140

ER Lock nut

▲ DRVS = Drive size



ER Mini clamping key

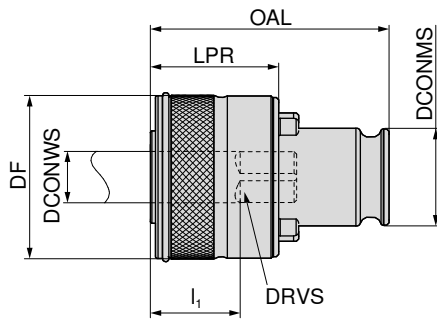


		83 950 ...	
for collet		£ Y8	
4004E (ER08)		42.35	099
4008E (ER11)		42.35	100
426E (ER16)		47.39	101
428E (ER20)		44.47	102
430E (ER25)		44.47	103

				62 950 ...	
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	£ W7
426E (ER16)	M22x1,5	25	28	18.0	32.23
428E (ER20)	M25x1,5	30	34	19.5	25.99

Quick change tap adapter with overload clutch

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

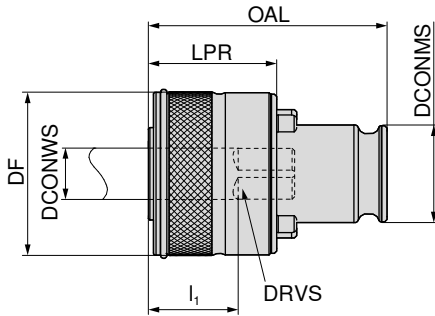


83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR	£	
	mm	mm			mm	mm	mm	mm	mm	Y8	
01	2.8	2.1	M2		33	19	46.5	17	25	127.26	100
01	2.8	2.1	M2,5		33	19	46.5	17	25	127.26	101
01	3.5	2.7	M3		33	19	46.5	17	25	127.26	102
01	4.0	3.0	M3,5		33	19	46.5	17	25	127.26	103
01	4.5	3.4	M4		33	19	46.5	17	25	127.26	104
01	6.0	4.9	M4,5		33	19	46.5	17	25	127.26	105
01	6.0	4.9	M5		33	19	46.5	17	25	127.26	106
01	4.5	3.4		M6	33	19	46.5	17	25	127.26	107
01	6.0	4.9	M6		33	19	46.5	17	25	127.26	108
01	5.5	4.3		M7	33	19	46.5	17	25	127.26	109
01	7.0	5.5	M7		33	19	46.5	17	25	127.26	110
01	6.0	4.9		M8	33	19	46.5	17	25	127.26	111
01	8.0	6.2	M8		33	19	46.5	17	25	127.26	112
01	9.0	7.0	M9		33	19	46.5	17	25	127.26	113
01	7.0	5.5		M10	33	19	46.5	17	25	127.26	114
01	10.0	8.0	M10		33	19	46.5	17	25	127.26	115
01	8.0	6.2		M11	33	19	46.5	17	25	127.26	116
01	9.0	7.0		M12	33	19	46.5	17	25	127.26	117
02	6.0	4.9	M4,5 - M6		50	31	69.0	30	34	166.60	200
02	6.0	4.9	M7 (DIN 352)		50	31	69.0	30	34	166.60	201
02	7.0	5.5	M7		50	31	69.0	30	34	166.60	202
02	6.0	4.9		M8	50	31	69.0	30	34	166.60	203
02	8.0	6.2	M8		50	31	69.0	30	34	166.60	204
02	9.0	7.0	M9		50	31	69.0	30	34	166.60	205
02	7.0	5.5		M10	50	31	69.0	30	34	166.60	206
02	10.0	8.0	M10		50	31	69.0	30	34	166.60	207
02	8.0	6.2		M11	50	31	69.0	30	34	166.60	208
02	9.0	7.0		M12	50	31	69.0	30	34	166.60	209
02	11.0	9.0		M14	50	31	69.0	30	34	166.60	210
02	12.0	9.0		M16	50	31	69.0	30	34	166.60	211
02	14.0	11.0		M18	50	31	69.0	30	34	166.60	212
02	16.0	12.0		M20	50	31	69.0	30	34	166.60	213

Quick change tap adapter with overload clutch, with through coolant

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

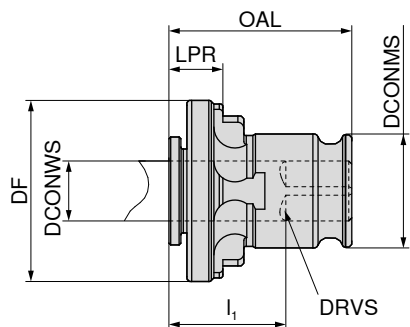


83 616 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	83 616 ...	
										£	Y8
01	3.5	2.7	M3	M4,5 - M5	33	19	46.5	17	25	211.97	100
01	4.5	3.4	M4	M6	33	19	46.5	17	25	211.97	102
01	5.5	4.3		M7	33	19	46.5	17	25	211.97	104
01	6.0	4.9	M4,5 - M6	M8	33	19	46.5	17	25	211.97	106
01	7.0	5.5	M7	M10	33	19	46.5	17	25	211.97	108
01	8.0	6.2	M8	M11	33	19	46.5	17	25	211.97	110
01	9.0	7.0	M9	M12	33	19	46.5	17	25	211.97	112
01	10.0	8.0	M10		33	19	46.5	17	25	211.97	114
01	11.0	9.0		M14	33	19	46.5	17	25	211.97	116
02	6.0	4.9	M4,5 - M6	M8	50	31	69.0	30	34	257.33	200
02	7.0	5.5	M7	M10	50	31	69.0	30	34	257.33	202
02	8.0	6.2	M8	M11	50	31	69.0	30	34	257.33	204
02	9.0	7.0	M9	M12	50	31	69.0	30	34	257.33	206
02	10.0	8.0	M10		50	31	69.0	30	34	257.33	208
02	11.0	9.0		M14	50	31	69.0	30	34	257.33	210
02	12.0	9.0	M12	M16	50	31	69.0	30	34	257.33	212
02	14.0	11.0		M18	50	31	69.0	30	34	257.33	214
02	16.0	12.0		M20	50	31	69.0	30	34	257.33	216

Quick change tap adapter

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

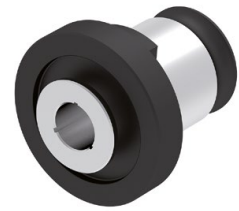
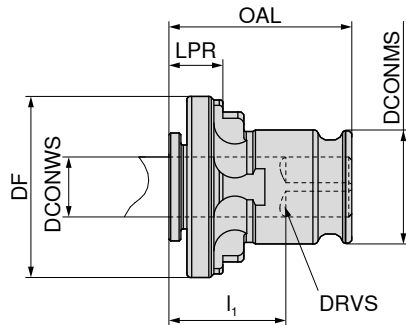


83 610 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	83 610 ...	
										£	
01	3.5	2.7	M3		30	19	28.5	17	7	48.71	100
01	4.5	3.4	M4		30	19	28.5	17	7	48.71	101
01	4.0	3.0	M3,5		30	19	28.5	17	7	48.71	102
01	2.8	2.1	M2 - M2,6		30	19	28.5	17	7	48.71	103
01	5.5	4.3		M7	30	19	28.5	17	7	48.71	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	17	7	48.71	105
01	7.0	5.5	M7	M10	30	19	28.5	17	7	48.71	106
01	8.0	6.2	M8	M11	30	19	28.5	17	7	48.71	107
01	9.0	7.0	M9	M12	30	19	28.5	17	7	48.71	108
01	10.0	8.0	M10		30	19	28.5	17	7	48.71	109
01	11.0	9.0		M14	30	19	28.5	17	7	48.71	110
02	6.0	4.9	M4,5 - M6		46	31	46.0	30	11	66.99	200
02	7.0	5.5	M7		46	31	46.0	30	11	66.99	201
02	8.0	6.2	M8		46	31	46.0	30	11	66.99	202
02	9.0	7.0	M9		46	31	46.0	30	11	66.99	203
02	10.0	8.0	M10		46	31	46.0	30	11	66.99	204
02	11.0	9.0		M14	46	31	46.0	30	11	66.99	205
02	12.0	9.0		M16	46	31	46.0	30	11	66.99	206
02	14.0	11.0		M18	46	31	46.0	30	11	66.99	207
02	16.0	12.0		M20	46	31	46.0	30	11	66.99	208
02	18.0	14.5		M22 - M24	46	31	46.0	30	11	66.99	209

Quick change tap adapter, with through coolant

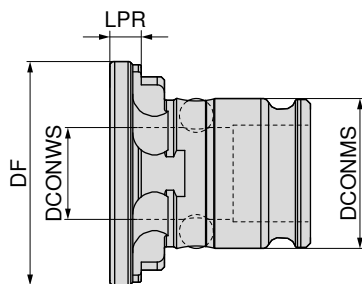
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	83 614 ...	
										£	
01	3.5	2.7		M4,5 - M5	30	19	28.5	17	7	97.23	100
01	4.5	3.4	M4	M6	30	19	28.5	17	7	97.23	102
01	5.5	4.3		M7	30	19	28.5	17	7	97.23	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	17	7	97.23	106
01	7.0	5.5	M7	M10	30	19	28.5	17	7	97.23	108
01	8.0	6.2	M8	M11	30	19	28.5	17	7	97.23	110
01	9.0	7.0	M9	M12	30	19	28.5	17	7	97.23	112
01	10.0	8.0	M10		30	19	28.5	17	7	97.23	114
02	6.0	4.9	M4,5 - M6	M8	46	31	46.0	30	11	127.26	200
02	7.0	5.5	M7	M10	46	31	46.0	30	11	127.26	202
02	8.0	6.2	M8	M11	46	31	46.0	30	11	127.26	204
02	9.0	7.0	M9	M12	46	31	46.0	30	11	127.26	206
02	10.0	8.0	M10		46	31	46.0	30	11	127.26	208
02	11.0	9.0		M14	46	31	46.0	30	11	127.26	210
02	12.0	9.0	M12	M16	46	31	46.0	30	11	127.26	212
02	14.0	11.0		M18	46	31	46.0	30	11	127.26	214
02	16.0	12.0		M20	46	31	46.0	30	11	127.26	216

Reducing adapter for quick change adapters

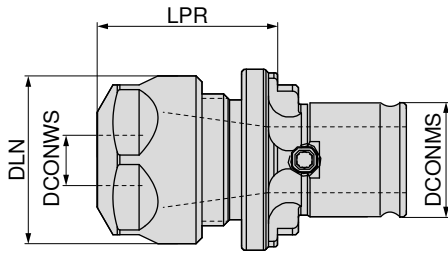
- ▲ Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.



SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	83 624 ...	
					£	
02	46	31	19	8.5	149.98	200

Quick change tap adapters

▲ Adaptors for collets ER 16 / ER 25



SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet
01	1 - 10	28	19	29.5	ER 16
02	2 - 16	42	31	38.5	ER 25

83 618 ...

£

Y8

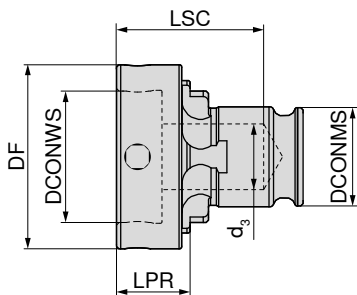
205.88 010 ¹⁾

290.32 016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



SZID	for size	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
02	20 x 5	30	31	20	22	15.0	57
01	16 x 5	25	19	16	9	12.5	23
01	20 x 5	30	19	20	9	12.5	23
01	20 x 7	30	19	20	11	12.5	25
01	25 x 9	35	19	25	14	12.5	28
01	30 x 11	40	19	30	16	12.5	30
01	38 x 10	48	19	38	15	14.2	29
01	38 x 14	48	19	38	19	14.2	33
02	20 x 7	30	31	20	22	15.0	57
02	25 x 9	35	31	35	22	15.0	57
02	30 x 11	40	31	30	22	22.0	57
02	38 x 10	48	31	38	22	22.0	57
02	38 x 14	48	31	38	25	22.0	60
02	45 x 14	57	31	45	29	22.0	64
02	45 x 18	57	31	45	29	22.0	64

83 622 ...

£

Y8

293.48 220

208.81 116

279.53 120

194.63 121

279.53 125

279.53 130

279.53 138

194.63 139

273.37 221

273.37 225

273.37 230

293.48 238

273.37 239

293.48 245

273.37 246

MultiChange – Spanner

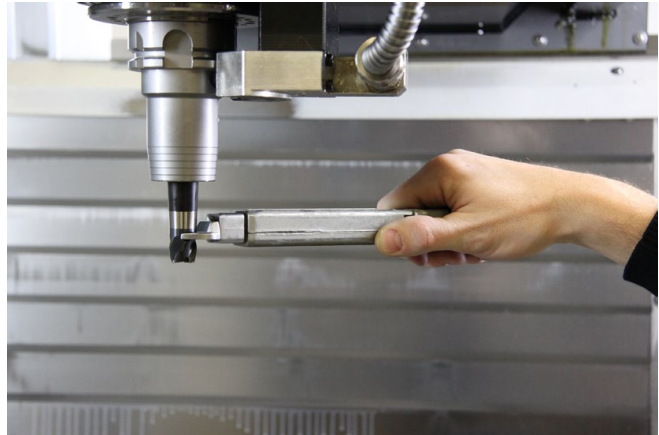


DRVS mm	TQX Nm	84 357 ...	
		£	
		Y8	
6	5	13.81	006
8	12,5	14.23	008
10	15	15.99	010
13	20	17.30	013
16	25	23.29	016
19	25	34.41	019 ¹⁾
21	25	37.66	021 ¹⁾
24	25	39.68	024 ¹⁾

1) only for MultiChange reamers

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ Cleaning of cone and thread face of the holder
- ▲ Cleaning of cone, thread and face of the holders
- ▲ Cutter head screwed clockwise by hand into the holder
- ▲ (be careful if using gloves)
- ▲ Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- ▲ The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area

MultiChange – Spanner Head




DRVS mm	TQX Nm	Square mm	84 358 ...	
			£	
			Y8	
6	5	9 x 12	99.70	006
8	12,5	9 x 12	99.70	008
10	15	9 x 12	99.70	010
13	20	9 x 12	99.70	013
16	25	9 x 12	99.70	016
19	25	9 x 12	159.92	190
19	25	14 x 18	201.02	019 ¹⁾
21	25	9 x 12	223.60	210
21	25	14 x 18	244.96	021 ¹⁾
24	25	9 x 12	223.60	240
24	25	14 x 18	244.96	024 ¹⁾

1) only for MultiChange reamers



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

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

TORX® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05	35	0,5	7.70	082
T06	35	0,9	7.80	083
T07	35	1,7	7.80	084
T08	40	2,6	7.80	085
T09	40	3,4	8.44	086
T10	40	4,5	8.44	087
T15	45	7,7	8.88	088
T20	45	12,7	9.71	089

TORX® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06, T07, T08, T09, T10, T15, T20	73.14	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05-IP	35	0,5	9.73	057
T06-IP	35	0,9	9.73	058
T07-IP	35	1,7	9.53	059
T08-IP	40	2,6	10.55	060
T09-IP	40	3,4	10.34	061
T10-IP	40	4,5	10.34	062
T15-IP	45	7,7	10.91	063
T20-IP	45	12,7	12.14	064

TORX PLUS® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	113.98	091

Clamping key



DRVS mm	TQX Nm	80 397 ...	
		£ Y7	
2	1,9	6.07	020
2,5	3,8	6.30	025
3	6,6	6.07	030
4	16	6.07	040
5	30	7.73	050
6	52	7.59	060
8	120	9.43	080
10	220	15.73	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



Size	80 397 ...	
	£ Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	91.83	99900

TORX® Screwdriver



Size		LB	80 950 ...	
		mm	£	
			Y7	
T06	60		10.63	100
T07	60		10.63	101
T08	60		10.63	102
T09	60		11.44	103
T10	80		11.54	104
T15	80		11.89	105
T20	100		12.20	106
T25	100		13.30	107
T30	115		14.15	092

TORX PLUS® Screwdriver



Size		LB	80 950 ...	
		mm	£	
			Y7	
T06-IP	60		13.56	116
T07-IP	60		13.30	117
T08-IP	60		11.08	039
T09-IP	60		14.36	118
T10-IP	80		14.90	119
T15-IP	80		15.30	120
T20-IP	100		16.39	121
T25-IP	100		17.13	122

TORX® MagicSpring®



Size		LB	80 950 ...	
		mm	£	
			Y7	
MS T06	60		14.16	108
MS T07	60		13.09	109
MS T08	60		13.09	110
MS T09	60		14.90	111
MS T10	80		15.30	112
MS T15	80		15.56	113
MS T20	100		16.66	114
MS T25	100		17.13	115
MS T30	100		17.96	131

TORX PLUS® MagicSpring®



Size		LB	80 950 ...	
		mm	£	
			Y7	
MS T06-IP	60		17.37	123
MS T07-IP	60		17.13	124
MS T08-IP	60		17.13	125
MS T09-IP	60		18.76	126
MS T10-IP	80		19.45	127
MS T15-IP	80		20.03	128
MS T20-IP	100		21.03	129



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



TorqueFix® Handle

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



		80 021 ...	
TQX Nm		£ Y7	
0,4		118.43	00400
0,5		118.43	00500
0,6		149.42	006
0,7		131.20	007
0,8		134.16	008
0,9		118.43	00900
1		134.16	010
1,1		117.35	01100
1,2		147.94	012
1,5		117.35	01500
1,6		147.94	016
1,8		147.94	018
2		147.94	020
2,5		117.35	02500
3		156.39	030
3,2		156.39	032
3,8		123.96	03800
4		156.39	040
5		156.39	050
5,5		175.49	055
6		175.49	060
7,2		138.48	07200

easyTorque® Handle

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



						NEW	
						80 024 ...	
TQX Nm	DRVS mm	BD mm	OAL mm	WT kg	£ Y7		
0,5	4	34	130	0.950	78.00	00500	
0,6	4	34	130	0.950	78.00	00600	
0,9	4	34	130	0.940	78.00	00900	
1,1	4	34	130	0.101	78.00	01100	
1,2	4	34	130	0.990	78.00	01200	
1,4	4	34	130	0.101	78.00	01400	
2,0	4	34	130	0.101	82.00	02000	
2,5	4	34	130	0.106	82.00	02500	
3,0	4	34	130	0.104	82.00	03000	
3,8	4	34	130	0.105	82.00	03800	
4,0	4	34	130	0.105	84.00	04000	
4,5	4	34	130	0.105	84.00	04500	
5,0	4	34	130	0.105	84.00	05000	

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: ± 6%, traceable to national standards

Scope of supply:
incl. Plastic box and inspection report



		80 392 ...	
TQX Nm	DRVS mm	£ Y7	
0,5	4	94.02	00500
0,6	4	94.02	00600
0,9	4	94.02	00900
1,1	4	94.02	01100
1,2	4	94.02	01200
1,4	4	94.02	01400
2,0	4	94.02	02000
2,5	4	94.02	02500
3,0	4	94.02	03000
3,8	4	94.02	03800
4,0	4	94.02	04000

TorqueVario®-S

- ▲ Patented handle

Scope of supply:
incl. Torque-Setter setting tool



		80 950 ...	
TQX Nm		£ Y7	
0,4 - 1,0		208.48	046
0,5 - 2,0		207.73	191
0,8 - 5,0		195.92	192
2,0 - 7,0		232.67	193

Universal holder for Bits

- ▲ 162 mm long



		80 950 ...	
for		£ Y7	
DIN3126-C/E 6,3-1/4"		12.86	014

Interchangeable blade for hex drive



Size	TQX Nm	short 75 mm		long 175 mm	
		£ Y7	80 393 ...	£ Y7	80 950 ...
SW1,5	0,9	7.68	01500	11.39	151
SW2	1,8	7.68	02000	11.39	152
SW2,5	3,8	7.68	02500	11.39	153
SW3	5,5	7.68	03000	11.39	154
SW4	8,0	7.68	04000	11.39	155

Replaceable Blade for TORX®



Size	TQX Nm	short 75 mm		long 175 mm	
		£ Y7	80 394 ...	£ Y7	80 950 ...
T05	0,4			9.21	048
T06	0,6	7.68	00600	8.49	031
T07	0,9	7.68	00700	8.49	032
T08	1,3	7.68	00800	8.49	033
T09	2,5	7.68	00900	8.49	034
T10	3,8	7.68	01000	8.49	035
T15	5,5	7.68	01500	8.49	036
T20	8,0	7.68	02000	8.49	037
T25	8,0	7.68	02500	8.49	038

Replaceable Blade for TORX PLUS®



Size	TQX Nm	long 175 mm	
		£ Y7	80 950 ...
T05-IP	0,5	8.49	049
T06-IP	0,8	8.49	050
T07-IP	1,3	8.49	051
T08-IP	2,0	8.49	043
T09-IP	3,0	8.49	052
T10-IP	4,5	8.49	053
T15-IP	6,6	8.49	054
T20-IP	8,0	8.49	055
T25-IP	8,0	8.49	056



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → **Page 296.**

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 296.**

TORX® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T06	0,9	1.87	015
T07	1,7	1.87	016
T08	2,6	1.87	017
T09	3,4	1.87	018
T10	4,5	1.87	019
T15	7,7	1.87	020
T20	12,7	1.87	021
T25	19	1.87	022
T30	37,4	1.58	093

TORX® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T06	0,9	5.98	023
T07	1,7	5.98	024
T08	2,6	5.98	025
T09	3,4	5.98	026
T10	4,5	5.98	027
T15	7,7	5.98	028
T20	12,7	5.98	029
T25	19	5.98	030
T30	37,4	7.27	094

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T08-IP	2,6	4.49	068
T09-IP	3,4	4.49	069
T10-IP	4,5	4.49	070
T15-IP	7,7	4.49	071
T20-IP	12,7	4.49	072
T25-IP	19	4.49	073

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6,3 – 1/4"



Size	TQX Nm	80 950 ...	
		£ Y7	
T08-IP	2,6	9.10	040
T09-IP	3,4	8.94	077
T10-IP	4,5	8.94	078
T15-IP	7,7	8.94	079
T20-IP	12,7	8.94	080
T25-IP	19	8.94	081

Bit – hexagonal (50 mm)

▲ DIN3126-E 6,3 - 1/4"



Size	80 398 ...	
	£ Y7	
SW1,5	7.77	01500
SW2	7.77	02000
SW2,5	7.77	02500
SW3	7.06	03000
SW3,5	7.84	03500
SW4	5.80	04000
SW4,5	7.84	04500
SW5	7.06	05000
SW6	5.80	06000
SW8	12.20	08000

TORX PLUS® Allen key



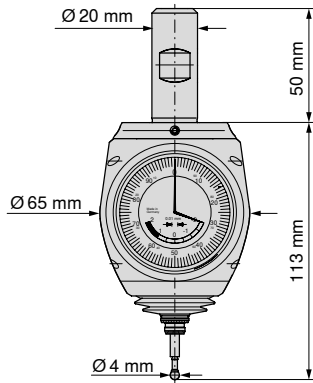
Size	OAL mm	80 951 ...	
		£ Y7	
T07-IP	44	9.40	00700
T08-IP	47	9.40	00800
T09-IP	51	9.40	00900
T10-IP	54	9.61	01000
T15-IP	58	9.70	01500
T20-IP	62	10.33	02000
T25-IP	67	10.86	02500
T27-IP	73	11.29	02700
T30-IP	79	12.17	03000
T40-IP	88	13.88	04000

Universal 3D-tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

£

XX

400.39 100

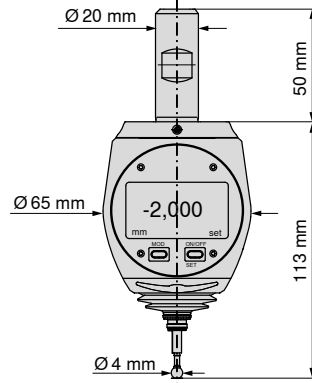
Universal-3D-Tester

Digital 3D tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 291 ...

£

XX

911.19 100

Digital 3D Tester

Zero height setting gauge

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



85 900 ...

£

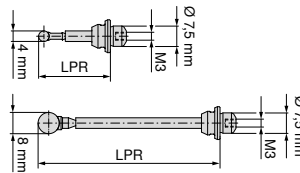
Y7

267.08 018

OAH
mm
100

Stylus for 3D-tester

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



85 290 ...

£

XX

31.42 102

66.95 104

LPR
mm

25

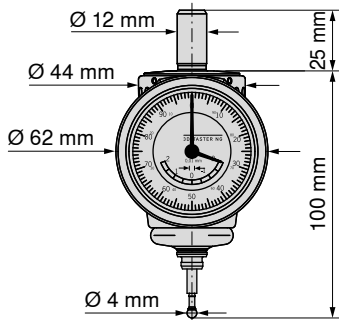
65

Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

£
XX

419.45 100

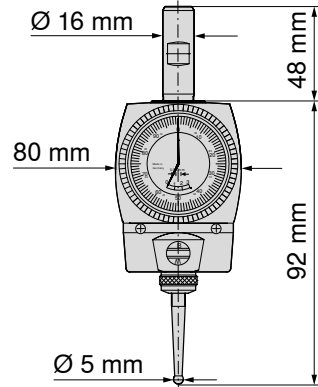
Universal 3D-Tester HQ

Centre finder

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

Scope of supply:

3D-Tester incl. straight stylus and telescopic stop



85 299 ...

£
XX

528.50 100

Centre finder



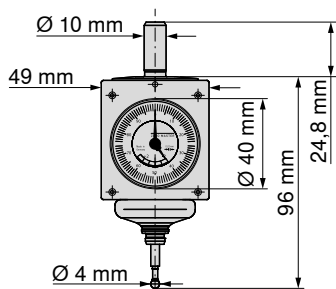
Range with probe tip Ø 5 mm holes
Ø 6–125 mm, shaft Ø 0–125 mm

Universal 3D-Tester Mini

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

Scope of supply:

3D tester including tracer insert and Allen key



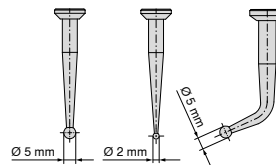
85 295 ...

£
XX

400.39 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

£
XX

Straight stylus / Ball-Ø 2 mm

40.04 102

Straight stylus / Ball-Ø 5 mm

39.28 104

Curved stylus / Ball Ø 5 mm

48.06 106

Telescopic rod for Centre Finder



85 299 ...

£
XX

15.72 111

DCONMS
mm

6

OAL
mm

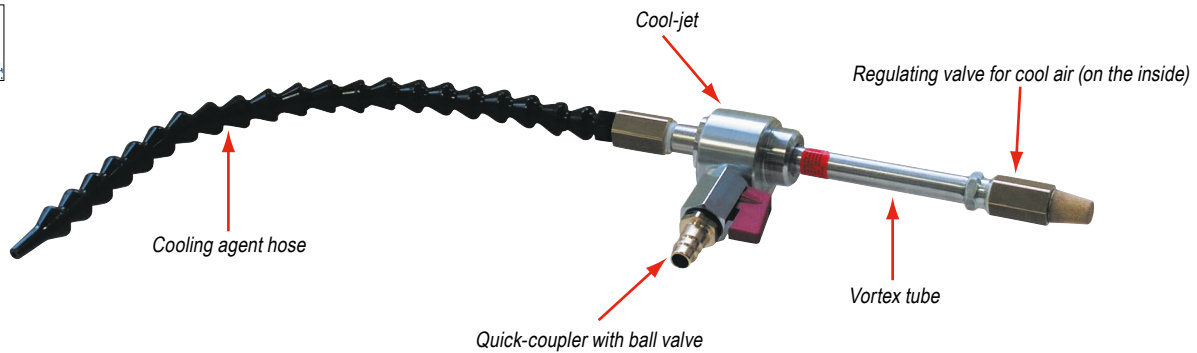
478

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100% when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

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



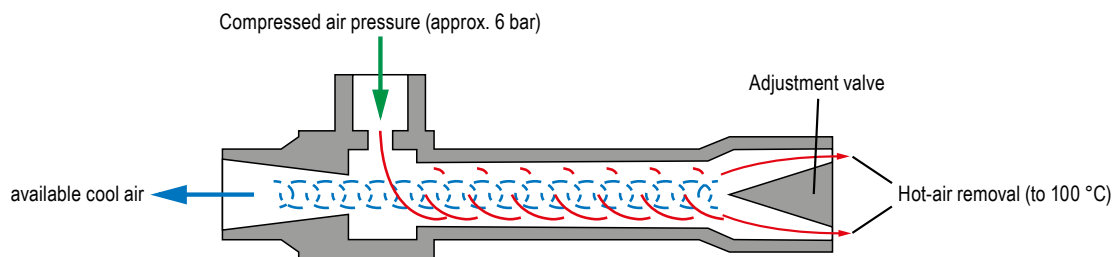
Cool-jet	81 900 ...	£	81 900 ...
3/7 bar air pressure, at -46 °C	Y7	1,530.41	101
Accessories		£	Y7
Magnetic plate Ø 80 mm without clamping arm		81.94	101
Spare tube, length 300 mm		81.94	104
Jet silencer (air filter)		17.21	105
Clamping arm, length 75 mm		241.78	106
Complete set (with magnetic set and clamping arm), weight 0,4 kg		319.06	107

Technical description – operating instruction

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

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

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



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

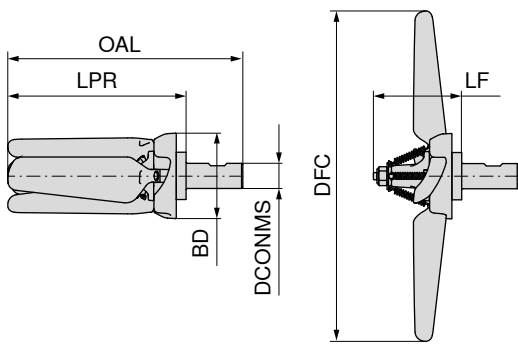
1 Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

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

Cleaning propeller – large

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



IK central

80 399 ...

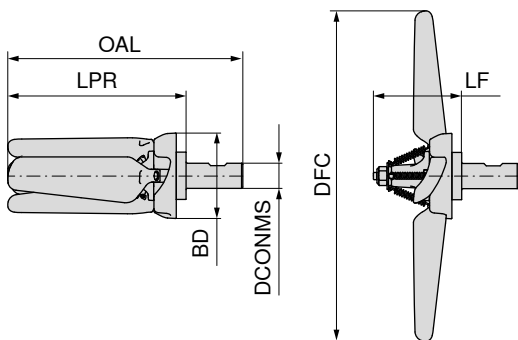
£
Y7

544.45 02000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	186.3	141.3	69.75	254	67.68	5000 - 8000

Cleaning propeller – small

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



IK central

80 399 ...

£
Y7

437.68 16000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	135	90	70	160	68	6000 - 12000

Rotor blade kit



1 rotary blade
and 1 tension
spring

4 rotary blades
and 4 tension
springs

80 399 ...

80 399 ...

Size	£ Y7	£ Y7
groß	66.79 30100	258.13 30200
klein	46.07 36000	184.29 46000

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- | | | | |
|--------------|-----------|----------------------|-----------------|
| ▲ Sauter | ▲ DIN1809 | ▲ Baruffaldi Toem | 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 → [cuttingtools/en/download](http://cuttingtools.en/download)

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options!
With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

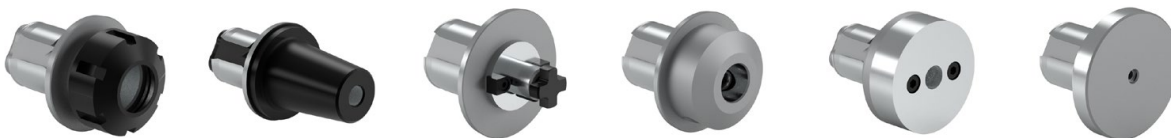
The face & taper contact interface ensures maximum concentricity.
The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



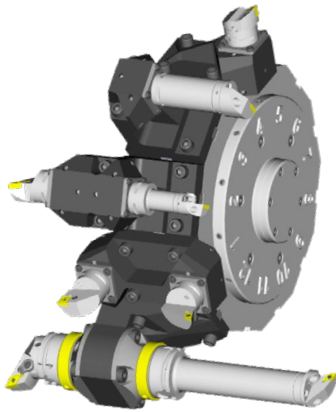
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



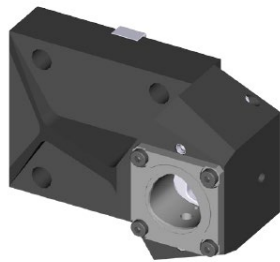
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks.
Also available for static VDI holders and rotating SK and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

Quick-Change

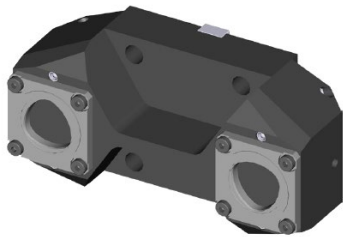


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

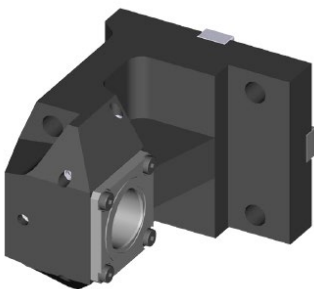
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



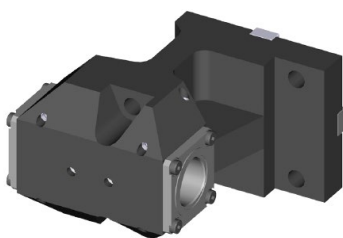
Tool holder
single and straight



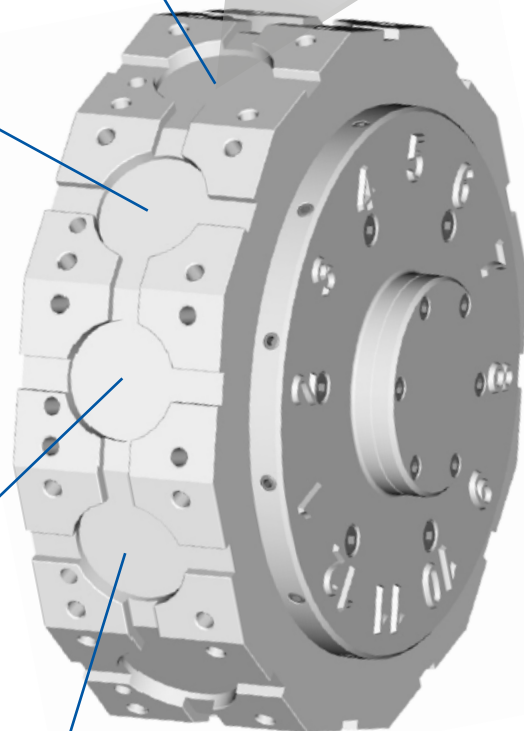
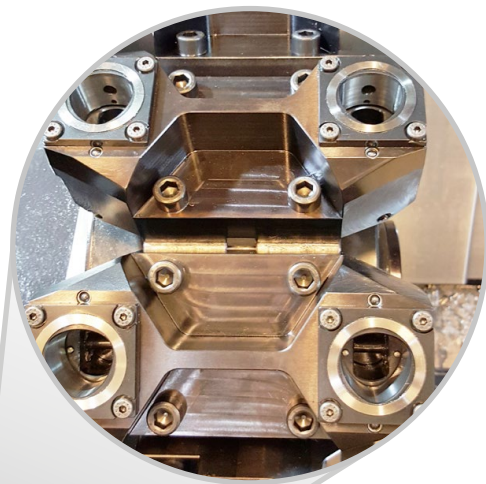
Tool holder double and straight



Single angle tool holder



Double angle tool holder

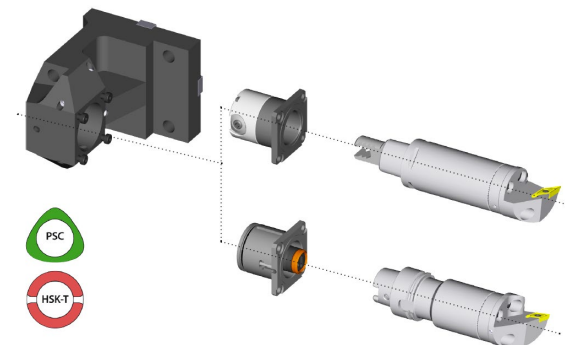


Revolverdisk BMT/VDI/...

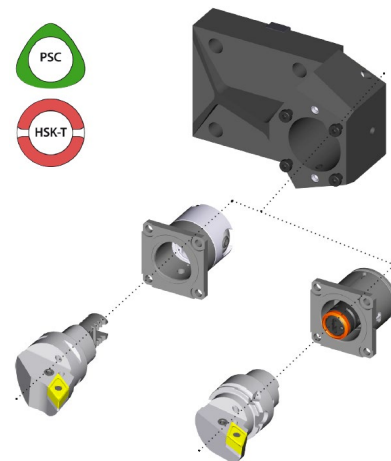
HSK/PSC clamping units

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

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

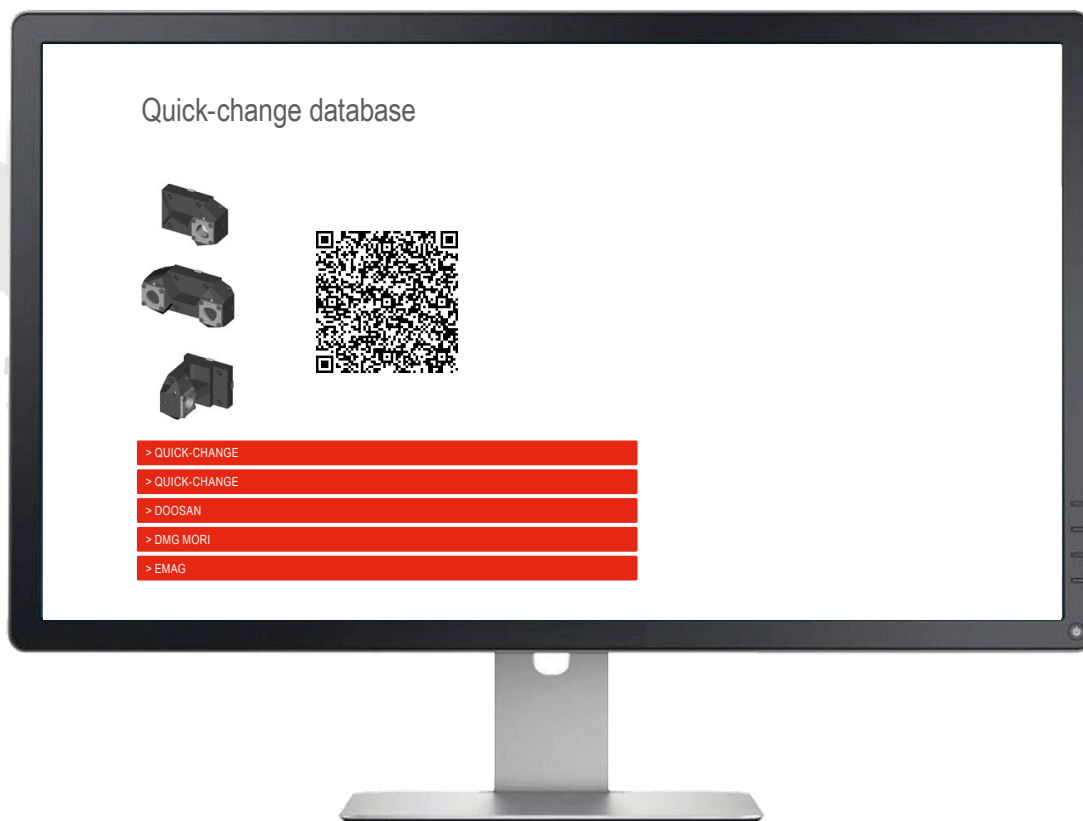


➤ The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



Information on enquiry process

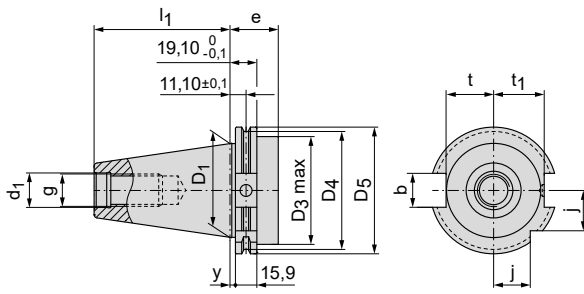
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

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

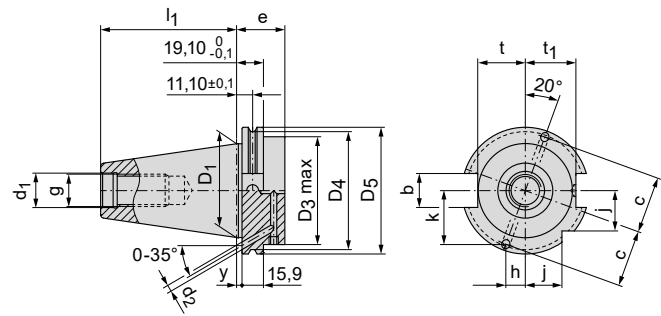
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

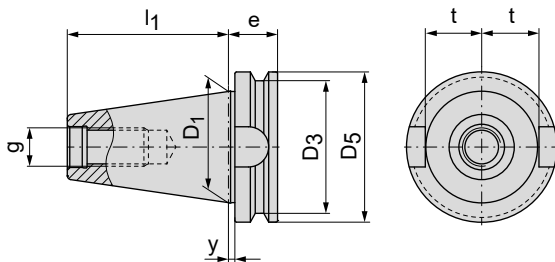


ISO 7388-1 – 871 Form B



	D ₁ mm	D _{3 max} mm	D ₄ mm	D ₅ mm	l ₁ ^{+0.2} 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



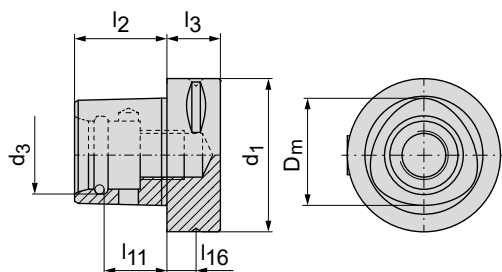
Maximum recommended rpm
for steep taper toolholders:

- 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

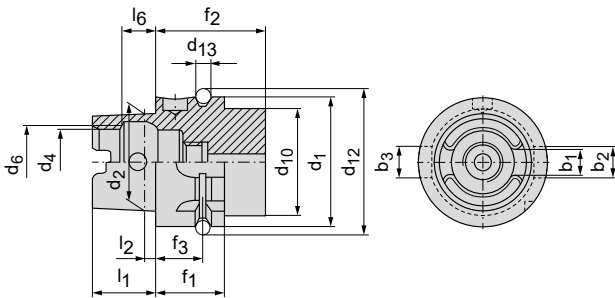
ISO 26623-1



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

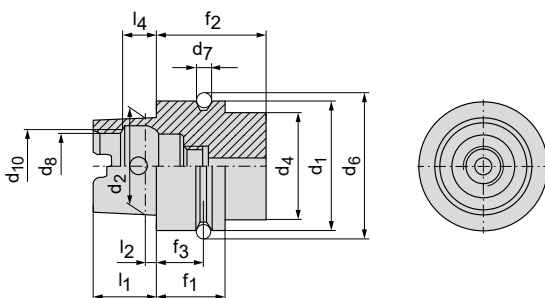
ISO 12164 – HSK-A

- ▲ 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



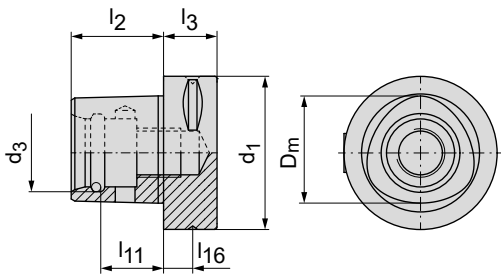
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

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.

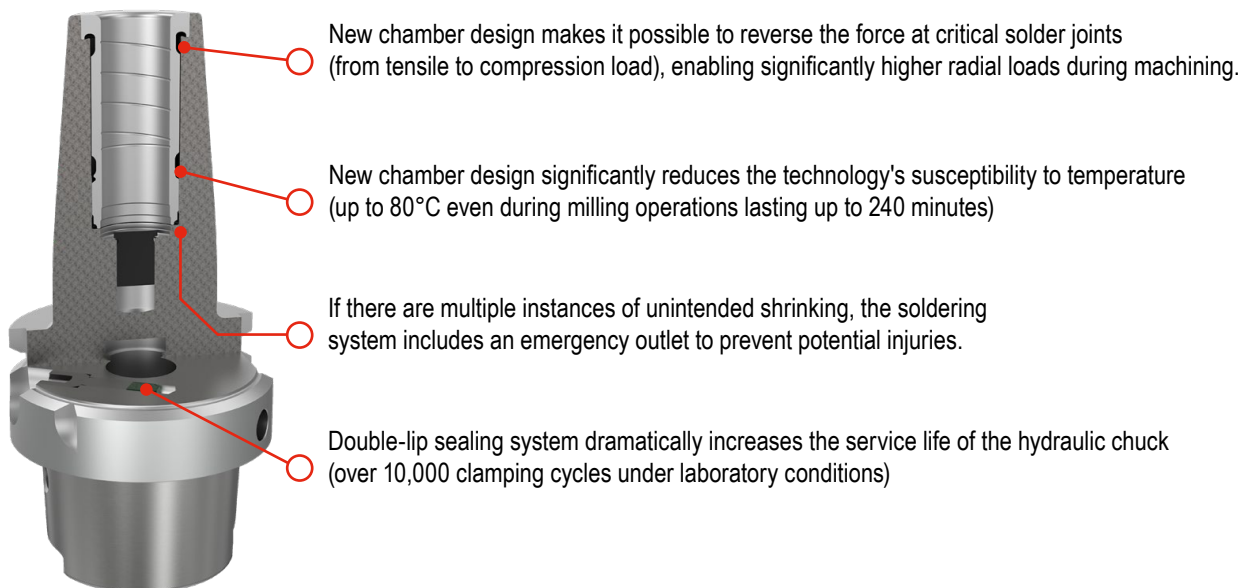
HyPower / HyTens

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	▽▽▽	▽▽	▽	

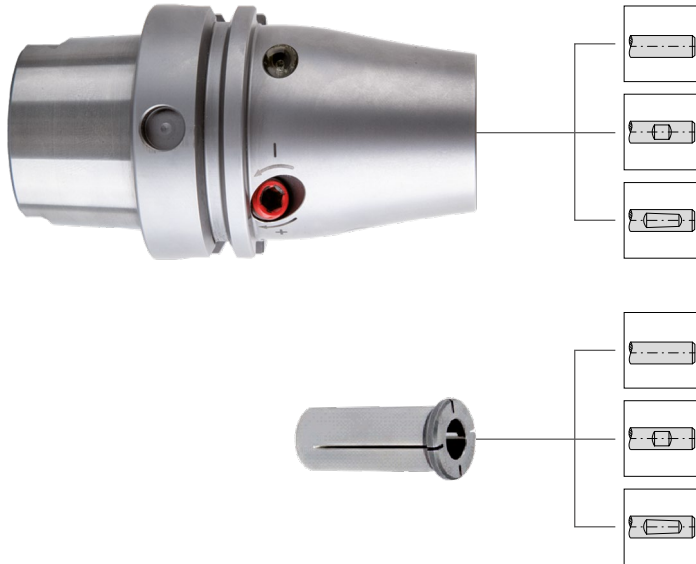
Maximum performance and productivity



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

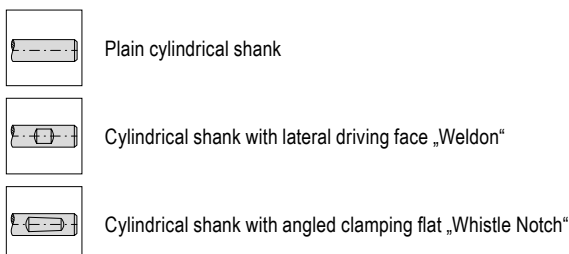
This comparison shows the higher retention forces of the Milling Chuck (**HyPower**). Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. **HyPower** now offers this process reliability.

Key Benefits

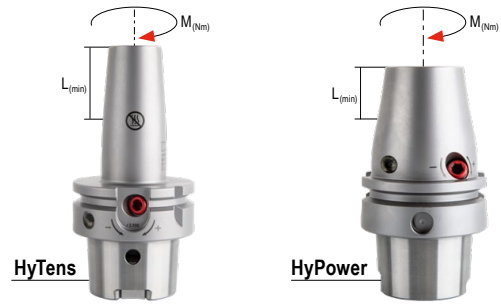
- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

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

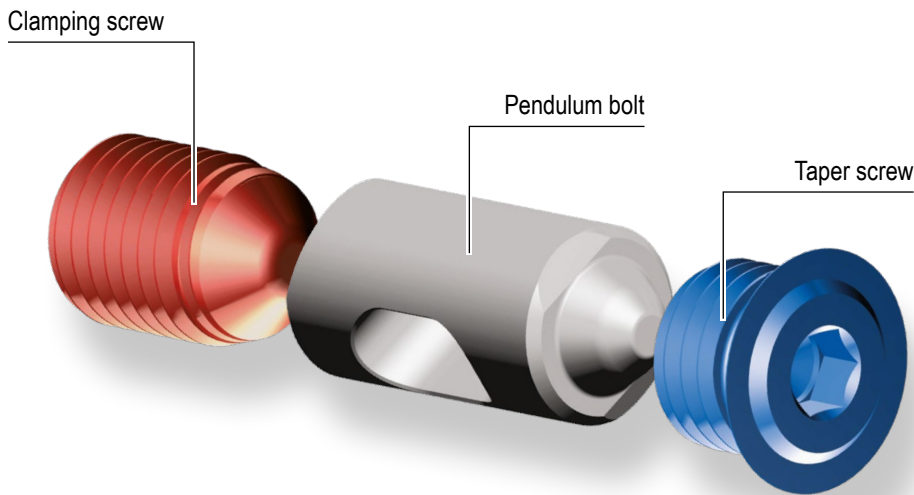


Measurement of the specified clamping forces was performed exclusively statically. The actual clamping forces that arise during machining may deviate due to various influences (vibrations, oscillations, machining situation).

Technical information – ABS

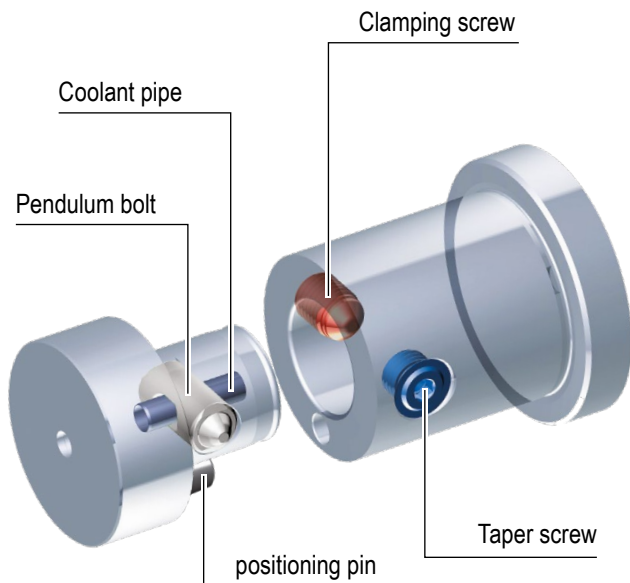
Even better connected









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. Adaptors also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.



Advantages

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



Spare parts ABS								
	Taper screw	Pendulum bolt	Clamping screw	Range 1	Coolant pipe	positioning pin	Range 2	Sealing ring
25	84 950 27000	84 950 26000	84 950 26800	84 950 99700	84 950 24400	84 950 23600	84 950 98900	84 950 30400
32	84 950 27100	84 950 26100	62 950 13989	84 950 99600	84 950 24500	84 950 23700	84 950 98800	84 950 30500
40	84 950 27200	84 950 26200	84 950 26900	84 950 99500	84 950 24600	84 950 23800	84 950 98700	84 950 30600
50	84 950 20400	84 950 20000	84 950 20300	84 950 99800	84 950 20100	84 950 20200	84 950 99900	84 950 30700
63	84 950 27300	84 950 26300	84 950 25500	84 950 99400	84 950 24700	84 950 23900	84 950 98600	84 950 30800
80	84 950 25100	84 950 26400	84 950 25600	84 950 99300	84 950 24800	84 950 24000	84 950 98500	84 950 30900
100	84 950 25200	84 950 26500	84 950 25700	84 950 99200	84 950 24900	84 950 24100	84 950 98400	84 950 31000
125	84 950 25300	84 950 26600	84 950 25800	84 950 99100	84 950 25000	84 950 24200	84 950 98300	
160	84 950 25400	84 950 26700	84 950 25900		84 950 23500	84 950 24300		

DAH compensation holders

- ▲ Compensation systems for μ -precision run-out
- ▲ Simple correction of run-out and axis errors
- ▲ Optimised for high rpm
- ▲ Designed for internal coolant supply
- ▲ Rotary tools provide long tool life

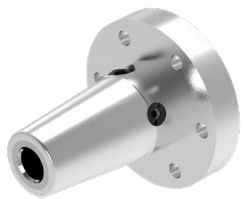


84 327 ...

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 7388-1BT 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 12164SK steep taper per
ISO 7388-1BT steep taper per
ISO 7388-2

A detailed operating manual is available for download in the online shop next to the product.