

New products for machining technicians

NEW Hydraulic chuck



The latest hydro-expansion technology with a newly developed, improved hydro-expansion bush, complements the existing standard portfolio.

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



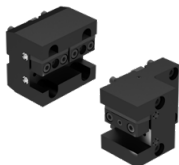
These shell mill adapters, which were developed specially for the MaxiMill 211-KN porcupine cutters, are being added to our product range. Now the porcupine cutters can be securely clamped thanks to the adapted flange diameters.

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	14–296
Technical Information	
Driven Tools	297+298
Quick-Change	299+300
Technical data – ISO 7388-1 / ISO 7388-2 / ISO 26623-1	301
Technical data – ISO 12164	302
Technical Information for Polygon Shank Adapters	303
High Pressure Milling Chuck	304
Static clamping torques and transmittable torques	305+306
Technical information – ABS	307
Compensation holder DAH	308

WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

WNT \ Standard

Quality tools for standard applications.

The quality tools of the **WNT Standard** product line are high quality, powerful and reliable and enjoy the highest trust of our customers worldwide. Tools from this product line are the first choice for many standard applications and guarantee optimal results.

Symbol explanation

Coolant supply version



without coolant supply (Form A)



Coolant supply central
Steep taper Form AD



Coolant supply either via the flange, or central (Form AD/B)



with eroded cooling ducts



Coolant supply centrally or via the collar
with eroded cooling channels



Adapter with two additional coolant holes



Coolant supply centrally or via the collar
also additional coolant holes



Central coolant supply or via a coolant nozzle



specially matched adapter for ThermoGrip® shrinking process

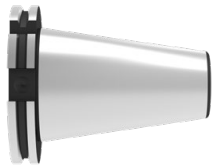


Collet description

- ▲ Type version
- ▲ Radial run-out accuracy

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders

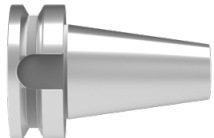


- ▲ SK 30
- ▲ SK 40
- ▲ SK 50
- ▲ SK-FC 50

▶	Toolfinder – Adapters, rotating	6+7
	Product programme	14–59

ISO 7388-2 – MAS-BT taper shank

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

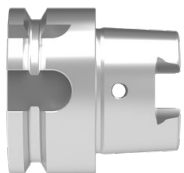


- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

▶	Toolfinder – Adapters, rotating	6+7
	MAS-BT product range	60–98 / 108+109
	MAS-BT-FC product range	99–107

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	110–148 / 152
	HSK-E product range	149–151

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

▶	Toolfinder – Adapters, stationary	8+9
	Product programme	189–191

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

PSC, rotating



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

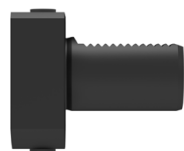
▶	Toolfinder – Adapters, rotating	6+7
	Product programme	153–172

PSC, stationary

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

▶	Toolfinder – Adapters, stationary	8+9
	Product programme	192–198

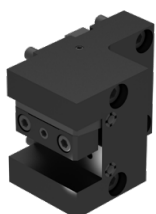
ISO 10889 – VDI tool holders with cylindrical shank



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

▶	Toolfinder – Adapters, stationary	10+11
	Product programme	199–220
	Driven Tools	297+298

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	221–234

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	60-62	99	110-112	149+150	153			246
▲ HDC			17	63	100	113					
High Pressure Milling Chuck											
			18-20	64-66	102	114-116		154			
Hydraulic chuck											
			21+22	67+68	103	117+118			173		242+243
Heat Shrink Adapter											
			23-28	69-73	101	119-126	151	155-157	174		241
Micro-Precision Collet Chuck											
											244
High											
Cylindrical shank adapter											
▲ Weldon			29-31	74+75	104	127+128		158	175		245
▲ Whistle Notch			32+33	76+77		129		159	176+177		
Indexable insert drill adapter											
			34	78		130		160			
Collet Chuck											
▲ Precision Collet chuck – PCC			35	79		131					
▲ ER Collet chuck			36+37	80	105	132+133		161+162	178		247+248
Short drill chuck											
			38	81		134		163	179	237	237
Quick change tapping chuck											
▲ With minimum length compensation			39+40	82+83		135		164	180		238
▲ with length compensation			41	84		136		165	179	239	239
ABS adapters											
			42+43	44	85-87	106	137+138	166+167	183-187		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 308 .								

Main Application
Extended application



Finishing
























Roughing - Finishing



Roughing

Toolfinder – Adaptors, rotating

Holder Type	ISO 7388-1		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
	SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
<div style="display: flex; justify-content: space-around; align-items: center;">         </div>										
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Accuracy</p> <p>Medium</p> </div> <div style="text-align: center;">  </div> </div>										
Adapter for milling cutters with threaded end			45+46	88		139+140	168			249+250
Face mill adapter										
▲ Combination shell mill adapter			47	89		141		182		
▲ Shell mill adapter			48–50	90–92	107	142–144	169	181		
▲ Large diameter facemill adapter			51	93						
Drill chuck adapter									236	
Taper adapter for Morse taper			52	94		145	170		236	
Adapter										
▲ SK			53							
▲ MAS-BT				95						
▲ HSK-A			54	96		146				
▲ PSC			55	97		147	196+197			
Blank			56	98		148	171	188		
Test bar			56	98		148	172			

Main Application
Extended application



Finishing







Roughing - Finishing




Roughing


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





Toolholders for negative turning inserts


	Type	Article no.	Illustration
	Machining		
 CN..	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**

 DN..	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**


 SN..	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		
 CC..	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**


 DC..	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**

 RC..	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**

 VC..	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°		190+191	192
Square shank holder 45°		190+191	193
Square shank holder 90°		190+191	192
Square shank holder 2 face 0°			193
Square shank holder 3 face 0°		191	193
Boring bar holder		191	194

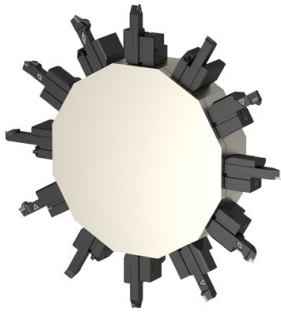
PARTING BLADE HOLDERS

Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Parting blade holder 0°		189	
Parting blade holder 90°		189	192

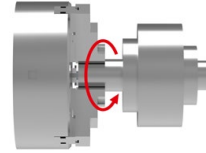
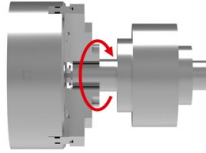
ACCESSORIES





Protection plug			198
Hollow nose keys			198





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 199–201 203–206	B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206
 Parting blade holders / DirectCooling	double 202 210+211	double – overhead 202 210+211
 Adapter VDI to VDI	Left-hand 216	Left-hand 216
 Boring bar holder	Left-hand 216	Left-hand 216

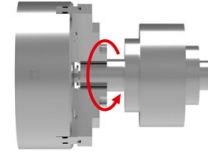
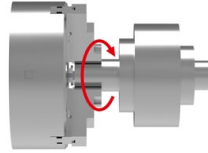
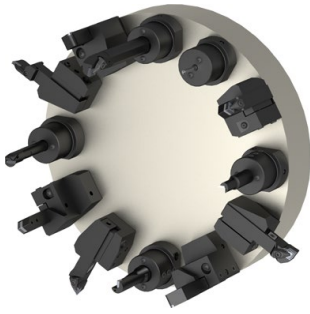
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206	B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206
 Parting blade holders / DirectCooling	double – overhead 202 210+211	double 202 210+211
 Adapter VDI to VDI	Right-hand 216	Right-hand 216
 Boring bar holder	Right-hand 216	Right-hand 216



Toolholders below



Upper turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206	B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206
 Parting blade holders / DirectCooling	double 202 210+211	double – overhead 202 210+211
 Adapter VDI to VDI	Right-hand 216	Right-hand 216
 Boring bar holder	Right-hand 216	Right-hand 216










Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B2/B3/B6/B7/C1/C2/D1/D2 199–201 203–206	B2/B3/B6/B7/C3/C4/D1/D2 199–201 203–206
 Parting blade holders / DirectCooling	double – overhead 202 210+211	double 202 210+211
 Adapter VDI to VDI	Left-hand 216	Left-hand 216
 Boring bar holder	Left-hand 216	Left-hand 216






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 199–201 203–206	B3/B7/C3/C4/D2 199–201 203–206
 Part Off Holder	Right-hand 202 210+211	Overhead right 202 210+211

Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters / DirectCooling	B4/B8/C3/C4/D2 199–201 203–206	B2/B6/C1/C2/D1 199–201 203–206
 Part Off Holder	Overhead left 202 210+211	Left-hand 202 210+211











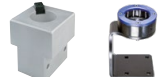











General VDI adapters		
 Cylindrical Shank Adapters	E/E1/E2/E3/E4	206–208
 Taper Adapters	F1	209
 Short drill chuck	NC 2010	212
 ER Collet chuck		209
 Hydraulic chuck		213
 VDI to PSC adapter		217
 VDI to HSK-T adapter		218
 VDI adapter with ABS-N connection	This article can be found in our online shop at cuttingtools.ceratizit.com	 84 231 ...

Accessories		
 Test arbors		214
 Tool holders		214
 Bar pullers		219
 Gripper accessories		220
 Protection plug		220

Toolfinder – Adaptors, stationary – BMT tool holders

Doosan/Spinner – BMT 45				Mori/Seiki – BMT 40					
	Axial square section tool holder	Left-hand		221		Axial square section tool holder	Left-hand		229
	Square section adapter	Left-hand		221		Square section adapter	Left-hand		229
	Square multiple tool holder			222		Square multiple tool holder			230
	Combi tool holder	with thro' coolant		222		Combi tool holder	with thro' coolant		230
Doosan – BMT 55				Mori/Seiki – BMT 60					
	Axial square section tool holder	Left-hand		223		Axial square section tool holder	Left-hand		231
	Square section adapter	Left-hand		223		Square section adapter	Left-hand		231
	Square multiple tool holder			224		Square multiple tool holder			232
	Boring bar holder	with thro' coolant		224		Combi tool holder	with thro' coolant		232
EMAG – BMT 55				Mazak – BMT 68					
	Axial square section tool holder	Left-hand		225		Axial square section tool holder	Left-hand		233
	Square section adapter	Left-hand		225		Square section adapter	Left-hand		233
	Boring bar holder	with thro' coolant		226		Square multiple tool holder			234
	Combi tool holder	with thro' coolant				Combi tool holder	with thro' coolant		234
HAAS/Doosan – BMT 65									
	Axial square section tool holder	Left-hand		227					
	Square section adapter	Left-hand		227					
	Square multiple tool holder			228					
	Combi tool holder	with thro' coolant		228					

Toolfinder – accessories

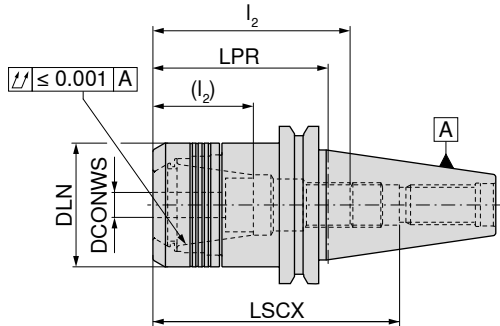
Type		Page No.	Type		Page No.	
Pull stud	SK	57-59	Spare parts for VDI		258-260	
	MAS-BT	108+109		Spare parts driven tools		261
	PSC	172			Quick change applications	
Coolant pipe/key	HSK-A	152	Reduction sleeve and reducing bushings			276+277
	PSC	172		3D tester and zero setting device		293+294
Drill chuck with internal taper		235	Cleaning propeller			296
Tap clamping sleeve for Weldon adapters		240		TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		288-292
Extension for Shell mill arbors		256	Assembly device for SK, HSK and PSC adapters			278
Milling adapter ring		257		MultiChange - Holder		253-255
Lock nuts ER-Standard and ER-Mini		281	MultiChange key			287
Y clamping key and ER-Mini clamping key		281		Cool-jet		295
Spare parts Centro-P		279	Taper wiper			278
Roll key		280				
ER collets		262-272				
Sealing discs		274+275				

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

84 424 ...

84 414 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet		
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	016	
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	102	
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103	
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)		510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)		910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)		816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	162	
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	163	
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)		516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)		916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	201	
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	202	
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	203	
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)		620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)		920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	261 ¹⁾	
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	167	
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)		320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)		520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)		52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)		720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)		26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)		26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)		26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)		26900

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

→ Transmittable torque moments, Page 306

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

Spare parts ER precision collet chuck – Centro-P

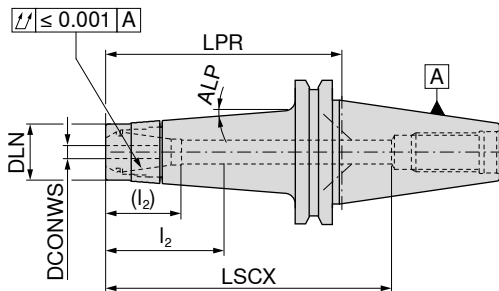
	84 950 ...	84 950 ...		83 950 ...	83 950 ...
Spare parts for collet					
426E (ER16)	011	001	M11x1 - SW6	341	M11x1 - SW6
430E (ER25)	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6
470E (ER32)	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6
472E (ER40)	017	007			400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



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

84 417 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4,5°	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)	3,5°	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2,5°	910

→ Transmittable torque moments, Page 306

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

Accessories

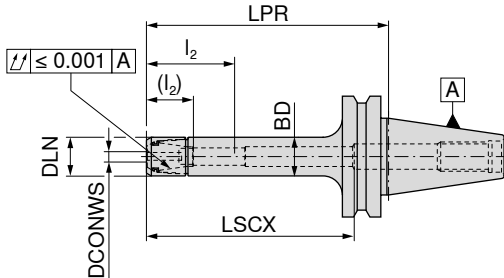
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 262-269, 273	→ 274	→ 280	→ 280	→ 57, 59	→ 278

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	I_2 (I_2) mm	for collet	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	510

→ Transmittable torque moments, Page 306

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

Spare parts for collet	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
4008E (ER11)	84 950 ...	84 950 ...	83 950 ...	83 950 ...
426E (ER16)	035	041	340	336
		034	341	337
		M8x1 - SW4	M8x1 - SW4	
		M11x1 - SW6	M11x1 - SW6	

Accessories

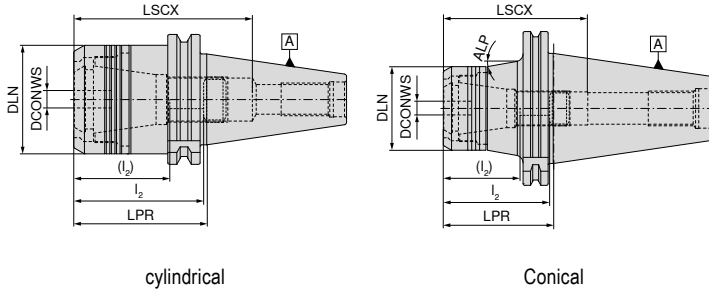
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 262-269, 273	→ 274	→ 279	→ 280	→ 280	→ 57, 59	→ 278

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

84 400 ...



AD
G 6,3 p_{max} 18000

conical

84 400 ...

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






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

Spare parts

DCONWS

2 - 20

		
84 950 ...	83 950 ...	83 950 ...
30100	M22x1,5 - SW6	402
		M22x1,5 - SW6
		401

Accessories

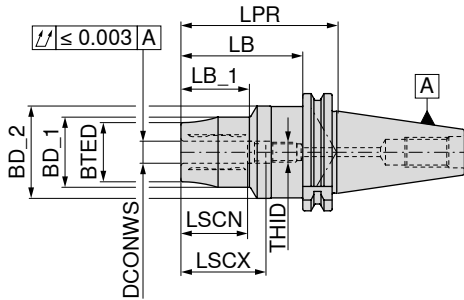
				
ER collet	Roll key	Roll key device	Pull studs	Others
→ 262-270, 272-273	→ 280	→ 280	→ 57, 59	→ 278

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 422 ...

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

→ Min. clamping depth, Page 306



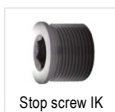
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts

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

Accessories

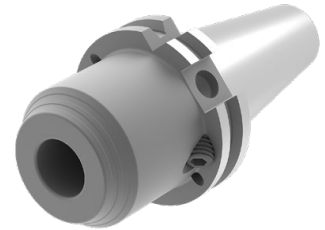
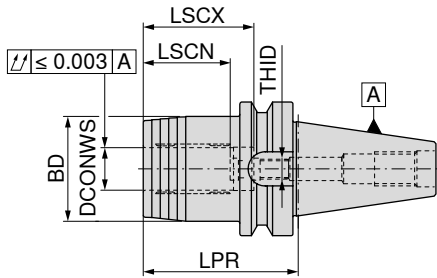
Reduction sleeve	Pull studs	Others
→ 276	→ 57, 59	→ 278

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



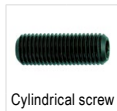
AD/B
G 2,5 n_{max} 25000

83 427 ...

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

120

→ Min. clamping depth, Page 306



Cylindrical screw

83 950 ...



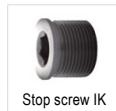
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

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

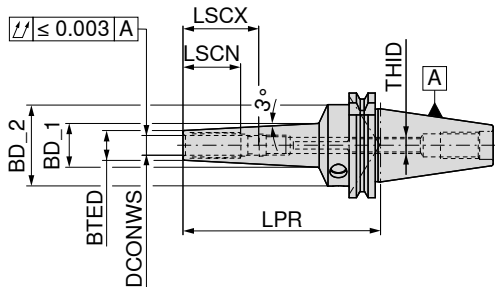
Reduction sleeve	Pull studs	Others
→ 276	→ 57, 59	→ 278

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

→ Min. clamping depth, Page 306



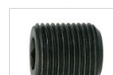
Cylindrical screw

83 950 ...



Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

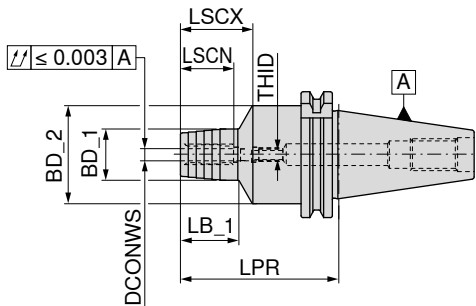
83 421 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 105	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 421 106	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 421 108	M5x5 - SW2,5	157	SW5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

Hydraulic chuck, short and slim version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

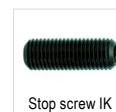
83 402 ...

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

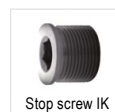
→ Min. clamping depth, Page 306



Pressure screw



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

83 950 ...

Spare parts

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

Accessories

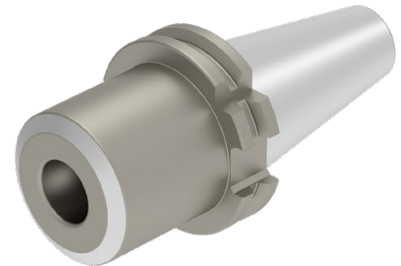
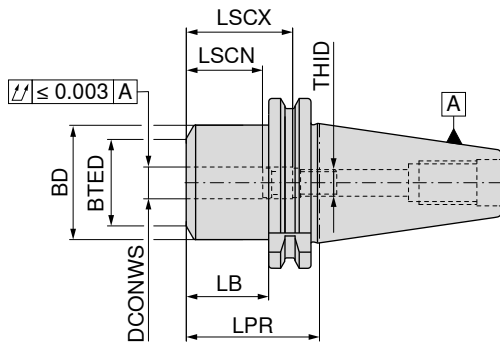
Reduction sleeve	Pull studs	Others
→ 276	→ 57, 59	→ 278

Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 430 ...

Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCN mm	LSCX mm	THID	
SK 40	12	50,0	42	32	31,0	46	56	M8x1	01279
SK 40	20	64,5	49	38	45,5	41	51	M16x1	02079
SK 50	20	64,5	49	38	45,5	41	51	M16x1	02078

→ Min. clamping depth, Page 306



80 397 ...



83 950 ...



83 950 ...

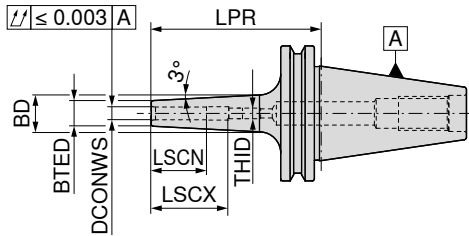
Spare parts

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

Heat shrink adapter, slim 3°

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

TG

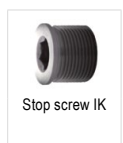
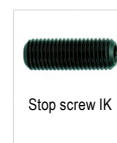


AD/B
G 2,5 n_{max} 25000

84 320 ...

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

→ Min. clamping depth, Page 306



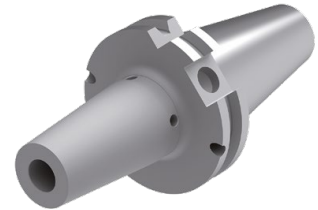
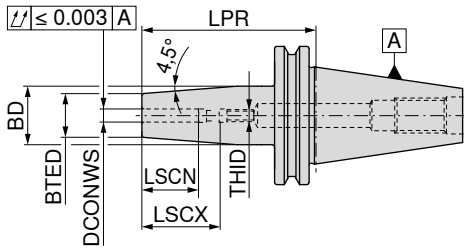
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



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

84 300 ...

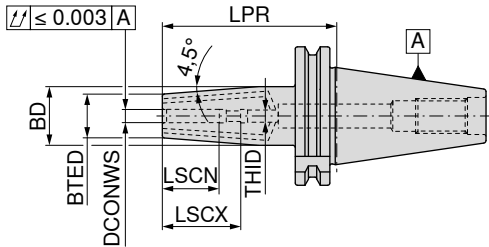
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	SK 40	3	80	10	17	22	12	M6	103
	SK 40	4	80	15	22	26	16	M6	104
	SK 40	5	80	15	22	30	20	M6	105
	SK 40	6	80	21	27	36	26	M5	106
	SK 40	8	80	21	27	26	26	M6	108
	SK 40	10	80	24	32	41	31	M8x1	110
	SK 40	12	80	24	32	47	37	M10x1	112
	SK 40	14	80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

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

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

TG

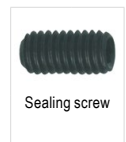
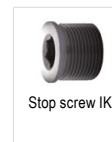
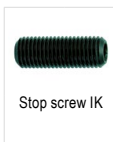


AD/B – 2KMB
G 2,5 n_{max} 25000

84 317 ...

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

→ Min. clamping depth, Page 306



Spare parts

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

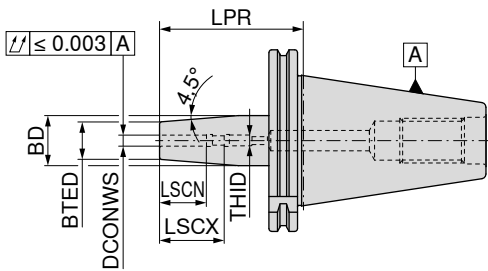
Accessories

Shrink fit extension	Pull studs	Others
→ 241	→ 57, 59	→ 278

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

→ Min. clamping depth, Page 306



83 950 ...

Spare parts
DCONWS

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

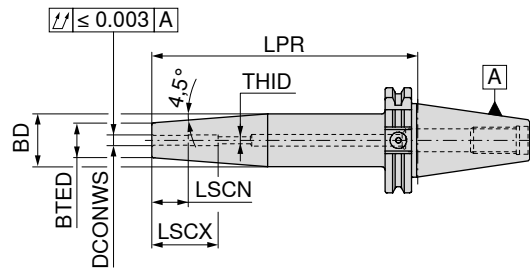
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG



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

82 310 ...

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

→ Min. clamping depth, Page 306

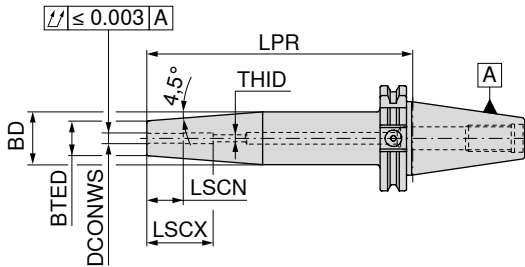
Shrink fit adapters 4.5°

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

→ Min. clamping depth, Page 306



Stop screw IK

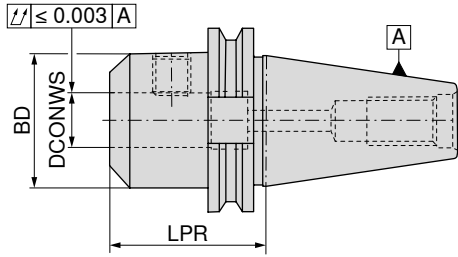
82 950 ...

Spare parts
DCONWS

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

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 25000

82 401 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	SK 30	6	50	25	00600
	SK 30	8	50	28	00800
	SK 30	10	50	35	01000
	SK 30	12	50	42	01200
	SK 30	14	63	44	01400
	SK 30	16	63	48	01600
	SK 30	18	63	50	01800
	SK 30	20	70	52	02000
extra short	SK 40	16	35	48	416
	SK 40	20	35	50	420
	SK 40	25	40	50	425 ¹⁾
	SK 40	32	75	72	43200 ¹⁾

1) Version with two grub screws

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

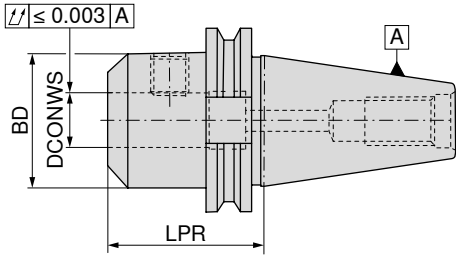
	83 950 ...	62 950 ...
Spare parts		
DCONWS_{H4}		
6		M6x10 006
8		M8x10 008
10		M10x12 010
12		M12x16 012
14		M12x16 012
16		M14x16 016
18		M14x16 016
20		M16x16 020
25	M16x10 275	M18x2x20 025
32	M14x10 259	M20x2x20 032

Accessories

Pull studs	Others
→ 57, 59	→ 278

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



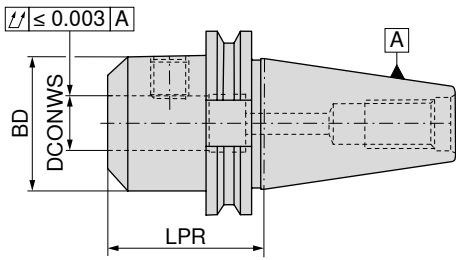
AD/Be
G 2,5 n_{max} 25000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
short	SK 40	6	50	25	106		106	
	SK 40	8	50	28	108		108	
	SK 40	10	50	35	110		110	
	SK 40	12	50	42	112		112	
	SK 40	14	50	44	114		114	
	SK 40	16	63	48	116		116	
	SK 40	18	63	50	118		118	
	SK 40	20	63	52	120		120	
	SK 40	25	100	65	125 ¹⁾		125 ¹⁾	
	SK 40	32	100	72	132 ¹⁾		13200 ¹⁾	
	SK 40	40	120	90	14000 ¹⁾			
short	SK 50	6	63	25	306		30600	
	SK 50	8	63	28	308		30800	
	SK 50	10	63	35	310		31000	
	SK 50	12	63	42	312		31200	
	SK 50	14	63	44	314		31400	
	SK 50	16	63	48	316		31600	
	SK 50	18	63	50	318		31800	
	SK 50	20	63	52	320		32000	
	SK 50	25	80	65	325 ¹⁾		32500 ¹⁾	
	SK 50	32	100	72	332 ¹⁾		33200 ¹⁾	
	SK 50	40	120	90	34000 ¹⁾			
medium length	SK 40	6	100	25	506		50600	
	SK 40	8	100	28	508		50800	
	SK 40	10	100	35	510		51000	
	SK 40	12	100	42	512		51200	
	SK 40	14	100	44	514		51400	
	SK 40	16	100	48	516		51600	
	SK 40	18	100	50	518		51800	
	SK 40	20	100	52	520		52000	
	SK 40	40	120	80			54000 ¹⁾	
		SK 50	6	100	25	70600		
	SK 50	8	100	28	70800			
	SK 50	10	100	35	71000			
	SK 50	12	100	42	71200			
	SK 50	14	100	44	71400			
	SK 50	16	100	48	71600			
	SK 50	18	100	50	71800			
	SK 50	20	100	52	72000			
	SK 50	25	100	65	72500 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



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

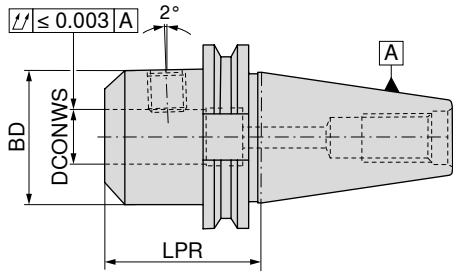
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm			
long	SK 40	6	130	25			
	SK 40	8	130	28			
	SK 40	10	130	35			
	SK 40	12	130	42			
	SK 40	14	130	44			
	SK 40	16	130	48			
	SK 40	18	130	50			
	SK 40	20	130	52			
	SK 50	6	130	25		82 401 ...	82 404 ...
	SK 50	8	130	28		206	206
	SK 50	10	130	35		208	208
	SK 50	12	130	42		210	210
	SK 50	14	130	44		212	212
	SK 50	16	130	48		214	214
	SK 50	18	130	50		216	216
	SK 50	20	130	52		218	218
SK 50	25	130	65		220	220	
extra-long	SK 40	6	160	25			
	SK 40	8	160	28			
	SK 40	10	160	35			
	SK 40	12	160	42			
	SK 40	14	160	44			
	SK 40	16	160	48			
	SK 40	18	160	50			
	SK 40	20	160	52			
	SK 40	25	160	65			
	SK 50	6	160	25		90600	90600
	SK 50	8	160	28		90800	90800
	SK 50	10	160	35		91000	91000
	SK 50	12	160	42		91200	91200
	SK 50	14	160	44		91400	91400
	SK 50	16	160	48		91600	91600
	SK 50	18	160	50		91800	91800
	SK 50	20	160	52		92000	92000
	SK 50	25	160	65		92500 ¹⁾	92500 ¹⁾
	SK 50	32	160	72		92500 ¹⁾	92500 ¹⁾

1) Version with two grub screws

Spare parts and accessories on → Page 33.

Cylindrical Shank Adapter (Whistle Notch)

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



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

82 407 ...



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	SK 40	6	50	25	106
	SK 40	8	50	28	108
	SK 40	10	50	35	110
	SK 40	12	50	42	112
	SK 40	14	50	44	114
	SK 40	16	63	48	116
	SK 40	18	63	50	118
	SK 40	20	63	52	120
	SK 40	25	100	65	12500 ¹⁾
	SK 40	32	100	72	13200 ¹⁾
	SK 50	6	63	25	30600
	SK 50	8	63	28	30800
	SK 50	10	63	35	31000
	SK 50	12	63	42	31200
	SK 50	14	63	44	31400
	SK 50	16	63	48	31600
	SK 50	18	63	50	31800
	SK 50	20	63	52	32000
SK 50	25	80	65	32500 ¹⁾	
SK 50	32	100	72	33200 ¹⁾	
long	SK 40	6	130	25	206
	SK 40	8	130	28	208
	SK 40	10	130	35	210
	SK 40	12	130	42	212
	SK 40	16	130	48	216
	SK 40	20	130	52	220
	SK 40	25	130	65	225 ¹⁾
	SK 50	6	130	25	90600
	SK 50	8	130	28	90800
	SK 50	10	130	35	91000
	SK 50	12	130	42	91200
	SK 50	16	130	48	91600
	SK 50	20	130	52	92000
	SK 50	25	130	65	92500 ¹⁾
	SK 50	32	130	72	93200 ¹⁾

1) Version with two grub screws

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

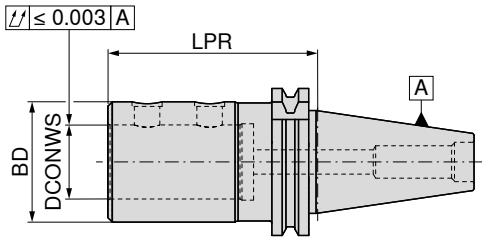
Spare parts DCONWS _{H4}		62 950 ...		83 950 ...	
			Grubscrew		Stop screw IK
6	M6x10	006	M5x35	033	
8	M8x10	008	M6x35	034	
10	M10x12	010	M8x35	035	
12 - 14	M12x16	012	M10x35	036	
16 - 18	M14x16	016	M12x40	037	
20	M16x16	020	M16x45	272	
25	M18x2x20	025	M20x35	290	
32	M20x2x20	032	M20x35	290	

Accessories

	
Pull studs	Others
→ 57, 59	→ 278

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



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

10 840 ...

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

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



Grubscrew

10 950 ...

Spare parts

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

Accessories

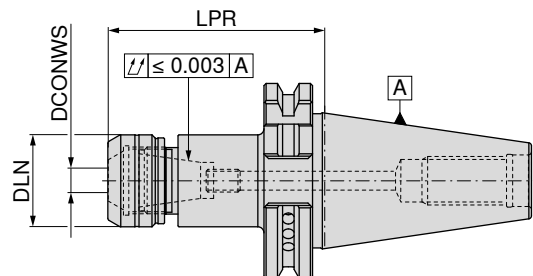
Pull studs	Others
→ 57, 59	→ 278

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

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

Spare parts for collet

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

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

Accessories

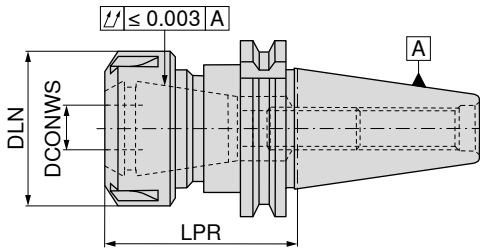
ER collet	Sealing ring	Roll key
→ 262-270, 272-273	→ 275	→ 280

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


82 415 ...

82 415 ...





	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet			
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	01000		
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	01600		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	02000		
	SK 40	1 - 10	60	22	8 - 56	426E (ER16 mini)		11179	
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)		110	
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		116	
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		120	
	SK 40	3 - 26	70	63	176	472E (ER40)		126	
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)		31000	
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		31600	
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		32000	
	SK 50	3 - 26	70	63	176	472E (ER40)		32600	
	medium length	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	21000	
		SK 30	1 - 16	100	42	24 - 104	430E (ER25)	21600	
		SK 30	2 - 20	100	50	24 - 136	470E (ER32)	22000	
SK 40		1 - 10	120	22	8 - 56	426E (ER16 mini)		21179	
SK 40		1 - 10	120	32	8 - 56	426E (ER16)		410	
SK 40		1 - 16	120	42	24 - 104	430E (ER25)		416	
SK 40		2 - 20	120	50	24 - 136	470E (ER32)		420	
SK 40		3 - 26	100	63	176	472E (ER40)		42600	
SK 50		1 - 10	100	32	8 - 56	426E (ER16)		71000	
SK 50		1 - 16	100	42	24 - 104	430E (ER25)		71600	
SK 50		2 - 20	100	50	24 - 136	470E (ER32)		72000	
SK 50		3 - 26	100	63	176	472E (ER40)		72600	
extra-long		SK 40	1 - 10	160	32	8 - 56	426E (ER16)		61000
		SK 40	2 - 16	160	42	24 - 104	430E (ER25)		61600
		SK 40	2 - 20	160	50	24 - 136	470E (ER32)		62000
	SK 40	3 - 26	160	63	176	472E (ER40)		62600	
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		81600	
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		82000	

Spare parts ER collet chucks

	 Lock nut IK	 Lock nut	 Y clamping key	 ER Mini clamping key	 Mini lock nut	 Mini IK	 Stop screw IK	 Stop screw IK
	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...	83 950 ...
Spare parts for collet								
426E (ER16 mini)				101	066	058	30000	
426E (ER16)	054	054	116					010
430E (ER25)	055	055	125					010
470E (ER32)	056	056	132					010
472E (ER40)	057	057	140					011

 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

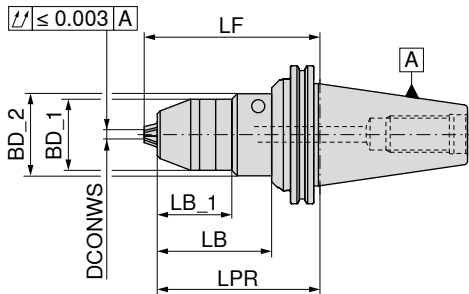
			
ER collet	Sealing ring	Pull studs	Others
→ 265, 267-270, 272	→ 274	→ 57, 59	→ 278

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000

84 418 ...



AD
G 6,3 n_{max} 10000

84 419 ...

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

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

Accessories



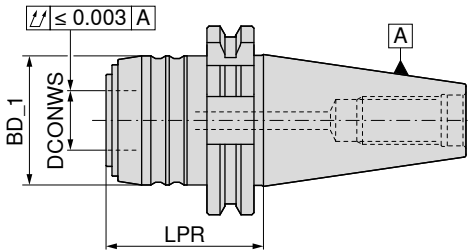
Others
→ **278**

Synchro tapping chuck with minimum length compensation

- ▲ For collet
- ▲ With length compensation under tension and compression (LZD)
- ▲ for synchro use
- ▲ $p_{max.} = 50$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

Without insert





AD

83 416 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	
SK 40	M3 - M12	1	53	43	20	1,0 / 0,2	012
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	120

Accessories

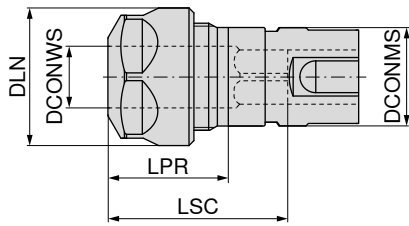
	
Pull studs	Others
→ 57, 59	→ 278

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

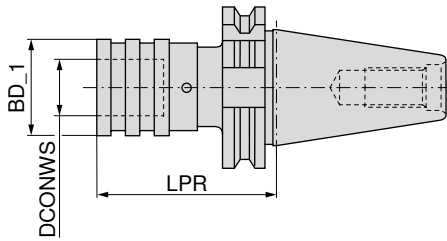
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

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

Quick change tap chuck with length compensation

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



A

83 428 ...

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

Accessories

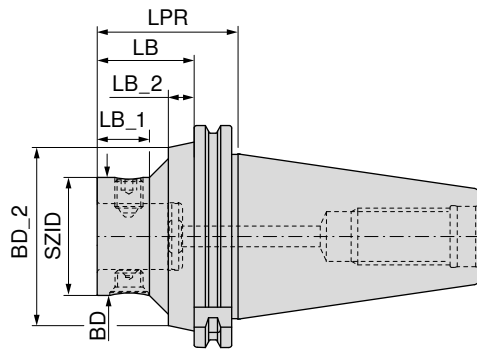
		
Collet	Pull studs	Others
→ 282, 284–286	→ 57, 59	→ 278

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



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

84 201 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	LB_2	BD_2	
			mm	mm	mm	mm	mm	mm	
SK 40	A50 55120	ABS 25		50	30,9	20,0	7,9	50	04090
SK 40	A50 55130	ABS 32		50	30,9	20,0	7,9	50	04089
SK 40	A50 55140	ABS 40		50	30,9	20,0		50	04088
SK 40	A50 55150	ABS 50	50	50	30,9				04097
SK 40	A50 55160	ABS 63		90	70,9		15,9	50	04096
SK 50	A50 55320	ABS 25		60	40,9	20,0	12,9	80	05090
SK 50	A50 55330	ABS 32		60	40,9	20,0	12,9	80	05089
SK 50	A50 55340	ABS 40		60	40,9	20,0	12,9	80	05088
SK 50	A50 55350	ABS 50		60	40,9	22,0	10,9	80	05097
SK 50	A50 55360	ABS 63		60	40,9	30,4	7,3	80	05096
SK 50	A50 55370	ABS 80	80	70	50,9				05092
SK 50	A50 55380	ABS 100		115	95,9		15,9	80	05091

Conversion kit – SK



84 950 ...

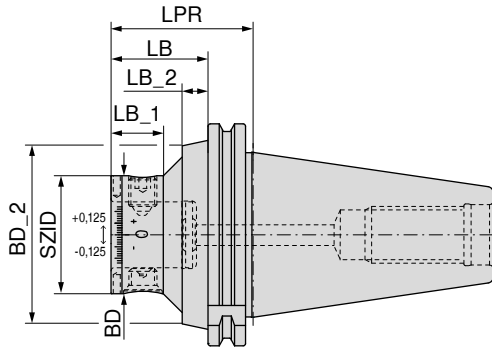
for	Adapter	
4 mm	SK 40	23200
6 mm	SK 50	23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



AD/B

84 204 ...

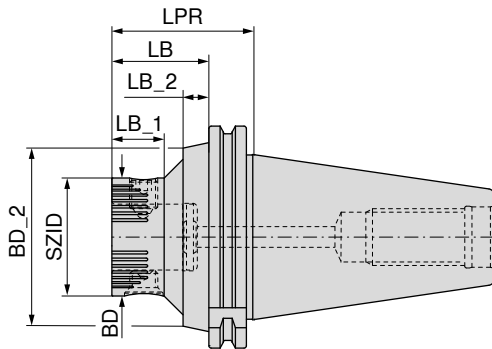
Adapter	KOMET no.	SZID	BD mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	
SK 40	A50 56150	ABS 50	50	50	30,9				04097
SK 40	A50 56160	ABS 63		90	70,9		15,9	50	04096
SK 50	A50 56350	ABS 50		60	40,9	22,0	10,9	80	05097
SK 50	A50 56360	ABS 63		60	40,9	30,4	7,3	80	05096

Torsional vibration dampers with ABS Connection

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

Scope of supply:

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



AD/B

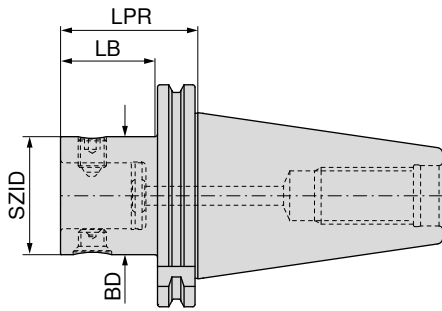
84 207 ...

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			04097
SK 40	A50 01361	ABS 63		90	50	70,9		15,9	04096
SK 50	A50 01451	ABS 50		60	80	40,9	22,0	10,9	05097
SK 50	A50 01461	ABS 63		60	80	40,9	30,4	7,3	05096
SK 50	A50 01470	ABS 80	80	70		50,9			05092

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 ...
05073
06373
08073
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 ...



Taper screw

84 950 ...

Spare parts

SZID

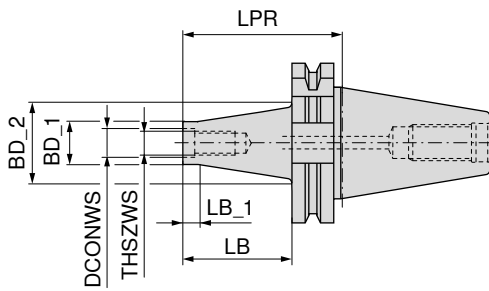
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100
ABS 100	25700	25200

Accessories

		
Pull studs	Extension	Others
→ 57, 59	→ 183	→ 278

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 705 ...



AD
G 16 n_{max} 8000

56 707 ...

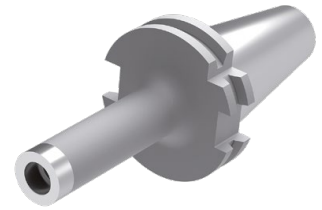
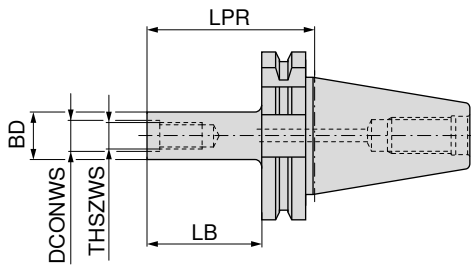
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	
		mm	mm	mm	mm	mm	mm	
SK 40	M8	8,5	25	13,8	15	12	44	081
SK 40	M8	8,5	50	13,8	23	12	69	082
SK 40	M8	8,5	75	13,8	25	12	94	083
SK 40	M10	10,5	25	18,0	23	12	44	101
SK 40	M10	10,5	50	18,0	25	12	69	102
SK 40	M10	10,5	75	18,0	30	12	94	103
SK 40	M10	10,5	100	18,0	35	12	119	104
SK 40	M12	12,5	25	21,0	24	12	44	121
SK 40	M12	12,5	50	21,0	30	12	69	122
SK 40	M12	12,5	75	21,0	35	12	94	123
SK 40	M12	12,5	100	21,0	38	12	119	124
SK 40	M16	17,0	25	29,0	29	12	44	161
SK 40	M16	17,0	50	29,0	34	12	69	162
SK 40	M16	17,0	75	29,0	35	12	94	163
SK 40	M16	17,0	100	29,0	40	12	119	164
SK 40	M16	17,0	125	29,0	44	12	144	165
SK 40	M16	17,0	150	29,0	48	12	169	166
SK 40	M16	17,0	200	29,0	50	12	219	167
SK 50	M12	12,5	50	21,0	30	12	69	122
SK 50	M12	12,5	100	21,0	38	12	119	124
SK 50	M12	12,5	150	21,0	52	12	169	126
SK 50	M16	17,0	50	29,0	34	12	69	162
SK 50	M16	17,0	100	29,0	40	12	119	164
SK 50	M16	17,0	150	29,0	48	12	169	166
SK 50	M16	17,0	200	29,0	58	12	219	167
SK 50	M16	17,0	250	29,0	62	12	269	168

Accessories

Extension-Reduction set → 251	Pull studs → 57, 59	Others → 278

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 709 ...

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

Accessories

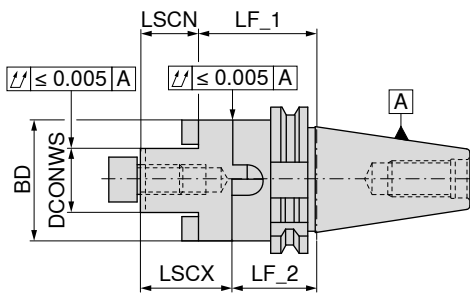
Extension-Reduction set → 251	Pull studs → 57, 59	Others → 278

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

82 429 ...

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

1) With cross screw



83 950 ... **83 370 ...** **83 368 ...** **83 367 ...** **83 950 ...**

Spare parts

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

Accessories

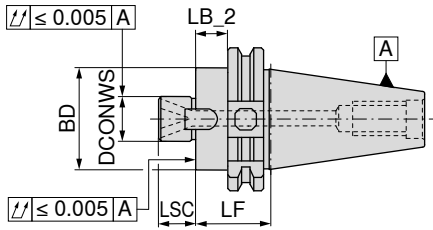
Pull studs	Milling Adapter Rings	Others
→ 57, 59	→ 257	→ 278

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog



NEW

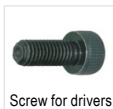


AD
G 2,5 n_{max} 25000

82 315 ...

short	Adapter	DCONWS	LB_2	LF	BD	LSC	
		mm	mm	mm	mm	mm	
	SK 40	22	41	60	38	19	12279
	SK 40	27	25	44	48	21	12779
	SK 50	22	41	60	38	19	12278
	SK 50	27	25	44	48	21	12778

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

83 950 ...

83 950 ...

83 950 ...

Spare parts

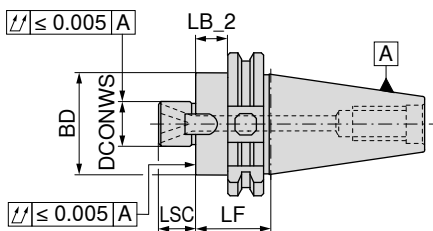
DCONWS						
22	M4x8	51700	10x7x20,5	51500	M10x25	124
27	M5x8	51800	12x9x24,3	51600	M12x30	125

Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



A

G 2,5 n_{max} 25000



AD/B

G 2,5 n_{max} 25000

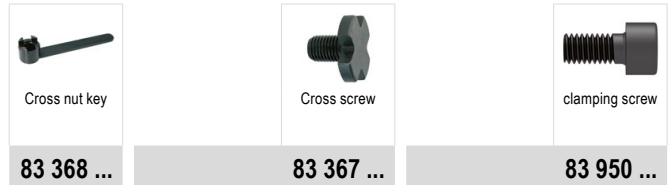
82 428 ...

82 428 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	SK 30	16	21,0	40	38	17		01600
	SK 30	22	14,6	50	48	19		02200
	SK 30	27	19,3	55	58	21		02700
	SK 30	32	31,0	50	78	24		03200
	SK 40	16	25,0	44	38	17		
	SK 40	22	25,0	44	48	19		116
	SK 40	27	36,0	55	58	21		127
	SK 40	32	31,0	50	78	24		132
	SK 40	40	31,0	50	88	27		140 ¹⁾
	SK 50	16	25,0	44	38	17		
SK 50	22	25,0	44	48	19		316	
SK 50	27	25,0	44	58	21		322	
SK 50	32	21,0	40	78	24		327	
SK 50	40	31,0	50	88	27		332	
SK 50							340 ¹⁾	
medium length	SK 40	16	81,0	100	38	17		416
	SK 40	22	81,0	100	48	19		422
	SK 40	27	81,0	100	58	21		427
	SK 40	32	81,0	100	78	24		432
	SK 40	40	81,0	100	88	27		440 ¹⁾
	SK 50	16	81,0	100	38	17		616
	SK 50	22	81,0	100	48	19		622
	SK 50	27	81,0	100	58	21		627
	SK 50	32	81,0	100	78	24		632
	SK 50	40	81,0	100	88	27		640 ¹⁾
long	SK 40	16	111,0	130	38	17		816
	SK 40	22	111,0	130	48	19		822
	SK 40	27	111,0	130	58	21		827
	SK 40	32	111,0	130	78	24		832
	SK 40	40	111,0	130	88	27		840 ¹⁾
	SK 50	16	111,0	130	38	17		916
	SK 50	22	111,0	130	48	19		922
	SK 50	27	111,0	130	58	21		927
	SK 50	32	111,0	130	78	24		932
	SK 50	40	111,0	130	88	27		940 ¹⁾
extra-long	SK 40	16	141,0	160	38	17		516
	SK 40	22	141,0	160	48	19		522
	SK 40	27	141,0	160	58	21		527
	SK 40	32	141,0	160	78	24		532
	SK 40	40	141,0	160	88	27		540 ¹⁾
	SK 50	16	141,0	160	38	17		716
	SK 50	22	141,0	160	48	19		722
	SK 50	27	141,0	160	58	21		727
	SK 50	32	141,0	160	78	24		732
	SK 50	40	141,0	160	88	27		740 ¹⁾

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

Spare parts facemill adapters



**Spare parts
DCONWS**

	83 368 ...		83 367 ...		83 950 ...
16	116	M8	016	M8x25	113
22	122	M10	022	M10x25	124
27	127	M12	027	M12x30	125
32	132	M16	032	M16x35	126
40	140	M20	040	M20x40 - SW17	112



**Spare parts
DCONWS**

		83 950 ...		83 950 ...
16	M3x8	296	8x9x17,5	120
22	M4x12	297	10x11x20,5	121
27	M5x12	136	12x13x24,3	122
32	M5x20	137	14x21x21,2	123
40	M6x16	138	15,9x16,3x19,5	295

Accessories

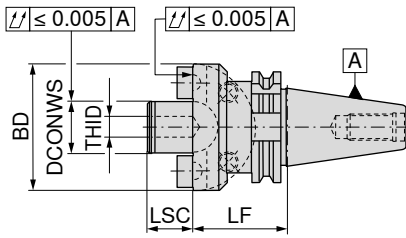
		
Pull studs	Extensions	Others
→ 57, 59	→ 256	→ 278

Large diameter facemill adapter

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

Scope of supply:

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



A
G 6,3 n_{max} 8000

82 432 ...

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



Screw for drivers



Driver



Socket head screw



clamping screw

83 950 ...

83 950 ...

70 950 ...

83 950 ...

Spare parts

DCONWS								
40	M6x16	138	15,9x16,3x19,5	295		M12x50	140	
60			25,4x16,3x26,5	298	M12x30 - SW10	181	M16x45	160

Accessories



Pull studs

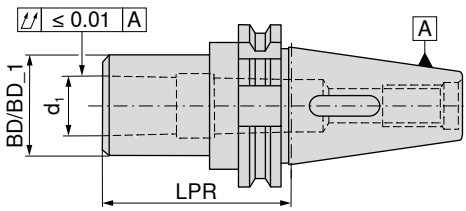
Others

→ 57, 59

→ 278

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

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

82 439 ...

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

Accessories

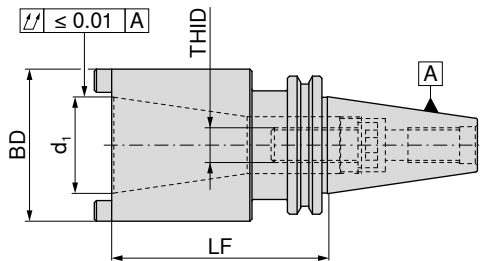
		
Morse taper adapter sleeve → 236	Pull studs → 57, 59	Others → 278

Milling adapter sleeve

- ▲ For mounting steep taper adapters according to DIN 2080
- ▲ With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A
G 6,3 n_{max} 8000

Adapter	d ₁	LF mm	BD mm	THID	
SK 40	SK 30	50	50	M12	82 453 03000
SK 40	SK 40	100	70	M16	82 453 040
SK 50	SK 40	80	70	M16	82 453 240
SK 50	SK 50	120	100	M24	82 453 250

Spare parts for Article no.

Article no.	Clamping screw SK	Morse taper clamping screw	Counterscrew	Hollow key with nose	Fixing ring
82 453 03000		18400	030	017	18500
82 453 040	009		030	023	270
82 453 240	264		031	133	257
82 453 250	256				

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

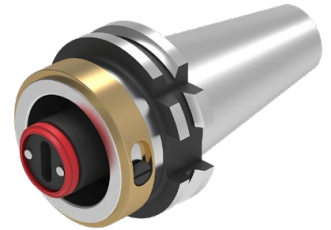
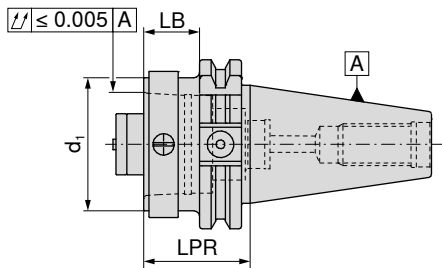
ISO 7388-1	Norm of the SK-shank		Clamping screw length	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080					
Suitable for article no.							
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017
82 453 040	SK40		M16 x 70	83 950 264	83 950 270	83 950 030	83 359 023
82 453 040		SK40	M16 x 40	83 950 009	83 950 270	83 950 030	83 359 023
82 453 240	SK40		M16 x 70	83 950 264			
82 453 240		SK40	M16 x 40	83 950 009			
82 453 250	SK50		M24 x 80	83 950 256	83 950 257	83 950 031	83 359 133
82 453 250		SK50	M24 x 50	83 950 263	83 950 257	83 950 031	83 359 133

SK/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

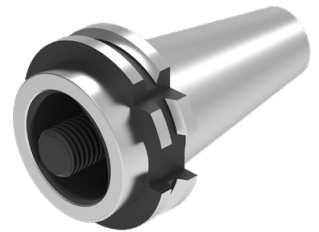
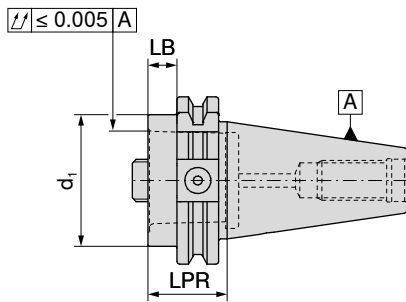
84 014 ...

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

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	
SK 50	PSC 80	50,9	70	05086
SK 40	PSC 32	10,9	30	04087
SK 40	PSC 63	65,9	85	04093
SK 40	PSC 50	10,9	30	04094
SK 40	PSC 40	10,9	30	04095
SK 50	PSC 32	10,9	30	05087
SK 50	PSC 63	10,9	30	05093
SK 50	PSC 50	10,9	30	05094
SK 50	PSC 40	10,9	30	05095



84 950 ...



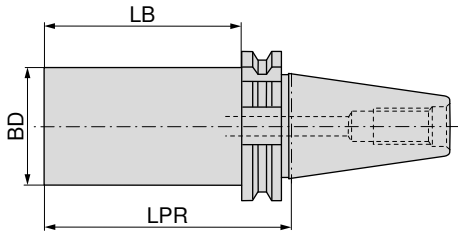
84 950 ...

Spare parts
DCONWS

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

Blank

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



AD/B

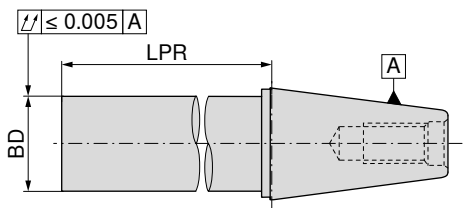
82 458 ...

Adapter	BD mm	LPR mm	LB mm	
SK 40	63,0	250	231	040
SK 50	63,5	300	281	050

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm, Article No. 83 538 040 / 83 535 040

Scope of supply:
in wooden box





A

82 456 ...

Adapter	BD mm	LPR mm	
SK / BT 40	40	330	040
SK / BT 50	50	330	050

Accessories

	
Pull studs	Others
→ 57, 59, 108–109	→ 278

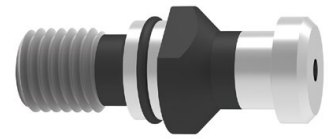
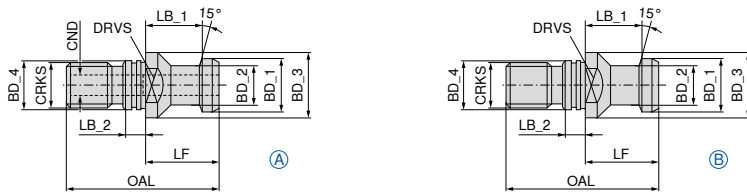
Pull studs for tool holders according to ISO 7388-1

▲ 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 ...	
														040	030	040	050
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90	A				
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	60	A				
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145	A				
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	030			
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	040			
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	050			

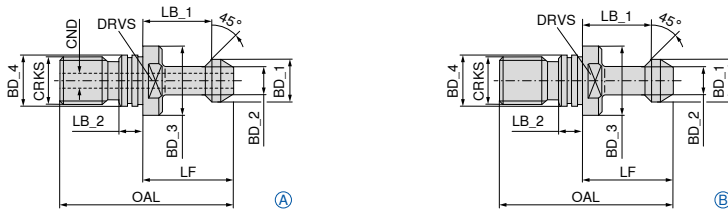
Pull studs for tool holders according to ISO 7388-1

▲ Similar to BT 45°, but 3 mm shorter

▲ for Haas, Micron and Hurco machines

Scope of supply:

including O-Ring



Adapter	BD_1 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 ...	
														040		040	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A				
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	040			



Spare parts

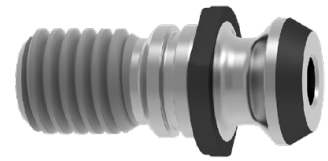
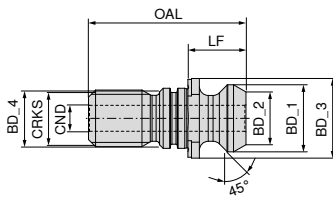
BD_4

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

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 ...

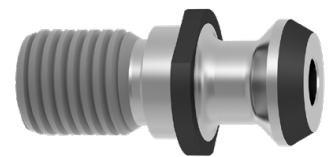
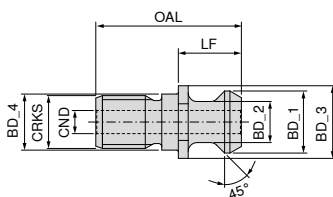
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	CND mm	DRVS mm	TQX Nm
SK 40	18,95	12,95	22,5	17	M16	44,5	16,4	11,15	7,35	19	90

04000

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 ...

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	90

14000



83 476 ...

#CU#
PA
XX,YY 040

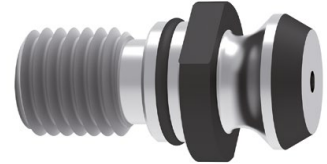
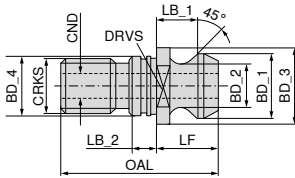
Peças para posição
para Artigos Nr.
82 469 14000

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



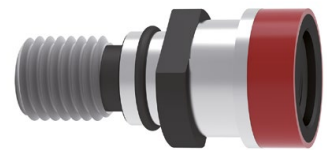
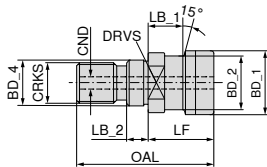
82 487 ...

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
SK 40	18,79	12,44	21,8	17	M16	41,26	16,25	11,17	4,0	7,0	19	90
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145

040
050

Pull studs for tool holders according to ISO 7388-1

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



without internal thread

with internal thread

82 493 ...

82 494 ...

Adapter	BD_1	BD_2	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	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	90
SK 50	39,3	32,0	25	M24	65	25	13,3	10		30	145

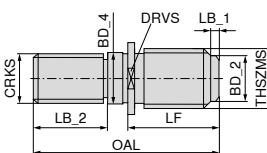
040
050¹⁾

040
050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

- ▲ DECKEL thread S 20 x 2



83 471 ...

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

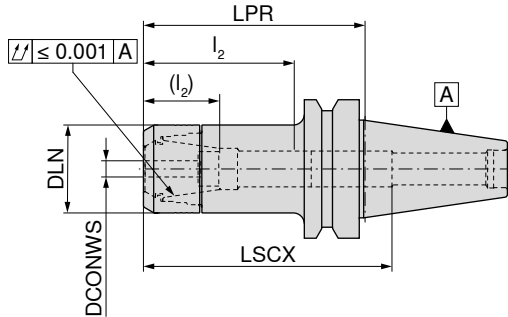
040

ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without 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	#CU# *PA*	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	XX,YY	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	XX,YY	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	XX,YY	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	XX,YY	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	XX,YY	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	XX,YY	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	XX,YY	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	XX,YY	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	XX,YY	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	XX,YY	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	XX,YY	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	XX,YY	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	XX,YY	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	XX,YY	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	XX,YY	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	XX,YY	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	XX,YY	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	XX,YY	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	XX,YY	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	XX,YY	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	XX,YY	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	XX,YY	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	XX,YY	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	XX,YY	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	XX,YY	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	XX,YY	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	XX,YY	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	XX,YY	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	XX,YY	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	XX,YY	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	XX,YY	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	XX,YY	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	XX,YY	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	XX,YY	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	XX,YY	826

→ Transmittable torque moments, Page 306

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

Spare parts, ER precision collet chuck – Centro-P

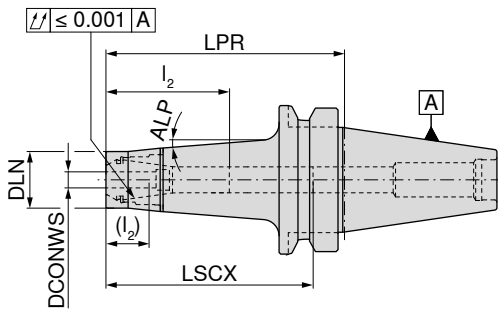
				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	#CU# *PA*	#CU# *PA*	#CU# *PA*	#CU# *PA*
426E (ER16)	XX,YY 011	XX,YY 001	M11x1 - SW6 XX,YY 341	M11x1 - SW6 XX,YY 337
430E (ER25)	XX,YY 013	XX,YY 003	M18x1,5 - SW6 XX,YY 432	M18x1,5 - SW6 XX,YY 431
470E (ER32)	XX,YY 015	XX,YY 005	M22x1,5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







→ Transmittable torque moments, Page 306



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	#CU# *PA*	#CU# *PA*	#CU# *PA*	#CU# *PA*
426E (ER16)	XX,YY 033	XX,YY 031	M11x1 - SW6 XX,YY 341	M11x1 - SW6 XX,YY 337

Accessories

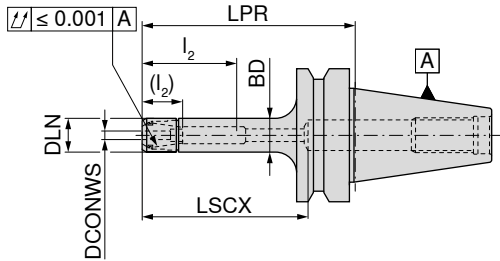
					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 262-269, 273	→ 274	→ 280	→ 280	→ 108-109	→ 278

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 ...



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

84 508 ...

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

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

	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
4008E (ER11)		041	340	336
426E (ER16)	035	034	341	337
		M8x1 - SW4	M8x1 - SW4	
		M11x1 - SW6	M11x1 - SW6	

Accessories

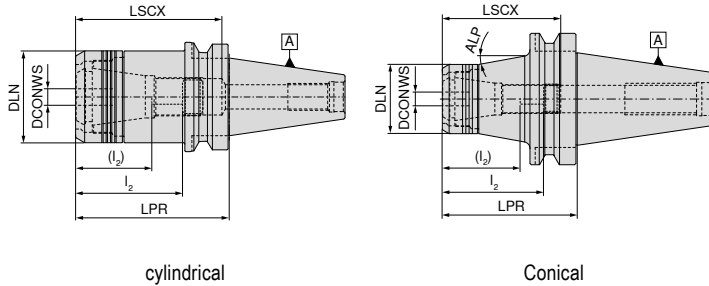
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 262–269, 273	→ 274	→ 279	→ 280	→ 280	→ 108–109	→ 278

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 R_{max} 18000

cylindrical



AD G 6,3 R_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ...	84 400 ...
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	12069	
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	22069	
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		22068



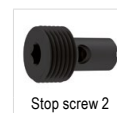
LSCX = Clamping depth without backstop screw

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



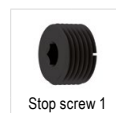
Lock nut

84 950 ...



Stop screw 2

83 950 ...



Stop screw 1

83 950 ...

Spare parts

DCONWS

2 - 20

30100 M22x1,5 - SW6

402 M22x1,5 - SW6

401

Accessories

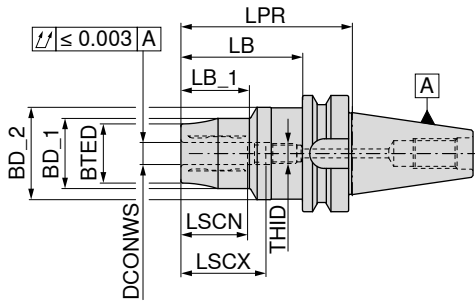
ER collet	Roll key	Roll key device	Pull studs	Others
→ 262-270, 272-273	→ 280	→ 280	→ 108-109	→ 278

High pressure chuck, short version

▲ also available with Balluff chip on request

Scope of supply:

Base body with backstop screw and pressure screw

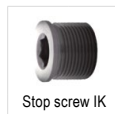
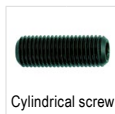


AD/B
G 2,5 n_{max} 25000

83 526 ...

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

→ Min. clamping depth, Page 306



83 950 ...

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

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

Accessories

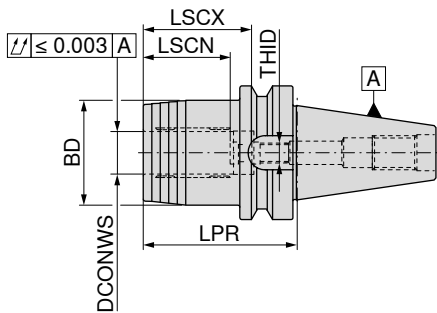
Reduction sleeve	Pull studs	Others
→ 276	→ 57, 59	→ 278

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



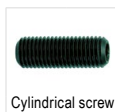
AD/B
G 2,5 n_{max} 25000

83 513 ...

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

120

→ Min. clamping depth, Page 306



Cylindrical screw

83 950 ...



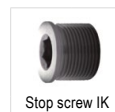
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

83 513 120	M5x5 - SW2,5	157	SW5	050	M10x1x14	429	M16x1x13,5 - SW8	424
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Accessories

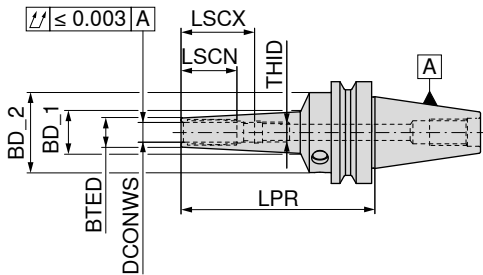
Reduction sleeve	Pull studs	Others
→ 276	→ 108-109	→ 278

High pressure chuck, slim 3°

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

Scope of supply:

Base body with backstop screw, pressure screw and screw plug



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

83 522 ...

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

→ Min. clamping depth, Page 306



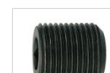
Cylindrical screw

83 950 ...



Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

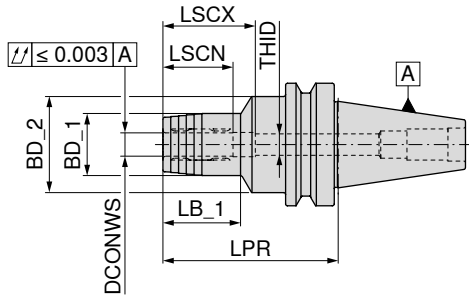
83 522 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 105	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
83 522 106	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
83 522 108	M5x5 - SW2,5	157	SW5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

Hydraulic chuck MAS BT, short and slim version

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

Scope of supply:

Base body with backstop screw and pressure screw

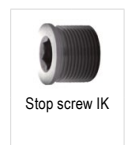
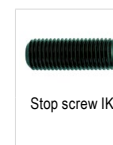


AD/B
G 2,5 n_{max} 25000

83 521 ...

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

→ Min. clamping depth, Page 306



83 950 ...

83 950 ...

83 950 ...

Spare parts
DCONWS

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

Accessories

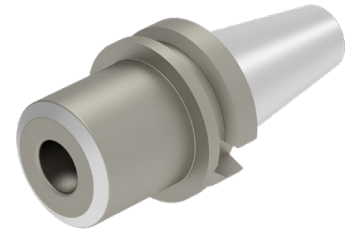
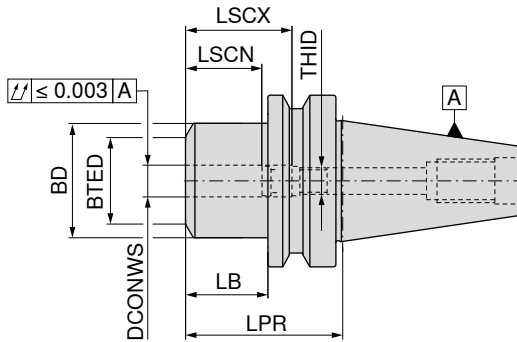


Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 430 ...

Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCN mm	LSCX mm	THID	
BT 40	12	58,0	42	32	31,0	36	46	M8x1	01269
BT 40	20	72,5	49	38	45,5	41	51	M16x1	02069
BT 50	20	83,5	49	38	45,5	41	51	M16x1	02068

→ Min. clamping depth, Page 306

**Spare parts
for Article no.**

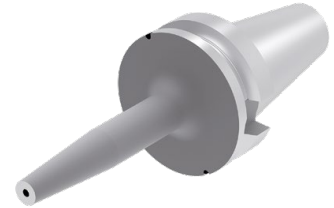
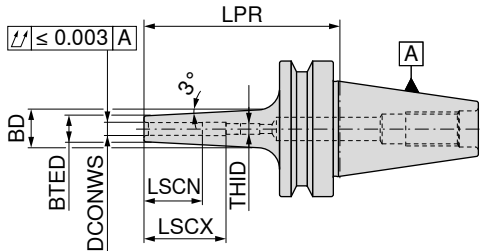
83 430 01269
83 430 02069
83 430 02068

Clamping key – T	Pressure screw	Stop screw IK
80 397 ...	83 950 ...	83 950 ...
050	440	420
050	440	424
050	440	424

Shrink adapter, Slim 3°

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

TG

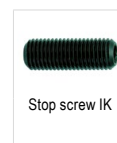


AD/B
G 2,5 n_{max} 25000

84 323 ...

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

→ Min. clamping depth, Page 306



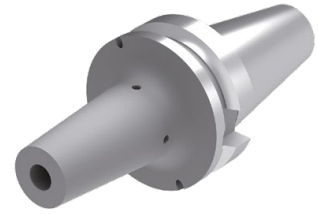
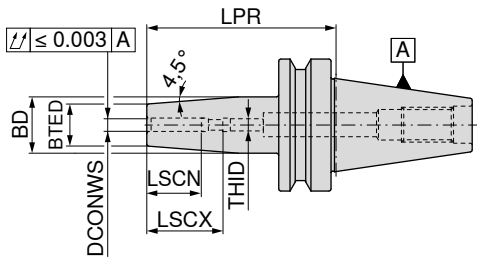
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



AD

G 2,5 n_{max} 25000



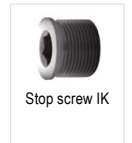
AD/B

G 2,5 n_{max} 25000

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

→ Min. clamping depth, Page 306

Spare parts heat shrink adapter 4.5°

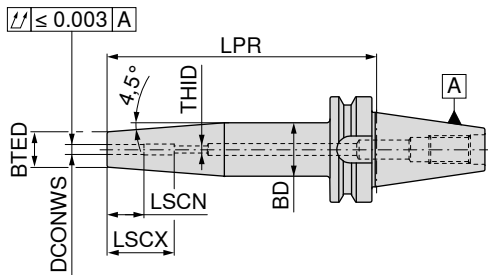


		83 950 ...	83 950 ...
Spare parts			
DCONWS			
3 - 5	M6x14 - SW2	417	
6			M5x12,5 - SW2,5 418
8			M6x12,5 - SW3 419
10			M8x1x13,5 - SW3 420
12 - 14			M10x1x13,5 - SW5 421
16 - 18			M12x1x13,5 - SW5 422
20 - 25			M16x1x13,5 - SW8 424

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

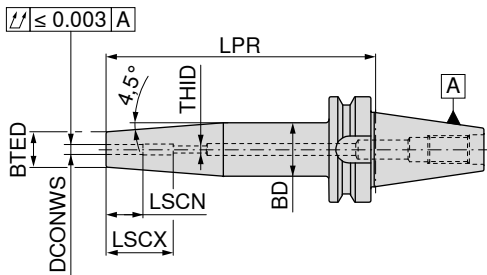
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	BT 40	3	90	11	15				10369	
	BT 40	4	90	11	15				10469	
	BT 40	5	90	11	15				10569	
	BT 40	6	90	21	27	36	26	M5	10669	
	BT 40	8	90	21	27	36	26	M6	10869	
	BT 40	10	90	24	34	41	31	M8x1	11069	
	BT 40	12	90	24	34	46	36	M10x1	11269	
	BT 40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

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

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

→ Min. clamping depth, Page 306



Stop screw IK

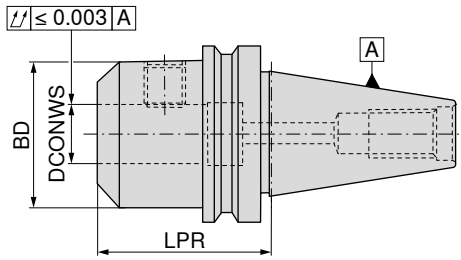
82 950 ...

Spare parts
DCONWS

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

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 25000

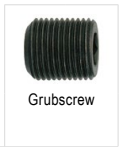


ADe
G 2,5 n_{max} 25000

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

82 501 ...	82 503 ...
00600	
00800	
01000	
01200	
01400	
01600	
01800	
02000	
416	416
420	420
425 ¹⁾	425 ¹⁾
43200 ¹⁾	432 ¹⁾

1) Version with two grub screws



62 950 ...

Spare parts

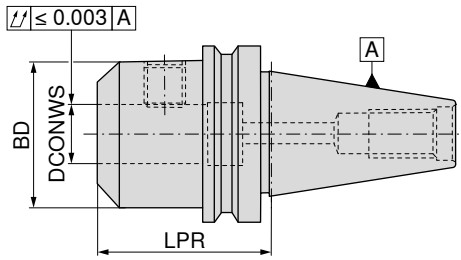
DCONWS		
6	M6x10	006
8	M8x10	008
10	M10x12	010
12 - 14	M12x16	012
16 - 18	M14x16	016
20	M16x16	020
25	M18x2x20	025
32	M20x2x20	032

Accessories

Pull studs	Others
→ 108-109	→ 278

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



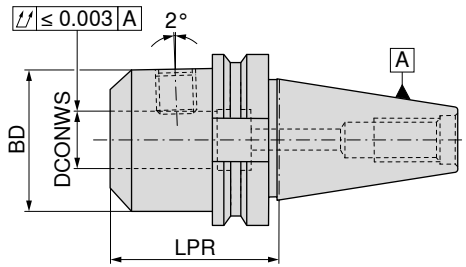
AD/Be
G 2,5 n_{max} 25000

	Adapter	DCONWS	LPR	BD	82 501 ...	82 504 ...
		mm	mm	mm		
short	BT 40	6	50	25	106	106
	BT 40	8	50	28	108	108
	BT 40	10	63	35	110	110
	BT 40	12	63	42	112	112
	BT 40	14	63	44	114	114
	BT 40	16	63	48	116	116
	BT 40	18	63	50	118	118
	BT 40	20	63	52	120	120
	BT 40	25	100	65	125	125 ¹⁾
	BT 40	32	100	72	132 ¹⁾	13200 ¹⁾
	BT 40	40	120	90	14000 ¹⁾	
	medium length	BT 50	6	63	25	30600
BT 50		8	63	28	30800	30800
BT 50		10	80	35	31000	31000
BT 50		12	80	42	31200	31200
BT 50		14	80	44	31400	31400
BT 50		16	80	48	31600	31600
BT 50		18	80	50	31800	31800
BT 50		20	80	52	32000	32000
BT 50		25	100	65	32500 ¹⁾	32500 ¹⁾
BT 50		32	105	72	33200 ¹⁾	33200 ¹⁾
BT 50		40	120	90	34000 ¹⁾	
extra-long		BT 40	6	100	25	506
	BT 40	8	100	28	508	
	BT 40	10	100	35	510	
	BT 40	12	100	42	512	
	BT 40	14	100	44	514	
	BT 40	16	100	48	516	
	BT 40	18	100	50	518	
	BT 40	20	100	52	520	
	BT 50	6	100	25	70600	
	BT 50	8	100	28	70800	
	BT 50	10	100	35	71000	
	BT 50	12	100	42	71200	
BT 50	14	100	44	71400		
BT 50	16	100	48	71600		
BT 50	18	100	50	71800		
BT 50	20	100	52	72000		
BT 50	25	120	65	72500 ¹⁾		
extra-long	BT 40	6	160	25	606	
	BT 40	8	160	28	608	
	BT 40	10	160	35	610	
	BT 40	12	160	42	612	
	BT 40	14	160	44	614	
	BT 40	16	160	48	616	
	BT 40	18	160	50	618	
	BT 40	20	160	52	620	
	BT 40	25	160	65	625 ¹⁾	
	BT 50	6	160	25	80600	
	BT 50	8	160	28	80800	
	BT 50	10	160	35	81000	
BT 50	12	160	42	81200		
BT 50	14	160	44	81400		
BT 50	16	160	48	81600		
BT 50	18	160	50	81800		
BT 50	20	160	52	82000		
BT 50	25	160	65	82500 ¹⁾		
BT 50	32	160	72	83200 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**



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

82 507 ...



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	BT 40	6	50	25	106	
	BT 40	8	50	28	108	
	BT 40	10	63	35	110	
	BT 40	12	63	42	112	
	BT 40	14	63	44	114	
	BT 40	16	63	48	116	
	BT 40	18	63	50	118	
	BT 40	20	63	52	120	
	BT 40	25	100	65	12500 ¹⁾	
	BT 40	32	100	72	13200 ¹⁾	
	BT 40	40	120	80	14000 ¹⁾	
	short	BT 50	6	63	25	30600
BT 50		8	63	28	30800	
BT 50		10	80	35	31000	
BT 50		12	80	42	31200	
BT 50		14	80	44	31400	
BT 50		16	80	48	31600	
BT 50		18	80	50	31800	
BT 50		20	80	52	32000	
BT 50		25	100	65	32500 ¹⁾	
BT 50		32	105	72	33200 ¹⁾	
long		BT 40	6	130	25	206
		BT 40	8	130	28	208
	BT 40	10	130	35	210	
	BT 40	12	130	42	212	
	BT 40	16	130	48	216	
	BT 40	20	130	52	220	
	BT 40	25	130	65	225 ¹⁾	
	BT 50	6	130	25	90600	
	BT 50	8	130	28	90800	
	BT 50	10	130	35	91000	
	BT 50	12	130	42	91200	
	BT 50	16	130	48	91600	
BT 50	20	130	52	92000		
BT 50	25	130	65	92500 ¹⁾		
BT 50	32	130	72	93200 ¹⁾		

1) Version with two grub screws

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

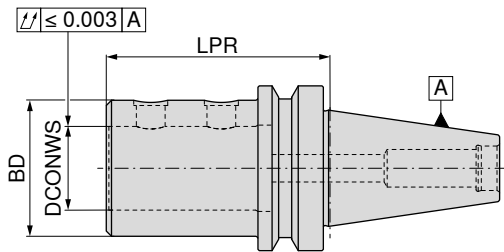
Spare parts DCONWS _{H4}		62 950 ...		83 950 ...	
			Grubscrew		Stop screw IK
6	M6x10	006	M5x35	033	
8	M8x10	008	M6x35	034	
10	M10x12	010	M8x35	035	
12 - 14	M12x16	012	M10x35	036	
16 - 18	M14x16	016	M12x40	037	
20	M16x16	020	M16x45	272	
25	M18x2x20	025	M20x35	290	
32	M20x2x20	032	M20x35	290	
40	M20x2x20	032			

Accessories

	
Pull studs	Others
→ 108-109	→ 278

Indexable insert drill adapter ISO 7388-2 MAS-BT

▲ also available with Balluff chip on request



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

10 841 ...

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

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



10 950 ...

Spare parts

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

Accessories

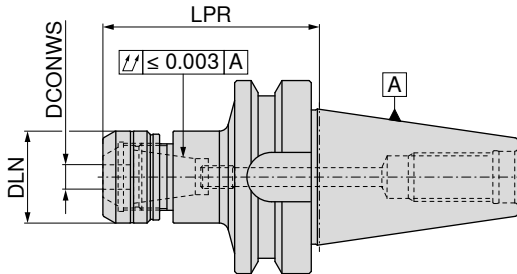
Pull studs	Others
→ 108-109	→ 278

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	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	22068



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

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

Accessories



→ 262-270, 272-273

→ 275

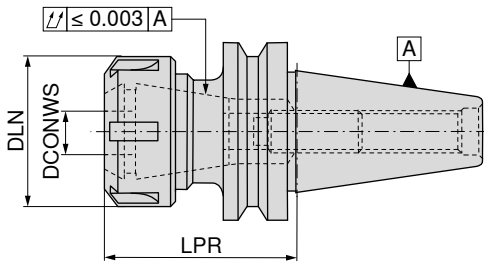
→ 280

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

82 509 ...



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

82 509 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	1 - 10	70	32	56	426E (ER16)		01000
	BT 30	1 - 16	70	42	104	430E (ER25)		01600
	BT 30	2 - 20	70	50	136	470E (ER32)		02000
	BT 40	1 - 10	60	22	56	426E (ER16 mini)		11169
	BT 40	1 - 10	60	32	56	426E (ER16)		110
	BT 40	1 - 16	70	42	104	430E (ER25)		116
	BT 40	2 - 20	70	50	136	470E (ER32)		120
	BT 40	3 - 26	70	63	176	472E (ER40)		126
	BT 50	1 - 10	75	32	56	426E (ER16)		31000
	BT 50	1 - 16	75	42	104	430E (ER25)		31600
	BT 50	2 - 20	75	50	136	470E (ER32)		32000
	BT 50	4 - 26	75	63	176	472E (ER40)		32600
medium length	BT 30	1 - 10	100	32	56	426E (ER16)		21000
	BT 30	1 - 16	100	42	104	430E (ER25)		21600
	BT 40	1 - 10	120	22	56	426E (ER16 mini)		21169
	BT 40	1 - 10	120	32	56	426E (ER16)		410
	BT 40	1 - 16	120	42	104	430E (ER25)		416
	BT 40	2 - 20	120	50	136	470E (ER32)		420
	BT 40	3 - 26	100	63	176	472E (ER40)		42600
	BT 50	1 - 10	100	32	56	426E (ER16)		71000
	BT 50	1 - 16	100	42	104	430E (ER25)		71600
	BT 50	2 - 20	100	50	136	470E (ER32)		72000
	BT 50	3 - 26	100	63	176	472E (ER40)		72600
	extra-long	BT 40	1 - 10	160	32	56	426E (ER16)	
BT 40		1 - 16	160	42	104	430E (ER25)		51600
BT 40		2 - 20	160	50	136	470E (ER32)		52000
BT 40		3 - 26	160	63	176	472E (ER40)		52600
BT 50		1 - 16	160	42	104	430E (ER25)		81600
BT 50		2 - 20	160	50	136	470E (ER32)		82000

Spare parts for collet

426E (ER16 mini)
426E (ER16)
430E (ER25)
470E (ER32)
472E (ER40)

	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK	Stop screw IK
	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...	83 950 ...
				101	066	058	30000	
		054	116					010
		055	125					010
		056	132					010
		057	140					011

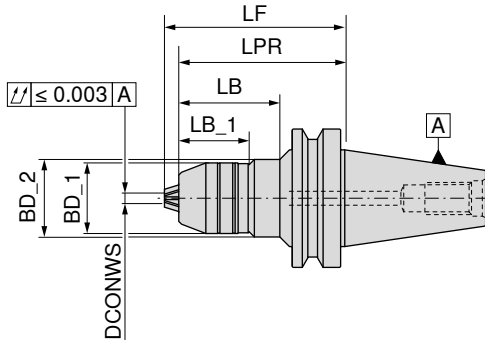
1 Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000

84 509 ...



AD
G 6,3 n_{max} 10000

84 510 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm		
BT 40	0,5 - 13	48,5		50,9	80	80	89,0		
BT 40	2,5 - 16	51,0		50,9	80	80	90,5	413	413
								416	416
BT 50	2,5 - 16	51,0	56	50,9	73	120	130,5	516	516

Accessories



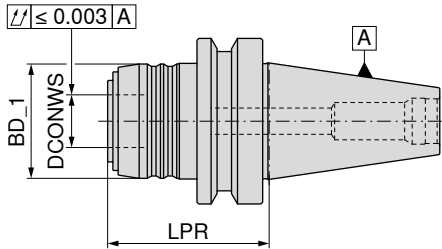
Others

→ 278

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	012
BT 40	M6 - M20	2	82	60	32	1,0 / 0,2	020
BT 50	M3 - M12	1	72	43	20	1,0 / 0,2	112
BT 50	M6 - M20	2	93	60	32	1,0 / 0,2	120

Accessories



Pull studs
→ 108-109



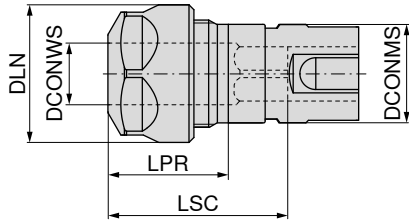
Others
→ 278

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

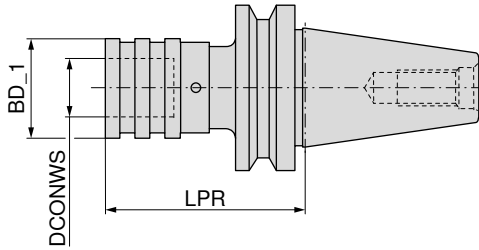
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	020

1) with 6 position lock nut

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

Quick change tap chuck with length compensation

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



A

83 528 ...

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

Accessories

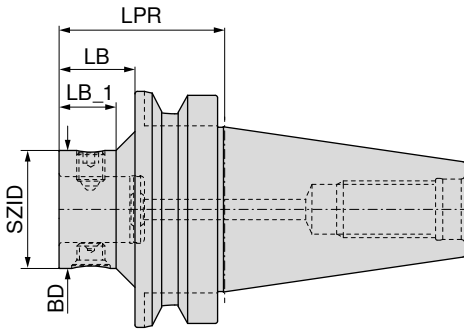
		
Collet	Pull studs	Others
→ 282, 284-286	→ 108-109	→ 278

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

Conversion kit – Cooling agent supply



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

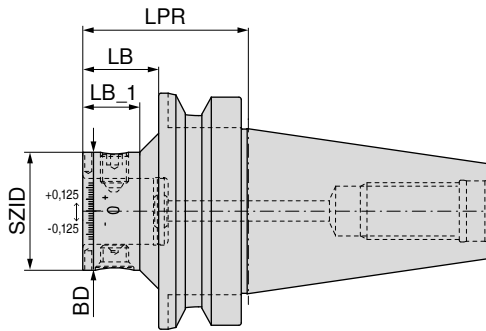
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

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

Scope of supply:

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



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 ...

84 205 ...

04096

04097

05096

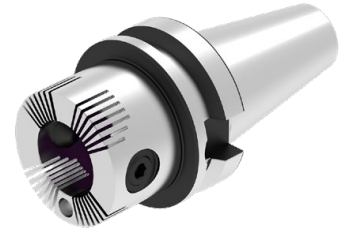
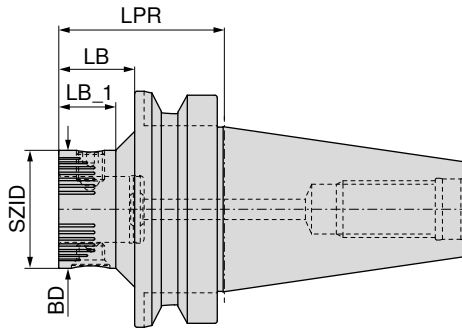
05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

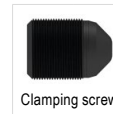
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD/B

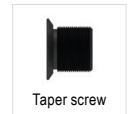
84 208 ...

Adapter	KOMET no.	SZID	BD mm	LPR mm	LB mm	LB_1 mm	
BT 40	A55 02150	ABS 50	50	60	33		04097
BT 40	A55 02160	ABS 63	63	70			04096
BT 50	A55 02350	ABS 50	50	70	32	24	05097
BT 50	A55 02360	ABS 63	63	80	42	37	05096



Clamping screw

84 950 ...



Taper screw

84 950 ...

Spare parts

SZID

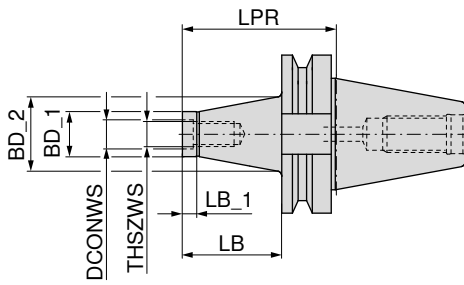
ABS 50	20300	20400
ABS 63	25500	27300

Accessories

Pull studs	Extension	Others
→ 108-109	→ 183	→ 278

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	
		mm	mm	mm	mm	mm	mm	
BT 40	M8	8,5	25	13,8	15	12	52	081
BT 40	M8	8,5	50	13,8	23	12	77	082
BT 40	M8	8,5	75	13,8	25	12	102	083
BT 40	M10	10,5	25	18,0	23	12	52	101
BT 40	M10	10,5	50	18,0	25	12	77	102
BT 40	M10	10,5	75	18,0	30	12	102	103
BT 40	M12	12,5	25	21,0	24	12	52	121
BT 40	M12	12,5	50	21,0	30	12	77	122
BT 40	M12	12,5	75	21,0	35	12	102	123
BT 40	M12	12,5	100	21,0	38	12	127	124
BT 40	M16	17,0	25	29,0	29	12	52	161
BT 40	M16	17,0	50	29,0	34	12	77	162
BT 40	M16	17,0	75	29,0	35	12	102	163
BT 40	M16	17,0	100	29,0	40	12	127	164

Accessories

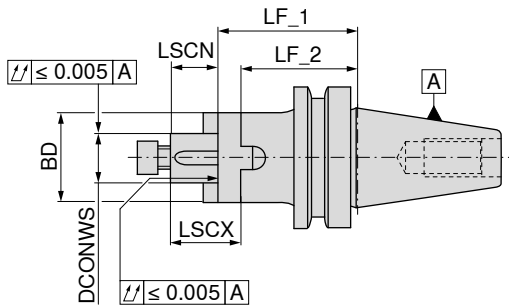
Extension-Reduction set → 251	Pull studs → 108-109	Others → 278

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

82 516 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm		
short	BT 30	16	45	32	27	17	35	01600	
	BT 30	22	47	40	31	19	35	02200	
	BT 30	27	49	46	33	21	37	02700	
	BT 40	16	55	32	27	17	45	116	
	BT 40	22	55	40	31	19	43	122	
	BT 40	27	55	48	33	21	43	127	
	BT 40	32	60	58	38	24	46	132	
	BT 40	40	60	70	41	27	46	140 ¹⁾	
	BT 50	16	70	32	27	17	60	216	
	BT 50	22	70	40	31	19	58	222	
	BT 50	27	70	48	33	21	58	227	
	BT 50	32	70	58	38	24	56	232	
	BT 50	40	70	70	41	27	56	240 ¹⁾	
	medium length	BT 30	16	80	32	27	17	70	91600
		BT 30	22	80	40	31	19	68	92200
BT 30		27	90	48	33	21	78	92700	
BT 40		16	100	32	27	17	90	31600	
BT 40		22	100	40	31	19	88	32200	
BT 40		27	100	48	33	21	88	32700	
BT 40		32	100	58	38	24	86	33200	
BT 40		40	100	70	41	27	86	34000 ¹⁾	

1) With cross screw

	Parallel key	Drive ring	Cross nut key	Cross screw	clamping screw
	83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
16	284	116	116	016	113
22	285	122	122	022	124
27	286	127	127	027	125
32	287	132	132	032	126
40	288	140	140	040	112

Spare parts

DCONWS

16
22
27
32
40

Accessories

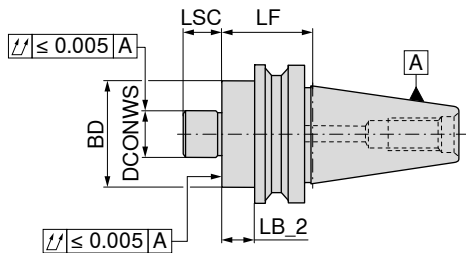
Pull studs	Milling Adapter Rings	Others
→ 108-109	→ 257	→ 278

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

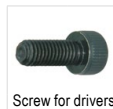


AD
G 2,5 n_{max} 25000

82 315 ...

	Adapter	DCONWS mm	BD mm	LB_2 mm	LF mm	LSC mm	
short	BT 40	22	38	33	60	19	12269
	BT 40	27	48	25	52	21	12769
	BT 50	22	38	22	60	19	12268
	BT 50	27	48	25	63	21	12768

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

83 950 ...

83 950 ...

83 950 ...

Spare parts

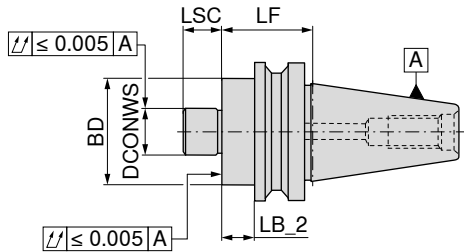
DCONWS						
22	M4x8	51700	10x7x20,5	51500	M10x25	124
27	M5x8	51800	12x9x24,3	51600	M12x30	125

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



A
G 2,5 n_{max} 25000

82 514 ...



AD
G 2,5 n_{max} 25000

82 514 ...



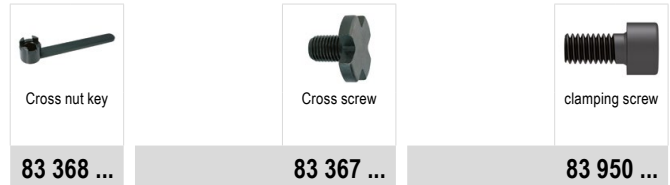
AD/B
G 2,5 n_{max} 25000

82 514 ...

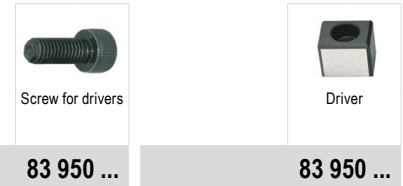
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm					
short	BT 30	16	18	40	38	17		01600			
	BT 30	22	18	40	48	19		02200			
	BT 30	27	18	50	58	21		02700			
	BT 30	32	28	50	78	24		03200			
	BT 40	16	25	52	38	17			116		
	BT 40	22	25	52	48	19			122		
	BT 40	27	25	52	58	21			127		
	BT 40	32	23	50	78	24			132		
	BT 40	40	23	50	88	27			140 ¹⁾		
	BT 50	16	25	63	38	17					
	BT 50	22	25	63	48	19			316		
	BT 50	27	25	63	58	21			322		
	BT 50	32	22	60	78	24			327		
	BT 50	40	22	60	88	27			332		
									340 ¹⁾		
	medium length	BT 40	16	73	100	38	17				416
		BT 40	22	73	100	48	19				422
		BT 40	27	73	100	58	21				427
		BT 40	32	73	100	78	24				432
		BT 40	40	73	100	88	27				440 ¹⁾
BT 50		16	62	100	38	17					
BT 50		22	62	100	48	19			616		
BT 50		27	62	100	58	21			622		
BT 50		32	62	100	78	24			627		
BT 50		40	62	100	88	27			632		
								640 ¹⁾			
long	BT 40	16	103	130	38	17				816	
	BT 40	22	103	130	48	19				822	
	BT 40	27	103	130	58	21				827	
	BT 40	32	103	130	78	24				832	
	BT 40	40	103	130	88	27				840 ¹⁾	
	BT 50	16	92	130	38	17					
	BT 50	22	92	130	48	19			916		
	BT 50	27	92	130	58	21			922		
	BT 50	32	92	130	78	24			927		
	BT 50	40	92	130	88	27			932		
								940 ¹⁾			
extra-long	BT 40	16	133	160	38	17				516	
	BT 40	22	133	160	48	19				522	
	BT 40	27	133	160	58	21				527	
	BT 40	32	133	160	78	24				532	
	BT 40	40	133	160	88	27				540 ¹⁾	
	BT 50	16	122	160	38	17					
	BT 50	22	122	160	48	19			716		
	BT 50	27	122	160	58	21			722		
	BT 50	32	122	160	78	24			727		
	BT 50	40	122	160	88	27			732		
								740 ¹⁾			

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

Spare parts facemill adapters



	83 368 ...		83 367 ...		83 950 ...
Spare parts					
DCONWS					
16	116	M8	016	M8x25	113
22	122	M10	022	M10x25	124
27	127	M12	027	M12x30	125
32	132	M16	032	M16x35	126
40	140	M20	040	M20x40 - SW17	112



		83 950 ...		83 950 ...
Spare parts				
DCONWS				
16	M3x8	296	8x9x17,5	120
22	M4x12	297	10x11x20,5	121
27	M5x12	136	12x13x24,3	122
32	M5x20	137	14x21x21,2	123
40	M6x16	138	15,9x16,3x19,5	295

Accessories

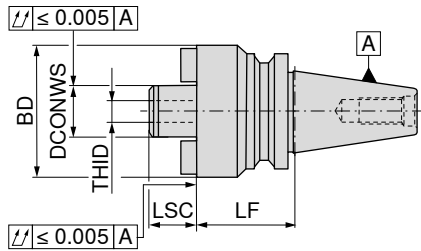


Large diameter facemill adapter

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

Scope of supply:

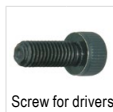
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

82 519 ...

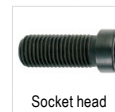
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	
BT 50	40	70	89	30	M20	240
BT 50	60	80	129	40	M30	260



Screw for drivers



Driver



Socket head screw



clamping screw

Spare parts

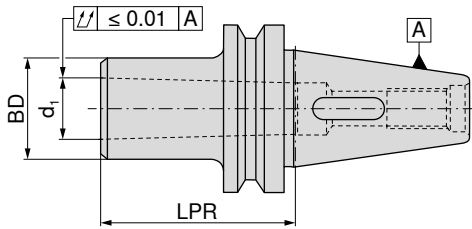
DCONWS		83 950 ...	83 950 ...	70 950 ...	83 950 ...
40	M6x16	138	15,9x16,3x19,5	295	M12x50
60			25,4x16,3x26,5	298	M16x45
				M12x30 - SW10	181

Accessories

Pull studs	Others
→ 108-109	→ 278

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

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

82 525 ...

Adapter	d ₁	LPR	BD	
		mm	mm	
BT 30	MK1	50	25	01000
BT 30	MK2	60	32	02000
BT 30	MK3	77	40	03000
BT 40	MK1	50	25	110
BT 40	MK2	50	32	120
BT 40	MK3	70	40	130
BT 40	MK4	95	48	140
BT 50	MK1	45	25	210
BT 50	MK2	60	32	220
BT 50	MK3	65	40	230
BT 50	MK4	95	48	240
BT 50	MK5	105	63	250

Accessories

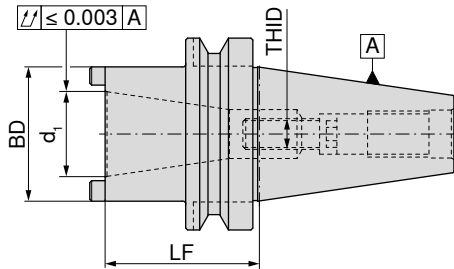
		
Morse taper adapter sleeve → 236	Pull studs → 108-109	Others → 278

Milling adapter sleeve

- ▲ For mounting steep taper adapters according to DIN 2080
- ▲ With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw for DIN 2080 adapters








A

82 518 ...

Adapter	d ₁	LF mm	BD mm	THID	
BT 40	SK 30	60	51	M12	10600
BT 40	SK 40	100	63	M16	11000
BT 50	SK 40	80	70	M16	250

Spare parts for Article no.



82 518 10600					
82 518 11000					
82 518 250					

				
83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
	18400	030	017	18500
009		030	023	270

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

ISO 7388-2 Suitable for article no.	Taper Shank	Clamping screw length	Clamping screw length
	∅ d ₁	ISO 7388-1, ISO 7388-2 THID	DIN 2080 THID
82 518 10600	SK 30 – BT 30	M12x55	M12x35 – 83 950 018
82 518 11000	SK 40 – BT 40	M16x60	M16x35 – 83 950 126
82 518 250	SK 50 – BT 50	M16x70 – 83 950 256	M16x40 – 83 950 009

Accessories

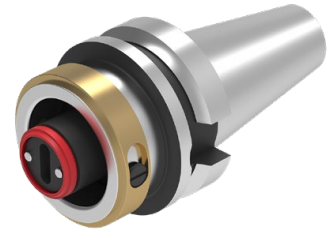
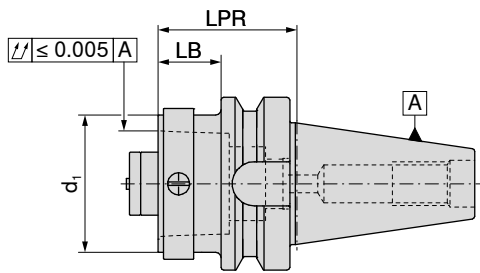
	
Pull studs	Others
→ 108-109	→ 278

BT/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

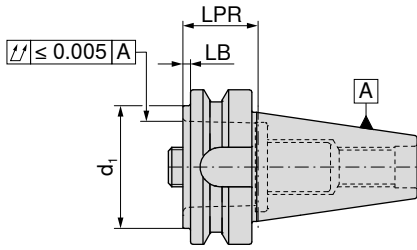
84 016 ...

Adapter	d_1	LB mm	LPR mm	
BT 40	HSK-A 32	13	40	04060
BT 40	HSK-A 40	13	40	04059
BT 40	HSK-A 50	23	50	04058
BT 40	HSK-A 63	43	70	04057
BT 50	HSK-A 32	12	50	05060
BT 50	HSK-A 40	12	50	05059
BT 50	HSK-A 50	22	60	05058
BT 50	HSK-A 63	22	60	05057
BT 50	HSK-A 100	52	90	05055

BT/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 017 ...

Adapter	d ₁	LB mm	LPR mm	
BT 50	PSC 80	32	70	05086
BT 40	PSC 32	3	30	04087
BT 40	PSC 63	58	85	04093
BT 40	PSC 50	3	30	04094
BT 40	PSC 40	3	30	04095
BT 50	PSC 32	2	40	05087
BT 50	PSC 63	2	40	05093
BT 50	PSC 50	2	40	05094
BT 50	PSC 40	2	40	05095



84 950 ...



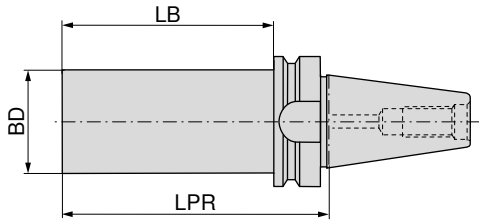
84 950 ...

Spare parts
DCONWS

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

Blank

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



A



AD/B

82 523 ...

82 523 ...

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

050

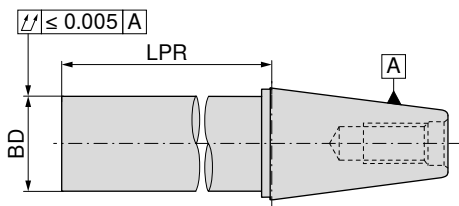
040

Test bar

- ▲ Without clamping slots
- ▲ MAS BT 40 special pull stud with LF = 32 mm, Article No. 83 538 040 / 83 535 040

Scope of supply:

in wooden box



A

82 456 ...

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

040

050

Accessories



Pull studs

Others

→ 59, 108–109

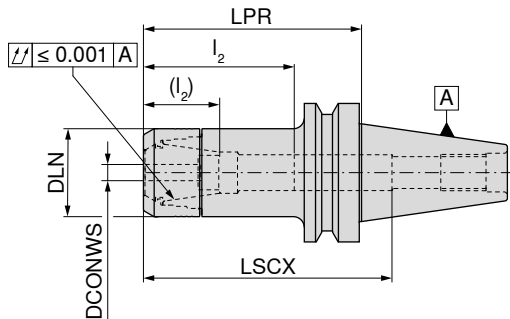
→ 278

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

- 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

Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...

Spare parts for Article no.

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

Accessories

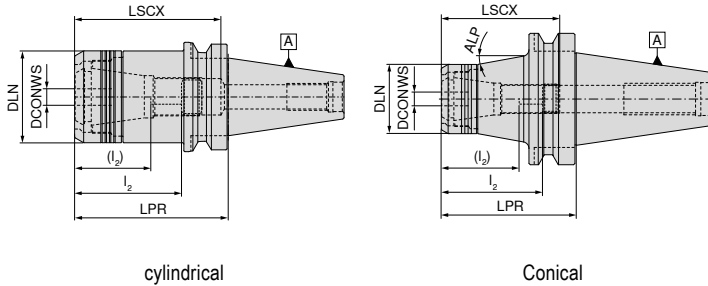
→ 262-270, 272-273	→ 274	→ 280	→ 280	→ 108-109	→ 278

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

84 400 ...	84 400 ...
12064	
22064	
	12063
	22063






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

Spare parts

DCONWS

2 - 20

		
Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
30100	402	401

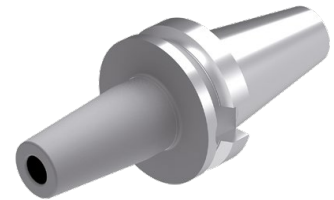
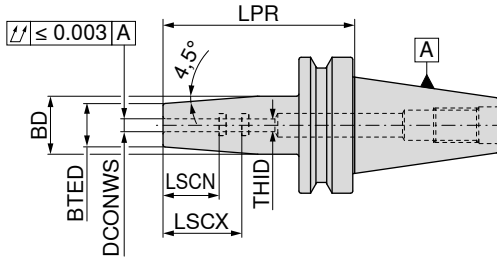
Accessories

				
ER collet	Roll key	Roll key device	Pull studs	Others
→ 262-270, 272-273	→ 280	→ 280	→ 108-109	→ 278

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

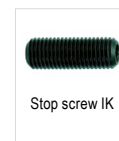
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
		mm	mm	mm	mm	mm	mm		84 325 ...	84 325 ...
short	BT-FC 30	3	85	10	17	28	12	M6	003	
	BT-FC 30	4	85	15	22	28	16	M6	004	
	BT-FC 30	5	85	15	22	30	20	M6	005	
	BT-FC 30	6	85	21	27	36	26	M5	006	
	BT-FC 30	8	85	21	27	36	26	M6	008	
	BT-FC 30	10	85	24	32	41	31	M8x1	010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

Spare parts

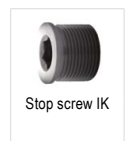
DCONWS		83 950 ...	83 950 ...
3 - 5	M6x14 - SW2	417	
6			M5x12,5 - SW2,5 418
8			M6x12,5 - SW3 419
10			M8x1x13,5 - SW3 420
12			M10x1x13,5 - SW5 421
16			M12x1x13,5 - SW5 422
20 - 25			M16x1x13,5 - SW8 424

Accessories

Shrink fit extension	Pull studs	Others
→ 241	→ 108-109	→ 278



Stop screw IK



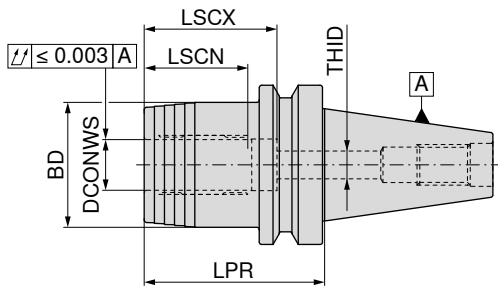
Stop screw IK

High pressure chuck, short and stable version – BT-FC

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 527 ...

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

120



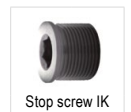
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

**Spare parts
for Article no.**

83 527 120

SW5

050

M10x1x10

158

M8x1x13,5 - SW3

420

Accessories



Reduction sleeve

→ **276**



Pull studs

→ **108-109**



Others

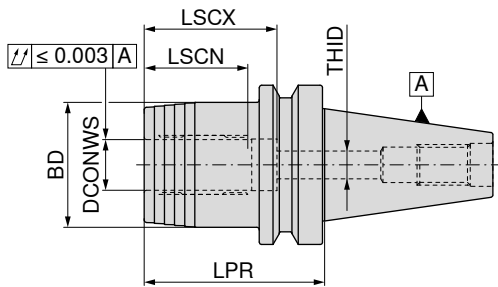
→ **278**

Hydraulic chuck MAS BT, short and stable version – BT-FC

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

Scope of supply:

Base body with backstop screw and pressure screw



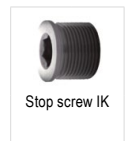
AD
G 2,5 n_{max} 25000

84 518 ...

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID	
BT-FC 40	20	72,5	49,5	51	41	M16x1	120
BT-FC 50	32	90,0	72,0	61	51	M16x1	332



83 950 ...



83 950 ...

Spare parts

DCONWS

20 - 32

M10x1x12

M16x1x13,5 - SW8

440

424

Accessories



Reduction sleeve

→ 276



Pull studs

→ 108-109

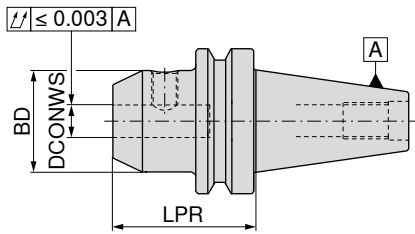


Others

→ 278

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

1) Version with two grub screws



Grubscrew

62 950 ...

Spare parts DCONWS

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

Accessories

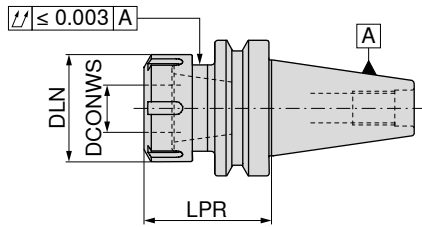
Pull studs	Others
→ 108-109	→ 278

ER Collet chuck – BT-FC

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

Scope of supply:

Toolholder including nut



AD

G 2,5 n_{max} 20000

84 557 ...

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

1) with 6 position lock nut

Spare parts for collet	Lock nut	Lock nut IK	Lock nut	Y clamping key
	62 950 ...	83 950 ...	62 950 ...	83 357 ...
426E (ER16) / BT30-BT50	M22x1,5 - SW25	044	M22x1,5	054
430E (ER25) / BT30-BT50			M32x1,5	055
470E (ER32) / BT30-BT50			M40x1,5	056
			M32x1,5	055
			M40x1,5	056
				125
				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

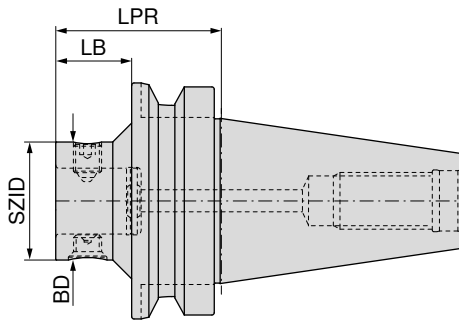
Accessories

ER collet	Pull studs	Others
→ 262-270, 272-273	→ 108-109	→ 278

Adapter with ABS Connection – BT-FC

▲ with face contact

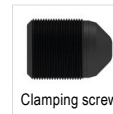
▲ also available with Balluff chip on request



AD

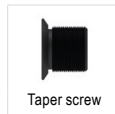
84 264 ...

Adapter	SZID	BD mm	LPR mm	LB mm	
BT-FC 40	ABS 50	50	60	33	05064
BT-FC 40	ABS 63	63	70		06364
BT-FC 50	ABS 50	50	70	32	05063
BT-FC 50	ABS 63	63	80	42	06363
BT-FC 50	ABS 80	80	100	62	08063
BT-FC 50	ABS 100	100	110		10063



Clamping screw

84 950 ...



Taper screw

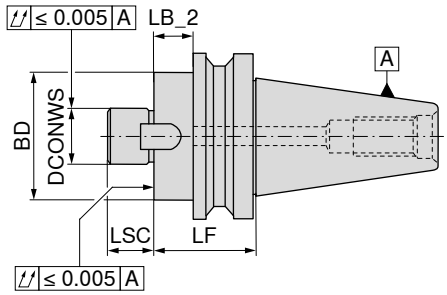
84 950 ...

Spare parts

SZID		
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100
ABS 100	25700	25200

Shell mill adapter – BT-FC

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



AD
G 6,3 n_{max} 15000

84 562 ...

Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	BT-FC 30	16	18	39,0	40	17	016
	BT-FC 30	22	18	39,0	50	19	022
	BT-FC 30	27	18	39,0	60	21	027
	BT-FC 30	32	28	49,0	80	24	032
	BT-FC 40	16	8	34,0	40	17	116
	BT-FC 40	22	8	34,0	50	19	122
	BT-FC 40	27	8	34,0	60	21	127
	BT-FC 40	32	23	49,0	80	24	132
	BT-FC 40	40	23	49,0	89	27	140
	BT-FC 50	22	12	48,5	50	19	322
	BT-FC 50	27	12	48,5	60	21	327
	BT-FC 50	32	12	48,5	80	24	332
BT-FC 50	40	17	53,5	89	27	340	



Screw for drivers



Driver



clamping screw

84 950 ...

84 950 ...

83 950 ...

Spare parts
DCONWS

16	M3x12	162	8x9x11	157	M8x25	113
22	M4x10	163	10x11,2x13	158	M10x25	124
27	M4x16	164	12x12,6x15	159	M12x30	125
32	M5x16	165	14x14x22,5	160	M16x35	126
40	M5x16	166	16x16x23	161	M20x40 - SW17	112

Accessories



Pull studs

Others

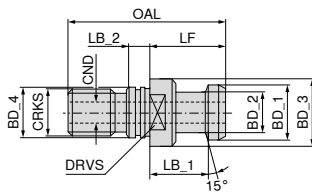
→ 108-109

→ 278

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:
including O-Ring



83 532 ...

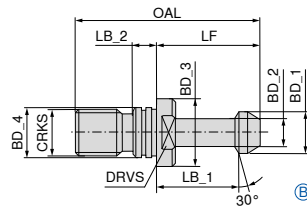
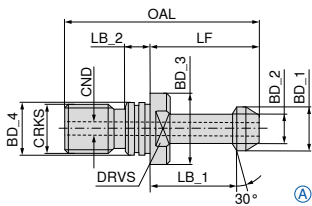
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90

040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



82 533 ...

82 531 ...

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

		030
		040
		050
030		
040		
050		



O-Ring

83 476 ...

Spare parts

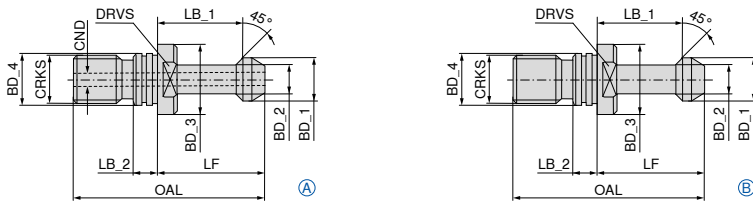
BD_4

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

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring

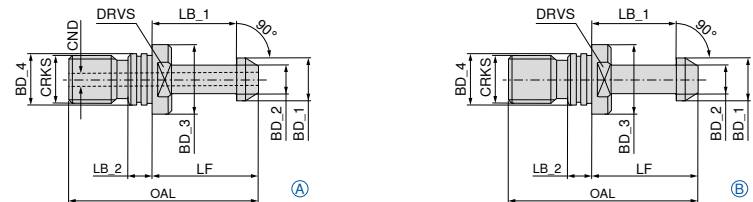


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														040	050	040	050
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A			040	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60	A			030	
BT 50	23	17	38,0	25,0	M24	85	45	35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

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



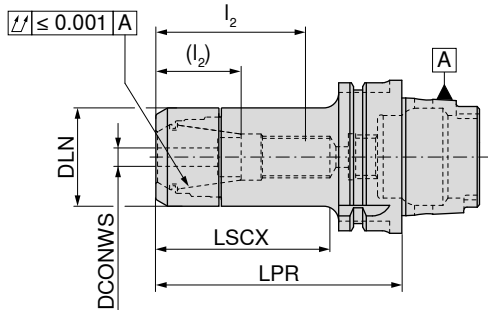
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														040	050	040	050
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	145	A			050	
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	90	A			040	
BT 40	15	10	23	17	M16	60	35	28	5,5		19	90	B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

ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without 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	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	404 ¹⁾
HSK-A 40	2 - 20	61	50	45		470E (ER32)	407 ¹⁾
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	505
HSK-A 50	2 - 16	60	40	37		430E (ER25)	504 ¹⁾
HSK-A 63	1 - 10	55	30	32		426E (ER16)	609 ¹⁾
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	610
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	612
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	613
HSK-A 63	2 - 16	60	40	37		430E (ER25)	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	616
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	617
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	619
HSK-A 63	2 - 20	70	50	46		470E (ER32)	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	621
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	622
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	625
HSK-A 63	3 - 26	120	63	91		472E (ER40)	62700
HSK-A 63	3 - 26	80	63	56		472E (ER40)	626 ²⁾
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	11200
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	110
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	11800
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	117
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	116
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	122
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	12400

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 306



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

Spare parts ER precision collet chuck – Centro-P

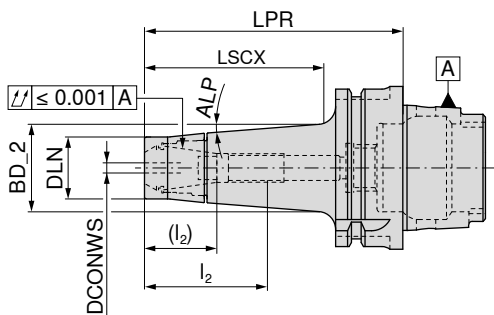
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	84 950 ...	84 950 ...	84 950 ...	84 950 ...	83 950 ...	83 950 ...	83 950 ...	83 950 ...
426E (ER16)	011	001						
426E (ER16)	011	001	M11x1 - SW6		341	M11x1 - SW6		337
430E (ER25)	013	003	M18x1,5 - SW6		432	M18x1,5 - SW6		431
470E (ER32)	015	005	M22x1,5 - SW6		402	M22x1,5 - SW6		401
472E (ER40)	017	007				M28x1,5 - SW6		400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

Adapter	DCONWS	LPR	DLN	BD_2	LSCX	l_2 (l_2)	ALP	for collet	84 721 ...
HSK-A 40	1 - 10	100	24	30,8	67	26 - 47 (12 - 32)	2,0°	426E (ER16)	310
HSK-A 50	1 - 10	65	24	28,9	44	26 - 32	4,5°	426E (ER16)	710
HSK-A 50	1 - 10	100	24	34,4	77	26 - 47 (12 - 32)	4,5°	426E (ER16)	810
HSK-A 63	1 - 10	130	24	36,0	77	28 - 48 (20 - 35)	3,5°	426E (ER16)	61200
HSK-A 63	1 - 10	100	24	33,8	74	28 - 48 (20 - 35)	4,5°	426E (ER16)	610
HSK-A 63	1 - 10	160	24	36,0	106	28 - 48 (20 - 35)	2,5°	426E (ER16)	611

→ Transmittable torque moments, Page 306

- 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

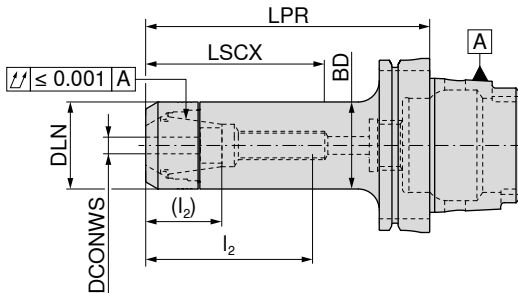
Spare parts for collet	Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1	
	84 950 ...	84 950 ...	84 950 ...	84 950 ...	83 950 ...	83 950 ...	83 950 ...	83 950 ...
426E (ER16)								
			033	031	341			337

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without** nut, **without** 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)	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	910

→ Transmittable torque moments, Page 306

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

Spare parts for collet	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
4008E (ER11)				
426E (ER16)				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
	035	041	340	336
		034	341	337
		M8x1 - SW4	M8x1 - SW4	
		M11x1 - SW6	M11x1 - SW6	

Accessories

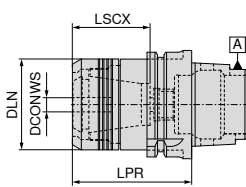
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 262-269, 273	→ 274	→ 279	→ 280	→ 280	→ 152	→ 278

ER precision collet chuck – HDC

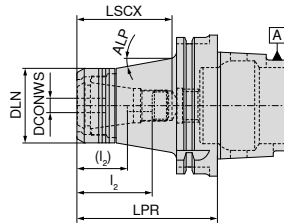
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

Scope of supply:

Base body including lock nut, without backstop screw



cylindrical



Conical



G 6,3 n_{max} 18000

cylindrical



G 6,3 n_{max} 18000

conical

	84 400 ...	84 400 ...
for collet	12057	22057
HSK-A 100		22055

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



LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

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

Accessories

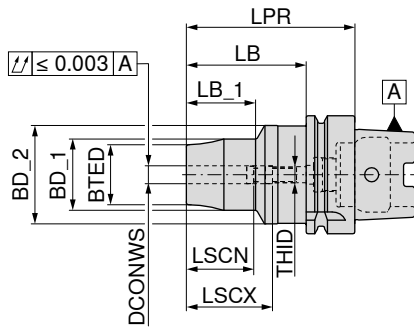
Item	Part Number	Item	Part Number	Item	Part Number
ER collet	→ 262-270, 272-273	Roll key	→ 280	Roll key device	→ 280
		Others	→ 278		

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 706 ...

short	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID	
		mm	mm	mm	mm	mm	mm	mm	mm	mm		
	HSK-A 63	16	95	36	42	52,5	42	49	39	69	M12x1	616
	HSK-A 63	20	100	42	48	52,5	45	51	41	74	M16x1	620
	HSK-A 63	25	120	51	57	53,0	62	57	47	94	M16x1	625
	HSK-A 63	32	125	57	63	53,0	62	61	51	99	M16x1	632

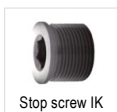
→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

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

Accessories

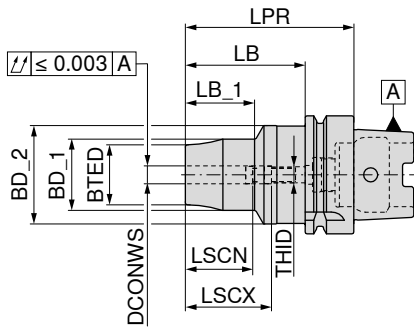
Reduction sleeve	Coolant transfer pipe	Others
→ 276	→ 152	→ 278

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 722 ...

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

120

→ Min. clamping depth, Page 306



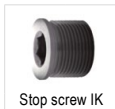
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

83 722 120

SW5

050

M10x1x10

158

M8x1x13,5 - SW3

420

Accessories



Reduction sleeve

→ 276



Coolant transfer pipe

→ 152



Others

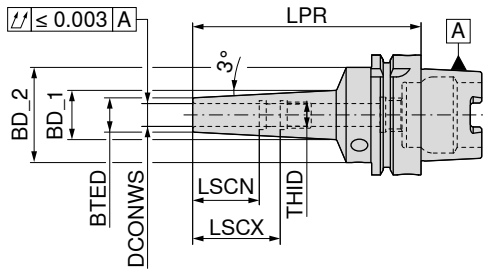
→ 278

High pressure chuck, slim 3°

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 727 ...

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

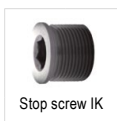
→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts DCONWS

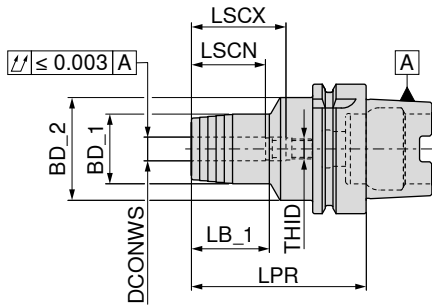
DCONWS	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
3	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
4	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
5	SW5	050	M10x1x10	158	M3x20 - SW1,5	172
6	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418
6	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
8	SW5	050	M10x1x10	158	M6x12,5 - SW3	419
10	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420
12	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421
16	SW5	050	M10x1x12	159	M12x1x13,5 - SW5	422
20	SW5	050	M10x1x12	159	M16x1x13,5 - SW8	424

Hydraulic chuck, short and slim version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 726 ...

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

→ Min. clamping depth, Page 306

Version for MMS hydraulic chuck – 1 and 2-channel



83 432 HSK-63 1-channel

83 432 HSK-100 1-channel



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



83 433 HSK-63 2-channel

83 433 HSK-100 2-channel



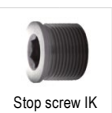
This article can be found in our online shop at cuttingtools.ceratzit.com

Spare parts

DCONWS		83 950 ...		83 950 ...
6	M8x1x10	439	M5x12,5 - SW2,5	418
8	M10x1x12	440	M6x12,5 - SW3	419
10	M10x1x12	440	M8x1x13,5 - SW3	420
12	M10x1x12	440	M10x1x13,5 - SW5	421
16	M10x1x12	440	M12x1x13,5 - SW5	422
20 - 32	M10x1x12	440	M16x1x13,5 - SW5	423



Pressure screw



Stop screw IK

Accessories

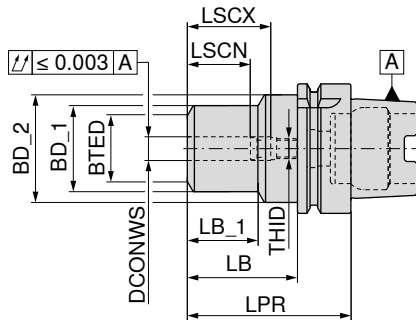
Reduction sleeve	Coolant transfer pipe	Others
→ 276	→ 152	→ 278

Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 430 ...

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

→ Min. clamping depth, Page 306



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS

12 - 20

SW5

050

M10x1x12

440

M8x1x13,5 - SW3

420

Accessories



Reduction sleeve

→ 276



Coolant transfer pipe

→ 152



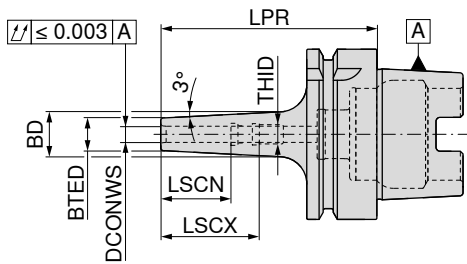
Others

→ 278

Shrink adapter, slim 3°

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

TG

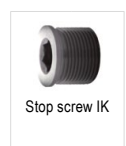


G 2,5 n_{max} 25000

84 324 ...

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

→ Min. clamping depth, Page 306



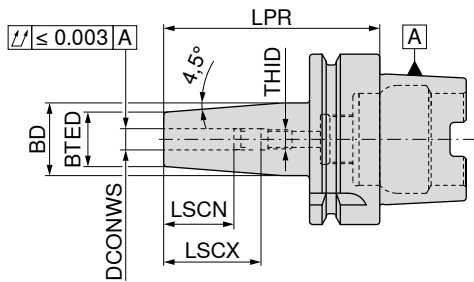
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



G 2,5 n_{max} 25000

84 304 ...

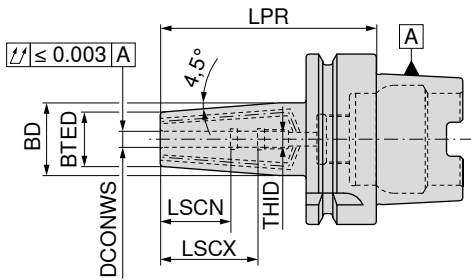
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	
		mm	mm	mm	mm	mm	mm		
short	HSK-A 63	3	80	10	15	22	12	M6	103
	HSK-A 63	4	80	15	22	26	16	M6	104
	HSK-A 63	5	80	15	22	30	20	M6	105
	HSK-A 63	6	80	21	27	36	26	M5	106
	HSK-A 63	8	80	21	27	36	26	M6	108
	HSK-A 63	10	85	24	32	41	31	M8x1	110
	HSK-A 63	12	90	24	32	47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

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

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

TG



G 2,5 n_{max} 25000

84 316 ...

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

→ Min. clamping depth, Page 306

Spare parts DCONWS	Stop screw IK	83 950 ...	Stop screw IK	83 950 ...	Sealing screw	83 950 ...
3 - 5	M6x14 - SW2	417			M2x6	512
6			M5x12,5 - SW2,5	418	M2x6	512
8			M6x12,5 - SW3	419	M2x6	512
10			M8x1x13,5 - SW3	420	M2x6	512
12 - 14			M10x1x13,5 - SW5	421	M2x6	512
16 - 18	M12x1 - SW5	510			M2x6	512
20 - 32	M16x1 - SW5	511			M2x6	512

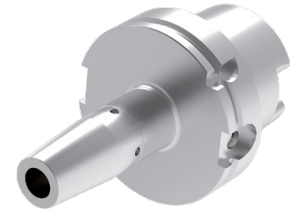
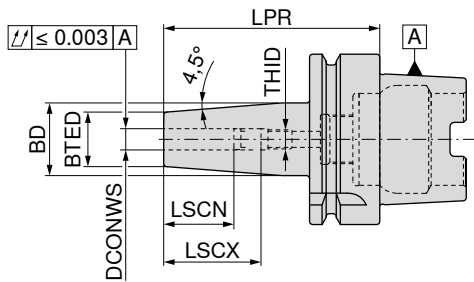
Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 241	→ 152	→ 278

Shrink fit adapters 4.5°

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

TG



G 2,5 n_{max} 25000

84 305 ...

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

→ Min. clamping depth, Page 306

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



TG

84 318	HSK-63	1-channel
84 318	HSK-100	1-channel



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



TG

84 319	HSK-63	2-channel
84 319	HSK-100	2-channel



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

Spare parts heat shrink adapter 4.5°



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

Accessories

		
Shrink fit extension	Coolant transfer pipe	Others
→ 241	→ 152	→ 278

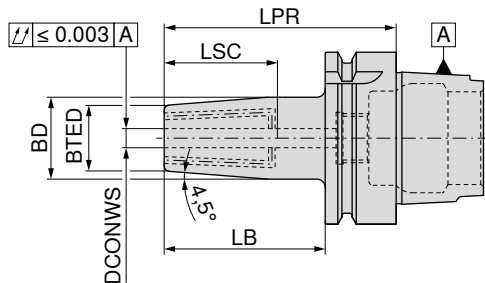
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



G 2,5 n_{max} 25000

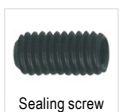
84 717 ...

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

→ Min. clamping depth, Page 306



Stop screw IK



Sealing screw

62 950 ...

62 950 ...

Spare parts

DCONWS				
6	M5x0,8x14	402	M3x6	411
8	M6x1x16	403	M3x6	411
10	M8x1x20	404	M3x6	411
12 - 18	M10x1x20	405	M3x6	411
20 - 32	M12x1x20	406	M4x8	412

Sealing screw for closing of two additional coolant holes.

Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 241	→ 152	→ 278

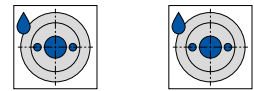
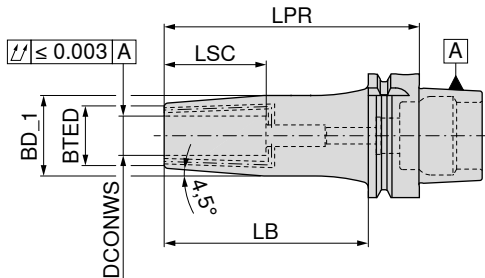
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



G 2,5 n_{max} 25000

G 2,5 n_{max} 25000

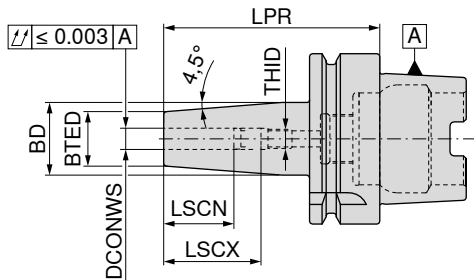
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n _{max} 25000	
								84 720 ...	84 723 ...
long	HSK-A 63	6	130	21	27	104	36,5	606	
	HSK-A 63	8	130	21	27	104	36,5	608	
	HSK-A 63	10	130	24	32	104	41,5	610	
	HSK-A 63	12	130	24	32	104	46,5	612	
	HSK-A 63	14	130	27	34	104	46,5	614	
	HSK-A 63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

→ Min. clamping depth, Page 306

Shrink fit adapters 4.5°

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

TG

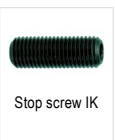


G 2,5 n_{max} 25000

82 310 ...

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

→ Min. clamping depth, Page 306



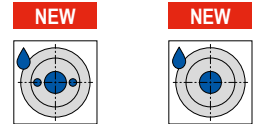
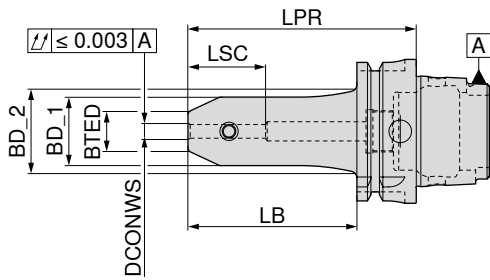
82 950 ...

Spare parts
DCONWS

3 - 5	M6x16 - SW3	30100
6	M5x16 - SW2,5	30000
8	M6x16 - SW3	30100
10	M8x1x16 - SW4	30200
12 - 14	M10x1x16 - SW5	30300
16 - 18	M12x1x16 - SW6	30400
20 - 32	M16x1x16 - SW8	30500

Sidelock holder (Weldon)

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



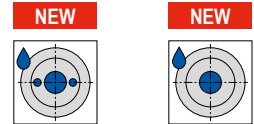
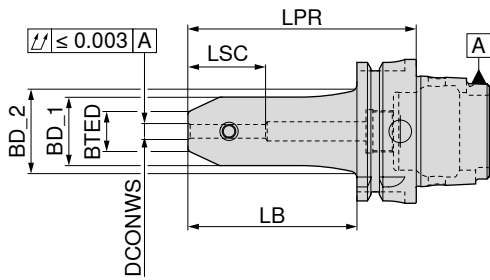
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

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

1) Version with two grub screws

Sidelock holder (Weldon)

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



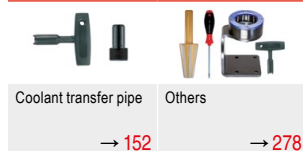
G 2,5 n_{max} 25000 G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5}		LPR	BTED	BD_1	BD_2	LB	LSC	82 740 ...		82 741 ...	
		mm	mm										
extra-long	HSK-A 63	6	160	17	30	36,2	134	34		40657		40657	
	HSK-A 63	8	160	20	32	38,2	134	34		40857		40857	
	HSK-A 63	10	160	25	35	41,2	134	39		41057		41057	
	HSK-A 63	12	160	30	42	48,2	134	44		41257		41257	
	HSK-A 63	14	160	32	45	50,5	134	44		41457		41457	
	HSK-A 63	16	160	36	48	50,1	134	47		41657		41657	
	HSK-A 63	18	160	38	48	50,1	134	47		41857		41857	
	HSK-A 63	20	160	40	52		134	49		42057		42057	
	HSK-A 63	25	160	45	63		134	54		42557 ¹⁾		42557 ¹⁾	
	HSK-A 100	6	160	17	30	38,2	131	34		40655		40655	
	HSK-A 100	8	160	20	32	40,2	131	34		40855		40855	
	HSK-A 100	10	160	25	35	43,2	131	39		41055		41055	
	HSK-A 100	12	160	30	42	50,2	131	44		41255		41255	
	HSK-A 100	14	160	32	45	53,2	131	44		41455		41455	
	HSK-A 100	16	160	36	48	56,2	131	47		41655		41655	
	HSK-A 100	18	160	38	48	56,2	131	47		41855		41855	
	HSK-A 100	20	160	40	52	60,2	131	49		42055		42055	
	HSK-A 100	25	160	45	65	73,2	131	54		42555 ¹⁾		42555 ¹⁾	
	HSK-A 100	32	160	52	72	79,5	134	58		43255 ¹⁾		43255 ¹⁾	

1) Version with two grub screws

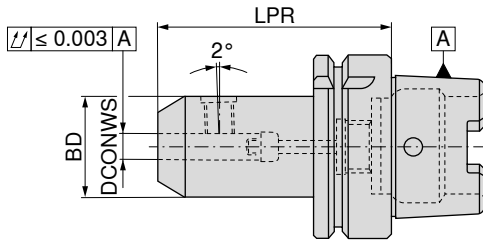
The M3 screws with WAF 1.5 mm supplied can be used to seal the two additional coolant holes.

Accessories



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 ...

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

1) Version with two grub screws



Grubscrew

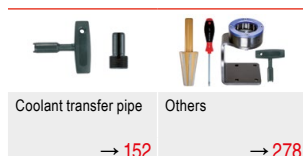
62 950 ...

Spare parts

DCONWS

6	M6x10	006
8	M8x10	008
10	M10x12	010
12 - 14	M12x16	012
16 - 18	M14x16	016
20	M16x16	020
25	M18x2x20	025
32 - 40	M20x2x20	032

Accessories



Coolant transfer pipe

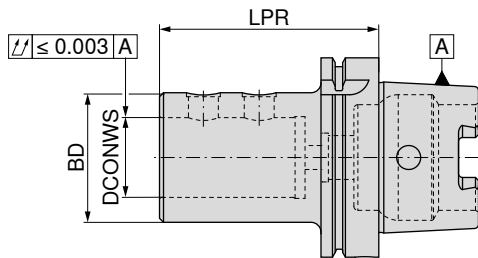
Others

→ 152

→ 278

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

10 842 ...

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

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



Grubscrew

10 950 ...

Spare parts

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

Accessories

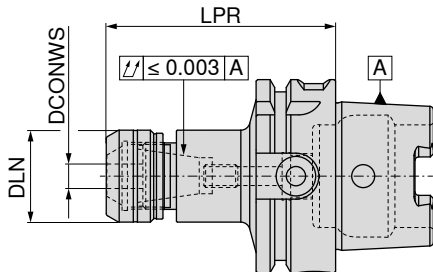
Coolant transfer pipe	Others
→ 152	→ 278

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



G 2,5 n_{max} 25000

82 700 ...

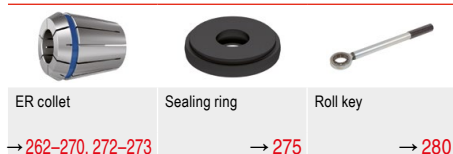
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	21657
HSK-A 63	2 - 20	75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



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

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

Accessories



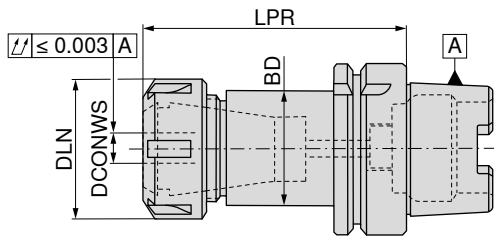
ER collet → 262-270, 272-273 Sealing ring → 275 Roll key → 280

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000








82 743 ...

	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)	21157
	HSK-A 63	1 - 10	100	32	8 - 56	426E (ER16)	21057
	HSK-A 63	1 - 16	100	42	24 - 104	430E (ER25)	21657
	HSK-A 63	2 - 20	100	50	24 - 136	470E (ER32)	22057
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	22657
long	HSK-A 100	1 - 10	100	32	8 - 56	426E (ER16)	21055
	HSK-A 100	1 - 16	100	42	24 - 104	430E (ER25)	21655
	HSK-A 100	2 - 20	100	50	24 - 136	470E (ER32)	22055
	HSK-A 100	3 - 26	100	63	176	472E (ER40)	22655
extra-long	HSK-A 63	1 - 10	160	22	8 - 56	426E (ER16 mini)	41157
	HSK-A 63	1 - 10	160	32	8 - 56	426E (ER16)	41057
	HSK-A 63	1 - 16	160	42	24 - 104	430E (ER25)	41657
	HSK-A 63	2 - 20	160	50	24 - 136	470E (ER32)	42057
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	42657
	HSK-A 100	1 - 10	160	32	8 - 56	426E (ER16)	41055
	HSK-A 100	1 - 16	160	42	24 - 104	430E (ER25)	41655
	HSK-A 100	2 - 20	160	50	24 - 136	470E (ER32)	42055
	HSK-A 100	3 - 26	160	63	176	472E (ER40)	42655
	extra long	HSK-A 100	1 - 10	200	32	8 - 56	426E (ER16)
HSK-A 100		1 - 16	200	42	24 - 104	430E (ER25)	51655
HSK-A 100		2 - 20	200	50	24 - 136	470E (ER32)	52055
HSK-A 100		3 - 26	200	63	176	472E (ER40)	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

	 Lock nut IK	 Lock nut	 Y clamping key	 ER Mini clamping key	 Mini lock nut	 Mini IK	 Stop screw IK
	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...
Spare parts for collet							
426E (ER16 mini)				101	066	058	30000
426E (ER16)	054	054	116				
430E (ER25)	055	055	125				
470E (ER32)	056	056	132				
472E (ER40)	057	057	140				

Accessories

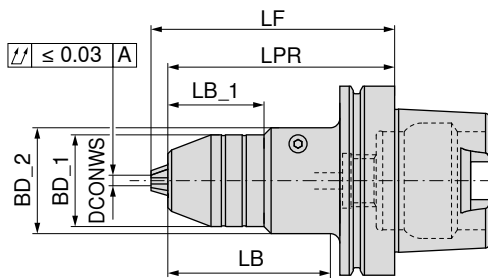
		
ER collet	Coolant transfer pipe	Others
→ 262–270, 273	→ 152	→ 278

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	613
HSK-A 63	2,5 - 16	51,0	56	50,9		127,5	116,9	616
HSK-A 100	0,5 - 13	48,5	56	50,9	86	129,0	120,0	113
HSK-A 100	2,5 - 16	51,0	56	50,9	86	130,5	120,0	116

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

Accessories

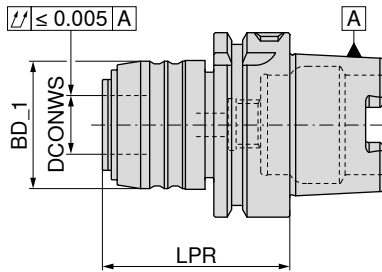


Others

→ 278

Synchro tapping chuck with minimum length compensation

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



83 724 ...

Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2
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

612
620
112
120

Accessories

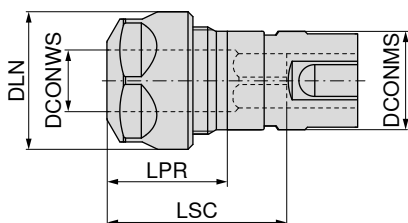


Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

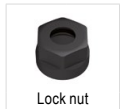
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32

012 ¹⁾
020

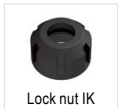
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

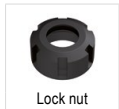
Spare parts for Article no.	M22x1,5 - SW25	62 950 ...	83 950 ...	62 950 ...	83 357 ...
		044	054 055	054 055	116 125
83 608 012	M22x1,5 - SW25	044	M22x1,5 054	M22x1,5 054	116
83 608 020			M32x1,5 055	M32x1,5 055	125



Lock nut



Lock nut IK



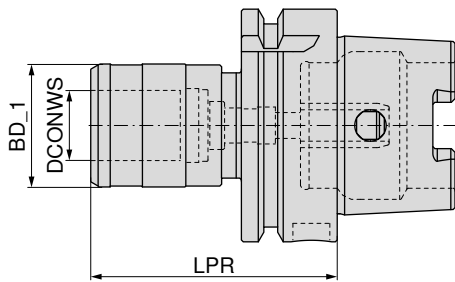
Lock nut



Y clamping key

Quick change tap chuck with length compensation

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



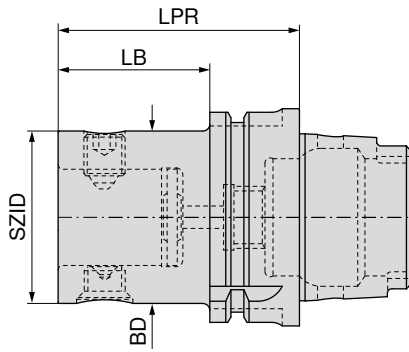
Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 712 ...
HSK-A 63	01	72	41	19	7,5	612
HSK-A 63	02	110	60	31	10	620
HSK-A 100	01	80	41	19	7,5	112
HSK-A 100	02	100	60	31	10	120

Accessories

Collet	Coolant transfer pipe	Others
→ 282, 284-286	→ 152	→ 278

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	06390
HSK-A 63	A06 30130	ABS 32	32	50	24	06389
HSK-A 63	A06 30140	ABS 40	40	60	34	06388
HSK-A 63	A06 30150	ABS 50	50	70	44	06397
HSK-A 63	A06 30160	ABS 63		80	54	06396
HSK-A 63	A06 30170	ABS 80		100	74	06392
HSK-A 100	A06 50180	ABS 100		100	71	10091
HSK-A 100	A06 50120	ABS 25	25	60	31	10090
HSK-A 100	A06 50130	ABS 32	32	60	31	10089
HSK-A 100	A06 50140	ABS 40	40	80	51	10088
HSK-A 100	A06 50150	ABS 50	50	80	51	10097
HSK-A 100	A06 50160	ABS 63	63	80	51	10096
HSK-A 100	A06 50170	ABS 80	80	90	61	10092

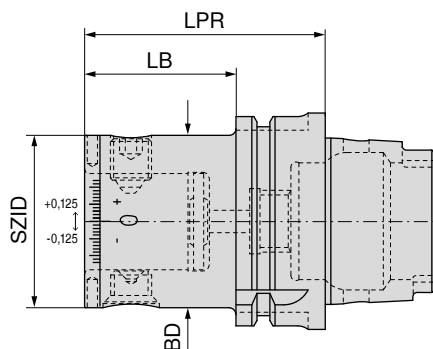
Eccentric adjuster with ABS Connection

▲ 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

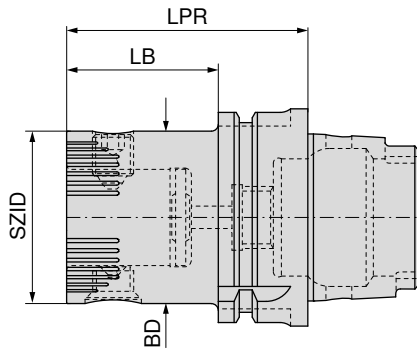


84 203 ...

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

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB	84 206 ...
			mm	mm	mm	
HSK-A 63	A06 30251	ABS 50	50	70	44	06397
HSK-A 63	A06 30261	ABS 63		80	54	06396
HSK-A 63	A06 30270	ABS 80		100	74	06392
HSK-A 100	A06 50251	ABS 50	50	80	51	10097
HSK-A 100	A06 50261	ABS 63	63	80	51	10096
HSK-A 100	A06 50270	ABS 80	80	90	61	10092

Clamping screw	Taper screw
84 950 ...	84 950 ...
20300	20400
25500	27300
25600	25100

Spare parts

SZID

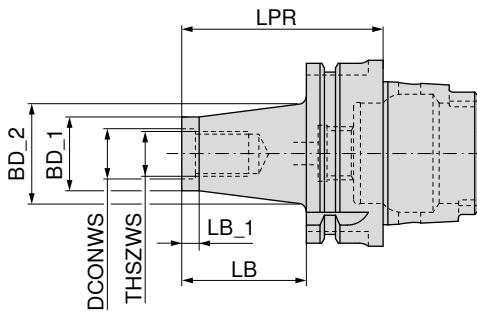
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

Accessories

		
Coolant transfer pipe	Extension	Others
→ 152	→ 183	→ 278

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

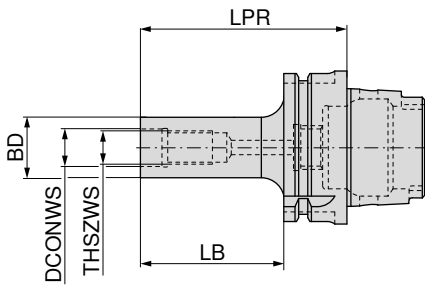
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	
		mm	mm	mm	mm	mm	mm	
HSK-A 63	M8	8,5	25	13,8	15	12	51	081
HSK-A 63	M8	8,5	50	13,8	23	12	76	082
HSK-A 63	M8	8,5	75	13,8	25	12	101	083
HSK-A 63	M8	8,5	100	13,8	30	12	126	084
HSK-A 63	M10	10,5	25	18,0	23	12	51	101
HSK-A 63	M10	10,5	50	18,0	25	12	76	102
HSK-A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

Accessories

Extension-Reduction set	Coolant transfer pipe	Others
→ 251	→ 152	→ 278

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	
		mm	mm	mm	mm	
HSK-A 63	M8	8,5	13,8	50	76	082
HSK-A 63	M10	10,5	18,0	50	76	102
HSK-A 63	M10	10,5	18,0	100	126	104
HSK-A 63	M12	12,5	21,0	50	76	122
HSK-A 63	M12	12,5	21,0	100	126	124
HSK-A 63	M16	17,0	29,0	50	76	162
HSK-A 63	M16	17,0	29,0	100	126	164

Accessories

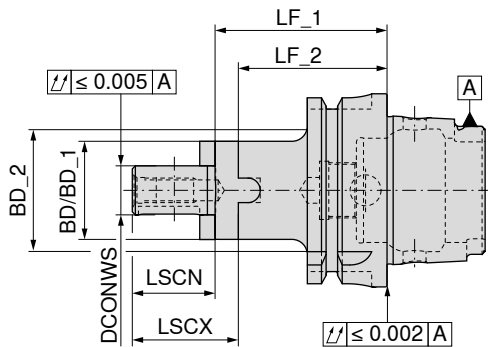
Extension-Reduction set → 251	Coolant transfer pipe → 152	Others → 278

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		
short	HSK-A 63	16	60	50	32			27	17		11657
	HSK-A 63	22	60	48	40			31	19		12257
	HSK-A 63	27	60	48	48			33	21		12757
	HSK-A 63	32	60	46	58			38	24		13257
	HSK-A 63	40	70	56	70			41	27		14057
	HSK-A 100	16	60	50	32			27	17		11655
	HSK-A 100	22	60	48	40			31	19		12255
	HSK-A 100	27	60	48	48			33	21		12755
	HSK-A 100	32	60	46	58			38	24		13255
	HSK-A 100	40	70	56	70			41	27		14055
medium length	HSK-A 63	16	100	90	32			27	17		21657
	HSK-A 63	22	100	88	40			31	19		22257
	HSK-A 63	27	100	88	48			33	21		22757
	HSK-A 63	32	100	86	58			38	24		23257
	HSK-A 63	40	100	86	70			41	27		24057
extra-long	HSK-A 63	16	160	150		32	43,21	27	17	4,5°	41657
	HSK-A 63	22	160	148		40	47,25	31	19	3,0°	42257
	HSK-A 63	27	160	148	48			33	21		42757
	HSK-A 63	32	160	146	58			38	24		43257
	HSK-A 63	40	160	146	70			41	27		44057

Parallel key	Drive ring	clamping screw
83 950 ...	83 370 ...	83 950 ...

Spare parts

DCONWS					
16	4 x 4 x 20	284	116	M8x25	113
22	6 x 6 x 25	285	122	M10x25	124
27	7 x 7 x 25	286	127	M12x30	125
32	8 x 7 x 28	287	132	M16x35	126
40	10 x 8 x 32	288	140	M20x40 - SW17	112

Accessories

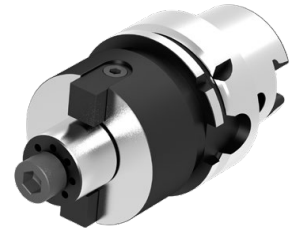
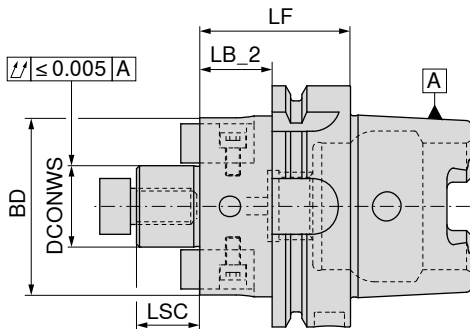
Milling Adapter Rings	Coolant transfer pipe	Others
→ 257	→ 152	→ 278

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

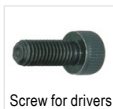


G 2,5 n_{max} 25000

82 315 ...

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

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



Screw for drivers



Driver



clamping screw

83 950 ...

83 950 ...

83 950 ...

Spare parts
DCONWS

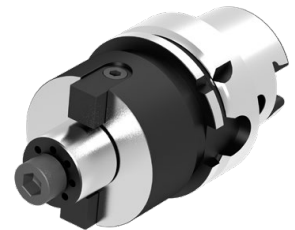
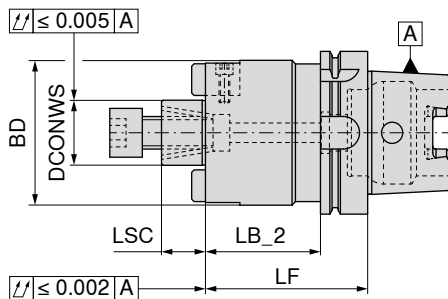
22	M4x8	51700	10x7x20,5	51500	M10x25	124
27	M5x8	51800	12x9x24,3	51600	M12x30	125

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw and drive dogs








G 2,5 n_{max} 25000

82 745 ...

	Adapter	DCONWS	LB_2	LF	BD	BD_1	BD_2	LSC	
		mm	mm	mm	mm	mm	mm	mm	
short	HSK-A 63	16	34	60	38			17	11657
	HSK-A 63	22	34	60	48			19	12257
	HSK-A 63	27	34	60	58			21	12757
	HSK-A 63	32	34	60	78			24	13257
	HSK-A 63	40	34	70	88			27	14057 ¹⁾
medium length	HSK-A 100	16	31	60	38			17	11655
	HSK-A 100	22	31	60	48			19	12255
	HSK-A 100	27	31	60	58			21	12755
	HSK-A 100	32	31	60	78			24	13255
	HSK-A 100	40	41	70	88			27	14055 ¹⁾
long	HSK-A 63	16	104	130		38	44,3	17	31657
	HSK-A 63	22	104	130		48	50,3	19	32257
	HSK-A 63	27	104	130	58			21	32757
	HSK-A 63	32	104	130	78			24	33257
	HSK-A 63	40	104	130	88			27	34057 ¹⁾
	HSK-A 100	16	101	130		38	46,3	17	31655
	HSK-A 100	22	101	130		48	56,3	19	32255
	HSK-A 100	27	101	130		58	66,3	21	32755
	HSK-A 100	32	101	130		78	80,3	24	33255
	HSK-A 100	40	101	130	88			27	34055 ¹⁾
extra-long	HSK-A 63	16	74	100		38	44,3	17	21657
	HSK-A 63	22	74	100		48	50,3	19	22257
	HSK-A 63	27	74	100	58			21	22757
	HSK-A 63	32	74	100	78			24	23257
	HSK-A 63	40	74	100	88			27	24057 ¹⁾
	HSK-A 100	16	71	100		38	46,3	17	21655
	HSK-A 100	22	71	100		48	56,3	19	22255
	HSK-A 100	27	71	100		58	66,3	21	22755
	HSK-A 100	32	71	100		78	80,3	24	23255
	HSK-A 100	40	71	100	88			27	24055 ¹⁾
extra-long	HSK-A 63	16	134	160		38	44,3	17	41657
	HSK-A 63	22	134	160		48	50,3	19	42257
	HSK-A 63	27	134	160	58			21	42757
	HSK-A 63	32	134	160	78			24	43257
	HSK-A 63	40	134	160	88			27	44057 ¹⁾
	HSK-A 100	16	131	160		38	46,3	17	41655
	HSK-A 100	22	131	160		48	56,3	19	42255
	HSK-A 100	27	131	160		58	66,3	21	42755
	HSK-A 100	32	131	160		78	80,3	24	43255
	HSK-A 100	40	131	160	88			27	44055 ¹⁾

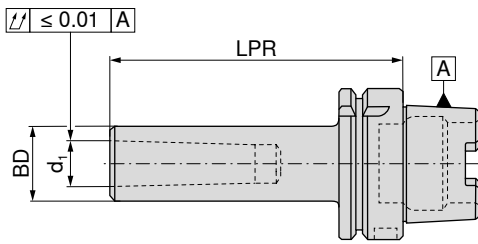
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

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

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

▲ also available with Balluff chip on request



NEW



G 6,3 n_{max} 8000

82 746 ...

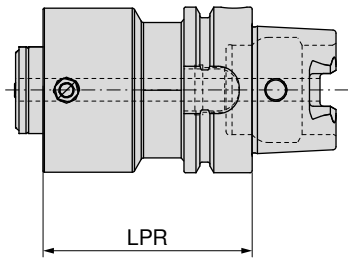
Adapter	d ₁	LPR	BD	
		mm	mm	
HSK-A 63	MK1	100	25	01057
HSK-A 63	MK2	120	32	02057
HSK-A 63	MK3	140	40	03057
HSK-A 63	MK4	160	48	04057
HSK-A 100	MK2	120	32	02055
HSK-A 100	MK3	150	40	03055
HSK-A 100	MK4	170	48	04055

Accessories

Morse taper adapter sleeve → 236	Coolant transfer pipe → 152	Others → 278

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**



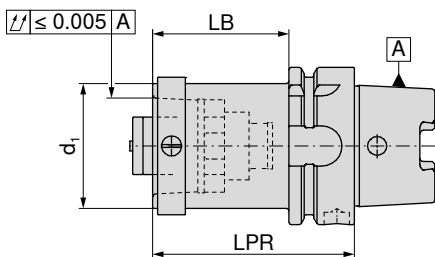
Adapter	LPR mm	84 621 ...
HSK-T 63	80	08037
HSK-T 63	120	12037
HSK-T 100	125	12535
HSK-T 100	160	16035
HSK-T 100	200	20035

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

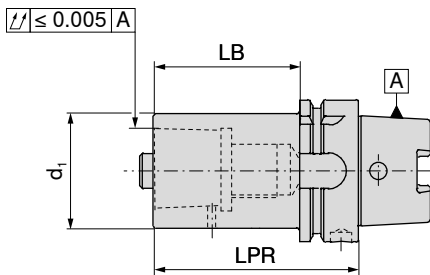


Adapter	d ₁	LB mm	LPR mm	84 040 ...
HSK-A 63	HSK-A 40	54	80	06359
HSK-A 63	HSK-A 50	54	80	06358
HSK-A 100	HSK-A 50	51	80	10058
HSK-A 100	HSK-A 63	71	100	10057

HSK-A/PSC adapter

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


Scope of supply:
with tightening screw



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


Spare parts

d ₁	84 950 ...	84 950 ...
PSC 32	127 SW8	122
PSC 40	128 SW8	123
PSC 50	129 SW10	124
PSC 63	130 SW14	126
PSC 80	130 SW14	126



Threaded ring

84 950 ...

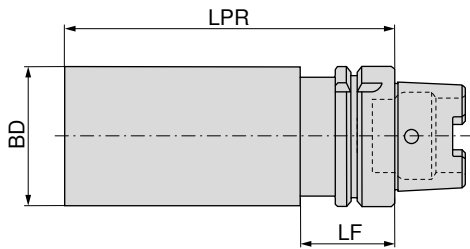


tightening screw

84 950 ...

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 ...

16357

18057

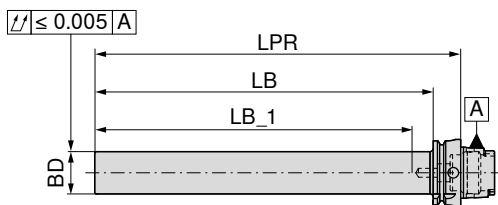
16355

18055

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 ...

063

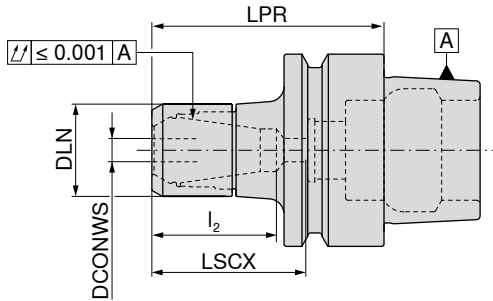
100

ER Precision Collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 30000

84 776 ...

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

→ Transmittable torque moments, Page 306



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 ...
013	003

Spare parts for collet

430E (ER25)

Accessories

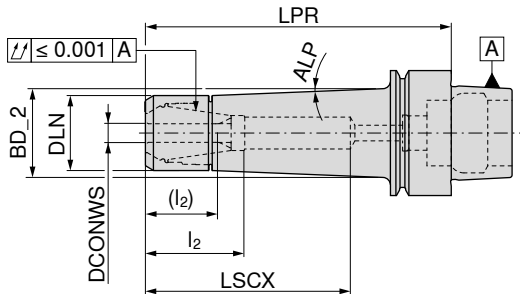
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 262-270, 273	→ 274	→ 280	→ 280	→ 152	→ 278

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)	07200
	HSK-E 32	1 - 7	50	16	17.5	31	18 - 20	4.5°	4008E (ER11 mini)	307
	HSK-E 40	1 - 7	50	16	17.5	31	18 - 20	4.5°	4008E (ER11 mini)	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	101
	HSK-E 32	1 - 10	55	22	25.8	40	28 - 32 (12 - 22)	4.5°	426E (ER16 mini)	310
	HSK-E 40	1 - 10	55	22	25.8	38	28 - 30 (12 - 20)	4.5°	426E (ER16 mini)	410
	HSK-E 50	1 - 10	60	22	25.4	39	28 - 31 (12 - 21)	4.5°	426E (ER16 mini)	510
medium length	HSK-E 40	1 - 7	100	16	25.4	64	18 - 36 (12 - 26)	4.5°	4008E (ER11 mini)	408
	HSK-E 40	1 - 10	100	22	29.0	66	28 - 48 (12 - 38)	2.5°	426E (ER16 mini)	411
	HSK-E 50	1 - 10	100	22	28.2	72	28 - 48 (12 - 38)	2.5°	426E (ER16 mini)	511

→ Transmittable torque moments, Page 306

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

Spare parts for collet

4008E (ER11 mini)				
426E (ER16 mini)	035	041	034	036

84 950 ...	84 950 ...	83 950 ...	83 950 ...

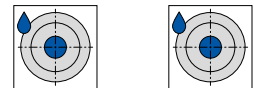
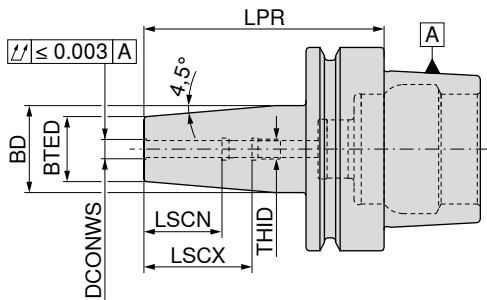
Accessories

ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 262–269, 273	→ 274	→ 279	→ 280	→ 280	→ 152	→ 278

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	G 2,5 n _{max} 25000	
									84 308 ...	84 309 ...
short	HSK-E 40	3	60	10	15	28	12	M6	103	
	HSK-E 40	4	60	10	15	28	16	M6	104	
	HSK-E 40	5	60	10	15	30	20	M6	105	
	HSK-E 40	6	80	21	27	36	26	M5	106	
	HSK-E 40	8	80	21	27	36	26	M6	108	
	HSK-E 40	10	80	24	32	41	31	M8x1	110	
	HSK-E 40	12	90	24	32	47	37	M10x1	112	
	HSK-E 40	14	90	27	34	47	37	M10x1	114	
	HSK-E 40	16	90	27	34	50	40	M12x1	116	
	HSK-E 50	3	80	10	15	22	12	M6		103
	HSK-E 50	4	80	15	22	26	16	M6		104
	HSK-E 50	5	80	15	22	30	20	M6		105
	HSK-E 50	6	80	21	27	36	26	M5		106
	HSK-E 50	8	80	21	27	36	26	M6		108
	HSK-E 50	10	85	24	32	41	31	M8x1		110
	HSK-E 50	12	90	24	32	47	37	M10x1		112
	HSK-E 50	14	90	27	34	47	37	M10x1		114
	HSK-E 50	16	95	27	34	50	40	M12x1		116
	HSK-E 50	18	95	33	42	50	40	M12x1		118
	HSK-E 50	20	100	33	42	52	42	M16x1		120

→ Min. clamping depth, Page 306

Spare parts DCONWS	83 950 ...		83 950 ...		83 950 ...	
	M6x14 - SW2	417	M5x14 - SW2	411	M5x12,5 - SW2,5	418
3 - 5					M6x12,5 - SW3	419
6					M8x1x13,5 - SW3	420
8					M10x1x13,5 - SW5	421
10					M12x1x13,5 - SW5	422
12 - 14					M16x1x13,5 - SW5	423
16 - 18						
20						

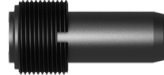
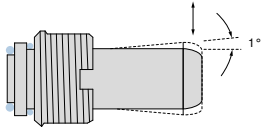
Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals

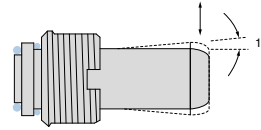


Coolant transfer pipe with strainer

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



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

		NEW
		83 760 ...
Adapter	THOD	
HSK 63	M18 x 1	16300
HSK 100	M24 x 1,5	20000



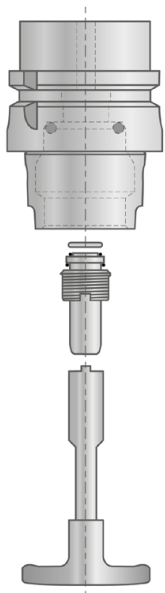
For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole

Key

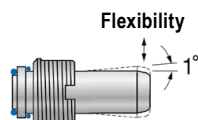


		83 758 ...
Adapter		
HSK 32		032
HSK 40		040
HSK 50		050
HSK 63		063
HSK 80		080
HSK 100		100

Coolant pipe for HSK tools



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

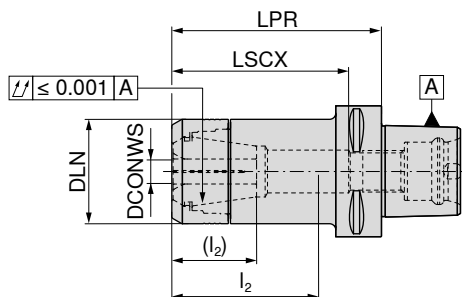


ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without 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	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	502
PSC 50	1 - 16	60	40	48		430E (ER25)	505
PSC 50	2 - 20	60	50	49		470E (ER32)	507
PSC 63	1 - 10	60	30	44		426E (ER16)	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	602
PSC 63	1 - 16	60	40	38		430E (ER25)	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	608
PSC 63	2 - 20	60	50	42		470E (ER32)	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	611
PSC 63	3 - 26	65	63	51		472E (ER40)	612

→ Transmittable torque moments, Page 306



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

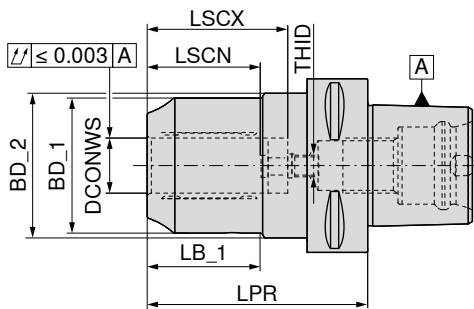
	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
Spare parts for collet	84 950 ...	84 950 ...	83 950 ...	83 950 ...
426E (ER16)	011	001	M11x1 - SW6	341
430E (ER25)	013	003	M18x1,5 - SW6	432
470E (ER32)	015	005	M22x1,5 - SW6	402
472E (ER40)	017	007	M28x1,5 - SW6	400

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



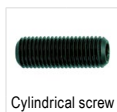
G 2,5 n_{max} 25000

84 108 ...

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

62000

→ Min. clamping depth, Page 306



Cylindrical screw

83 950 ...



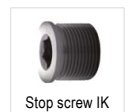
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

84 108 62000	M5x5 - SW2,5	157	SW5	050	M10x1x14	429	M16x1x13,5 - SW8	424
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Accessories

Reduction sleeve	Coolant transfer pipe	Others
→ 276	→ 172	→ 278

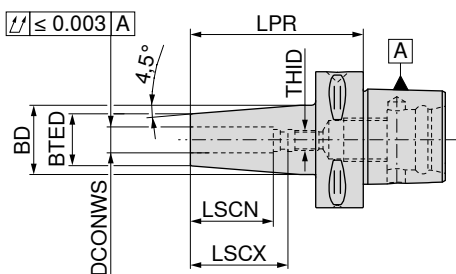
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



G 6,3 n_{max} 15000

84 104 ...

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

→ Min. clamping depth, Page 306

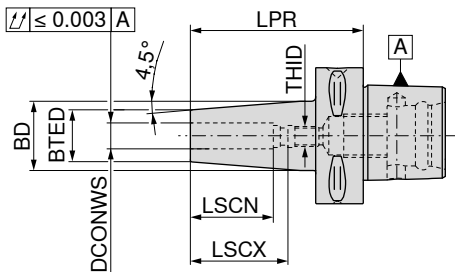
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



G 6,3 n_{max} 15000

G 6,3 n_{max} 15000

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

→ Min. clamping depth, Page 306

Spare parts heat shrink adapter



Backstop screw IK

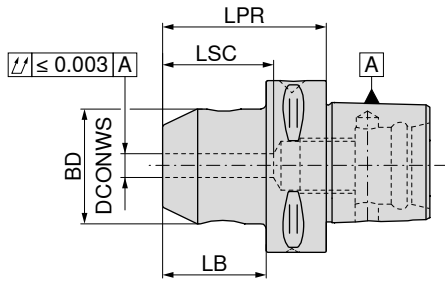
84 950 ...

Spare parts
DCONWS

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

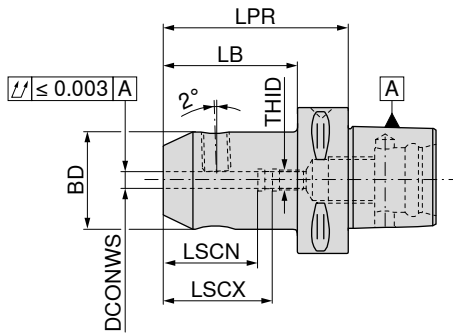
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	
PSC 32	6	45	25	30	35	306
PSC 32	8	45	28	30	35	308
PSC 32	10	50	35	35	39	310
PSC 32	12	55	42	40	44	312
PSC 40	6	50	25	30	35	406
PSC 40	8	50	28	30	35	408
PSC 40	10	50	35	30	39	410
PSC 40	12	55	42	35	44	412
PSC 40	14	55	44	35	44	414
PSC 40	16	55	48	35	47	416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

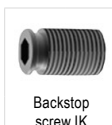


G 6,3 n_{max} 15000

84 102 ...

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

1) Version with two grubscrews



62 950 ...

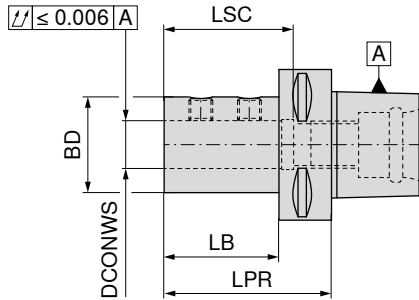
84 950 ...

Spare parts

DCONWS				
6	M6x10	006	M5	146
8	M8x10	008	M6	147
10	M10x12	010	M8	148
12 - 14	M12x16	012	M10	149
16 - 18	M14x16	016	M12	150
20	M16x16	020	M16	151
25	M18x2x20	025	M16	151
32	M20x2x20	032	M16	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**



84 128 ...

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



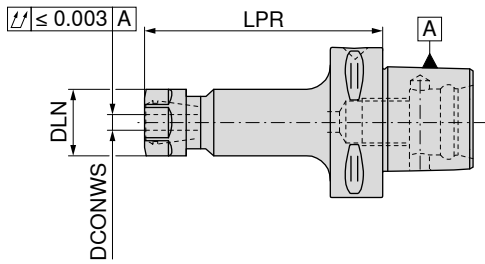
83 950 ...

Spare parts

DCONWS		
16 - 20	M10x1x10	180
25 - 32	M12x1x12	181
40 - 50	M16x1x13	182

ER Collet chuck

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

84 114 ...

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



Lock nut

62 950 ...

Spare parts for collet

426E (ER16)

M22x1,5 - SW25

044

Accessories

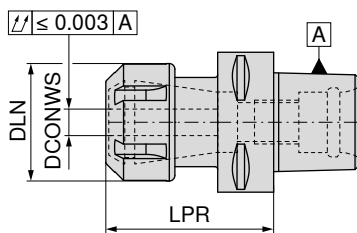


ER collet

→ 262-269, 273

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

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	62 950 ...		83 950 ...		62 950 ...		83 357 ...	
	Lock nut	045	Lock nut IK	053	Lock nut	055	Y clamping key	12000
428E (ER20)	M25x1,5 - SW30							
430E (ER25)			M25x1,5	055	M32x1,5	055		125
470E (ER32)			M40x1,5	056	M40x1,5	056		132
472E (ER40)			M50x1,5	057	M50x1,5	057		140

Accessories

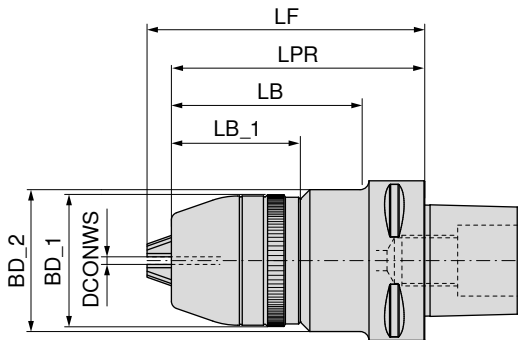


Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 2,5 n_{max} 12000

84 111 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	
PSC 40	0,5 - 13	48,5	56	50,90	78,0	100	109,0	01395
PSC 40	2,5 - 16	51,0	56	52,15	78,0	100	110,5	01695
PSC 50	0,5 - 13	48,5	56	50,90	77,0	100	109,0	01394
PSC 50	2,5 - 16	51,0	56	52,15	77,0	100	110,5	01694
PSC 63	0,5 - 13	48,5	56	50,90	74,5	100	109,0	01393
PSC 63	2,5 - 16	51,0	56	52,15	74,5	100	110,5	01693

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

Accessories

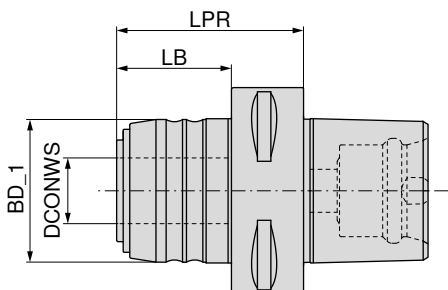


Others

→ 278

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 ...

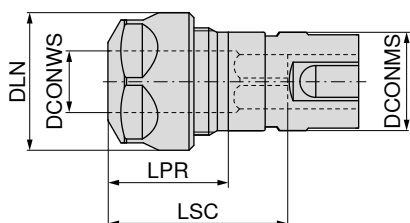
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2	612
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2	620

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	012 ¹⁾
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	020

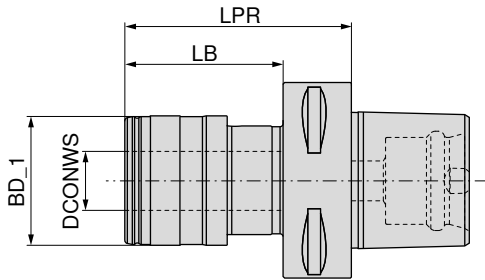
1) with 6 position lock nut

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 ...	
	Lock nut	Lock nut IK	Lock nut	Y clamping key	Lock nut	Lock nut	Y clamping key	
83 608 012	M22x1,5 - SW25	044	M22x1,5	054	M22x1,5	054	116	
83 608 020			M32x1,5	055	M32x1,5	055	125	

Quick change tap chuck with length compensation

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



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

Accessories

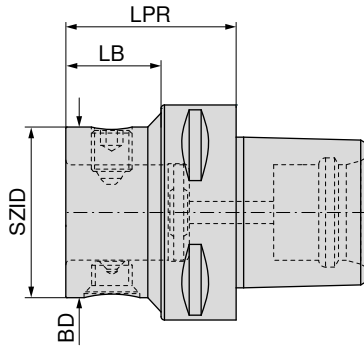


Collet


→ 282-286

Adapter with ABS Connection

▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB	84 215 ...
			mm	mm	mm	
PSC 40	A69 04050	ABS 50	50	50	30	04097
PSC 50	A69 05050	ABS 50	50	50	30	05097
PSC 63	A69 06050	ABS 50	50	50	28	06397
PSC 63	A69 06060	ABS 63	63	60	36	06396
PSC 80	A69 08050	ABS 50	50	50	23	08097
PSC 80	A69 08060	ABS 63	63	60	30	08096
PSC 80	A69 08070	ABS 80	80	80	50	08092



Clamping screw

84 950 ...



Taper screw

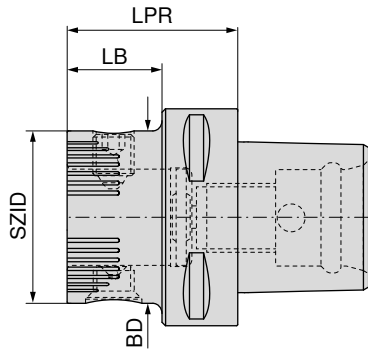
84 950 ...

Spare parts

SZID	20300	20400
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

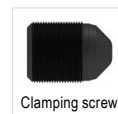
Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request

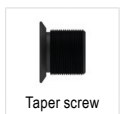


84 206 ...

Adapter	KOMET no.	SZID	BD mm	LPR mm	LB mm	
PSC 50	A69 05060	ABS 50	50	50	30	05094
PSC 63	A69 06070	ABS 50	50	50	28	05093
PSC 63	A69 06080	ABS 63	63	60	38	06393
PSC 80	A69 08090	ABS 50	50	50	23	05086
PSC 80	A69 08100	ABS 63	63	60	30	06386
PSC 80	A69 08110	ABS 80	80	80	50	08086



84 950 ...



84 950 ...

Spare parts

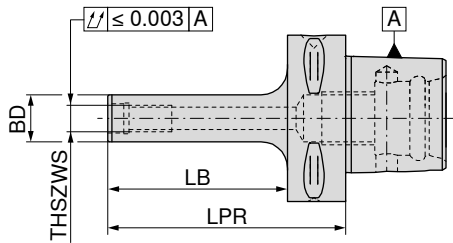
SZID		
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

Accessories



Adapter for screw-in milling cutter

▲ also available with Balluff chip on request



G 2,5 n_{max} 20000

84 110 ...

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

Accessories



Coolant transfer pipe

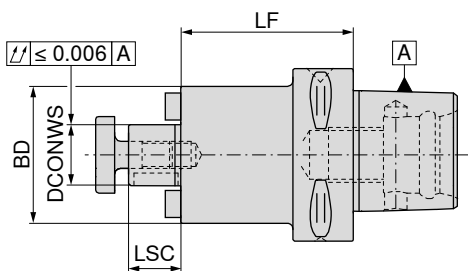
→ 172

Shell mill adapters

- ▲ for cutters with longitudinal or transverse groove
- ▲ also available with Balluff chip on request

Scope of supply:

Holder with clamping screw and drive key



G 6,3 n_{max} 15000

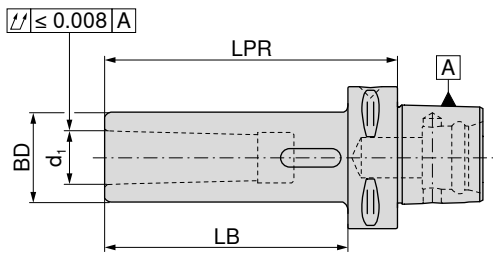
84 122 ...

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

	drive key	drive dog	Cross nut key	Cross screw	clamping screw
	84 950 ...	84 950 ...	83 368 ...	83 367 ...	83 950 ...
Spare parts					
DCONWS					
16	108	113	116	016	113
22	109	114	122	022	124
27	110	115	127	027	125
32	111	116	132	032	126
40	112	117	140	040	112
			M8	M8x25	
			M10	M10x25	
			M12	M12x30	
			M16	M16x35	
			M20	M20x40 - SW17	

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

▲ also available with Balluff chip on request

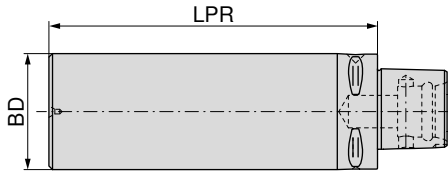


84 126 ...

Adapter	d ₁	LPR mm	BD mm	LB mm	
PSC 40	MK2	110	32	90	402
PSC 40	MK3	130	40	119	403
PSC 50	MK2	110	32	90	502
PSC 50	MK3	130	40	110	503
PSC 50	MK4	150	48	132	504
PSC 63	MK2	110	32	88	602
PSC 63	MK3	130	40	108	603
PSC 63	MK4	150	48	128	604
PSC 80	MK2	120	32	90	802
PSC 80	MK3	140	40	110	803
PSC 80	MK4	160	48	130	804

Blank

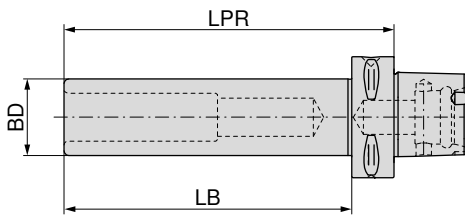
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	
PSC 40	40	95	402
PSC 40	40	120	403
PSC 40	60	165	404
PSC 40	80	75	405
PSC 40	80	120	406
PSC 40	100	85	408
84 134 ...			
PSC 50	50	125	502
PSC 50	50	150	503
PSC 50	75	175	504
PSC 50	90	80	506
PSC 50	95	150	508
PSC 50	110	90	510
PSC 63	63	180	602
PSC 63	75	195	604
PSC 63	110	85	606
PSC 63	120	180	608
PSC 63	130	95	610
PSC 80	80	200	802
PSC 80	120	160	804
PSC 80	130	90	806
PSC 80	145	200	808

Test bar

▲ also available with Balluff chip on request



84 136 ...

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

030
040
050
060
080

Coolant pipe

Scope of supply:
complete, including seals



84 116 ...

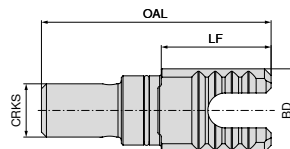
Adapter	THOD
PSC 40	M14 x 1,5
PSC 50	M16 x 1,5
PSC 63	M20 x 2,0
PSC 80	M20 x 2,0

04000
05000
06300
08000

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
PSC 40	26,3	56	20	M14x1,5
PSC 50	33,0	69	25	M16x1,5
PSC 63	33,0	79	31	M20x2

04000
05000
06300

Key



84 117 ...

Adapter
PSC 40
PSC 50
PSC 63
PSC 80

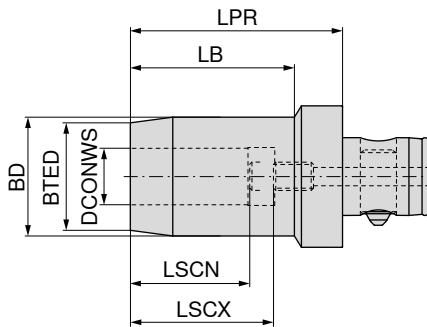
04000
05000
06300
08000

Hydraulic chuck with ABS connection

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

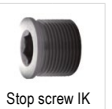
Scope of supply:

Base body including backstop screw



84 253 ...

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	00688
ABS 40	8	24	28	60	42,0	37	27	00888
ABS 40	10	26	30	65	47,5	41	31	01088
ABS 40	12	28	32	65	48,0	46	36	01288
ABS 50	6	22	26	55	33,5	37	27	00697
ABS 50	8	24	28	55	34,0	37	27	00897
ABS 50	10	26	30	65	45,0	41	31	01097
ABS 50	12	28	32	65	45,5	46	36	01297
ABS 50	14	30	34	65	46,0	46	36	01497
ABS 50	16	34	38	70	52,0	49	39	01697
ABS 50	18	36	40	70	52,5	49	39	01897
ABS 50	20	38	42	75	58,0	51	41	02097
ABS 63	20	38	42	78	56,0	51	41	02096
ABS 63	25	53	57	85	60,0	57	47	02596
ABS 63	32	60	64	90	61,0	61	51	03296



83 950 ...

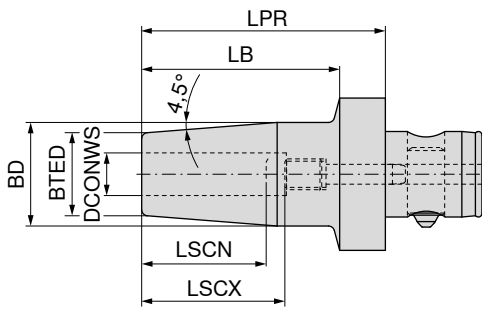
Spare parts

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

For an overview of the ABS spare parts, take a look at **page 307**.

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



Backstop screw

84 950 ...

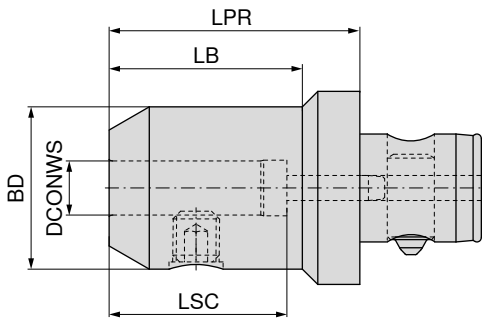
Spare parts

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

1 For an overview of the ABS spare parts, take a look at **page 307**.

Cylindrical shank adapter (Weldon)

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



84 221 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	
ABS 50	A32 40010	6	45	25,0	27	40	00697
ABS 50	A32 40020	8	45	28,0	27	40	00897
ABS 50	A32 40030	10	55	35,0	37	44	01097
ABS 50	A32 40040	12	65	42,0	50	49	01297
ABS 50	A32 40080	14	65	44,0	50	49	01497
ABS 50	A32 40050	16	65	48,0	50	52	01697
ABS 50	A32 40090	18	65	49,9	50	52	01897
ABS 50	A32 40060	20	65	52,0	50	54	02097
ABS 50	A32 40070	25	75	65,0	60	60	02597 ¹⁾
ABS 63	A32 50040	12	65	42,0	50	49	01296
ABS 63	A32 50100	14	65	44,0	50	49	01496
ABS 63	A32 50050	16	65	48,0	50	52	01696
ABS 63	A32 50110	18	65	50,0	50	52	01896
ABS 63	A32 50060	20	65	52,0	45	54	02096
ABS 63	A32 50070	25	75	65,0	60	60	02596 ¹⁾
ABS 63	A32 50080	32	80	72,0	65	64	03296 ¹⁾
ABS 80	A32 60060	20	65	52,0	45	54	02092
ABS 80	A32 60070	25	75	65,0	55	60	02592 ¹⁾
ABS 80	A32 60080	32	80	72,0	66	64	03292 ¹⁾


1) Version with two grub screws



62 950 ...

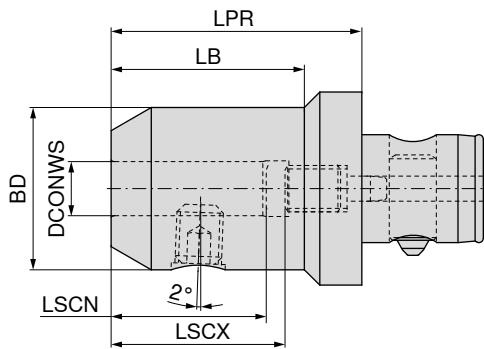
Spare parts

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

 For an overview of the ABS spare parts, take a look at [page 307](#).

Cylindrical Shank Adapter (Whistle Notch)

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

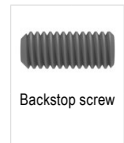


84 220 ...

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

1) Version with two grub screws

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



62 950 ... 84 950 ...

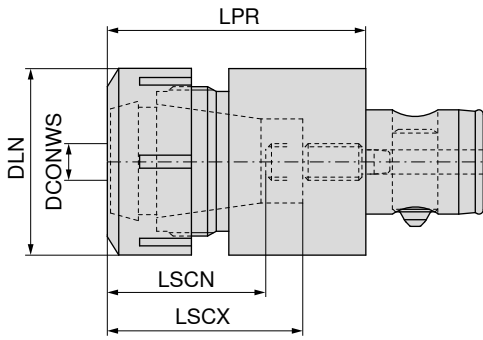
Spare parts DCONWS				
6	M6x10	006	M5x16	20500
8	M8x10	008	M6x16 - SW2,5	20600
9	M8x10	008	M8x1x16 - SW3	20800
10	M10x12	010	M8x1x16 - SW2,5	20700
12	M12x16	012	M10x1x18 - SW3	20900
13	M12x16	012	M12x1x17 - SW3	21000
14	M12x16	012	M12x1x17 - SW3	21000
16	M14x16	016	M14x1x19 - SW4	21100
18	M14x16	016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

 For an overview of the ABS spare parts, take a look at **page 307**.

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



84 224 ...

Adapter	KOMET no.	for collet	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	
ABS 25	A33 11120	426E (ER16)	1 - 10	40,1	28	31	28	01690 ¹⁾
ABS 32	A33 12130	428E (ER20)	1 - 13	52,5	34	39	35	02089 ¹⁾
ABS 40	A33 13141	430E (ER25)	1 - 16	62,0	42	46	43	02588
ABS 50	A33 14151	470E (ER32)	2 - 20	69,3	50	51	48	03297
ABS 63	A33 15161	472E (ER40)	3 - 26	78,3	63	55	52	04096

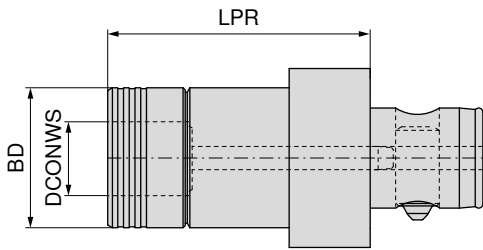
1) with 6 position lock nut

Spare parts for collet	62 950 ...		83 950 ...		62 950 ...		84 950 ...	
	Part	Code	Part	Code	Part	Code	Part	Code
426E (ER16)	M22x1,5 - SW25	044	M22x1,5	054	M5x8 - SW2	22500		
428E (ER20)	M25x1,5 - SW30	045	M25x1,5	053	M6x12 - SW2,5	22000		
430E (ER25)			M32x1,5	055	M8x1x14 - SW4	22600		
470E (ER32)			M40x1,5	056	M40x1,5	056	M10x1x14 - SW5	22700
472E (ER40)			M50x1,5	057	M50x1,5	057	M12x1x18 - SW8	22800

For an overview of the ABS spare parts, take a look at **page 307**.

Quick change tap chuck with length compensation

▲ With length compensation under tension and compression (LZD)



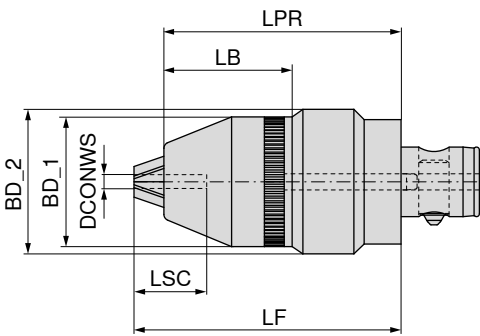
84 225 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	SZID	
ABS 32	A34 32060	19	39	69	01	01989
ABS 40	A34 33060	19	39	73	01	01988
ABS 50	A34 34060	19	39	72	01	01997
ABS 50	A34 34070	31	60	98	02	03197
ABS 63	A34 35070	31	60	111	02	03196

Short drill chuck

Scope of supply:

Toolholder including clamping key SW4



G 6,3 n_{max} 10000

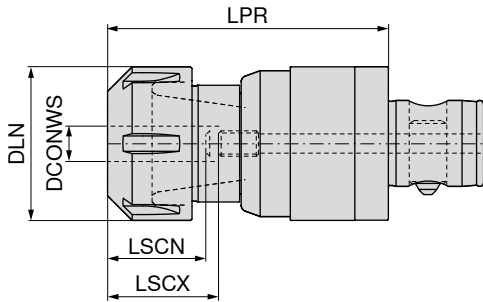
84 247 ...

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	01397
ABS 50	2,5 - 16	52	57,5	95	29	105,5	52,0	01697

Accessories

Collet	Pull studs	Others
→ 282-286	→ 57	→ 278

Synchro tapping chuck



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	02089
ABS 50	50795135002000	ER 20	1 - 13	85,0	34	42	29	02097
ABS 50	50795135003200	ER 32	2 - 20	90,5	50	45	31	03297

 For an overview of the ABS spare parts, take a look at **page 307**.

Accessories



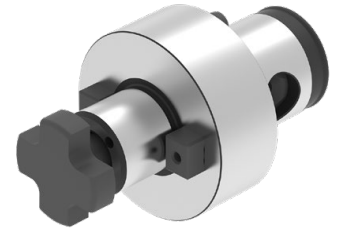
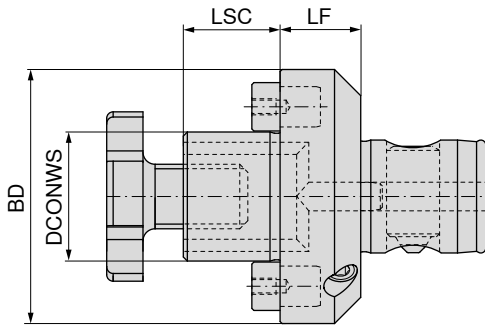
ER collet

→ 262-270, 272-273

Shell mill adapter

Scope of supply:

Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS mm	LSC mm	LF mm	BD mm	84 228 ...	84 228 ...
ABS 50	A40 24023	16	17	20	50		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	14092	
ABS 100	A40 27052	32	24	25	100		03291
ABS 100	A40 17062	40	30	38	88	14091	
ABS 100	A40 27062	40	27	25	100		04091
ABS 100	A40 17072	60	40	56	130	06091	

Spare parts

DCONWS

16			016
22	22900		022
27	23000		027
32	23100		032
40			040
40		295	
60		298	

Drive dog	Driver	Cross screw
84 950 ...	83 950 ...	83 367 ...

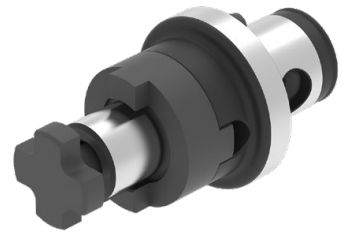
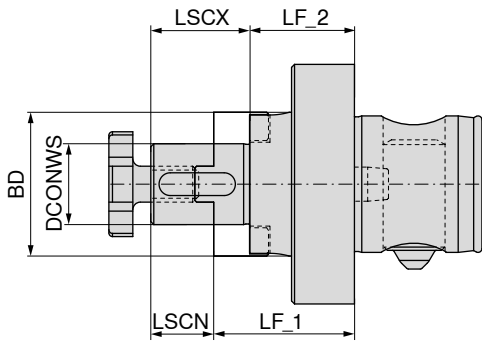
For an overview of the ABS spare parts, take a look at **page 307**.

Combination shell mill adapter

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

Scope of supply:

Base body including retaining screw, drive ring and drive key



84 229 ...

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



83 950 ...

83 370 ...

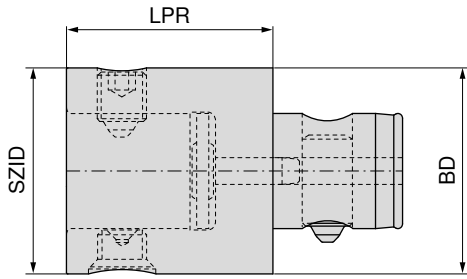
83 367 ...

Spare parts
DCONWS

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

For an overview of the ABS spare parts, take a look at **page 307**.

Extension with ABS Connection



84 209 ...

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

Spare parts

Adapter

	62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
ABS 25		26800	23600	26000	24400	27000
ABS 32	13989		23700	26100	24500	27100
ABS 40		26900	23800	26200	24600	27200
ABS 50		20300	20200	20000	20100	20400
ABS 63		25500	23900	26300	24700	27300
ABS 80		25600	24000	26400	24800	25100
ABS 100		25700	24100	26500	24900	25200
ABS 125		25800	24200	26600	25000	25300

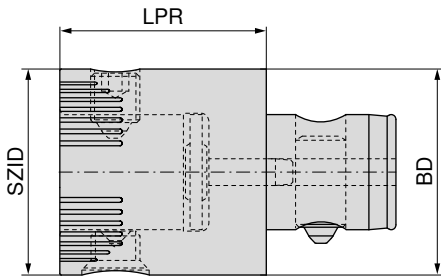


For an overview of the ABS spare parts, take a look at **page 307**.

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



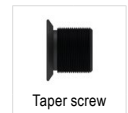
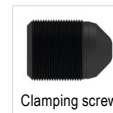
84 216 ...

Adapter	KOMET no.	SZID	BD	LPR
			mm	mm
ABS 50	A20 00651	ABS 50	50	50
ABS 63	A20 00661	ABS 63	63	60
ABS 80	A20 00670	ABS 80	80	70

05097

06096

07092




84 950 ...

84 950 ...

Spare parts

Adapter

ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

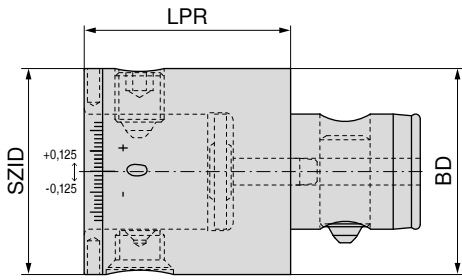
 For an overview of the ABS spare parts, take a look at **page 307**.

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

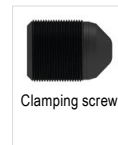
Eccentric adjuster with adjuster key Ø 2.8 mm



84 217 ...

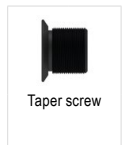
Adapter	KOMET no.	SZID	BD	LPR
			mm	mm
ABS 50	A20 00620	ABS 50	50	50
ABS 63	A20 00630	ABS 63	63	60

05097
06096



Clamping screw

84 950 ...



Taper screw

84 950 ...

Spare parts

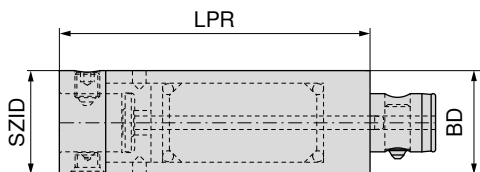
Adapter

ABS 50	20300	20400
ABS 63	25500	27300

For an overview of the ABS spare parts, take a look at **page 307**.

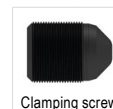
Damping element with ABS connection

- ▲ 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

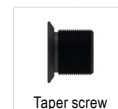


84 218 ...

Adapter	KOMET no.	SZID	BD mm	LPR mm	RPMX 1/min.	
ABS 40	A20 01240	ABS 40	40	120	8000	12088
ABS 50	A20 01250	ABS 50	50	150	6300	15097
ABS 63	A20 01260	ABS 63	63	190	5000	19096
ABS 80	A20 01270	ABS 80	80	240	4000	24092




84 950 ...



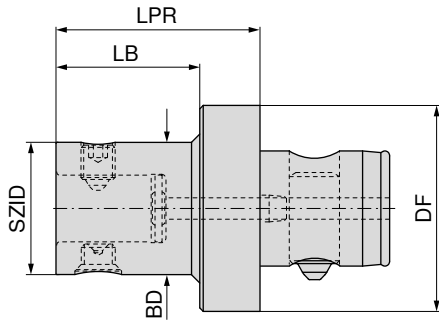
84 950 ...

Spare parts

Adapter	84 950 ...	84 950 ...
ABS 40	26900	27200
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

 For an overview of the ABS spare parts, take a look at **page 307**.

ABS reduction



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

Spare parts
SZID

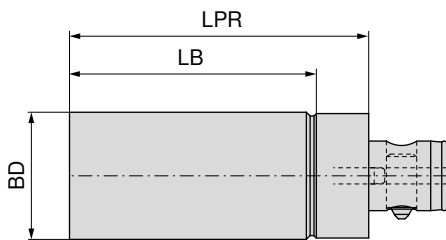
ABS 25			
ABS 32	62 950 ...	84 950 ...	84 950 ...
ABS 40			
ABS 50			
ABS 63			
ABS 80	13989	26800	27000
ABS 100		26900	27200
		20300	20400
		25500	27300
		25600	25100
		25700	25200

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

For an overview of the ABS spare parts, take a look at **page 307**.

Blank

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



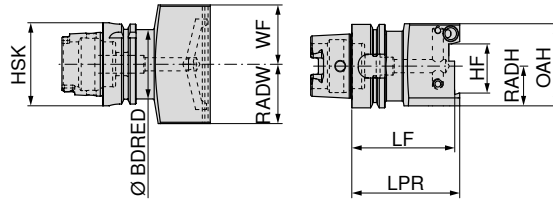
84 230 ...

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



For an overview of the ABS spare parts, take a look at **page 307**.

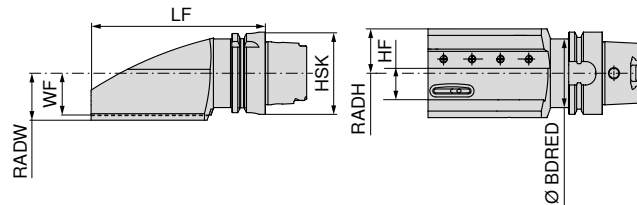
MonoClamp – HSK-T Blade Holder GX/LX/FX/SX



radial
74 586 ...

ISO designation	Adapter	LF mm	BDRED mm	WF mm	HF mm	OAH mm	RADW mm	RADH mm	for parting blades	
ISO 12164-3 T63	HSK-T 63	80	52,6	45	26	62	45	30	XLCF N 26...	02637
ISO 12164-3 T63	HSK-T 63	80	52,6	45	32	68	45	34	XLCF N 32...	03237

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



Illustrations show right-hand versions



Left-hand
74 585 ...



Right-hand
74 584 ...

ISO designation	Adapter	LF mm	BDRED mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades		
ISO 12164-3 T63	HSK-T 63	155	52,6	32	26	36,0	34	XLCF R/L 26...	02637	02637
ISO 12164-3 T63	HSK-T 63	155	52,6	32	32	37,5	35	XLCF R/L 32...	03237	03237

Spare parts for parting blades

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



O-Ring

70 950 ...



O-Ring

70 950 ...



Clamping wedge

70 950 ...

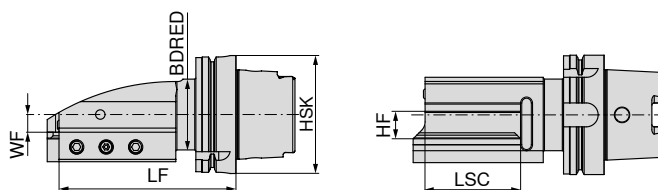


clamping screw

70 950 ...

HSK-T square shank adapter 0°

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



Illustrations show right-hand versions



Left-hand

74 571 ...



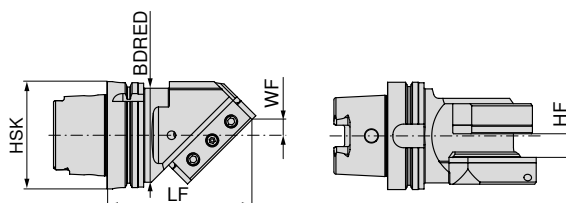
Right-hand

74 570 ...

ISO designation	Adapter	LF mm	BDRED mm	WF mm	LSC mm	HF mm		
ISO 12164-3 T63	HSK-T 63	145	52,6	15	80	20 / 25 / 32	02537	02537
ISO 12164-3 T100	HSK-T 100	150	60,0	15	80	20 / 25 / 32	02535	02535

HSK-T square shank adapter 45°

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



Illustrations show right-hand versions



Left-hand

74 573 ...



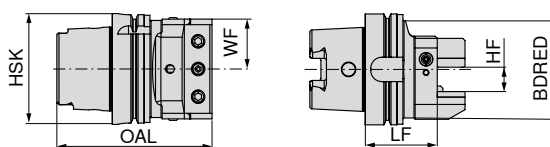
Right-hand

74 572 ...

ISO designation	Adapter	LF mm	BDRED mm	WF mm	HF mm		
ISO 12164-3 T63	HSK-T 63	130	52,6	14,6	20 / 25 / 32	02537	02537
ISO 12164-3 T100	HSK-T 100	135	87,6	14,6	20 / 25 / 32	02535	02535

HSK-T square shank adapter 90°

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



Neutral

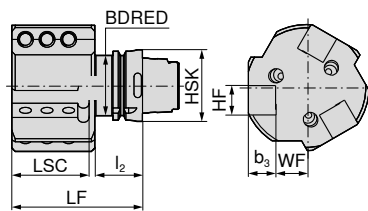
74 575 ...

ISO designation	Adapter	LF mm	BDRED mm	WF mm	OAL mm	HF mm	
ISO 12164-3 T63	HSK-T 63	60	52,6	45	117	20 / 25 / 32	02537
ISO 12164-3 T100	HSK-T 100	65	87,6	45	140	20 / 25 / 32	02535

Spare parts HSK-T square shank holders with DirectCooling

Spare parts Adapter	83 950 ...		62 950 ...	
	Part	Quantity	Part	Quantity
HSK-T 63	M5x5 - SW2,5	157	M12x16 - SW6	51100
HSK-T 100	M5x5 - SW2,5	157	M12x16 - SW6	51100

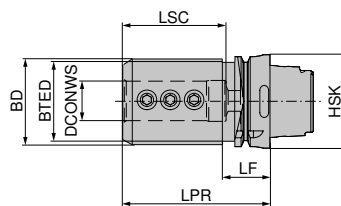
HSK-T square shank adapter 3-face 0°



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

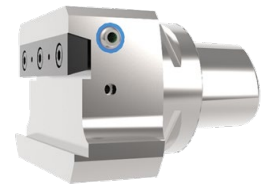
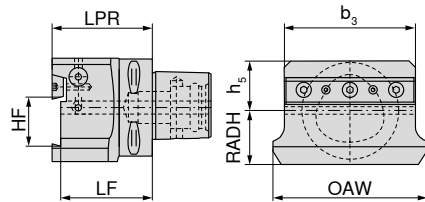
Spare parts Adapter	70 950 ...		70 950 ...		70 950 ...		70 950 ...	
	Part	Quantity	Part	Quantity	Part	Quantity	Part	Quantity
HSK-T 63	UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	Hollow key with nose	05700	M12x1,75x25	851
HSK-T 100	UNJF 7/16"-20	05600	UNJF 7/16"-20	05500	Hollow key with nose	05700	M12x1,75x25	851

HSK-T Boring bar holder



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

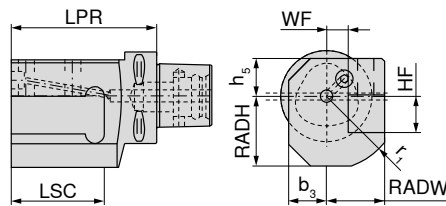
Radial parting blade holder, right / left



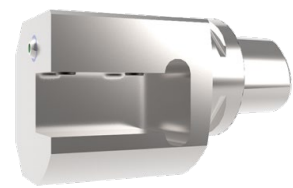
Neutral
84 132 ...

Adapter	HF mm	LPR mm	OAW mm	b ₃ mm	h ₅ mm	RADH mm	LF mm	
PSC 63	26	65	91	75	30	30	60	626
PSC 63	32	65	100	85	32	35	60	632

Square section adapter, single face



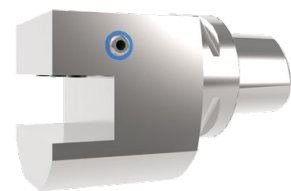
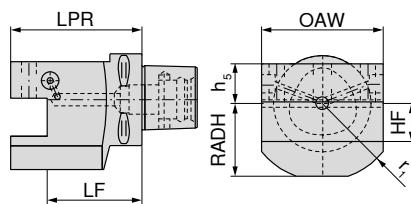
Illustrations show right-hand versions



	Left-hand 84 611 ...	Right-hand 84 610 ...
PSC 50	520	520
PSC 50	525	525
PSC 50	532	532
PSC 63	620	620
PSC 63	625	625
PSC 63	632	632
PSC 80	820	820
PSC 80	825	825
PSC 80	832	832

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

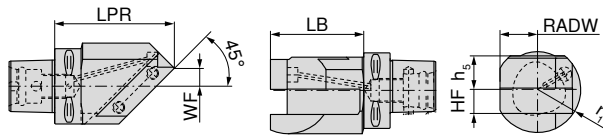
Radial square section tool holders 90°



Neutral
84 602 ...

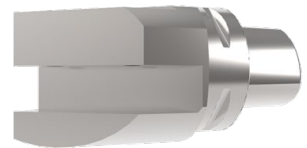
Adapter	HF mm	LPR mm	OAW mm	r ₁ mm	RADH mm	h ₅ mm	LF mm	
PSC 50	20	70	70	45	43	26	50	520
PSC 50	25	80	80	51	48	26	55	525
PSC 50	32	90	90	61	55	26	58	532
PSC 63	20	80	70	45	43	26	60	620
PSC 63	25	90	80	51	48	26	65	625
PSC 63	32	100	90	61	55	26	68	632
PSC 80	20	80	70	45	43	26	60	820
PSC 80	25	90	80	51	48	26	65	825
PSC 80	32	100	90	61	55	26	68	832

Square section adapter 45°



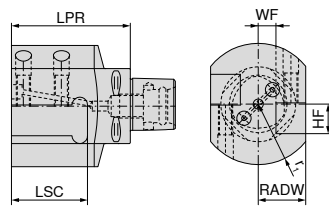
Illustrations show right-hand versions

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



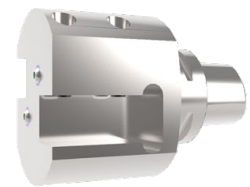
Left-hand	Right-hand
84 605 ...	84 604 ...
520	520
620	620
832	832

Square section adapter, double face



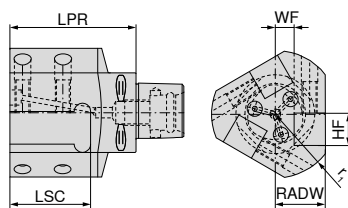
Illustrations show right-hand versions

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



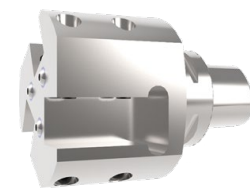
Left-hand	Right-hand
84 613 ...	84 612 ...
520	520
525	525
532	532
620	620
625	625
632	632
820	820
825	825
832	832

Square section adapter, triple face



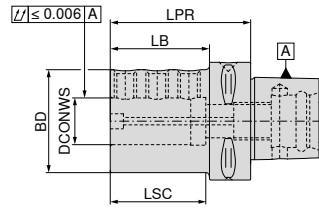
Illustrations show right-hand versions

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



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

Boring bar holder



84 130 ...

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

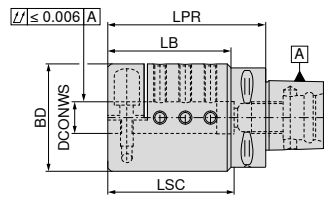


84 950 ...

Spare parts		
DCONWS		
6	M6x16	153
8	M8x16	154
10	M10x16	155
12 - 40	M12x14	156

Boring bar adapter, split version

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

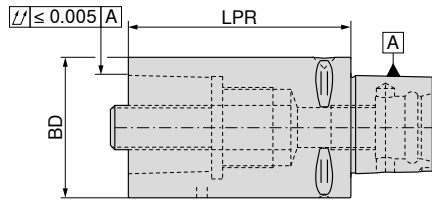


Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ...
PSC 63	6	80	40	58	60	606
PSC 63	8	85	45	63	65	608
PSC 63	10	85	50	63	65	610
PSC 63	12	100	63	78	80	612
PSC 63	16	100	63	78	80	616
PSC 63	20	100	68	78	80	620
PSC 63	25	100	68	78	80	625
PSC 63	32	100	72	78	80	632

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

Extension, axial clamping

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



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

Threaded ring	tightening screw
84 950 ...	84 950 ...
127 SW8	122
128 SW8	123
129 SW10	124
130 SW14	126
130 SW14	126

Spare parts

Adapter

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

Accessories

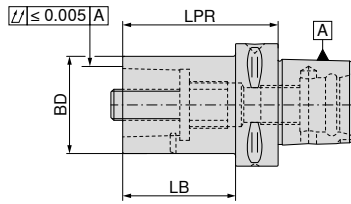


Hollow nose keys

→ 198

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 ...

403

503

504

603

604

605

803

804

805

806

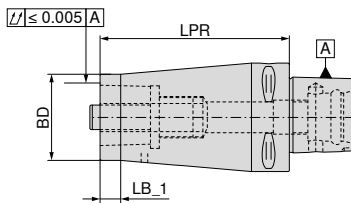
816 ¹⁾

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 ...

403

504

605

806

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
PSC 50
PSC 63
PSC 80
PSC 80X



84 950 ...



84 950 ...

128

129

130

130

130

SW8

SW10

SW14

SW14

SW14

123

124

126

126

126

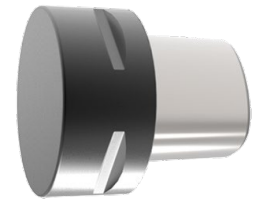
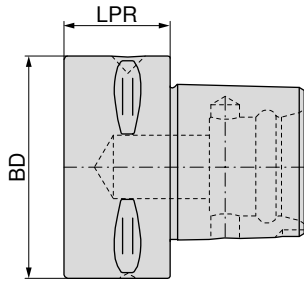
Accessories



Hollow nose keys

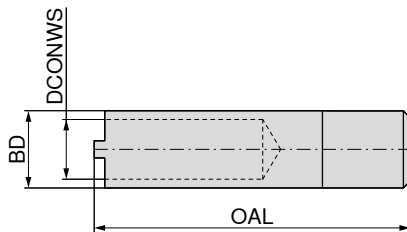
→ 198

Sealing plugs



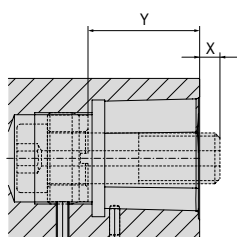
Adapter	BD mm	LPR mm	84 135 ...
PSC 40	40	28	040
PSC 50	50	28	050
PSC 63	63	30	060
PSC 80	80	38	080

Hollow nose key for clamping screw for PSC extensions and reductions



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

Installation instructions: clamping screw for PSC extensions and reductions



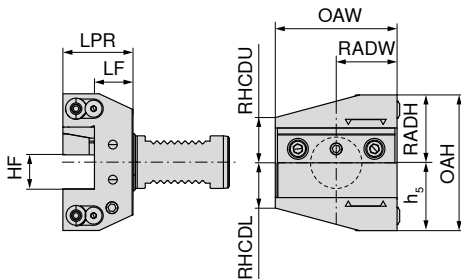
X = Screw leading edge
Y = Threaded ring insertion depth

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

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

Radial 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



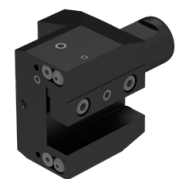
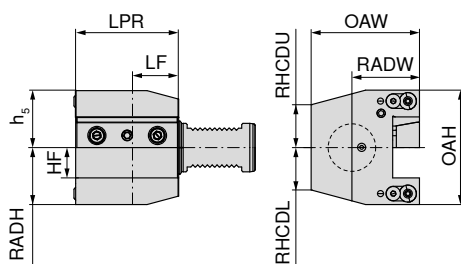
double

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

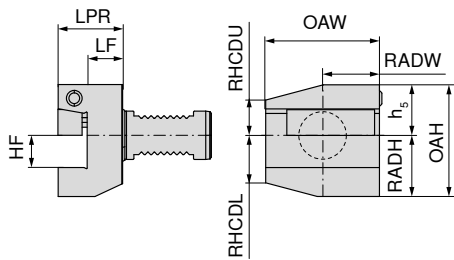
82 246 ...

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	02027
VDI 40	25	30	85	94	47	52,5	47	94	35	35	02526
VDI 50	25	30	85	105	50	63,0	50	100	42	42	02525

 You can find spare parts on → Page 258+259

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



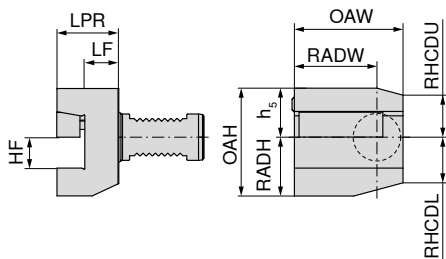
double

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	02027
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30	02526
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	43,0	30	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

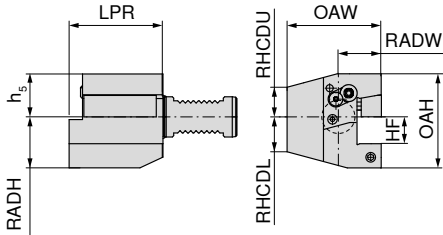
82 247 ...

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	12027
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30	12526
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	35,0	38	12525

You can find spare parts on → Page 258+259

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



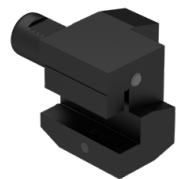
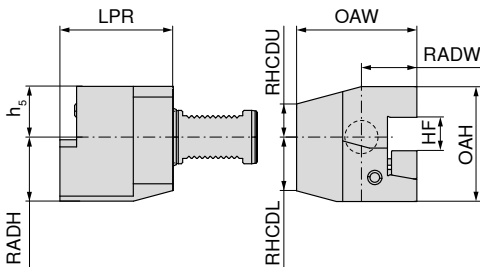
double

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	02027
VDI 40	25	85	85,0	48	42,5	38	86	35	30	02526
VDI 50	25	85	90,5	48	48,0	44	92	42	35	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

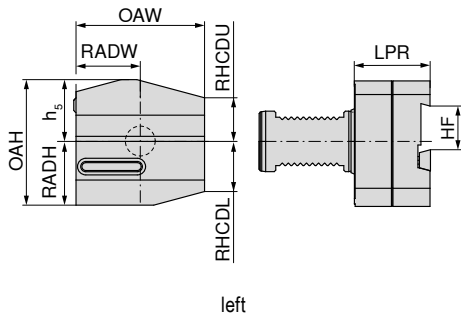
82 248 ...

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	12027
VDI 40	25	85	90	48	47,5	38	86	35	30	12526
VDI 50	25	85	95	48	52,5	44	92	42	37	12525

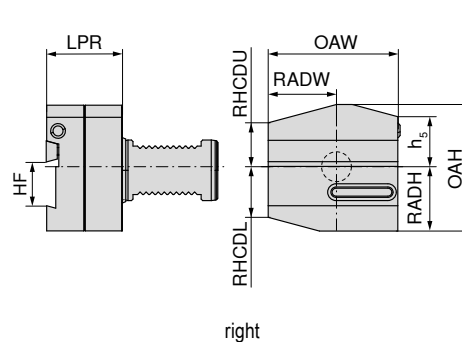
You can find spare parts on → Page 258+259

Parting blade holder for parting blades with DirectCooling

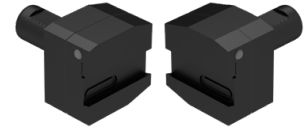
- ▲ Double tooth profile for normal and overhead applications
- ▲ for parting blades with DirectCooling
- ▲ can be used up to 100 bar



left



right



Left-hand

Right-hand

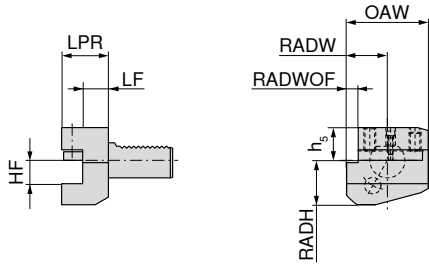
82 249 ...

82 249 ...

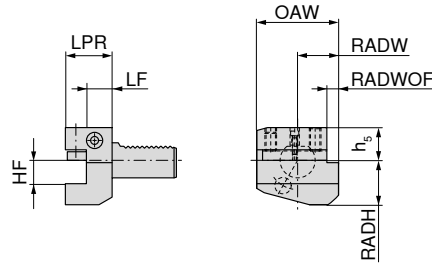
Adapter	HF mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm	Left-hand 82 249 ...	Right-hand 82 249 ...
VDI 30	26	50	70	37	35,0	32	69	30	25	12627	02627
VDI 40	32	50	85	40	42,5	43	83	31	31	13226	03226
VDI 40	26	50	85	40	42,5	43	83	31	31	12626	02626
VDI 50	32	50	100	45	50,0	43	88	37	35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

You can find spare parts on → [Page 258+259](#)

Radial tool holders, short



B2



B1

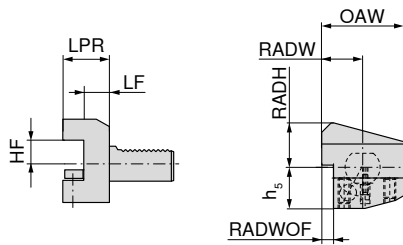


Left-hand Right-hand

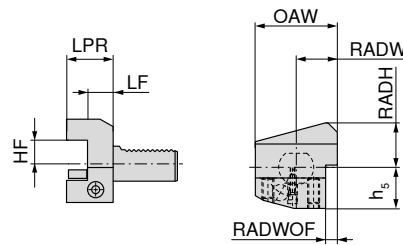
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	82 189 ...	82 185 ...
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	160	160
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	201	201
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	200	200
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30	202 ¹⁾	202 ¹⁾
VDI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

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3



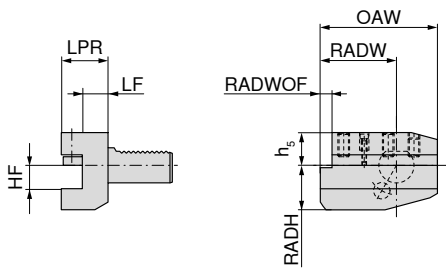
Left-hand Right-hand

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

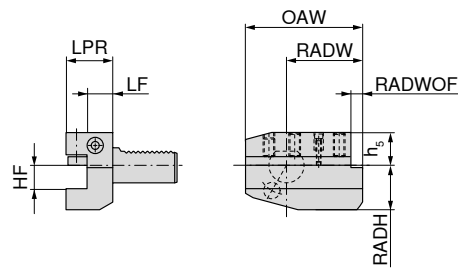
1) Height adjustable +/- 1 mm

You can find spare parts on → Page 260

Radial tool holders, long



B6



B5

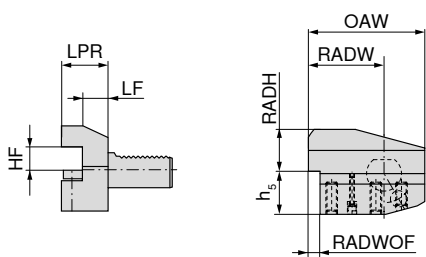


Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	28,0	38	18,5	40
VDI 40	25	118	75,5	12,5	32,5	48	18,5	44
VDI 50	32	130	80,0	16,0	35,0	60	30,0	55

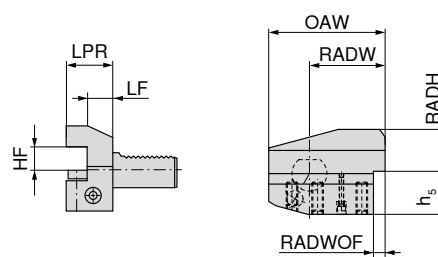
1) Height adjustable +/- 1 mm

Left-hand	Right-hand
82 202 ...	82 199 ...
201	201
300	202 ¹⁾
400	300
500	400
	500

Radial tool holders, overhead, long



B8



B7



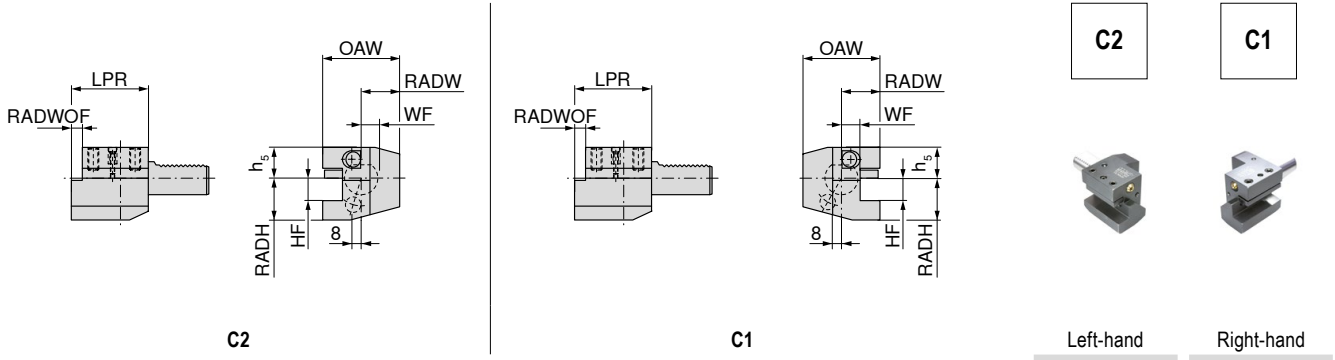
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	35,0	38	42,0	60
VDI 30	20	100	65,0	10,0	35,0	38	18,5	40
VDI 40	25	118	75,5	12,5	42,5	48	18,5	44
VDI 50	32	130	80,0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

1) Height adjustable +/- 1 mm

Left-hand	Right-hand
82 208 ...	82 205 ...
200	200
300	202 ¹⁾
400	301
500	300
	400
	500

You can find spare parts on → **Page 260**

Axial tool holders

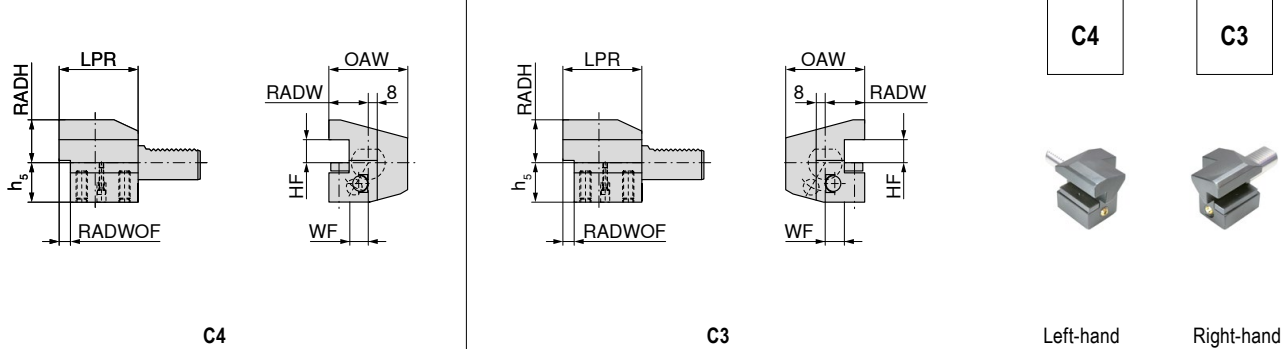


Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	WF _{0/+0.3} mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 30	20	76	41,0	23,0	28,0	38	70
VDI 30	20	70	35,0	17,0	28,0	38	70
VDI 40	25	85	42,5	20,5	32,5	48	85
VDI 40	25	90	47,5	25,5	32,5	48	85
VDI 50	32	105	55,0	30,5	35,0	60	100
VDI 50	32	100	50,0	25,5	35,0	60	100

1) Height adjustable +/- 1 mm

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

Axial tool holders, overhead



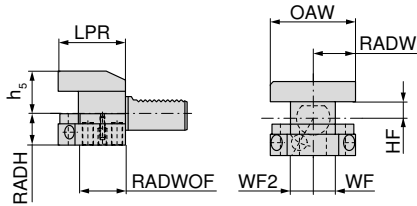
Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	WF _{0/+0.3} mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	25,5	30,0	25	50
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 30	20	70	35,0	17,0	35,0	38	70
VDI 30	20	76	41,0	23,0	35,0	38	70
VDI 40	25	85	42,5	20,5	42,5	48	85
VDI 40	25	90	47,5	25,5	42,5	48	85
VDI 50	32	100	50,0	25,5	50,0	60	100
VDI 50	32	105	55,0	30,5	50,0	60	100

1) Height adjustable +/- 1 mm

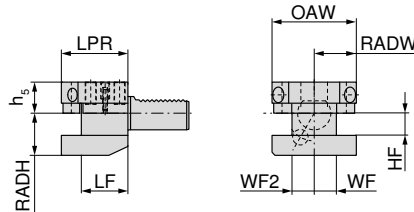
Left-hand	Right-hand
82 220 ...	82 217 ...
	160
200	202 ¹⁾
201 ¹⁾	201
300	300
400	400
500	500

You can find spare parts on → Page 260

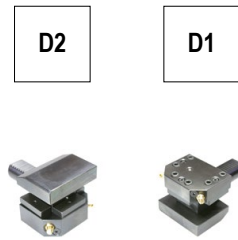
Multiple tool holders



D2



D1

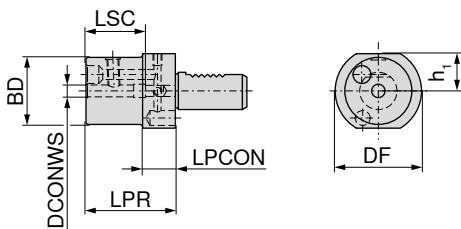


Adapter	HF _{0/-0,1} mm	RADW mm	WF _{0/+0,3} mm	WF2 _{0/+0,3} mm	OAW mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72

82 224 ...	82 222 ...
	300
300	
400	400

Cylindrical tool holders

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



E



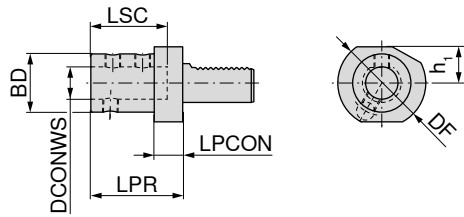
Cooling through nozzle

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

83 269 ...
206
208
210
212
214
216
218
220
306
308
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312
314
316
318
320
406
408
410
412
414
416
418
420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

82 274 ...

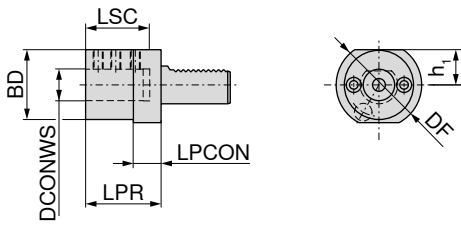
Adapter	DCONWS _{H6} mm	DF mm	BD mm	h _i mm	LPR mm	LPCON mm	LSC mm	
VDI 20	16	50	36	23,0	67	18	54	200
VDI 20	20	50	40	23,0	67	18	54	201
VDI 20	25	50	45	23,0	71	18	59	202
VDI 30	16	68	36	28,0	67	22	54	300
VDI 30	20	68	40	28,0	67	22	54	301
VDI 30	25	68	45	28,0	71	22	59	302
VDI 30	32	68	52	28,0	75	22	63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



You can find spare parts on → Page 260

Boring bar holder

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



E2



Cooling through nozzle

82 268 ...

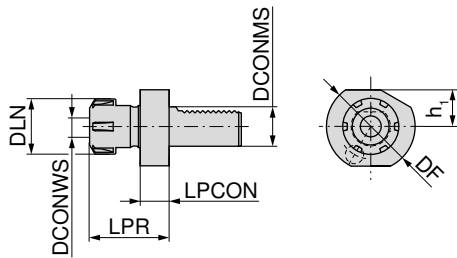
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	
VDI 16	6	40	32	18,0	44	13	34	160 ¹⁾
VDI 16	8	40	32	18,0	44	13	34	161 ¹⁾
VDI 16	10	40	32	18,0	44	13	34	162 ¹⁾
VDI 16	12	40	40	18,0	44	13	34	163 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	164 ¹⁾
VDI 20	8	50	40	23,0	50	18	41	200
VDI 20	10	50	40	23,0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

1) Coolant supply through pipe joint

You can find spare parts on → Page 260

ER Collet chucks

E4



82 286 ...

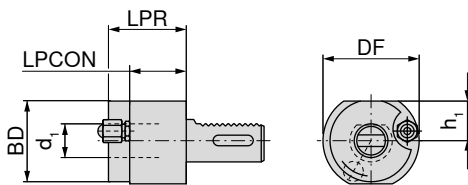
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	
VDI 16	1 - 10	40	28	18,0	43,5	14	426E (ER16)	160
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	161
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	202
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	203
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)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

ER collets can be found on → **Pages 262–273.**

Morse taper adapters

▲ For taper shanks with ejector tang

F1

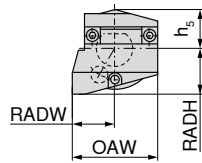
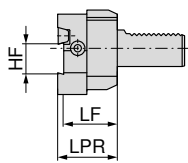


82 277 ...

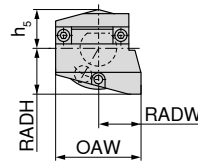
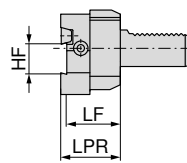
Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	
VDI 20	MK1		50	23,0	23		200
VDI 20	MK2		50	23,0	87		201
VDI 30	MK1		68	28,0	27		300
VDI 30	MK2		68	28,0	27		301
VDI 30	MK3	58	68	28,0	55	40	302
VDI 40	MK2	55	83	32,5	36	22	401
VDI 40	MK3	58	83	32,5	36	22	402
VDI 40	MK4	68	83	32,5	80	22	403
VDI 50	MK2	55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

Parting blade holders, height adjustable

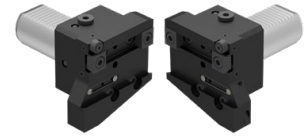
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



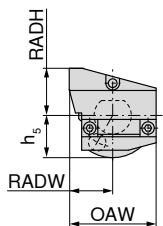
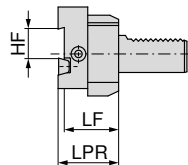
right



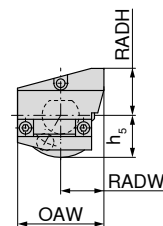
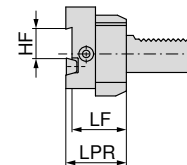
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 237 ...	82 236 ...		
VDI 30	70	35,0	26	28,0	38	44	49	300		300	
VDI 30	70	35,0	32	30,5	38	44	49	302		302	
VDI 40	73	42,5	26	32,0	48	44	49	040		040	
VDI 40	85	42,5	32	32,0	48	44	49	400		400	

Parting blade holders, height adjustable, overhead

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



left



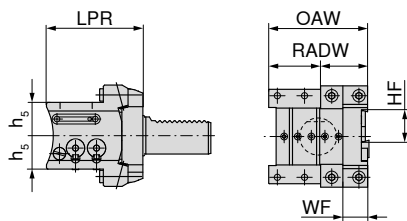
right



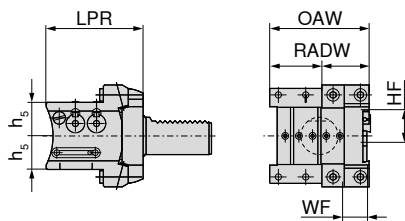
Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 243 ...	82 242 ...		
VDI 30	70	35,0	26	34,0	38	44	49	300		300	
VDI 30	70	35,0	32	30,5	38	44	49	302		302	
VDI 40	73	42,5	26	32,0	48	44	49	040		040	
VDI 40	85	42,5	32	32,0	48	44	49	400		400	

Parting blade holders, height adjustable

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



Universal-overhead



Universal



Universal-overhead

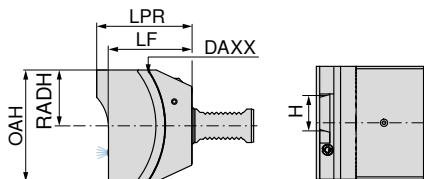
Universal

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

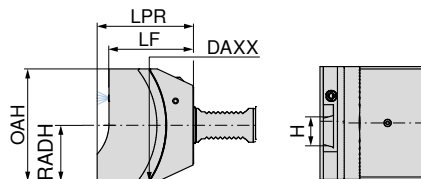
82 244 ...	82 238 ...
300	300
400	400
402	402

Parting blade holder

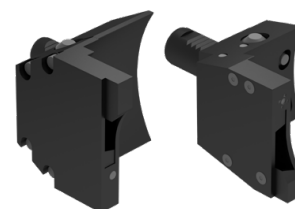
- ▲ doubles = reciprocally interlocked VDI shank



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 ...
02629 ¹⁾	02629 ¹⁾
03227 ¹⁾	03227 ¹⁾
02627 ¹⁾	02627 ¹⁾
03226 ¹⁾	03226 ¹⁾
02626 ¹⁾	02626 ¹⁾

1) Not ex-stock

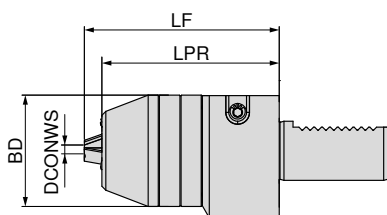
 With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Short drill chuck – NC 2010

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

Scope of supply:

Basic body including chuck key SW 4



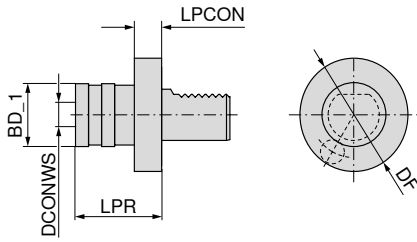
84 297 ...

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

1) Without Through Coolant

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	112
VDI 30	M3 - M12	01	19	38	55	9	312
VDI 40	M3 - M12	01	19	38	55	9	412
VDI 20	M6 - M20	02	31	55	77	15	120
VDI 30	M6 - M20	02	31	55	77	15	320
VDI 40	M6 - M20	02	31	55	77	15	420

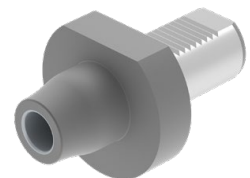
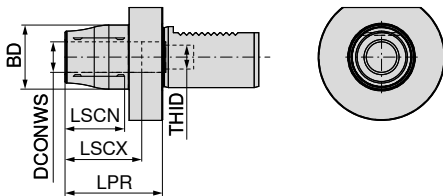
Quick change adapters can be found on → [Page 282–286](#).

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	02027
VDI 40	20	42	64	51	41	M16x1	02026



Stop screw IK

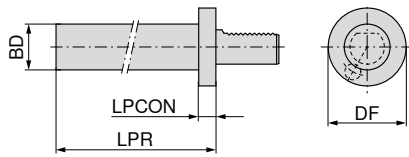
Spare parts

DCONWS

20	M16x1x31 - SW5	48700
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Test arbors

▲ Radial run-out ≤ 0.02 mm

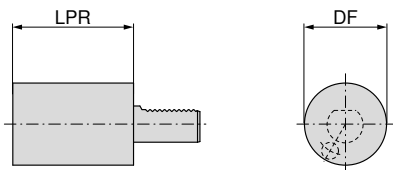


83 324 ...

Adapter	BD _{h5} mm	DF mm	LPR mm	LPCON mm	
VDI 16	30	40	120	15	016
VDI 20	40	50	150	15	020
VDI 30	40	68	200	15	030
VDI 40	40	83	200	15	040
VDI 50	40	98	200	15	050

Tool holders, rough machined, round

▲ Manufactured from C45



A2

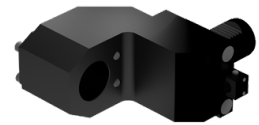
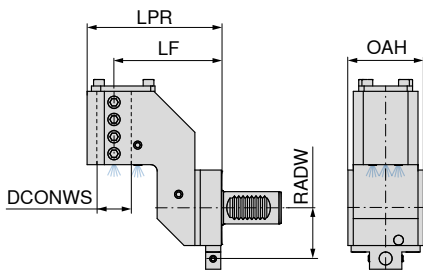


82 330 ...

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

Boring bar holder, with offset, with through coolant

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



IC

double

83 229 ...


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

02528¹⁾

03227¹⁾

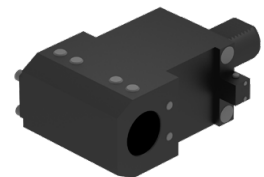
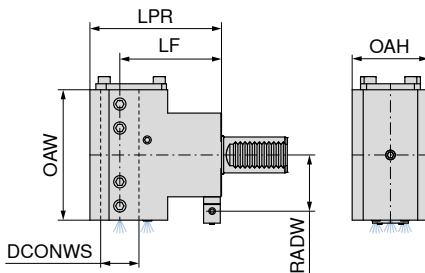
04026¹⁾

1) Not ex-stock

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

Double boring bar holder with through coolant

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



IC

83 230 ...

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


02528¹⁾

03227¹⁾

13227¹⁾

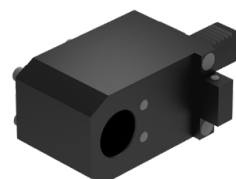
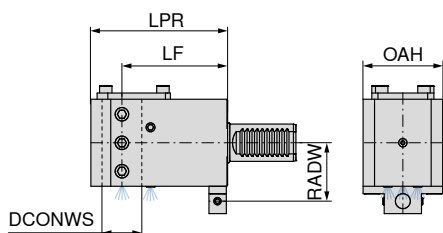
04026¹⁾

1) Not ex-stock

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

Boring bar holder with through coolant

▲ external coolant supply available



IC

83 228 ...

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

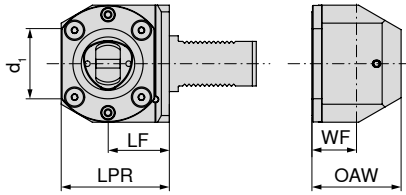
1) Not ex-stock



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

90° VDI to PSC adapter

Scope of supply:
including pull stud



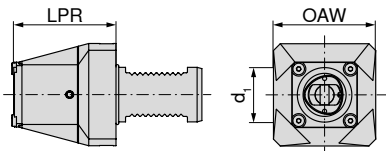
90°
83 231 ...

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

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud



83 232 ...

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

1) Not ex-stock

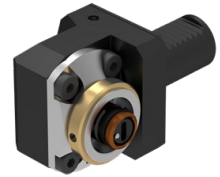
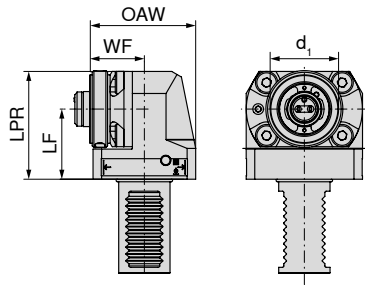
Accessories



Pull stud PSC

→ 172

90° VDI to HSK-T adapter



90°

83 233 ...

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

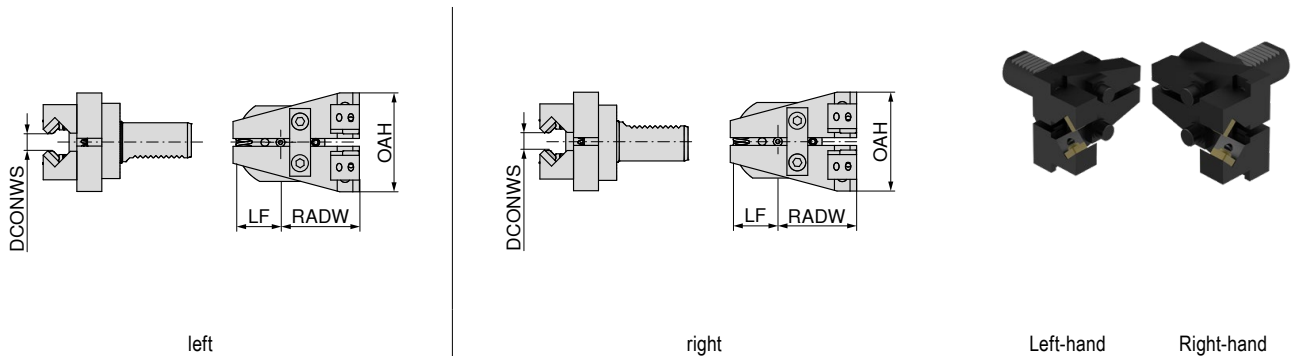
1) Not ex-stock

Bar pullers for disc turrets, radial

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

Scope of supply:

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



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

Bar pullers for star turrets

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

Scope of supply:

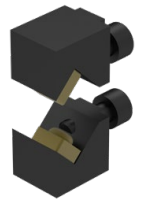
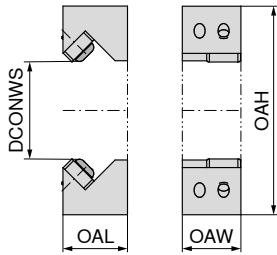
Bar puller with GA 3



Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA	Left-hand 80 310 ...
VDI 30	2 - 42	122,5	129	37,0	3 - 4	03000
VDI 40	2 - 65	142,5	149	41,5	3 - 4	04000

Gripper accessories

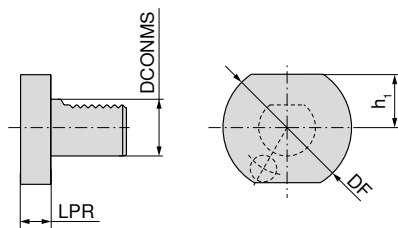
- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
- ▲ Price per pair



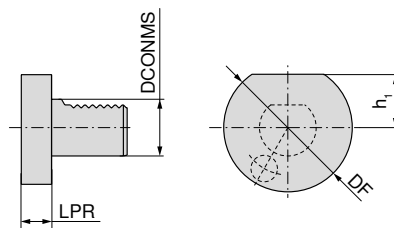
80 312 ...

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

Protection plugs



Steel



Plastic



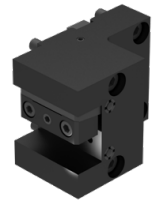
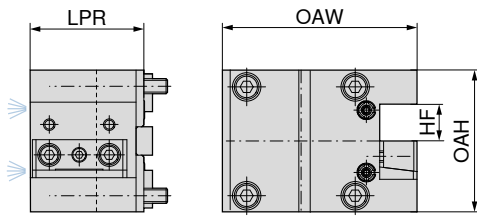
Steel

Plastic

DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm	82 317 ...	83 318 ...
16	40	18,0	16	160	160
20	50	23,0	16	200	200
30	68	28,0	16	300	300
40	83	32,5	20	400	400
50	98	35,0	20	500	500

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

▲ directly screwed version



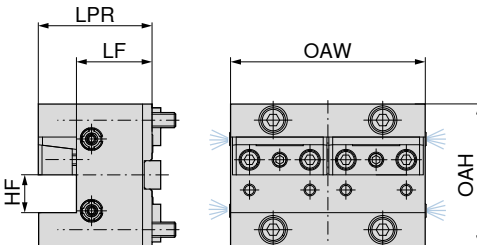
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	99,5

1) Not ex-stock

Left-hand	Left-hand
82 480 ...	82 480 ...
00001 ¹⁾	00006 ¹⁾

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

▲ directly screwed version



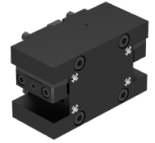
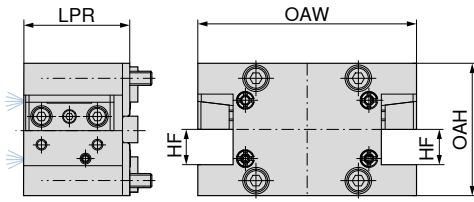
Adapter	Hole pattern	HF mm	LF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	40	60	75	103
BMT 45	58 x 58	20	40	60	75	80

1) Not ex-stock

Left-hand	Left-hand
82 480 ...	82 480 ...
01002 ¹⁾	01007 ¹⁾

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

▲ directly screwed version



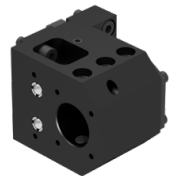
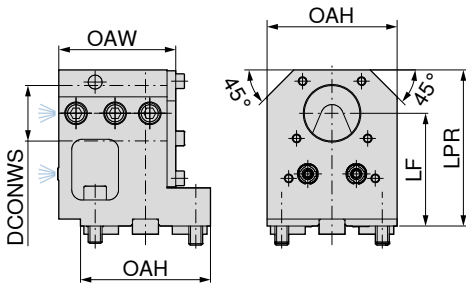
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	124

82 480 ...	82 480 ...
02003 ¹⁾	02008 ¹⁾

1) Not ex-stock

Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version



IC

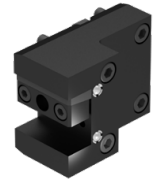
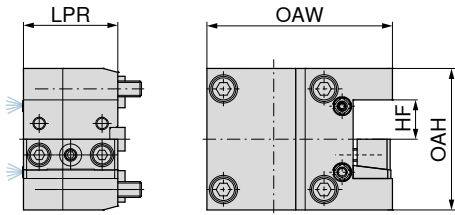
Adapter	Hole pattern	DCONWS mm	LF mm	OAW mm	OAH mm	LPR mm
BMT 45	58 x 58	32	65	67,5	75	90
BMT 45	58 x 58	32	85	67,5	75	110

82 480 ...
03004 ¹⁾
03005 ¹⁾

1) Not ex-stock

Doosan – BMT 55 – axial square section tool holder

▲ directly screwed version



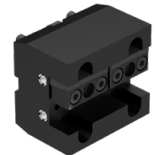
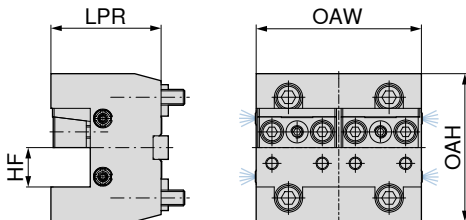
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	60	90	118

1) Not ex-stock

Left-hand	Left-hand
82 481 ...	82 481 ...
00001 ¹⁾	00005 ¹⁾

Doosan – BMT 55 – radial square section tool holder

▲ directly screwed version



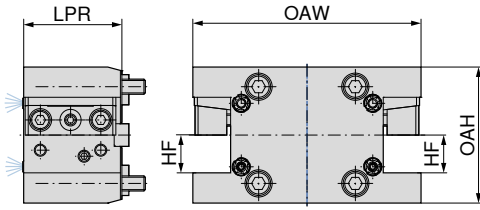
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105
BMT 55	64 x 64	25	95	94	105

1) Not ex-stock

Left-hand	Left-hand
82 481 ...	82 481 ...
01002 ¹⁾	01006 ¹⁾

Doosan – BMT 55 – multi square section tool holder

▲ directly screwed version



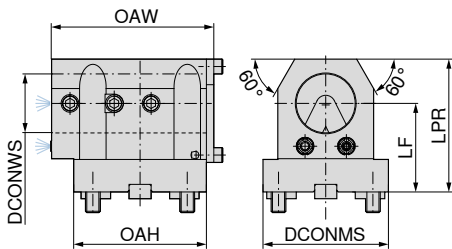
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	65	90	151
BMT 55	64 x 64	25	60	90	151

82 481 ...	82 481 ...
02003 ¹⁾	02007 ¹⁾

1) Not ex-stock

Doosan – BMT 55 – Boring bar holder

▲ directly screwed version



IC

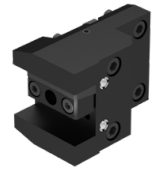
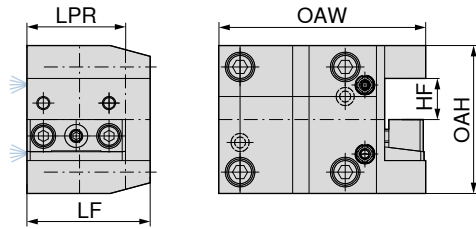
Adapter	Hole pattern	DCONWS mm	LF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT55	64 x 64	40	60	85	90	90	110

82 481 ...
04004 ¹⁾

1) Not ex-stock

EMAG – BMT 55 – axial square section tool holder

▲ directly screwed version



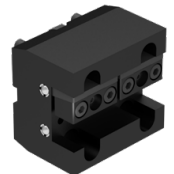
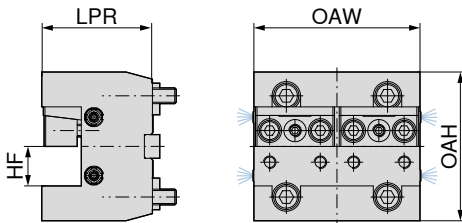
Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm
BMT 55	64 X 64	25	60	75	90	126

1) Not ex-stock

Left-hand	Left-hand
82 482 ...	82 482 ...
00001 ¹⁾	00004 ¹⁾

EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



IC

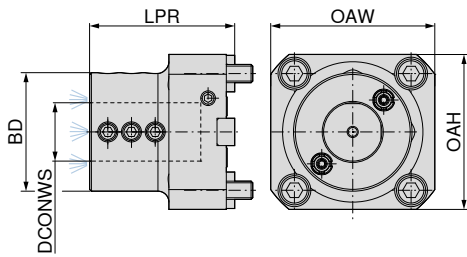
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105

1) Not ex-stock

Left-hand
82 482 ...
01002 ¹⁾

EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

82 482 ...

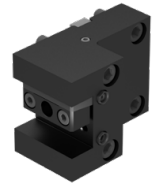
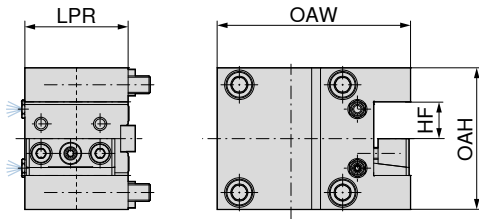
Adapter	Hole pattern	DCONWS mm	BD mm	LPR mm	OAW mm	OAH mm
BMT55	64 x 64	32	65	75	85	90

04003¹⁾

1) Not ex-stock

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

▲ directly screwed version



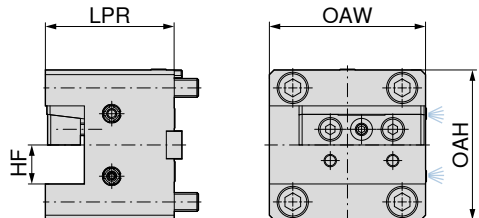
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	70	96	131
BMT 65	70 x 73	25	75	97	131

1) Not ex-stock

Left-hand	Left-hand
82 483 ...	82 483 ...
00001 ¹⁾	00005 ¹⁾

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

▲ directly screwed version



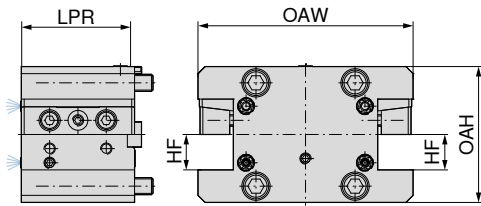
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	82,5	96	100

1) Not ex-stock

Right-hand	Right-hand
82 483 ...	82 483 ...
05002 ¹⁾	05006 ¹⁾

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

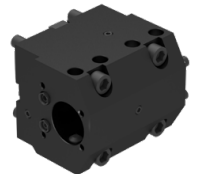
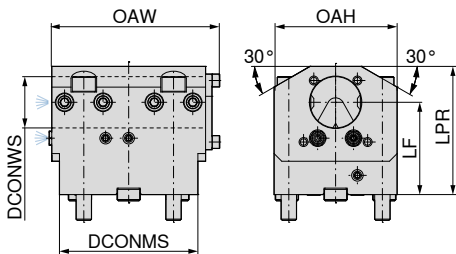
82 483 ...
02003¹⁾

82 483 ...
02007¹⁾

1) Not ex-stock

HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



IC

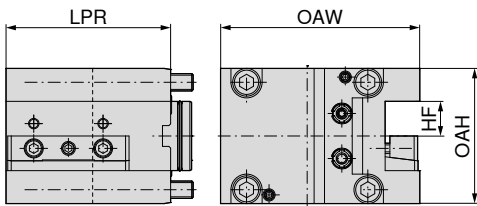
Adapter	Hole pattern	DCONWS mm	LF mm	OAH mm	LPR mm	DCONMS mm	OAW mm
BMT 65	70 x 73	40	78	96	100	108	125

82 483 ...
03004¹⁾

1) Not ex-stock

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

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



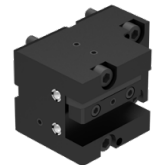
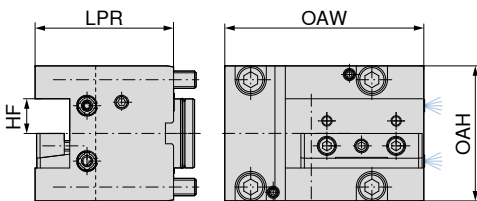
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	115

1) Not ex-stock

Left-hand	Left-hand
82 484 ...	82 484 ...
00001 ¹⁾	00005 ¹⁾

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

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



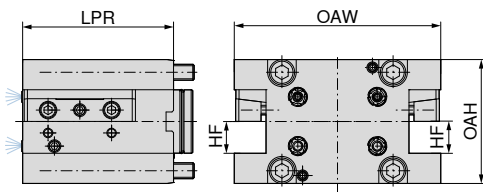
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	80	78	115

1) Not ex-stock

Left-hand	Left-hand
82 484 ...	82 484 ...
01002 ¹⁾	01006 ¹⁾

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

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



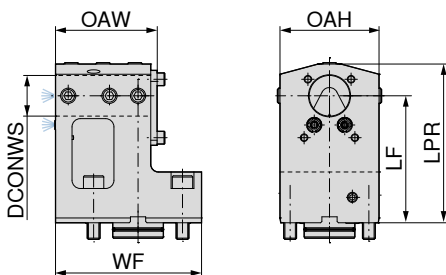
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 40	70 x 62	20	95	78	130

82 484 ...	82 484 ...
02003 ¹⁾	02007 ¹⁾

1) Not ex-stock

Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version



IC

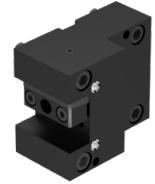
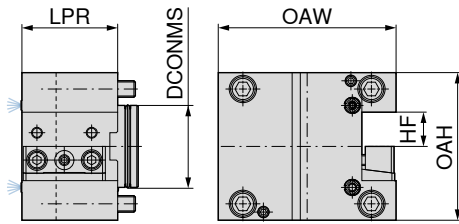
Adapter	Hole pattern	DCONWS mm	OAH mm	OAW mm	LF mm	WF mm	LPR mm
BMT 40	70 x 62	32	78	80	100	115	125

82 484 ...
03004 ¹⁾

1) Not ex-stock

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

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

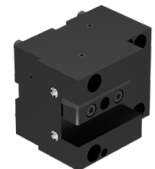
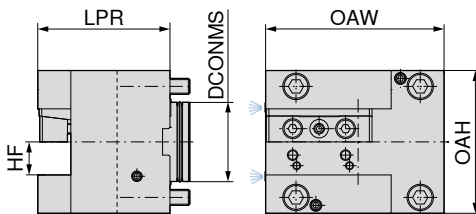


Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	70	108	130	00001 ¹⁾	00005 ¹⁾

1) Not ex-stock

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

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

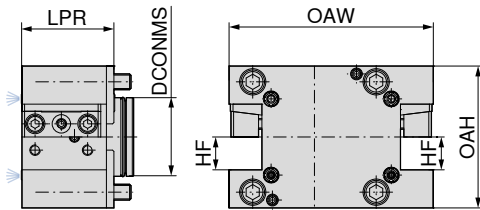


Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 485 ...	Left-hand 82 485 ...
BMT 60	94 x 84	25	60	100	108	135	01002 ¹⁾	01006 ¹⁾

1) Not ex-stock

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

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



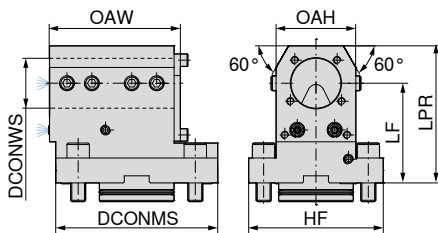
Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155,5

82 485 ...	82 485 ...
02003 ¹⁾	02007 ¹⁾

1) Not ex-stock

Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



IC

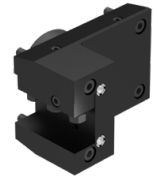
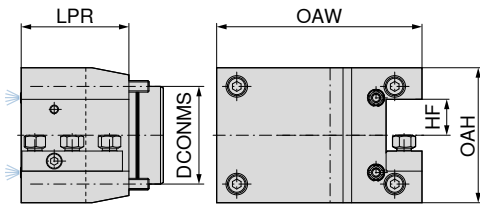
Adapter	Hole pattern	DCONWS mm	OAH mm	LF mm	OAW mm	HF mm	LPR mm	DCONMS mm
BMT 60	94 x 84	40	64	80	105	108	110	130

82 485 ...
03004 ¹⁾

1) Not ex-stock

Mazak – BMT 68 – axial square section tool holder

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

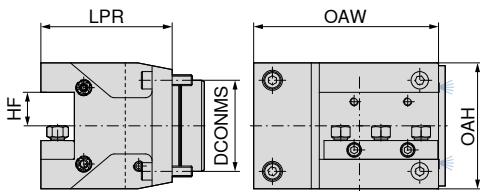


Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	75	94	143	00001 ¹⁾	00005 ¹⁾

1) Not ex-stock

Mazak – BMT 68 – radial square section tool holder

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

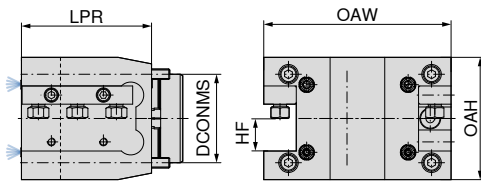


Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm	Left-hand 82 486 ...	Left-hand 82 486 ...
BMT 68	110 x 68	25	68	94	98	143	01002 ¹⁾	01006 ¹⁾

1) Not ex-stock

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

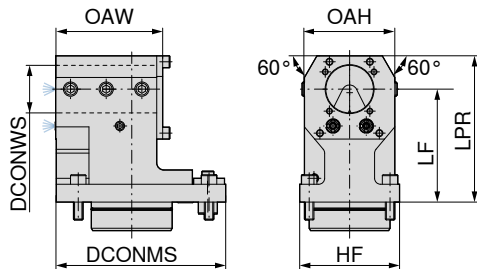
82 486 ...
02003¹⁾

82 486 ...
02007¹⁾

1) Not ex-stock

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 ...
03004¹⁾

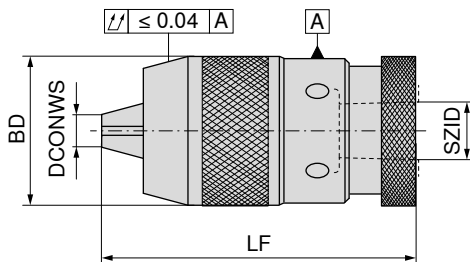
1) Not ex-stock

Drill chuck

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

Scope of supply:

Holder with clamping key



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



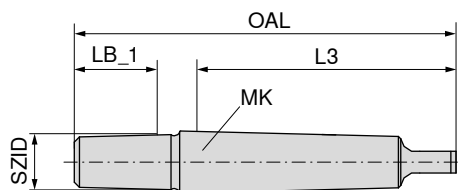
Spare parts
DCONWS

DCONWS	
0 - 10	010
0 - 8	008
1 - 13	013
3 - 16	016

83 302 ...

Drill chuck adapter DIN 238

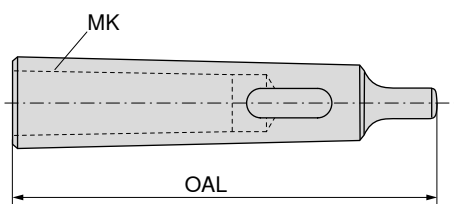
▲ Through-hardened and ground



Adapter	SZID	l_3 mm	LB_1 mm	OAL mm	83 642 ...
MK1	B12	62,0	18,5	89,0	120
MK1	B16	62,0	24,0	97,0	160
MK1	B18	62,0	32,0	106,0	180
MK2	B12	75,0	18,5	106,5	121
MK2	B16	75,0	24,0	110,5	161
MK2	B18	75,0	32,0	117,5	181
MK3	B12	94,0	18,5	125,0	122
MK3	B16	94,0	24,0	134,0	162
MK3	B18	94,0	32,0	141,0	182
MK4	B16	117,5	24,0	159,0	163
MK4	B18	117,5	32,0	168,0	183
MK5	B16	149,5	24,0	196,0	164
MK5	B18	149,5	32,0	204,5	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



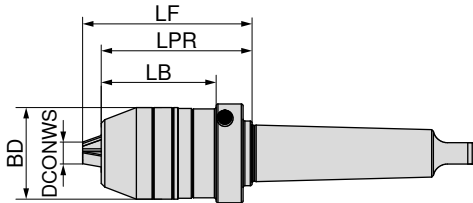
Adapter	d_1	OAL mm	83 644 ...
MK1	MK0	80	010
MK2	MK1	92	020
MK3	MK1	99	130
MK3	MK2	112	030
MK4	MK1	124	240
MK4	MK2	124	140
MK4	MK3	140	040
MK5	MK2	156	250
MK5	MK3	156	150
MK5	MK4	171	050

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



84 314 ...

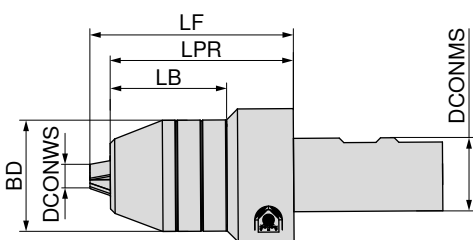
Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	
MK3	0,5 - 13	48,5	64	84	93,0	313
MK3	2,5 - 16	51,0	64	84	94,5	316
MK4	2,5 - 16	51,0	64	84	94,5	416

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



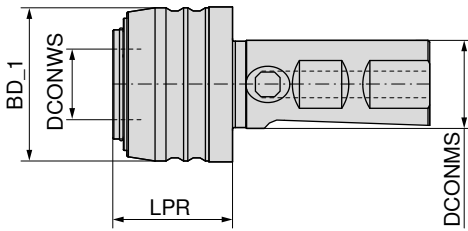
G 6,3 n_{max} 10000

84 311 ...

DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	
25	0,5 - 13	48,5	50,9	80	89,0	213
32	0,5 - 13	48,5	50,9	80	89,0	313
32	2,5 - 16	51,0	50,9	80	90,5	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)
- ▲ $p_{max.} = 50 \text{ bar}$



83 641 ...

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

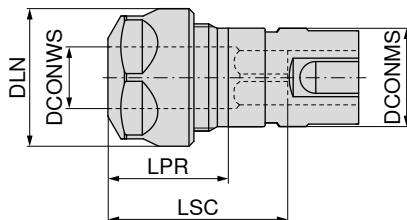
012
020

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

012 ¹⁾
020

1) with 6 position lock nut



Lock nut



Lock nut IK



Lock nut



Y clamping key

62 950 ...

83 950 ...

62 950 ...

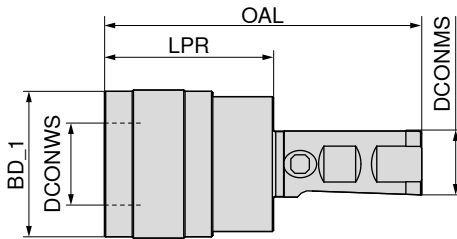
83 357 ...

Spare parts for Article no.

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

Quick change tap chuck with length compensation

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

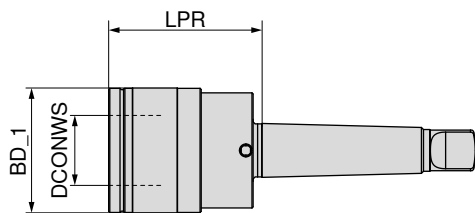


83 648 ...

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

DIN 228B – Quick change tap chuck with length compensation

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



83 646 ...

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

Accessories

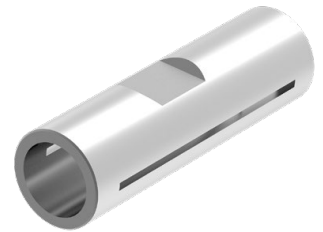
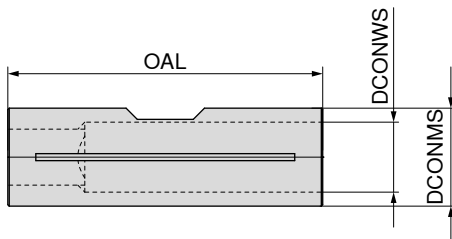


Collet

→ 282, 284–286

Clamping sleeve for taps in Weldon chucks

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

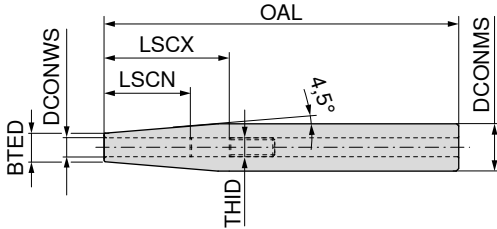


DCONWS _{H7}	DCONMS _{f6}	OAL	80 699 ...
mm	mm	mm	
3,5	6	26	03500
4,0	8	32	04000
4,5	8	26	04500
6,0	10	30	06000
7,0	10	31	07000
8,0	12	38	08000
9,0	12	38	09000
10,0	14	42	10000
11,0	14	42	11000
12,0	16	44	12000
14,0	18	45	14000
16,0	20	46	16000

Shrink fit extension

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

TG



84 310 ...

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

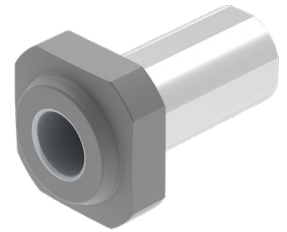
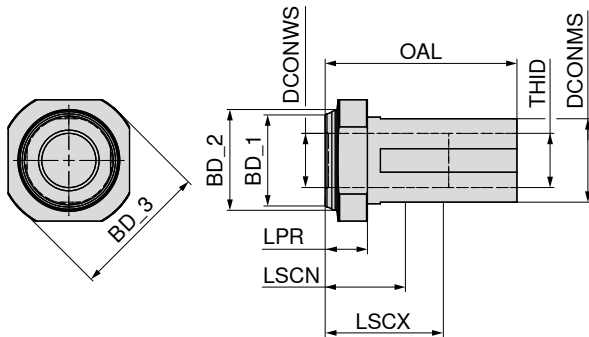
Observe the minimum clamping depth on → Page 306.

Hydraulic chuck with cylindrical shank

- ▲ For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- ▲ One screw for locking the boring bar
- ▲ With length setting screw – can also be removed, to enable the boring bar to be slid through
- ▲ High-precision clamping with a repeatability of 3 µm

Scope of supply:

Base body with backstop screw and pressure screw



83 402 ...

DCONMS	DCONWS	BD_1	BD_2	BD_3	LPR	OAL	LSCX	LSCN	THID	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
32	16	38	41	59	19,5	78,5	51	41	M22x1	31699
32	20	38	41	59	19,5	78,5	51	41	M22x1	32099
40	16	43	46	64	19,5	88,5	51	41	M22x1	41699
40	20	43	46	64	19,5	88,5	51	41	M22x1	42099
40	25	43	46	64	19,5	88,5	57	47	M27x1	42599



Stop screw IK

83 950 ...

Spare parts
DCONWS

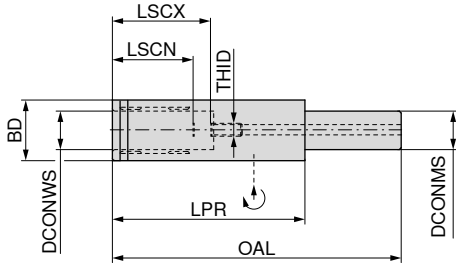
16 - 20	48500
25	48600

Hydraulic expansion extension especially for Hydraulic Chucks

▲ For solid carbide and HSS shanks with h6 tolerance or better

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

84 313 ...

DCONMS	DCONWS	BD	LPR	OAL	LSCX	LSCN	THID	
mm	mm	mm	mm	mm	mm	mm	mm	
20	12	25,0	100	150	46	36	M6	112
20	20	31,5	100	150	51	41	M10x1	120
32	20	31,5	90	150	51	41	M10x1	132
32	20	31,5	90	200	51	41	M10x1	232

Observe the minimum clamping depth on → **Page 306.**



83 950 ...

Spare parts for Article no.

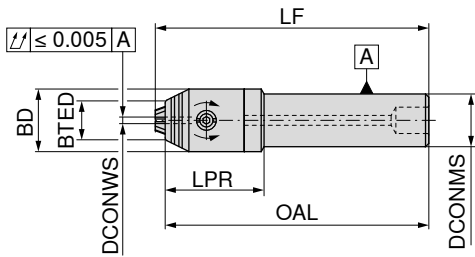
84 313 112	M6x12,5 - SW3	419
84 313 120	M10x1x13,5 - SW5	421
84 313 132	M10x1x13,5 - SW5	421
84 313 232	M10x1x13,5 - SW5	421

Micro-precision collet chuck

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

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000


84 315 ...

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm	
16	0,2 - 3,4	30	80	83	19	12	2	161
16	0,2 - 3,4	30	100	103	19	12	2	162
16	0,2 - 3,4	30	160	163	19	12	2	163
20	0,2 - 3,4	28	80	83	19	12	2	201
20	0,2 - 3,4	28	100	103	19	12	2	202
20	0,2 - 3,4	28	160	163	19	12	2	203



Torx blade

80 950 ...



Torque screwdriver

80 021 ...

Spare parts for Article no.

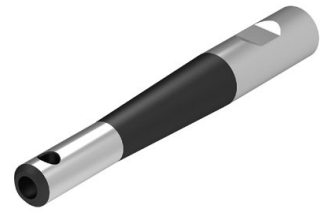
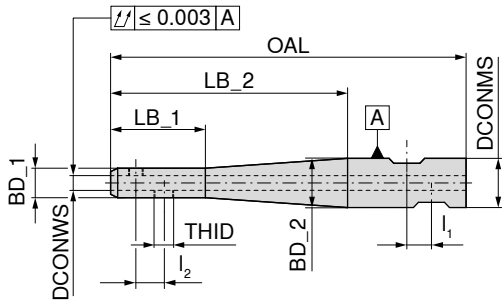
84 315 161	152	1,8 Nm	018
84 315 162	152	1,8 Nm	018
84 315 163	152	1,8 Nm	018
84 315 201	152	1,8 Nm	018
84 315 202	152	1,8 Nm	018
84 315 203	152	1,8 Nm	018

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

1) only pre-balanced design



80 950 ...

Spare parts

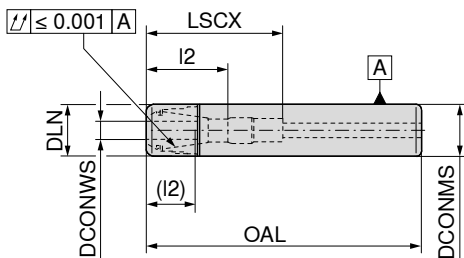
DCONWS		
6	M6X0,5X3	21700
8	M8x0,75x4	21800
10	M10x1x5	21900
12 - 14	M12x1x5	30000
16 - 18	M14x1x6,5	31000
20	M16x1x6,5	32000

Mini ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



84 456 ...

DCONMS	DCONWS	DLN	OAL	LSCX	l ₂ (l ₂)	for collet	
mm	mm	mm	mm	mm	mm		
10	1 - 5	10	80	16		4004E (ER08)	00400
10	1 - 5	10	150	16		4004E (ER08)	005
10	1 - 5	10	200	16		4004E (ER08)	006
12	1 - 5	10	120	16		4004E (ER08)	11000
12	1 - 5	10	160	16		4004E (ER08)	11200
12	1 - 5	10	200	16		4004E (ER08)	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	104

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

Spare parts for collet

Part	84 950 ...	84 950 ...	83 950 ...	83 950 ...
4004E (ER08)		040		
4008E (ER11)		041	M8x1 - SW4	340
426E (ER16)	035	034	M11x1 - SW6	341
				336
				337

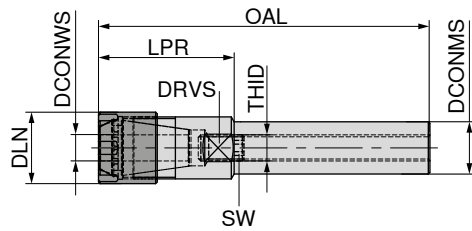
Accessories

ER collet	Device	Roll key	Roll key device
→ 262-269, 273	→ 279	→ 280	→ 280

i The transferable torques can be found on → **Page 306.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



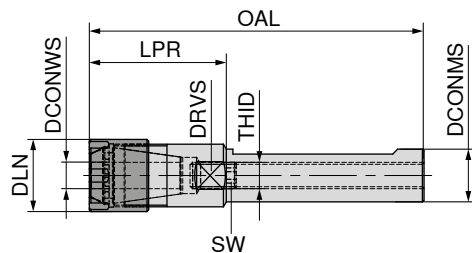
83 453 ...

DCONMS _{h6} mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	
8	1 - 5	81	26	12		9		4004E (ER08)	081 ¹⁾
12	1 - 5	157	20	12	M5x0,8	10	2,5	4004E (ER08)	122
16	1 - 7	185	25	16	M7,5x0,5	14	3,0	4008E (ER11)	163
16	1 - 10	117	37	22	M11x1	17	5,0	426E (ER16)	164
16	1 - 10	199	39	22	M8x1,25	17	4,0	426E (ER16)	165
20	1 - 10	168	28	22	M11x1	17	5,0	426E (ER16)	204
25	1 - 13	168	28	28	M14x1	22	5,0	428E (ER20)	254
25	1 - 16	189	39	35	M18x1	27	5,0	430E (ER25)	256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



83 454 ...

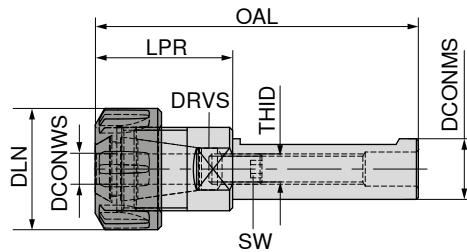
DCONMS _{h6} mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	
20	1 - 10	168	28	22	M11x1	17	5	426E (ER16)	204
20	1 - 13	138	38	28	M11x1	22	5	428E (ER20)	206
20	1 - 16	146	46	35	M14x1	27	5	430E (ER25)	208
25	1 - 13	168	28	28	M14x1	22	5	428E (ER20)	254
25	1 - 16	189	39	35	M18x1	27	5	430E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

Spare parts for ER collet chuck with mini lock nut

Spare parts for collet	ER Mini clamping key		Mini lock nut		Stop screw IK	
	83 950 ...		62 950 ...		83 950 ...	
4004E (ER08)	099	M10x0,75	067			
4004E (ER08)	099	M10x0,75	067	M5x0,8 SW 2,5	003	
4008E (ER11)	100	M13x0,75	065	M7,5x0,5 SW 3	004	
426E (ER16)	101	M19x1	066	M11x1 SW 5	006	
426E (ER16)	101	M19x1	066	M8x1,25 SW 4	005	
428E (ER20)	102	M24x1	068	M14x1 SW 5	007	
430E (ER25)	103	M30x1	069	M18x1 SW 5	008	

ER Collet Chuck

▲ with cylindrical shank and clamping flat



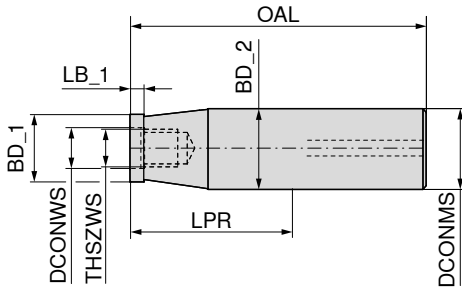
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	83 455 ...
mm	mm	mm	mm	mm	mm	mm	mm		
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	405

Spare parts for collet	Lock nut		Y clamping key		Stop screw IK		Stop screw	
	62 950 ...		83 357 ...		83 950 ...		83 950 ...	
470E (ER32)	056	M40x1,5	132					
472E (ER40)	057	M50x1,5	140					
					096	M28x1,5x25 SW 6		095

Accessories



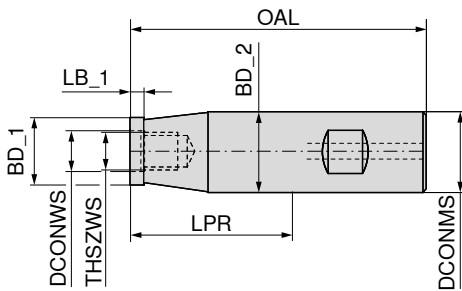
Cylindrical milling bar for cutters with threaded end



56 727 ...

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

Milling bar for cutters with threaded end (Weldon)

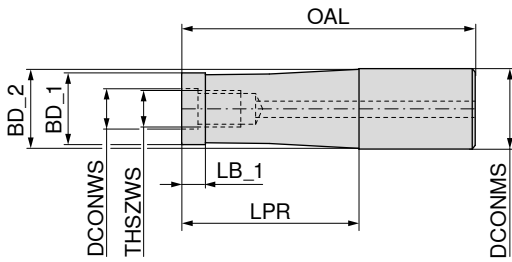


56 729 ...

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

Screw-in adapter with cylindrical shank

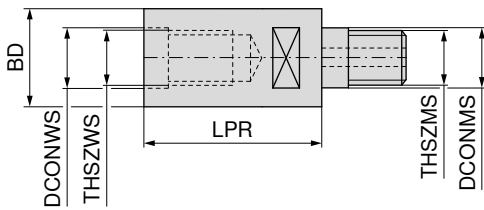
▲ Vibration-damped



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 ...
12	M5	5,5	40	9,5	9	11,3	85		052
12	M5	5,5	60	9,5	9	11,3	105		053
12	M5	5,5	80	9,5	9	11,3	125		054
12	M6	6,5	20	11,5		11,5	65	060	
12	M6	6,5	40	11,5		11,5	85	062	
12	M6	6,5	60	11,5		11,5	105	063	
12	M6	6,5	80	11,5		11,5	125	064	
12	M6	6,5	100	11,5		11,5	145	065	
16	M8	8,5	40	14,2	9	15,3	88	082	082
16	M8	8,5	60	14,2	9	15,3	108	083	083
16	M8	8,5	80	14,2	9	15,3	128	084	084
16	M8	8,5	100	14,2	9	15,3	148	085	085
16	M8	8,5	120	14,2	9	15,3	168	086	086
16	M8	8,5	150	14,2	9	15,3	198		087
20	M10	10,5	60	18,5	9	19,3	110	103	103
20	M10	10,5	80	18,5	9	19,3	130	104	104
20	M10	10,5	100	18,5	9	19,3	150	105	105
20	M10	10,5	120	18,5	9	19,3	170	106	106
20	M10	10,5	140	18,5	9	19,3	190	107	107
25	M12	12,5	75	23,0	9	24,3	131		124
25	M12	12,5	80	23,0	9	24,3	136	124	
25	M12	12,5	100	23,0	9	24,3	156	125	125
25	M12	12,5	120	23,0	9	24,3	176	126	
25	M12	12,5	125	23,0	9	24,3	181		126
25	M12	12,5	140	23,0	9	24,3	196	127	
25	M12	12,5	150	23,0	9	24,3	206		127
25	M12	12,5	160	23,0	9	24,3	216	128	
25	M12	12,5	175	23,0	9	24,3	231		128
32	M16	17,0	100	29,0	9	31,5	160	165 ¹⁾	
32	M16	17,0	150	29,0	9	31,5	210	166 ¹⁾	
32	M16	17,0	200	29,0	9	31,5	260	167 ¹⁾	
32	M16	17,0	250	29,0	9	31,5	310	168 ¹⁾	
32	M16	17,0	300	29,0	9	31,5	360	169 ¹⁾	

1) On request

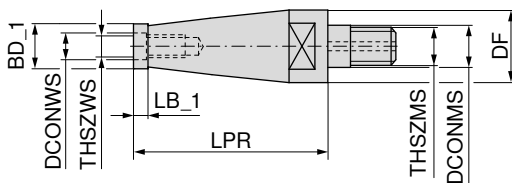
Extensions for milling cutters with threaded end



56 733 ...

THSZWS	THSZMS	DCONWS	DCONMS	LPR	BD	
		mm	mm	mm	mm	
M8	M8	8,5	8,5	40	13,8	081
M8	M8	8,5	8,5	60	13,8	082
M10	M10	10,5	10,5	40	18,0	101
M10	M10	10,5	10,5	60	18,0	102
M12	M12	12,5	12,5	40	21,0	121
M12	M12	12,5	12,5	60	21,0	122
M16	M16	17,0	17,0	40	29,0	161
M16	M16	17,0	17,0	60	29,0	162

Reductions for milling cutters with threaded end



56 735 ...

THSZWS	THSZMS	DCONMS	DCONWS	LPR	BD_1	DF	LB_1	
		mm	mm	mm	mm	mm	mm	
M6	M8	8,5	6,5	20	9,5	13,8	7,8	060
M8	M10	10,5	8,5	40	13,8	18,0	7,8	081
M8	M12	12,5	8,5	60	13,8	21,0	7,8	082
M10	M12	12,5	10,5	40	18,0	21,0	7,8	101
M10	M16	17,0	10,5	60	18,0	29,0	7,8	102
M12	M16	17,0	12,5	40	21,0	29,0	7,8	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. 2 105</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. 14 197 – 14 201</p>
<p>NOF / ZEFP = Number of cutting edges</p>	

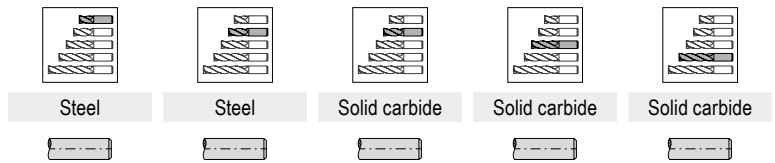
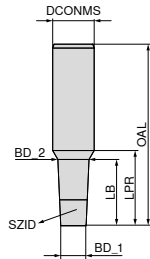
Tool holder	
<p>→ Catalogue – Clamping technology, Chapter 16 Accessories</p> <p>Page No. 16 253 – 16 255</p> <p>extra short / OAL 60 – 90 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>short / OAL 85 – 120 mm</p> <p>Tapered 87° / Steel Cylindrical* / Steel</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>medium / OAL 110 – 150 mm</p> <p>Tapered 87° / Solid carbide Cylindrical* / Solid carbide</p> <p>long / OAL 150 – 200 mm</p> <p>Tapered 87° / Solid carbide Cylindrical* / Steel Cylindrical* / Solid carbide</p> <p>extra long / OAL 200 – 250 mm</p> <p>Cylindrical* / Steel Cylindrical* / Solid carbide</p>	
<p>* only conditionally suitable for milling</p>	

MultiChange – Holders

- ▲ Tapered 87°
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	84 001 ...	84 004 ...	84 005 ...	84 007 ...	84 010 ...
06	7,8	9,4	10	60	18	19					
06	7,8	9,4	10	85	43	44	080		080		
06	7,8	9,4	10	110	68	69			080		
06	7,8	9,4	10	150	108	109				080	080
08	9,8	12,0	16	70	25	29	100				
08	9,8	13,0	16	90	38	41			100		
08	9,8	14,9	16	110	60	61		100	100		
08	9,8	15,4	16	150	100	101				100	100
10	11,8	14,2	16	70	27	29	120				
10	11,8	15,2	16	90	40	41			120		
10	11,8	16,6	20	110	56	59				120	
10	11,8	19,5	20	150	98	99					120
12	15,8	18,2	20	80	27	29	160				
12	15,8	19,5	20	105	53	54			160		
12	15,8	19,5	20	130	78	79		160	160		
12	15,8	19,5	20	150	98	99				160	160
16	19,8	23,2	25	90	39	41	200				
16	19,8	24,5	25	120	60	61			200		
16	19,8	24,5	25	150	90	91		200	200		
16	19,8	24,5	25	200	140	141				200	200

Assembly instructions can be found on → **Page 287**

Accessories



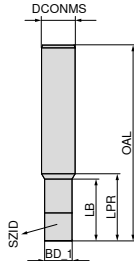
insertion key	Adjustable wrench
→ 287	→ 287

MultiChange – Holders

- ▲ cylindrical
- ▲ only conditionally suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel

Steel

Steel

Steel



84 000 ...

84 002 ...

84 008 ...

84 011 ...

SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm
06	7,8	10	60	17	19
06	7,8	10	85	42	44
06	7,8	10	150	107	109
08	9,8	12	70	22	24
08	9,8	12	90	42	44
08	9,8	12	150	102	104
10	11,8	16	70	17	21
10	11,8	16	90	37	41
10	11,8	16	150	97	101
12	15,8	16	80	30	31
12	15,8	16	105	55	56
12	15,8	16	150	100	101
12	15,8	16	200	150	151
16	19,8	25	90	26	31
16	19,8	25	120	56	61
16	19,8	25	200	136	141
16	19,8	25	250	186	191

080

080

080

100

100

100

120

120

120

160

160

160

200

200

200

160

200

Assembly instructions can be found on → **Page 287**

Accessories



insertion key

Adjustable wrench

→ 287

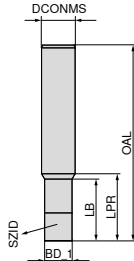
→ 287

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



84 003 ...

84 006 ...

84 009 ...

84 012 ...

SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm
06	7,8	10	85	42	44
06	7,8	10	110	67	69
06	7,8	10	150	107	109
08	9,8	12	90	42	44
08	9,8	12	110	62	64
08	9,8	12	150	102	104
10	11,8	16	90	37	41
10	11,8	16	110	57	61
10	11,8	16	150	97	101
12	15,8	16	105	55	56
12	15,8	16	130	80	81
12	15,8	16	150	100	101
12	15,8	16	200	150	151
16	19,8	25	120	56	61
16	19,8	25	150	86	91
16	19,8	25	200	136	141
16	19,8	25	250	186	191

84 003 ...	84 006 ...	84 009 ...	84 012 ...
080	080		
100		080	
	100		
120		100	
	120		
160		120	
	160		
		160	
200			160
	200		
		200	
			200

Assembly instructions can be found on → **Page 287**

Accessories



insertion key

→ 287



Adjustable wrench

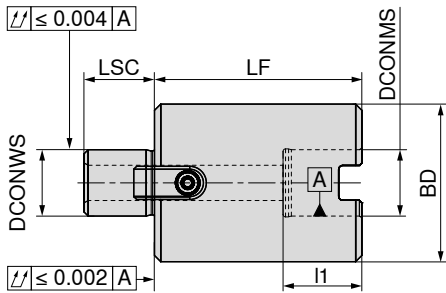
→ 287

Extension for Shell mill arbors

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

Scope of supply:

Holder without clamping screw

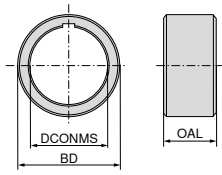


						82 648 ...
DCONWS _{H5} mm	DCONMS _{H5} mm	LF mm	BD mm	LSC mm	I ₁ mm	
16	16	50	38	17	19	050
16	16	75	38	17	19	075
22	22	50	48	19	21	150
22	22	75	48	19	21	175
27	27	50	58	21	23	250
27	27	75	58	21	23	275
32	32	50	78	24	26	350
32	32	75	78	24	26	375
40	40	50	88	27	29	450
40	40	75	88	27	29	475

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

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

Milling Adapter Rings DIN 2084 Form B

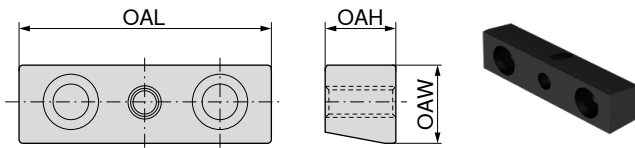


83 385 ...

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

Spare parts for VDI holders with DirectCooling

Clamping rail



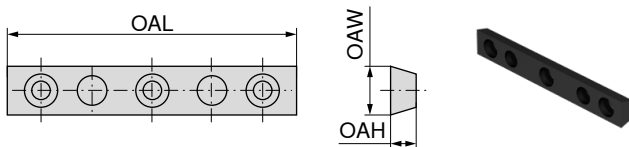
OAL mm	OAW mm	OAH mm	82 250 ...
53,0	12,7	11,5	05300
54,0	16,0	15,0	05400
67,5	16,0	15,0	06750
68,0	21,0	19,0	06800
83,0	20,5	19,0	08300
90,0	20,5	19,0	09000

Screw for ball-shaped spray nozzle



THOD	82 950 ...
M3x10	31000
M4x10	31300
M5x12	31100
M6x12	31200

Clamping wedge



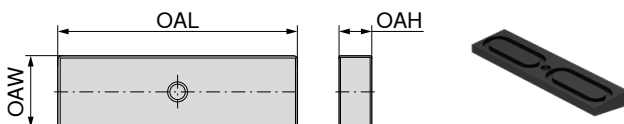
OAL mm	OAW mm	OAH mm	82 250 ...
70	14	7,3	07000
85	14	7,3	08500
100	14	7,3	10000

Ball-shaped spray nozzle



THID	BD mm	82 950 ...
M5	8	30600
M6	10	30900
M6	12	30700
M6	14	30800

Levelling plates



OAL mm	OAW mm	OAH mm	82 250 ...
53,0	14	6,1	15300
67,5	18	6,3	16750
83,0	22	7,5	18300
90,0	22	7,5	19000

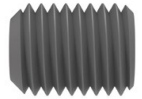
Spare parts for VDI holders with DirectCooling

O ring for clamping wedge



Size	82 950 ...
Ø13 x Ø2	32600
Ø18 x Ø2	32700
Ø22 x Ø2	32800

Screw plug for ball-shaped spray nozzle



THOD	OAL mm	82 950 ...
M5	6	32900
M6	6	33000

O ring for ball-shaped spray nozzle



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

Screw for clamping wedge



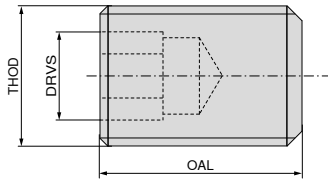
THOD	82 950 ...
M5x12	31800
M6x16	32200
M6x20	31900
M8x20	32300
M8x25	32100

Quad ring



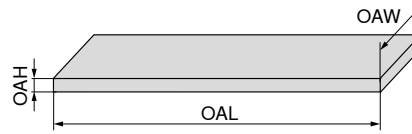
Size	82 950 ...
Ø21,95 x Ø1,78	32400
Ø28,3 x Ø1,78	32500

Screw for cylindrical adaptors E2



Levelling plates

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



83 950 ...

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

83 950 ...

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

Clamping screw for cylindrical adaptors E1



83 950 ...

THOD	
M10x1x10	180
M12x1x12	181
M16x1x13	182

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



83 950 ...

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

Ball-shaped spray nozzle



83 950 ...

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

Pipe joints

▲ steel pipe



83 950 ...

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

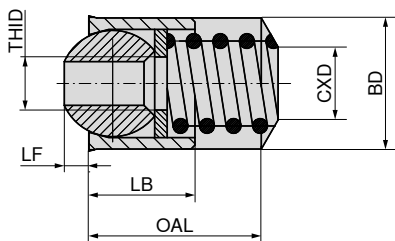
O-Ring



83 950 ...

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

Spray nozzle element



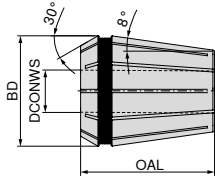
83 950 ...

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

Precision ER collet for precision collet chuck – Centro-P

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

ER-B
2 µm



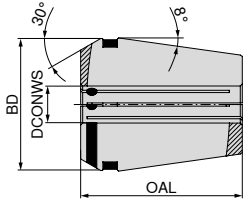
DCONWS mm	BD = 8,5 OAL = 13,6 4004 E / ER08	BD = 11,5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	84 577 ...	84 585 ...	84 596 ...	84 597 ...	84 598 ...	84 599 ...
1,0	010	010	010			
1,1			011			
1,2			012			
1,4			014			
1,5	015	015	015			
1,6			016			
1,8			018			
2,0	020	020	020	020	020	
2,2			022			
2,4			024			
2,5	025	025	025	025		
2,6			026			
2,8			028			
3,0	030	030	030 ¹⁾	030	030	030
3,2			032			
3,4			034			
3,5	035	035	035	035		
3,6			036			
3,8			038			
4,0	040	040	040 ¹⁾	040	040 ¹⁾	040
4,5	045	045	045	045		
5,0	050	050	050 ¹⁾	050	050	050
5,5		055	055	055		
5,6			056			
6,0		060	060 ¹⁾	060 ¹⁾	060 ¹⁾	060
6,3			063			
6,5		065	065	065		
7,0		070	070	070	070	070
7,1			071			
7,5			075	075		
8,0			080 ¹⁾	080 ¹⁾	080 ¹⁾	080
8,5			085	085		
9,0			090	090	090	090
9,5			095	095		
10,0			100 ¹⁾	100 ¹⁾	100 ¹⁾	100
10,5				105		
11,0				110	110	110
11,5				115		
12,0				120 ¹⁾	120 ¹⁾	120
12,5				125		
13,0				130	130	130
13,5				135		
14,0				140 ¹⁾	140 ¹⁾	140
14,5				145		
15,0				150	150	150
15,5				155		
16,0				160 ¹⁾	160 ¹⁾	160
17,0					170	170
18,0					180	180
19,0					190	190
20,0					200 ¹⁾	200
21,0						210
22,0						220
23,0						230
24,0						240
25,0						250
26,0						260
Set in wooden box			999	999	999	

1) Included in the set

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

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

ER-B
2 µm

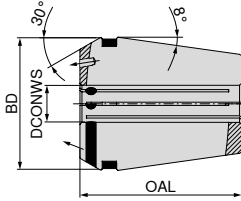


DCONWS mm	BD = 11,3 OAL = 18 425 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
3	030		030		030		030			
4	040		040		040		040			
5	050		050		050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

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

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

ER-A
2 μm

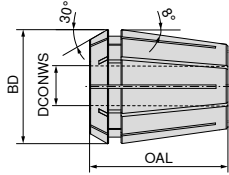


DCONWS mm	BD = 11,3 OAL = 18 4012 E / ER11	BD = 16,7 OAL = 27,5 425 E / ER16	BD = 25,7 OAL = 34 429 E / ER25	BD = 32,7 OAL = 40 469 E / ER32	BD = 40,7 OAL = 46 471 E / ER40
	84 547 ...	84 548 ...	84 549 ...	84 550 ...	84 551 ...
3	03000	03000			
4	04000	040	040	040	
6	06000	060	060	060	06000
8		080	080	080	08000
10		10000	100	100	100
12			120	120	120
14			140	140	
16			16000	160	160
18				180	
20				200	200
25					250

ER precision collet

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

ER-B
5 µm



	BD = 11,5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27,5 426 E / ER16	BD = 21 OAL = 31,5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	84 576 ...	84 578 ...	84 579 ...	84 580 ...	84 581 ...	84 582 ...
DCONWS mm						
1,0	010	010	010 ¹⁾	010 ¹⁾		
1,5	015	015 ¹⁾	015 ¹⁾	015 ¹⁾		
2,0	020	020	020	020	020 ¹⁾	
2,5	025	025 ¹⁾	025 ¹⁾	025 ¹⁾	025 ¹⁾	
3,0	030	030	030	030	030	030 ¹⁾
3,5	035					
4,0	040	040	040	040	040	040
4,5	045					
5,0	050	050	050	050	050	050
5,5	055					
6,0	060	060	060	060	060	060
6,5	065					
7,0	070	070	070	070	070	070
8,0		080	080	080	080	080
9,0		090	090	090	090	090
10,0		100	100	100	100	100
11,0			110	110	110	110
12,0			120	120	120	120
13,0			130	130	130	130
14,0				140	140	140
15,0				150	150	150
16,0				160	160	160
17,0					170	170
18,0					180	180
19,0					190	190
20,0					200	200
21,0						210
22,0						220
23,0						230
24,0						240
25,0						250
26,0						260
Set in wooden box	999	999	999	999	999	999

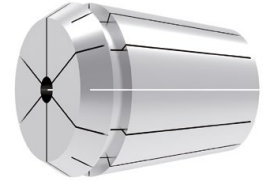
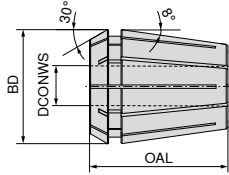
1) not included in the set

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- ▲ DIN ISO 15488-B (alt DIN 6499-B)
- ▲ 16 times slotted
- ▲ Double taper clamping

ER-B
10 µm



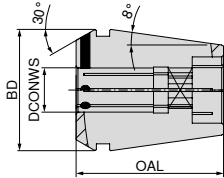
DCONWS mm	NEW	NEW	NEW	NEW
	BD = 8,5 OAL = 13,6 4004 E / ER08	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
	82 683 ...	82 684 ...	82 685 ...	82 686 ...
1,0	01000	01000		
1,5	01500			
2,0	02000	02000	02000	
2,5	02500			
3,0	03000	03000	03000	03000
3,5	03500			
4,0	04000	04000	04000	04000
4,5	04500			
5,0	05000	05000	05000	05000
6,0		06000	06000	06000
7,0		07000	07000	07000
8,0		08000	08000	08000
9,0		09000	09000	09000
10,0		10000	10000	10000
11,0			11000	11000
12,0			12000	12000
13,0			13000	13000
14,0			14000	14000
15,0			15000	15000
16,0			16000	16000
17,0				17000
18,0				18000
19,0				19000
20,0				20000
Set with wood station	99900	99900	99900	99900

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

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max.} = 60$ bar
- ▲ Coated collet

ER-A
10 µm



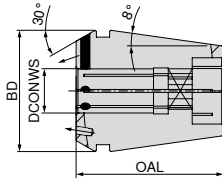
	BD = 16,7 OAL = 27,5 4031 E / ER16	BD = 25,7 OAL = 34 4282 E / ER25	BD = 32,7 OAL = 40 4537 E / ER32
	84 531 ...	84 533 ...	84 534 ...
	028		
	035	035	
	040	040	040
	045	045	045
	060	060	060
	070	070	070
	080	080	080
	090	090	090
		100	100
		110	110
		120	120
		140	140
		160	160
			180
			200

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



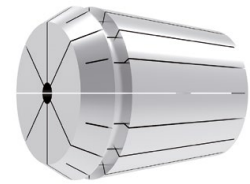
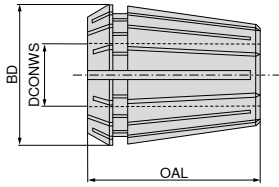
	BD = 16,7 OAL = 27,5 4537 E / ER16	BD = 25,7 OAL = 34 4537 E / ER25	BD = 32,7 OAL = 40 4537 E / ER32
	84 567 ...	84 568 ...	84 569 ...
DCONWS			
mm			
3,5	035		
4,5	045	045	045
6,0	060	060	060
7,0	070	070	070
8,0	080	080	080
9,0	09000	090	090
10,0		100	100
11,0		110	110
12,0		120	120
14,0		140	140
16,0		16000	160
18,0			180
20,0			200

DCONWS
mm
3,5
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

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

ER-B
20 µm



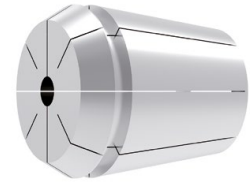
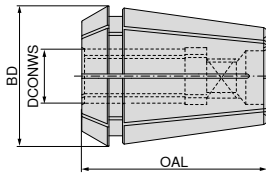
DCONWS mm	NEW				
	BD = 17 OAL = 27,5 426 E / ER16	BD = 21 OAL = 31,5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	82 687 ...	82 688 ...	82 689 ...	82 690 ...	82 691 ...
1	01000	01000			
2	02000	02000	02000		
3	03000	03000	03000	03000	03000
4	04000	04000	04000	04000	04000
5	05000	05000	05000	05000	05000
6	06000	06000	06000	06000	06000
7	07000	07000	07000	07000	07000
8	08000	08000	08000	08000	08000
9	09000	09000	09000	09000	09000
10	10000	10000	10000	10000	10000
11		11000	11000	11000	11000
12		12000	12000	12000	12000
13		13000	13000	13000	13000
14			14000	14000	14000
15			15000	15000	15000
16			16000	16000	16000
17				17000	17000
18				18000	18000
19				19000	19000
20				20000	20000
21					21000
22					22000
23					23000
24					24000
25					25000
26					26000
Set with wood station	99900	99900	99900	99900	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



NEW

BD = 25,7
OAL = 34
430 E / ER25

82 692 ...

NEW

BD = 32,7
OAL = 40
470 E / ER32

82 693 ...

NEW

BD = 40,7
OAL = 46
472 E / ER40

82 694 ...

DCONWS mm	NEW	NEW	NEW
4,5	04500	04500	
5,5	05500	05500	
6,0	06000	06000	
7,0	07000	07000	07000
8,0	08000	08000	08000
9,0	09000	09000	09000
10,0	10000	10000	10000
11,0	11000	11000	11000
12,0	12000	12000	12000
14,0		14000	14000
16,0		16000	16000
18,0			18000
20,0			20000

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box



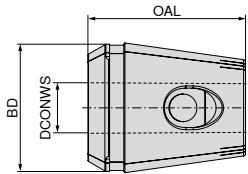
83 689 ...

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

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

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

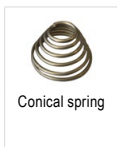
ER
5 μm



BD = 32,7
OAL = 40
ER 32

83 629 ...

DCONWS mm	
12	120
16	160



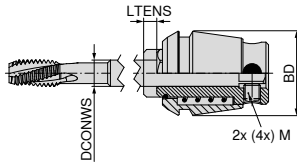
83 950 ...

Spare parts DCONWS		
12	CP 32	455
16	CP 32	455

Tapping Collet Form ET (ER) with length compensation

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

ER
10 µm



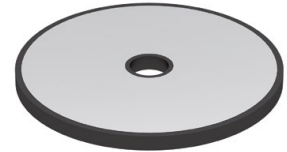
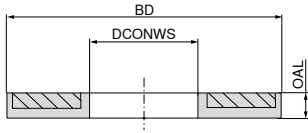
DCONWS mm	BD = 17 LTENS = 7 426 E / ER16	BD = 21 LTENS = 7 428 E / ER20	BD = 26 LTENS = 8 430 E / ER25	BD = 33 LTENS = 10 470 E / ER32	BD = 41 LTENS = 13 472 E / ER40
	80 661 ...	80 662 ...	80 663 ...	80 664 ...	80 665 ...
2,2	022	022			
2,5	025	025	025		
2,8	028	028	028		
3,0	030	030	030		
3,5	035	035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

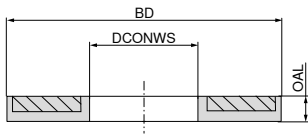
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



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

Sealing rings for precision collet chucks – PCC

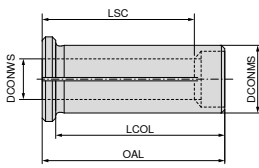
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



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

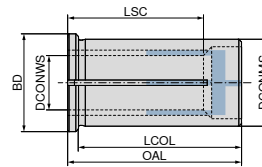
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

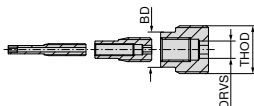
▲ with coolant holes, for flexible diameter application






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

83 611 ...						
DCONMS	DCONWS	BD	OAL	LCOL	LSC	
mm	mm	mm	mm	mm	mm	
12	3	16	44	40	29	10300
12	4	16	44	40	29	10400
12	5	16	44	40	29	10500
12	6	16	44	40	36	10600
12	8	16	44	40	37	10800
20	3	25	54	50	28	20300
20	4	25	54	50	28	20400
20	5	25	54	50	28	20500
20	6	25	54	50	36	20600
20	8	25	54	50	37	20800
20	10	25	54	50	40	21000
20	12	25	54	50	45	21200
20	14	25	54	50	45	21400
20	16	25	54	50	48	21600
32	6	36	64	60	36	30600
32	8	36	64	60	36	30800
32	10	36	64	60	40	31000
32	12	36	64	60	45	31200
32	14	36	64	60	46	31400
32	16	36	64	60	48	31600
32	18	36	64	60	49	31800
32	20	36	64	60	50	32000
32	25	36	64	60	56	32500

Stop screw for use with reducing sleeves in hydraulic chuck



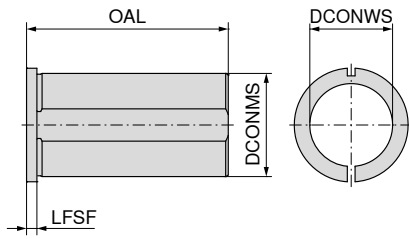
Adaptation for the use of stop screws
for reducing sleeves

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	
M4x0,5x26	2,8	2	425
M8x1x19	5,8	2,5	428
M10x1x16	5,8	3	426
M16x1x16	11,7	5	427

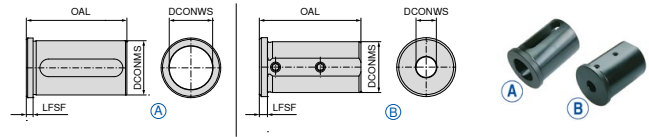
Slotted reduction sleeves

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



Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 271 ...

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

83 272 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	
25	6	50	4	B	256
25	8	50	4	B	258
25	10	50	4	B	260
25	12	50	4	B	262
25	14	50	4	A	264
25	16	50	4	A	266
25	20	50	4	A	270
32	6	58	5	B	326
32	8	58	5	B	328
32	10	58	5	B	330
32	12	58	5	B	332
32	16	58	5	A	336
32	20	58	5	A	340
32	25	58	5	A	345
40	8	58	5	B	408
40	10	58	5	B	410
40	12	58	5	B	412
40	16	58	5	A	416
40	20	58	5	A	420
40	25	58	5	A	425
40	32	58	5	A	432
50	12	75	5	B	512
50	16	75	5	A	516
50	20	75	5	A	520
50	25	75	5	A	525
50	32	75	5	A	532
50	40	75	5	A	540

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...

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

Assembly device for ISO adapters

▲ Aluminium

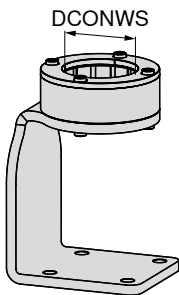


80 720 ...

Adapter	
SK 30	030
SK 40	040
SK 50	050


Assembly fixture for tool holders

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

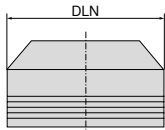


80 722 ...

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

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

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



for seals

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

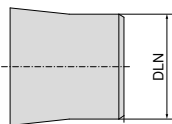
Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



84 950 ...

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

Tapered lock nut for precision collet chuck – Centro-P



for seals

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

Mini lock nut for precision collet chuck – Centro-P



for seals

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

1) directly sealed

Roll key

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



84 950 ...

for lock nut	DLN mm	
4004E / ER08 CP mini	10	050 ¹⁾
4008E / ER 11 CP mini	16	080 ¹⁾
426E / ER 16 CP / ER 16 mini	22	026 ¹⁾
426E / ER 16 CP Conical	24	082 ²⁾
426E / ER 16 CP	30	027
426E / ER 16 STD	32	028
430E / ER 25 CP	40	054
470E / ER 32 CP + STD	50	056
470E / ER 32 HDC	53	30200
472E / ER 40 CP + STD	63	057

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

Torque key



84 435 ...

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

Additional roll key device for torque key

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

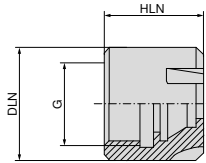


84 950 ...

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

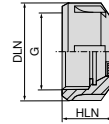
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



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

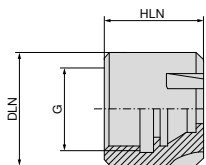
ER Lock nut



for seals

for collet	THSZMS	DLN mm	HLN mm	62 950 ...	83 950 ...
426E (ER16)	M22x1,5	32	17,0	054	
426E (ER16)	M22x1,5	32	22,0		054
428E (ER20)	M25x1,5	35	23,2		053
430E (ER25)	M32x1,5	42	20,0	055	
430E (ER25)	M32x1,5	42	24,7		055
470E (ER32)	M40x1,5	50	22,3	056	
470E (ER32)	M40x1,5	50	27,0		056
472E (ER40)	M50x1,5	63	25,3	057	
472E (ER40)	M50x1,5	63	30,7		057

Mini ER lock nut for sealing rings



for seals

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

Y clamping key

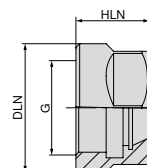


83 357 ...

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

ER Lock nut

▲ DRVS = Drive size



ER Mini clamping key



83 950 ...

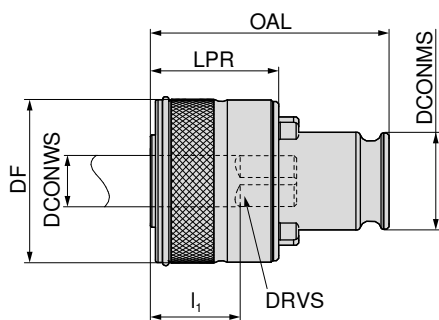
for collet	83 950 ...
4004E (ER08)	099
4008E (ER11)	100
426E (ER16)	101
428E (ER20)	102
430E (ER25)	103

62 950 ...

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

Quick change tap adapter with overload clutch

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

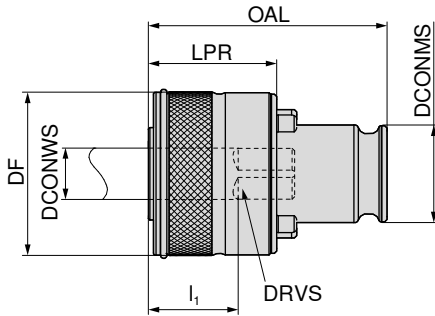


83 612 ...

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

Quick change tap adapter with overload clutch, with through coolant

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

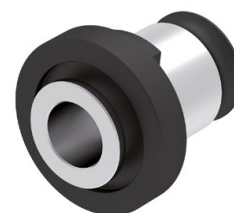
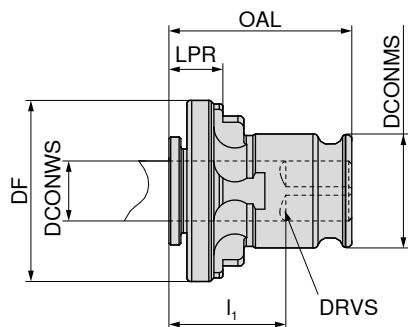


83 616 ...

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

Quick change tap adapter

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

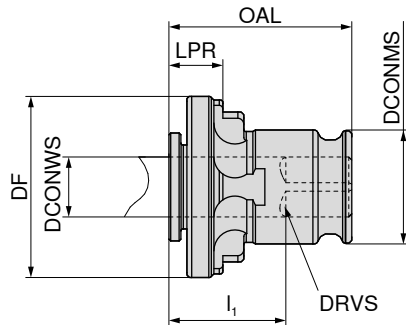


83 610 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	
01	3,5	2,7	M3		30	19	28,5	17	7	100
01	4,5	3,4	M4		30	19	28,5	17	7	101
01	4,0	3,0	M3,5		30	19	28,5	17	7	102
01	2,8	2,1	M2 - M2,6		30	19	28,5	17	7	103
01	5,5	4,3		M7	30	19	28,5	17	7	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	17	7	105
01	7,0	5,5	M7	M10	30	19	28,5	17	7	106
01	8,0	6,2	M8	M11	30	19	28,5	17	7	107
01	9,0	7,0	M9	M12	30	19	28,5	17	7	108
01	10,0	8,0	M10		30	19	28,5	17	7	109
01	11,0	9,0		M14	30	19	28,5	17	7	110
02	6,0	4,9	M4,5 - M6		46	31	46,0	30	11	200
02	7,0	5,5	M7		46	31	46,0	30	11	201
02	8,0	6,2	M8		46	31	46,0	30	11	202
02	9,0	7,0	M9		46	31	46,0	30	11	203
02	10,0	8,0	M10		46	31	46,0	30	11	204
02	11,0	9,0		M14	46	31	46,0	30	11	205
02	12,0	9,0		M16	46	31	46,0	30	11	206
02	14,0	11,0		M18	46	31	46,0	30	11	207
02	16,0	12,0		M20	46	31	46,0	30	11	208
02	18,0	14,5		M22 - M24	46	31	46,0	30	11	209

Quick change tap adapter, with through coolant

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

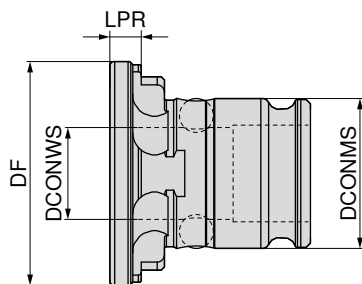


83 614 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	I ₁ mm	LPR mm	
01	3,5	2,7		M4,5 - M5	30	19	28,5	17	7	100
01	4,5	3,4	M4	M6	30	19	28,5	17	7	102
01	5,5	4,3		M7	30	19	28,5	17	7	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	17	7	106
01	7,0	5,5	M7	M10	30	19	28,5	17	7	108
01	8,0	6,2	M8	M11	30	19	28,5	17	7	110
01	9,0	7,0	M9	M12	30	19	28,5	17	7	112
01	10,0	8,0	M10		30	19	28,5	17	7	114
02	6,0	4,9	M4,5 - M6	M8	46	31	46,0	30	11	200
02	7,0	5,5	M7	M10	46	31	46,0	30	11	202
02	8,0	6,2	M8	M11	46	31	46,0	30	11	204
02	9,0	7,0	M9	M12	46	31	46,0	30	11	206
02	10,0	8,0	M10		46	31	46,0	30	11	208
02	11,0	9,0		M14	46	31	46,0	30	11	210
02	12,0	9,0	M12	M16	46	31	46,0	30	11	212
02	14,0	11,0		M18	46	31	46,0	30	11	214
02	16,0	12,0		M20	46	31	46,0	30	11	216

Reducing adapter for quick change adapters

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

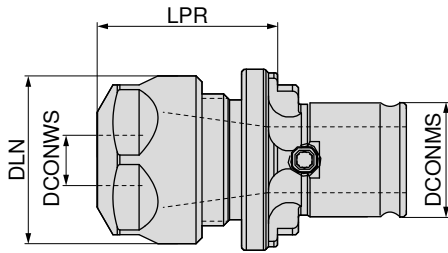


83 624 ...

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

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



83 618 ...

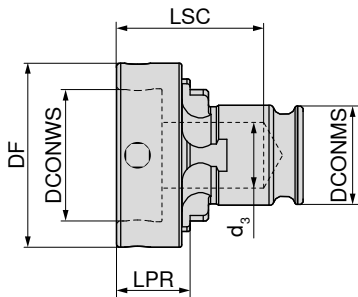
SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet
01	1 - 10	28	19	29,5	ER 16
02	2 - 16	42	31	38,5	ER 25

010 ¹⁾
016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



83 622 ...

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

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

MultiChange – Spanner

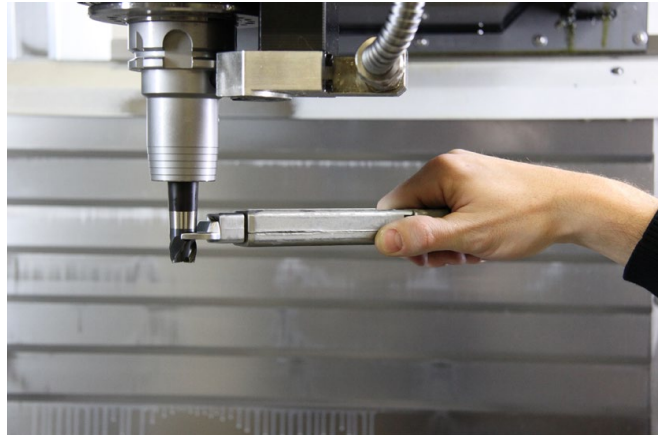


DRVS mm	TQX Nm	84 357 ...
6	5	006
8	12,5	008
10	15	010
13	20	013
16	25	016
19	25	019 ¹⁾
21	25	021 ¹⁾
24	25	024 ¹⁾

1) only for MultiChange reamers

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

1) only for MultiChange reamers



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 280.**

TORX® Screwdriver



80 950 ...

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

TORX® Screwdriver sets



80 950 ...

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

TORX PLUS® Screwdriver



80 950 ...

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

TORX PLUS® Screwdriver sets



80 950 ...

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

Clamping key



80 397 ...

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

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



80 397 ...

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

TORX® Screwdriver



80 950 ...

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

TORX PLUS® Screwdriver



80 950 ...

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

TORX® MagicSpring®



80 950 ...

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

TORX PLUS® MagicSpring®



80 950 ...

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



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



TorqueFix® Handle

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



TQX Nm	80 021 ...
0,4	00400
0,5	00500
0,6	006
0,7	007
0,8	008
0,9	00900
1	010
1,1	01100
1,2	012
1,5	01500
1,6	016
1,8	018
2	020
2,5	02500
3	030
3,2	032
3,8	03800
4	040
5	050
5,5	055
6	060
7,2	07200

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



TQX Nm	80 950 ...
0,4 - 1,0	046
0,5 - 2,0	191
0,8 - 5,0	192
2,0 - 7,0	193

Universal holder for Bits

- ▲ 162 mm long



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

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: ± 6%, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



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

Interchangeable blade for hex drive



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

Replaceable Blade for TORX®



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

Replaceable Blade for TORX PLUS®



Size	TQX Nm	long 175 mm
		80 950 ...
T05-IP	0,5	049
T06-IP	0,8	050
T07-IP	1,3	051
T08-IP	2,0	043
T09-IP	3,0	052
T10-IP	4,5	053
T15-IP	6,6	054
T20-IP	8,0	055
T25-IP	8,0	056



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → **Page 290.**

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 290.**

TORX® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4"



80 950 ...

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

TORX® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4"



80 950 ...

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

TORX PLUS® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4"



80 950 ...

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

TORX PLUS® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4"



80 950 ...

Size	TQX Nm	
T08-IP	2,6	040
T09-IP	3,4	077
T10-IP	4,5	078
T15-IP	7,7	079
T20-IP	12,7	080
T25-IP	19	081

Bit – hexagonal (50 mm)

▲ DIN3126-E 6,3 – 1/4"



80 398 ...

Size	
SW1,5	01500
SW2	02000
SW2,5	02500
SW3	03000
SW3,5	03500
SW4	04000
SW4,5	04500
SW5	05000
SW6	06000
SW8	08000

TORX PLUS® Allen key



80 951 ...

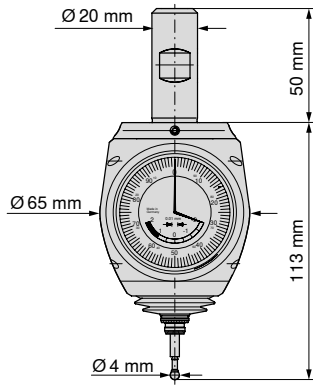
Size	OAL mm	
T07-IP	44	00700
T08-IP	47	00800
T09-IP	51	00900
T10-IP	54	01000
T15-IP	58	01500
T20-IP	62	02000
T25-IP	67	02500
T27-IP	73	02700
T30-IP	79	03000
T40-IP	88	04000

Universal 3D-tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

Universal-3D-Tester

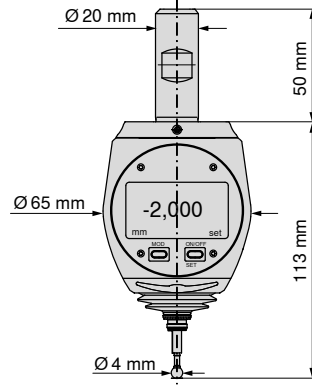
100

Digital 3D tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 291 ...

Digital 3D Tester

100

Zero height setting gauge

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



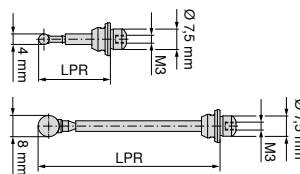
85 900 ...

OAH
mm
100

018

Stylus for 3D-tester

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



85 290 ...

LPR
mm
25
65

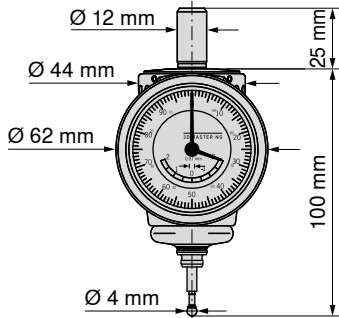
102
104

Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

Universal 3D-Tester HQ

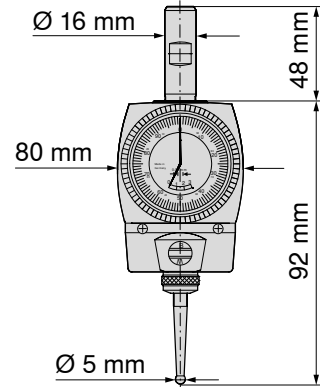
100

Centre finder

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

Scope of supply:

3D-Tester incl. straight stylus and telescopic stop



85 299 ...

Centre finder

100



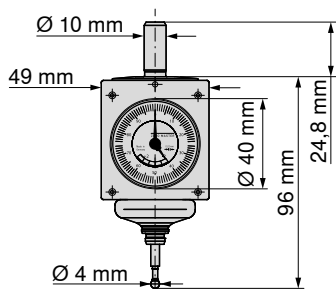
Range with probe tip \varnothing 5 mm holes
 \varnothing 6–125 mm, shaft \varnothing 0–125 mm

Universal 3D-Tester Mini

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

Scope of supply:

3D tester including tracer insert and Allen key

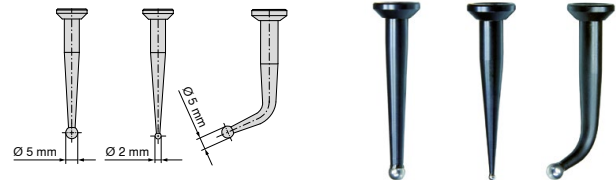


85 295 ...

Universal 3D-Tester Mini

100

Stylii for Centre Finder



85 299 ...

- Straight stylus / Ball- \varnothing 2 mm
- Straight stylus / Ball- \varnothing 5 mm
- Curved stylus / Ball \varnothing 5 mm

102
104
106

Telescopic rod for Centre Finder



85 299 ...

DCONMS mm	OAL mm
6	478

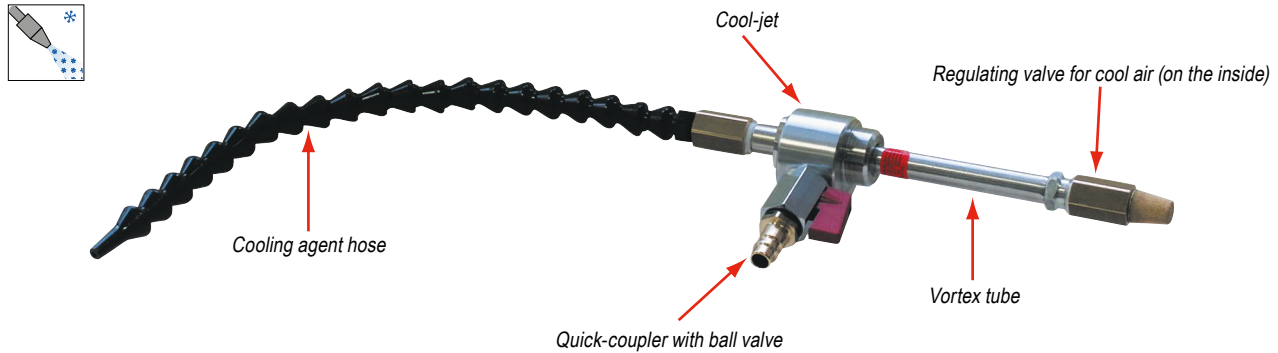
111

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100 % when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

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



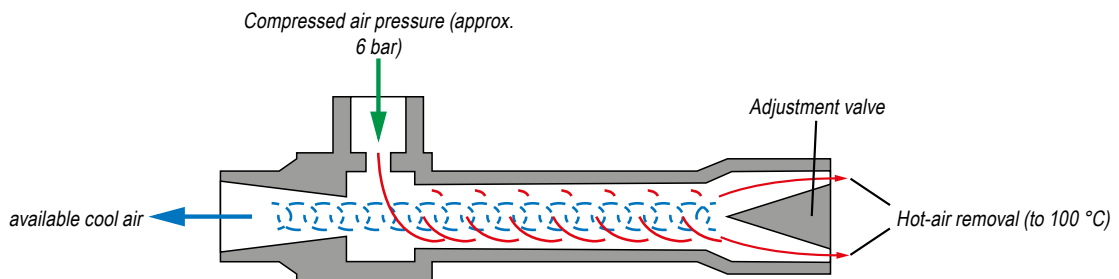
Cool-jet	81 900 ...	81 900 ...
3–7 bar air pressure, at -46 °C	100	
Accessories		81 900 ...
Magnetic plate Ø 80 mm without clamping arm		101
Spare tube, length 300 mm		104
Jet silencer (air filter)		105
Clamping arm, length 75 mm		106
Complete set (with magnetic set and clamping arm), weight 0,4 kg	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

Technical description – operating instruction


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

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

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



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

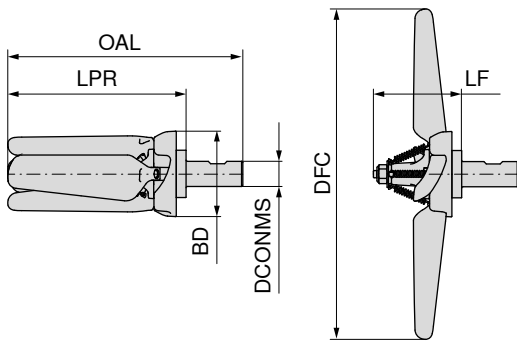
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

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

Cleaning propeller – large

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



IK central

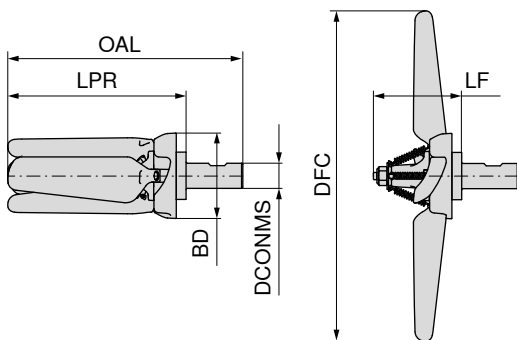
80 399 ...

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

02000

Cleaning propeller – small

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



IK central

80 399 ...

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	135	90	70	160	68	6000 - 12000

16000

Rotor blade kit



1 rotary blade and 1 tension spring 4 rotary blades and 4 tension springs

80 399 ...

80 399 ...

Size	80 399 ...	80 399 ...
Large	30100	30200
Small	36000	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



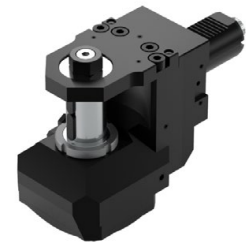
Double axial drilling and milling head



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 | ▲ BMT (bolt on) |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | |
| ▲ Duplomatic | ▲ DIN5482 | ▲ Spline / tooth milling | |

Technical Advice

Are you interested in our driven tools ? If so please contact your technical sales engineer who will be glad to assist you. Alternatively, you can contact our office based internal technical sales engineers who can be reached on our freephone number.

Enquiry Form

Should you have questions about driven tools you can find a detailed questionnaire on our website in the download area. Carefully complete the form and send it via e-mail or printed fax → cutting.tools/en/download

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options! With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

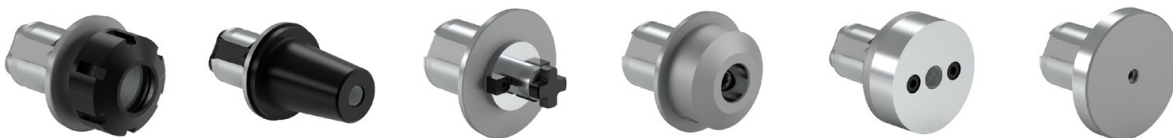
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



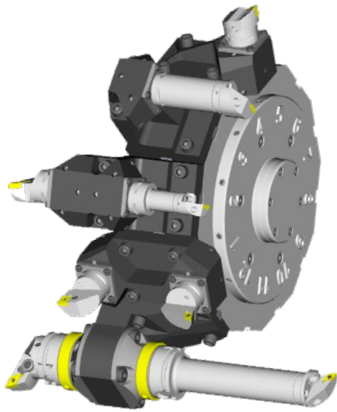
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



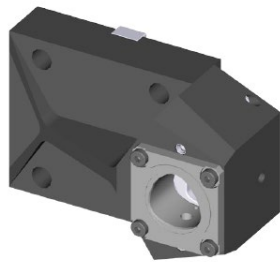
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and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

Quick-Change

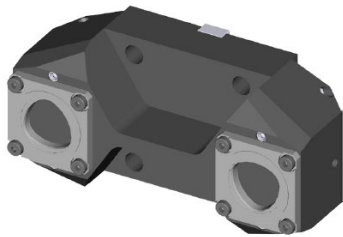


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

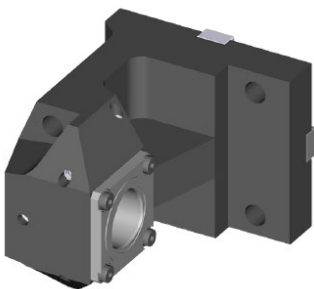
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



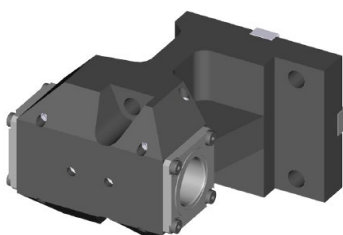
Tool holder single and straight



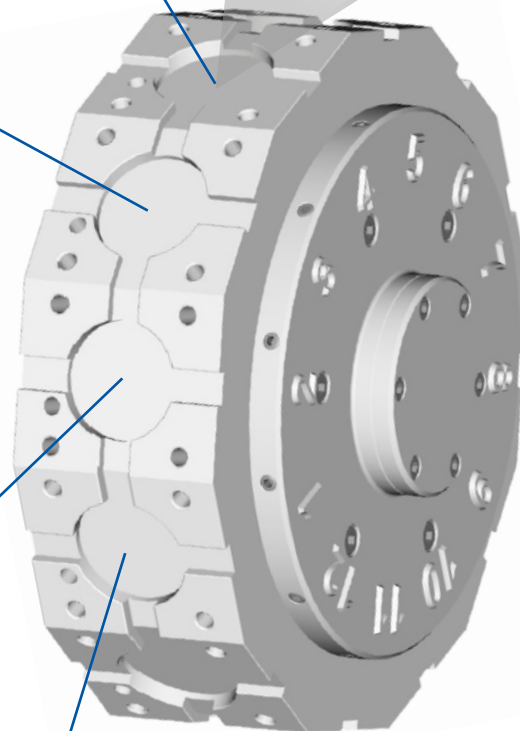
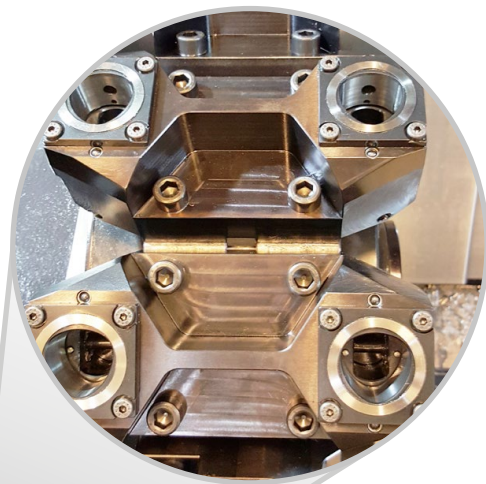
Tool holder double and straight



Single angle tool holder



Double angle tool holder

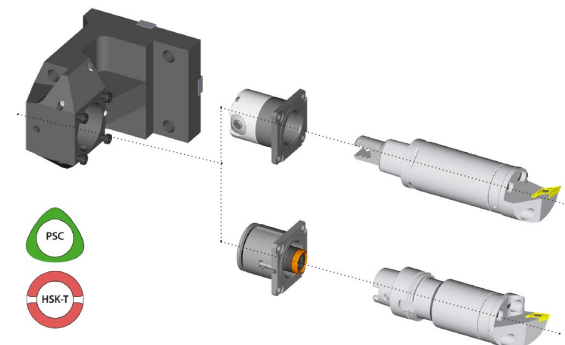


Revolverdisk BMT/VDI/...

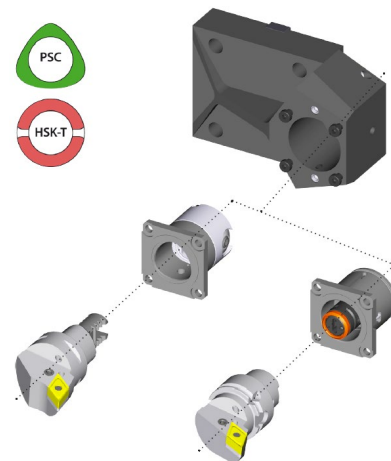
HSK/PSC clamping units

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

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

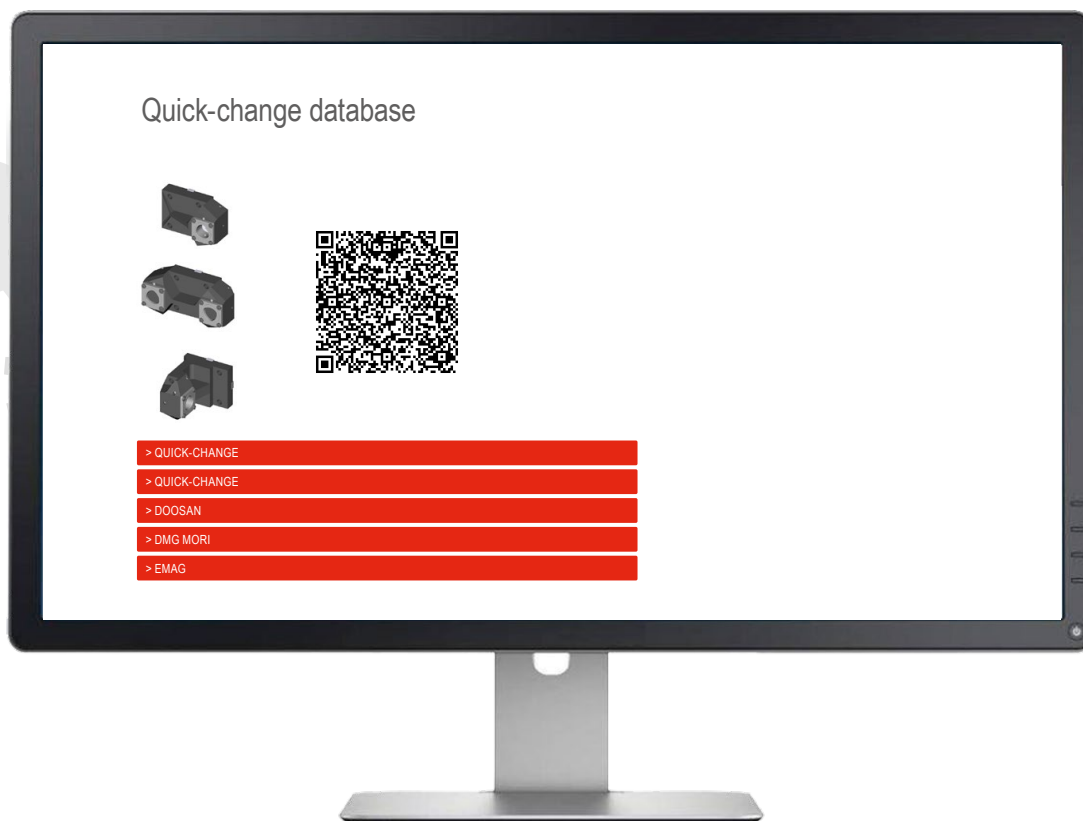


➤ The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



Information on enquiry process

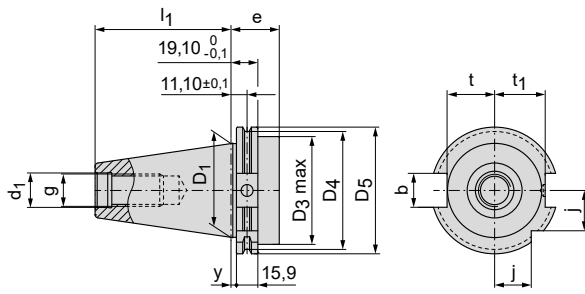
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process. Please fill in this form carefully and send it to us by email or fax.

→ cutting.tools/en/download-quickchange

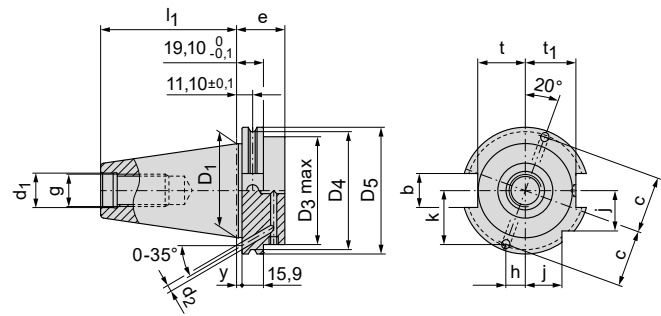
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

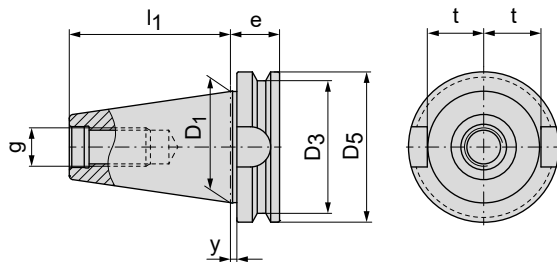


ISO 7388-1 – 871 Form B



	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.

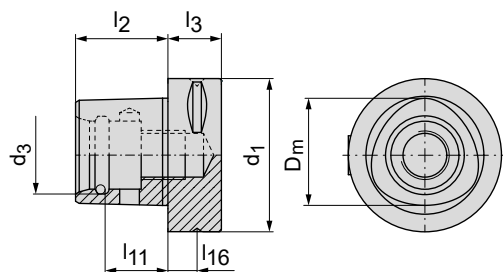
SK / BT 40 to 20,000 1/min.

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 adaptors

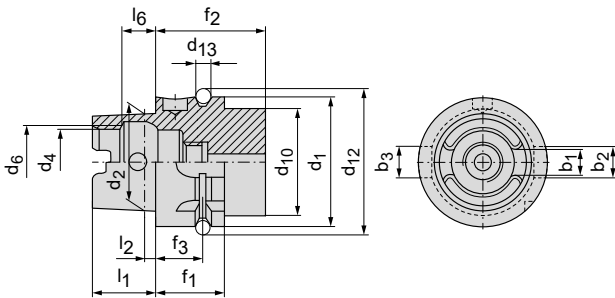
ISO 26623-1



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

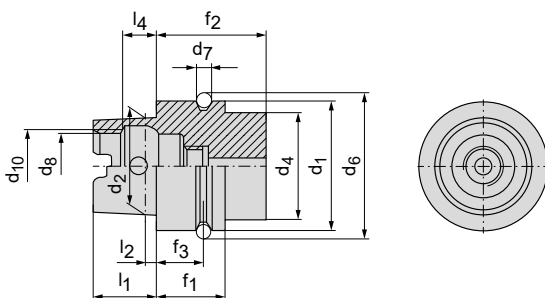
ISO 12164 – HSK-A

- ▲ 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



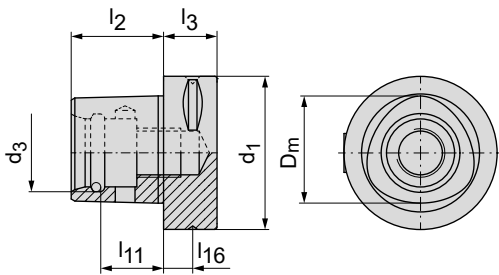
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

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 ± 0,05	l ₂ ± 0,1	l ₃	l ₁₁ ± 0,1	l ₁₆	D _m
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

High Pressure Chuck

HPC milling with optimum damping

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

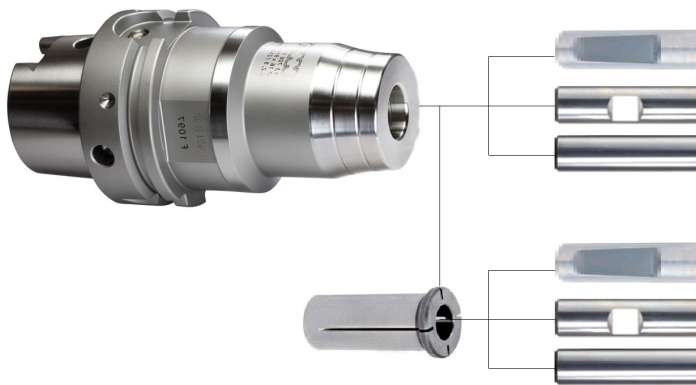
The main technical characteristics of the high-pressure Milling Chuck are

- ▲ high damping properties
- ▲ Spindle-friendly
- ▲ maximum stability and strength
- ▲ high holding force and torque transmission
- ▲ 3 µm radial run-out
- ▲ Balanced to G2,5 at n_{max} 25.000 1/min.
- ▲ short tool change time
- ▲ no additional peripherals required
- ▲ MMS suitable
- ▲ maintenance free



Clamping of shanks with flats possible with or without reduction sleeve

HSS shank DIN1835 and
Solid Carbide shank DIN6535



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. Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. Milling Chuck now offers this process reliability.

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

Shank diameter in mm	16	18	20	25	32
Holder Type	Maximum transmissible torque with shank tolerance h6 in Nm				
Shrink fit adapter	200	290	450	530	700
Standard hydraulic chucks	160	200	330	400	650
High Pressure Milling Chuck	280 - 380	360 - 450	550 - 650	650 - 750	800 - 890

 Minimum clamping depth the same as for hydraulic chucks

Static clamping moments

Static clamping moments of the Centro-P and HDC ER precision collet chucks with ER collets 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).

Transmittable torques

Permissible transmitted torque (Md) for Hydraulic Chucks

For direct clamping

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	32	mm
Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm

For clamping with reduction Ø 32 mm

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	mm
Md with shank at minimum size	30	45	60	120	120	180	220	250	330	Nm
Md with shank at maximum size	45	65	110	170	170	230	300	320	440	Nm

For clamping with reduction Ø 20 mm

Clamping diameter (d1 h6)	3	4	5	6	8	10	12	14	16	mm
Md with shank at minimum size	6	9	16	30	55	90	120	135	190	Nm
Md with shank at maximum size	10	12	22	40	75	120	150	170	260	Nm

For clamping with reduction Ø 12 mm

Clamping diameter (d1 h6)	3	4	5	6	8	mm
Md with shank at minimum size	3	4	7	12	18	Nm
Md with shank at maximum size	4	8	12	20	26	Nm

Minimum shank clamping depths for hydraulic chucks

Shank type & size	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm

Permissible transmitted torque (Md) for high pressure chuck

Minimum shank clamping depths for high pressure chuck

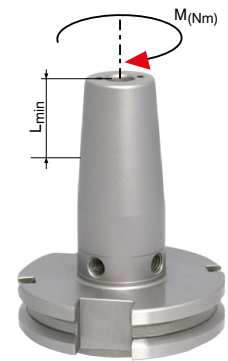
Shank type & size	16	18	20	25	32	mm
Minimum clamping depth	39	39	41	47	51	mm

For direct clamping

Clamping diameter (d1 h6)	16	18	20	25	32	mm
Md with shank at minimum size	280	360	550	650	800	Nm
Md with shank at maximum size	380	450	650	750	890	Nm

Minimum permissible shank torques and clamping depths for shrink fit holders

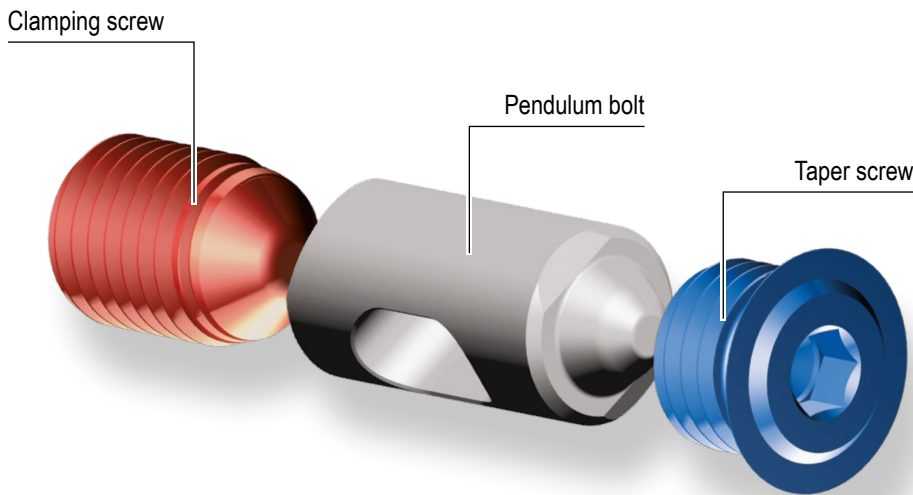
Shank type & size	3	4	5	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	12	16	20	26	26	31	37	37	40	40	42	48	52	mm
permissible torque moment	4	11	17	24	45	82	145	190	200	290	450	530	700	Nm



Technical information – ABS

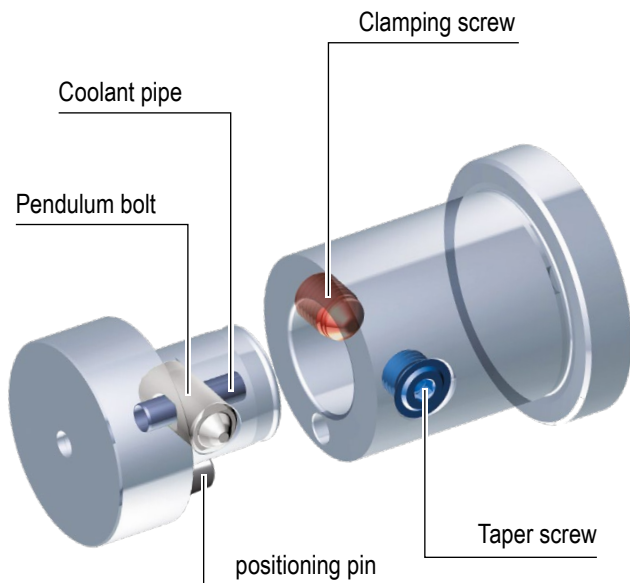
Even better connected

The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. 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



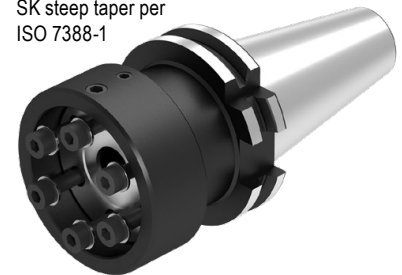
DAH adapter for tools with ABS adapter



With HSK interface ISO 12164



SK steep taper per ISO 7388-1



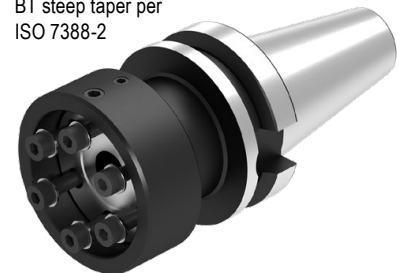
DAH hydraulic expansion adapter for tools with cylindrical shank



With ABS interface



BT steep taper per ISO 7388-2



DAH 50 HS compensation holder for high-speed machining

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision $< 1 \mu$ ensures consistent cutting action
- ▲ Very simple run-out adjustment
- ▲ Compact design
- ▲ Unbeatable vibration damping, meaning outstanding surface quality
- ▲ Flexible clamping range with reduction sleeves
- ▲ Speeds of up to 25,000 rpm
- ▲ Suitable for minimum quantity lubrication (MMS)



With HSK interface ISO 12164



SK steep taper per ISO 7388-1



BT steep taper per ISO 7388-2



A detailed operating manual is available for download in the online shop next to the product.

