

New products for machining technicians

NEW ABS adapters



Work with flexibility and process-security with the modular ABS coupling system for rotating and stationary tools.

NEW Adapter with ABS connection



The expansion of the tried and tested ABS system complements the existing range and continues to meet the high demands for precision.

NEW ER precision collet chuck – PCC



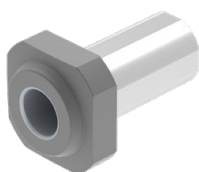
With our new PCC (Precision Collet Chuck), we offer an ER precision collet chuck that is almost equal to our Centro-P in terms of precision and quality. Compatibility with our existing range of collets and use of the same roll key complements the new PCC standard line.

NEW ER precision collet chucks – HDC



- ▲ **Secure** – the form fit using a wedge collet gives an excellent holding torque on the shaft. So the HDC doesn't just offer maximum security against twisting but also 100 % security against micro-creeping and pull-out.
- ▲ **Rigid** – stable outer contour for high stability and vibration dampening
- ▲ **Powerful** – ball-bearing clamping nut for high holding torque protects against twisting of the collet (up to 700 Nm holding torque). Thanks to the ball-bearing nut, smooth clamping is assured, with little effort.
- ▲ **Dampening** – multi-part clamping nut for additional dampening of the system
- ▲ **HDC** = Heavy Duty Chuck, specially designed for heavy duty machining

NEW Hydraulic expansion chucks and hydraulic expansion chucks with Straight shank – VDI



CERATIZIT is extending its portfolio of clamping devices with a hydraulic chuck which brings the benefits of hydro expansion technology to turning/milling centres.

It ensures highly accurate clamping of boring bars with a h7 shank tolerance and a repeatability of 3 µm. Tools are changed in a matter of seconds and this can be performed directly in the machine without auxiliary equipment.



Solid drilling and bore machining

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

Threading

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

Turning

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

Table of contents

Symbol explanation	2
Toolfinder	
Machine interface	3
Rotating toolholders	4+5
Adapters, stationary	
- HSK-T and PSC tool holders	6+7
- VDI adapters for star turrets	8
- VDI adapters for disc turrets	9
Accessories	10
Product programme	
Adapters	12-281
Product programme	
Accessories	229-290
Technical Information	
Driven Tools	292+293
Quick-Change	294+295
Technical data – DIN ISO 7388-1 / DIN ISO 7388-2 / PSC	296
Technical data – HSK-A / HSK-E	297
Technical Information for Polygon Shank Adapters	298
High Pressure Milling Chuck	299
Transmittable torques and static clamping torques	300
Technical information – ABS	301

WNT \ Performance

Premium quality tools for high performance.

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

WNT \ Standard

Quality tools for standard applications.

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

Symbol explanation

Coolant supply version



without coolant supply (Form A)



Coolant supply central
Steep taper Form AD



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



with eroded cooling ducts



Coolant supply centrally or via the collar
with eroded cooling channels



Adapter with two additional coolant holes



Coolant supply centrally or via the collar
also additional coolant holes



Central coolant supply or via a coolant nozzle



specially matched adapter for ThermoGrip® shrinking process

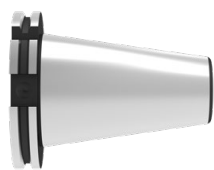


Collet description

- ▲ Type version
- ▲ Radial run-out accuracy

Toolfinder – Machine interface

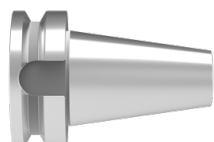
ISO 7388-1 – SK steep taper holders



- ▲ SK 30
- ▲ SK 40
- ▲ SK 50

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

ISO 7388-2 – MAS-BT taper shank



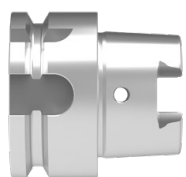
MAS-BT / MAS-BT-FC with face contact

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

▶ Toolfinder – Adapters, rotating	4+5
MAS-BT product range	59–102
MAS-BT-FC product range	103–112

HSK hollow taper adapters with face contact

ISO 12164 – HSK-A / HSK-E



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

▶ Toolfinder – Adapters, rotating	4+5
HSK-A product range	113–158
HSK-E product range	159–163

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

▶ Toolfinder – Adapters, stationary	6+7
Product programme	199–201

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



PSC, rotating

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

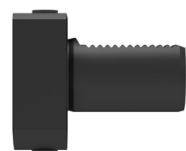
▶ Toolfinder – Adapters, rotating	4+5
Product programme	164–182

PSC, stationary

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

▶ Toolfinder – Adapters, stationary	6+7
Product programme	202–208

ISO 10889 – VDI tool holders with cylindrical shank



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

▶ Toolfinder – Adapters, stationary	8+9
Product programme	209–228
Driven Tools	292+293

Toolfinder – Adapters, rotating

											
Holder Type		ISO 7388-1		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
		SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
Accuracy											
Maximum											
Centro-P											
▲ ER Precision Collet chuck			12-14	59-61	103	113-115	159+160	164			240
▲ OZ precision Collet chuck			15	62		116					
HDC											
▲ ER Precision Collet chuck			16	63	104	117					
High Pressure Milling Chuck											
			17-19	64-65	106	118+119		165			
Hydraulic chuck											
			21	66-69	107	120-122			183		236+237
Heat Shrink Adapter											
			22-27	70-74	105	123+129	161	166+167	184		235
Micro-Precision Collet Chuck											
						142	162				238
High											
Cylindrical shank adapter											
▲ Weldon			28-30	75+76	108	130-134		168	185		239
▲ Whistle Notch			31+32	77+78		135		169	186+187		
Indexable insert drill adapter											
			33	79		136		170			
Collet Chuck											
▲ Precision Collet chuck – PCC			34	80		137					
▲ ER Collet chuck			35	81	109	138-140		171+172	188		241+242
▲ OZ Collet Chuck			36	82							
Short drill chuck											
			37	83		141		173	189	231	231

Main Application
Extended application

Finishing



Roughing - Finishing



Roughing

Toolfinder – Adapters, rotating

											
Holder Type		ISO 7388-1		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
		SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
Accuracy											
High											
Quick change tapping chuck		▲ With minimum length compensation	38-39	84+85		143+144		174	190	232	
		▲ with length compensation	40	86		145		175	189	233	233
		▲ Without length compensation	40	86		145					
ABS adapters		41+42	43	87-89	90	146+147		176	193-197		
Medium											
Adapter for milling cutters with threaded end		44+45		91		148+149		177	247		243-246
Face mill adapter		▲ Combination shell mill adapter	46	92		150		178+179	192		
		▲ Shell mill adapter	47+48	93+94		110	151+153		191		
		▲ Large diameter facemill adapter	49	95							
Drill chuck adapter		50	96		230						
Milling adapter sleeve for MK shanks with thread		51	97								
Taper adapter for Morse taper		52	98		154		180	230			
Adapter		▲ SK	53			54	55				
▲ MAS-BT		99	99		100	101					
▲ HSK-A						155	156				
▲ PSC		206+207									
Blank		56	102		157		181	198			
Test bar		56	102		158		182				
Accessories											
Pull stud		57+58	111+112								
Coolant pipe/key						163		182			
Main Application				Finishing				Roughing - Finishing		 Roughing	
Extended application											

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

Toolholders for negative turning inserts

	Type	Illustration
	Machining	
	DCLN 95° Internal + External	
	DCMN 95° External	
	DCMN+ DDMN External	

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

	DCMN+ DDMN External	
	DDUN 93° Internal + External	
	DDJN 93° Internal + External	
	DDHN 107,5° Internal + External	
	DDMN 48° External	

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

	DSDN 45° External	
	DVMN 50° External	
	DWLN 95° Internal + External	

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

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

Toolholders for positive turning inserts

	Type	Illustration
	Machining	
	SCLC 95° Internal + External	
	SCMC 50° External	

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

	SDJC 93° Internal + External	
	SDNC 62,5° Internal + External	
	SDMC 48° External	

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

	PRDC 0° External	
	PRSC Internal + External	

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

	SVUC 93° Internal + External	
	SVJC 93° Internal + External	
	SVHC 107,5° Internal + External	
	SVMC 50° External	

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



2,25xD

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

Holders for grooving and threading inserts

Type	Illustration
0°	
90°	

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

Toolholders for threading inserts

Type	Illustration
Internal thread	
External thread	

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

Boring bars for negative inserts

	Type	Illustration
CN..	DCLN 95°	
DN..	DDUN 93°	
WN..	DWLN 95°	

All boring bars for negative indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Boring bars for positive inserts

	Type	Illustration
CC..	SCLC 95°	
DC..	SDUC 93°	
VC..	SVUC 93°	
	SVQC 107,5°	

All boring bars for positive indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Basic holder

Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°		200	202
Square shank holder 45°		200	203
Square shank holder 90°		201	202
Square shank holder 2 face 0°			203
Square shank holder 3 face 0°		200	203
Boring bar holder		201	204

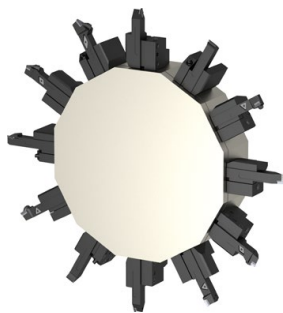
Parting blade holders

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

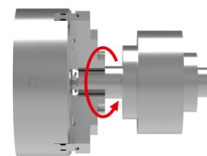
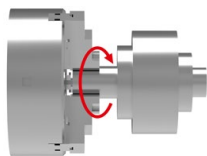
Accessories

Protection plug		208
Hollow nose keys		208

Toolfinder – Stationary adapters – VDI adapters for star turrets



Toolholders above



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

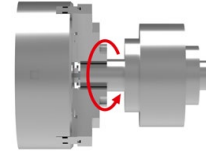
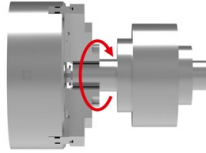
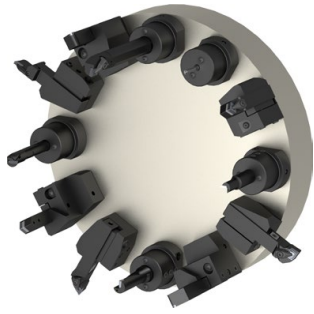
Lower turret	Spindle rotation clockwise		Spindle rotation counter clockwise	
 Square Shank Adapters	B2/B3/B6/B7/C3/C4/D1/D2	209-212	B2/B3/B6/B7/C1/C2/D1/D2	209-212
 Part Off Holder	double – overhead	217+218	double	217+218
 Adapter VDI to VDI	Right-hand	224	Right-hand	224
 Boring bar holder	Right-hand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

Toolholders below

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

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

Toolfinder – Stationary adapters – VDI adapters for disc turrets



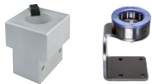
Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	Square Shank Adapters	B1/B5/C1/C2/D1	209-212	B3/B7/C3/C4/D2	209-212
	Cylindrical Shank Adapters	E/E1/E2/E3/E4	212-215	E/E1/E2/E3/E4	212-215
	Taper Adapters	F1	216	F1	216
	Part Off Holder	Right-hand	217+218	Overhead right	217+218
	Short drill chuck	NC 2010	219	NC 2010	219
	Tapping Chucks	GSF/GML	220	GSF/GML	220
	Hydraulic chuck		221		221
Lower turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	Square Shank Adapters	B4/B8/C3/C4/D2	209-212	B2/B6/C1/C2/D1	209-212
	Cylindrical Shank Adapters	E/E1/E2/E3/E4	212-215	E/E1/E2/E3/E4	212-215
	Taper Adapters	F1	216	F1	216
	Part Off Holder	Overhead left	217+218	Left-hand	217+218
	Short drill chuck	NC 2010	219	NC 2010	219
	Tapping Chucks	GSF/GML	220	GSF/GML	220
	Hydraulic chuck		221		221

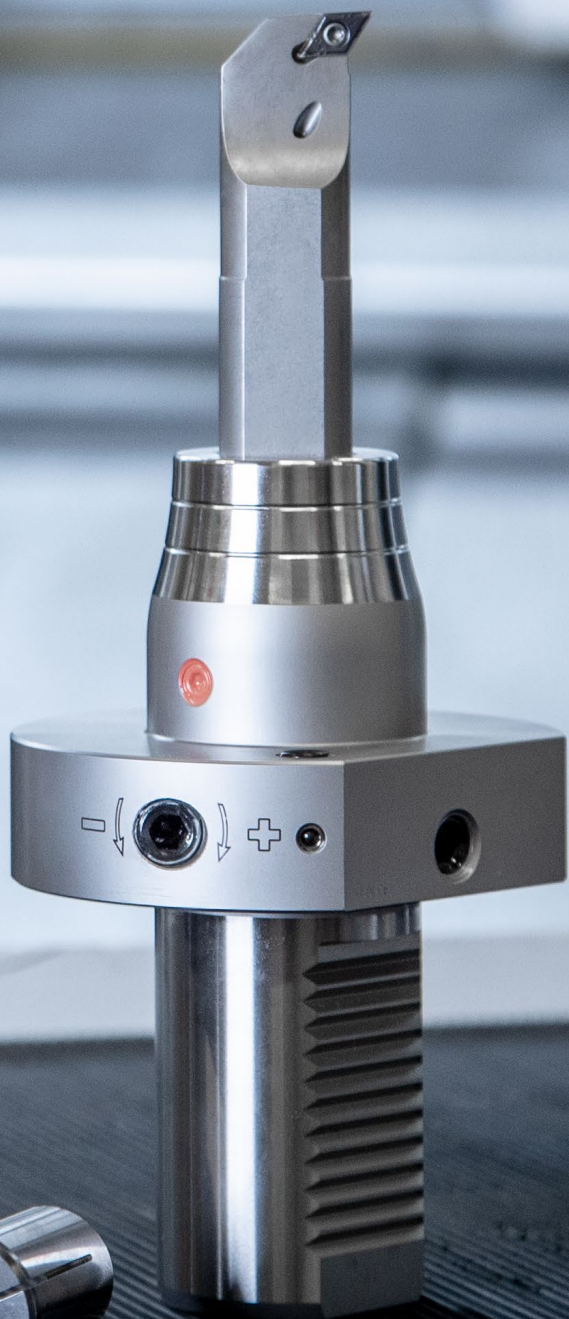
Accessories

	Bar stop	219
	Test arbors	221
	Tool holders	222

	Bar pullers	227
	Gripper accessories	228
	Protection plug	228

Toolfinder – accessories

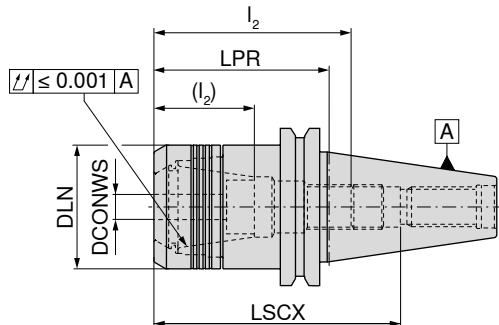
Type		Page No.
Drill chuck with internal taper		229
Tap clamping sleeve for Weldon adapters		234
Extension for Shell mill arbors		252
Milling adapter ring		253
Accessories for VDI		254
Accessories for driven tools		255
Lock nuts		276
Accessories for Centro-P		274
Collets		256-268
Sealing discs		269+270
Roll key		275
Quick change applications		277-281
Reduction sleeve and reducing bushings		271+272
Cleaning propeller		291
TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		283-287
Assembly device for SK, HSK and PSC adapters		273
MultiChange - Holder		249-251
3D tester and zero setting device		288+289
MultiChange key		282
Cool-jet		290
Taper wiper		273



ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopAD
G 2,5 $n_{\max}$ 25000AD/B
G 2,5 $n_{\max}$ 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet	84 424 ... EUR Y8	016	84 414 ... EUR Y8	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	124,20			
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	93,22	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103,60	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			141,90	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			160,50	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			112,90	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	93,22	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	103,60	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			152,20	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			170,90	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	98,40	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	93,22	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	103,60	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			152,20	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			170,90	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	124,30	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	206,10	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			170,90	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			206,10	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			259,20	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			295,20	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			181,30	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			219,40	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			269,70	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			309,60	26900

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

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 3 mm longer

Spare parts

ER precision collet chuck – Centro-P

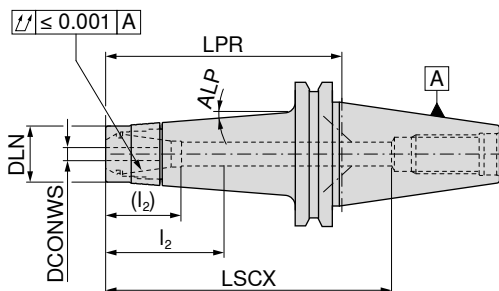
												
	84 950 ...			84 950 ...			83 950 ...			83 950 ...		
Spare parts for collet	EUR Y8			EUR Y8			EUR Y8			EUR Y8		
426E (ER16)	36,25	011		28,99	001		M11x1 - SW6	14,50	341	M11x1 - SW6	10,23	337
430E (ER25)	39,37	013		32,09	003		M18x1,5 - SW6	16,38	432	M18x1,5 - SW6	11,76	431
470E (ER32)	41,44	015		34,14	005		M22x1,5 - SW6	16,38	402	M22x1,5 - SW6	11,76	401
472E (ER40)	55,93	017		46,61	007					M28x1,5 - SW6	10,66	400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



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

84 417 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	EUR	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4,5°	118,00	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)		151,10	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2,5°	157,40	910

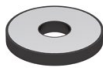
→ Transmittable torque moments, Page 300



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

		Tapered lock nut IK		Tapered lock nut		Stop screw 2		Stop screw 1		
	84 950 ...		84 950 ...		83 950 ...		83 950 ...			
Spare parts for collet	EUR		EUR		EUR		EUR			
426E (ER16)	Y8		Y8		Y8		Y8			
	42.47	033	34.14	031	M11x1 - SW6	14.50	341	M11x1 - SW6	10.23	337

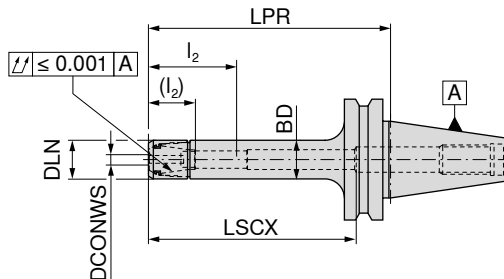
Accessories

					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 275	→ 275	→ 57–58	→ 273

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopAD/B
G 2,5 $n_{\max}$ 25000

84 412 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	121,20	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	121,20	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	160,60	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	179,20	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	121,20	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	121,20	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	160,60	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	179,20	510

→ Transmittable torque moments, Page 300



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

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
4008E (ER11)			34,14	041	13,94	340	10,23	336
426E (ER16)	42,46	035	34,14	034	14,50	341	10,23	337

Accessories

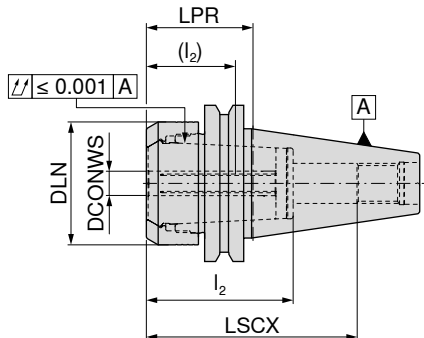
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 57-58	→ 273

OZ Precision Collet Chuck – Centro-P

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

Scope of supply:

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



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

84 406 ...

EUR

Y8

114,00

025

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet
SK 40	2 - 25	43	50	80	53 - 65 (37 - 48)	462E

→ Transmittable torque moments, Page 300



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

Spare parts for collet

462E

84 950 ...	84 950 ...	83 950 ...	83 950 ...
EUR	EUR	EUR	EUR
Y8	Y8	Y8	Y8
43,49	36,25	16,38	11,76
020	009	402	401

M22x1,5 - SW6

M22x1,5 - SW6

Accessories

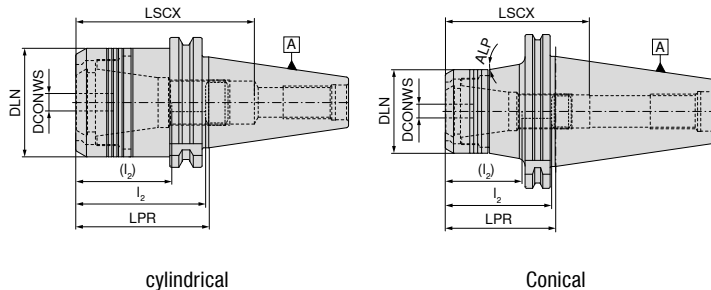
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 57-58	→ 273

ER precision collet chuck – HDC

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

Scope of supply:

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



NEW



AD

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

cylindrical

84 400 ...

EUR
Y8

167,90 12079

NEW



AD

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

conical

84 400 ...

EUR
Y8269,90 12078
315,20 22078

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



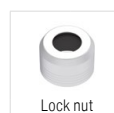
LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20	EUR Y8 54,59	30100	M22x1,5 - SW6	EUR Y8 16,38	402	M22x1,5 - SW6	EUR Y8 11,76	401
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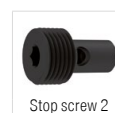


Lock nut

84 950 ...

EUR
Y8

54,59 30100

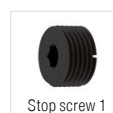


Stop screw 2

83 950 ...

EUR
Y8

16,38 402



Stop screw 1

83 950 ...

EUR
Y8

11,76 401

Accessories

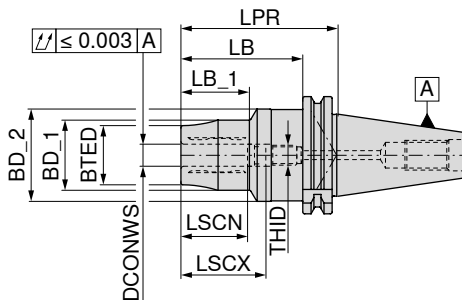
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 57-58	→ 273

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 422 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID		
short	SK 40	16	90	36	42	50	42	49	39	71	M12x1	EUR Y8	
	SK 40	20	95	42	48	50	45	51	41	76	M16x1	427,70	116
	SK 40	25	110	51	57	50	60	57	47	91	M16x1	381,20	120
	SK 40	32	120	57	63	50	65	61	51	101	M16x1	427,70	125
												427,70	132

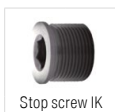
→ Min. clamping depth, Page 300



Clamping key – T



Pressure screw

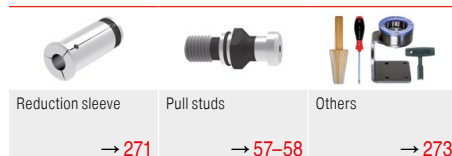


Stop screw IK

Spare parts

16	SW5	4,37	050	TR10x1,5x14	14,15	430	M12x1x18	7,37	446
20	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x18,5	8,12	448
25	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x22	12,85	449
32	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x25	15,99	450

Accessories



Reduction sleeve

Pull studs

Others

→ 271

→ 57–58

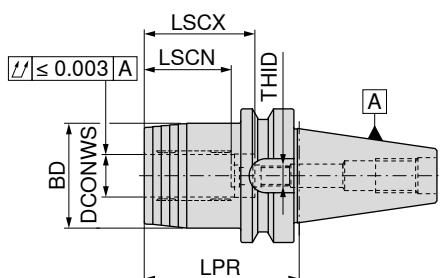
→ 273

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

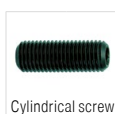
83 427 ...

EUR
Y8

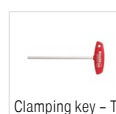
248,40 120

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

→ Min. clamping depth, Page 300



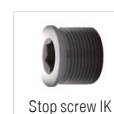
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 427 120	M5x5 - SW2,5	EUR Y7 1,91	157	SW5	EUR Y7 4,37	050	M10x1x14	EUR Y7 4,41	429	M16x1x13,5 - SW8	EUR Y7 9,62	424
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Accessories

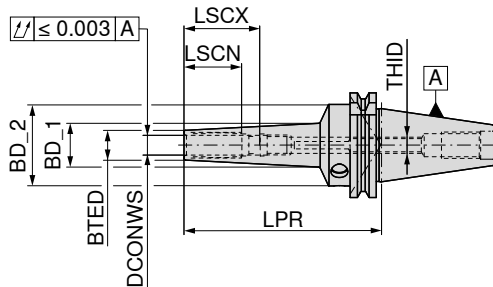
Reduction sleeve	Pull studs	Others
→ 271	→ 57–58	→ 273

High pressure chuck, slim 3°

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

Scope of supply:

Base body with backstop screw, pressure screw and screw plug

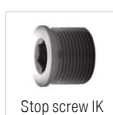
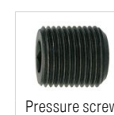
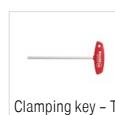
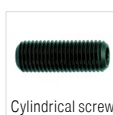


AD/B
G 2,5 n_{max} 25000

83 421 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	EUR Y8	
long	SK 40	3	120	9	17,40	49,5	28	12	M3	429,90	103
	SK 40	4	120	10	18,40	49,5	28	16	M3	429,90	104
	SK 40	5	120	11	19,40	49,5	28	20	M3	429,90	105
	SK 40	6	120	12	20,40	49,5	37	27	M5	366,10	106
	SK 40	8	120	14	22,40	49,5	37	27	M6	366,10	108
	SK 40	10	120	16	24,50	49,5	41	31	M8x1	366,10	110
	SK 40	12	120	18	26,60	49,5	46	36	M10x1	366,10	112
	SK 40	16	120	24	32,30	49,5	49	39	M12x1	592,90	116
	SK 40	20	120	28	36,40	49,5	51	41	M16x1	592,90	120
	SK 40	6	160	16	34,37	49,5	37	27	M5	528,20	206
	SK 40	8	160	18	35,45	49,5	37	27	M6	528,20	208
	SK 40	10	160	20	37,10	49,5	41	31	M8x1	528,20	210
	SK 40	12	160	22	38,72	49,5	46	36	M10x1	528,20	212
	SK 40	6	200	16	38,72	49,5	37	27	M5	625,30	306
	SK 40	8	200	18	39,74	49,5	37	27	M6	625,30	308
	SK 40	10	200	20	41,40	49,5	41	31	M8x1	625,30	310
SK 40	12	200	22	43,02	49,5	46	36	M10x1	625,30	312	

→ Min. clamping depth, Page 300



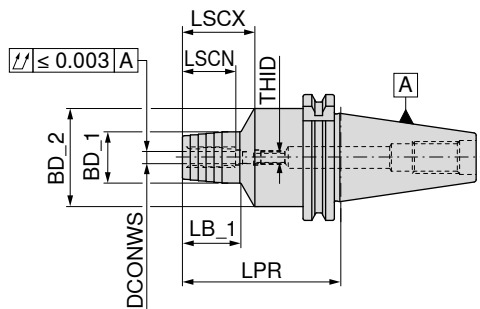
		83 950 ...		80 397 ...		83 950 ...		83 950 ...	
Spare parts for Article no.		EUR Y7		EUR Y7		EUR Y7		EUR Y7	
83 421 103	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M3x20 - SW1,5	8,68 172
83 421 104	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M3x20 - SW1,5	8,68 172
83 421 105	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M3x20 - SW1,5	8,68 172
83 421 106	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M5x12,5 - SW2,5	8,35 418
83 421 108	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M6x12,5 - SW3	8,35 419
83 421 110	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M8x1x13,5 - SW3	8,35 420
83 421 112	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M10x1x13,5 - SW5	8,35 421
83 421 116	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M12x1x13,5 - SW5	8,35 422
83 421 120	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M16x1x13,5 - SW8	9,62 424
83 421 206	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M5x12,5 - SW2,5	8,35 418
83 421 208	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M6x12,5 - SW3	8,35 419
83 421 210	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M8x1x13,5 - SW3	8,35 420
83 421 212	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M8x1x13,5 - SW3	8,35 420
83 421 306	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M5x12,5 - SW2,5	8,35 418
83 421 308	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x10	12,20 158	M6x12,5 - SW3	8,35 419
83 421 310	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M8x1x13,5 - SW3	8,35 420
83 421 312	M5x5 - SW2,5	1,91	157	SW5	4,37 050	M10x1x12	12,20 159	M8x1x13,5 - SW3	8,35 420

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

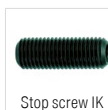
83 402 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID		EUR Y8	
short and slim	SK 40	6	80,5	26	49,5	37	27	29,5	M5		379,10	106
	SK 40	8	80,5	28	49,5	37	27	30,0	M6		379,10	108
	SK 40	10	80,5	30	49,5	41	31	35,0	M8x1		379,10	110
	SK 40	12	80,5	32	49,5	46	36	40,0	M10x1		329,40	112
	SK 40	16	80,5	38	49,5	49	39	45,0	M12x1		379,10	116
	SK 40	20	80,5	42	49,5	51	41	47,0	M16x1		329,40	120
	SK 40	25	80,5	55	63,0	57	47	28,0	M16x1		379,10	125
	SK 40	32	80,5	63	70,0	61	51	25,5	M16x1		379,10	132
	SK 50	6	80,5	26	49,5	37	27	29,5	M5		530,20	306
	SK 50	8	80,5	28	49,5	37	27	30,0	M6		530,20	308
	SK 50	10	80,5	30	49,5	41	31	35,0	M8x1		530,20	310
	SK 50	12	80,5	32	49,5	46	36	40,0	M10x1		480,70	312
	SK 50	16	80,5	38	49,5	49	39	45,0	M12x1		530,20	316
	SK 50	20	80,5	42	49,5	51	41	42,0	M16x1		480,70	320
	SK 50	25	100,0	55	63,0	57	47	48,0	M16x1		530,20	325
	SK 50	32	100,0	63	70,0	61	51	51,0	M16x1		530,20	332

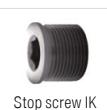
→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK



Stop screw IK

Spare parts DCONWS

6	M8x1x10	5,64	439	M6x14 - SW2	8,35	417	M5x12,5 - SW2,5	8,35	418
8	M8x1x10	5,64	439				M6x12,5 - SW3	8,35	419
10	M10x1x12	5,64	440				M8x1x13,5 - SW3	8,35	420
12	M10x1x12	5,64	440				M10x1x13,5 - SW5	8,35	421
16	M10x1x12	5,64	440				M12x1x13,5 - SW5	8,35	422
20 - 32	M10x1x12	5,64	440				M16x1x13,5 - SW8	9,62	424

Accessories



Reduction sleeve

Pull studs

Others

→ 271

→ 57-58

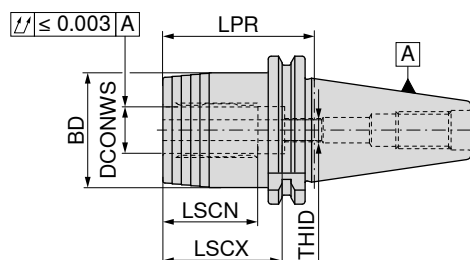
→ 273

Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 425 ...

EUR
Y8

211,70 120

265,70 332

→ Min. clamping depth, Page 300

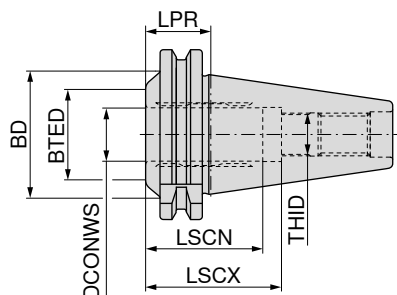
Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64,5	49,5	51	41	M16x1
SK 50	32	81,0	72,0	61	51	M16x1

Hydraulic chuck, extra short

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 403 ...

EUR
Y8

304,60 120

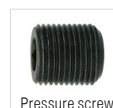
→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	24,5	34	48	51	41	M16x1

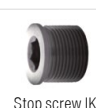
Spare parts

DCONWS

20 - 32



Pressure screw



Stop screw IK

83 950 ...

EUR
Y7

5,64 440

83 950 ...

EUR
Y7

9,62 424

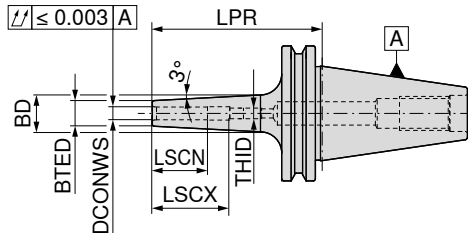
M10x1x12

M16x1x13,5-SW8

Heat shrink adapter, slim 3°

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

TG



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

84 320 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		EUR Y8	
short	SK 40	3	80	9	14	28	12	M6		156,70	103
	SK 40	4	80	10	15	28	16	M6		152,30	104
	SK 40	5	80	11	16	30	20	M6		152,30	105
	SK 40	6	80	12	17	36	26	M5		132,80	106
	SK 40	8	80	14	19	36	26	M6		132,80	108
	SK 40	10	80	16	21	41	31	M8x1		132,80	110
	SK 40	12	80	18	23	47	37	M10x1		132,80	112
	SK 40	14	80	20	26	47	37	M10x1		132,80	114
	SK 40	16	80	22	28	50	40	M12x1		132,80	116
	SK 40	18	80	24	30	50	40	M12x1		132,80	118
	SK 40	20	80	26	32	52	42	M16x1		132,80	120
long	SK 40	3	120	9	16	12	12			176,00	203
	SK 40	4	120	10	17	16	16			170,70	204
	SK 40	5	120	11	18	20	20			170,70	205
	SK 40	6	120	12	22	36	26	M5		153,40	206
	SK 40	8	120	14	24	36	26	M6		153,40	208
	SK 40	10	120	16	26	41	31	M8x1		153,40	210
	SK 40	12	120	18	28	47	37	M10x1		153,40	212
	SK 40	14	120	20	30	47	37	M10x1		153,40	214
	SK 40	16	120	22	32	50	40	M12x1		153,40	216
	SK 40	18	120	24	34	50	40	M12x1		153,40	218
	SK 40	20	120	26	36	52	42	M16x1		153,40	220
extra-long	SK 40	3	160	9	19	12	12			198,70	303
	SK 40	4	160	10	20	16	16			194,40	304
	SK 40	5	160	11	21	20	20			194,40	305
	SK 40	6	160	12	24	36	26	M5		177,20	306
	SK 40	8	160	14	26	36	26	M6		177,20	308
	SK 40	10	160	16	28	41	31	M8x1		177,20	310
	SK 40	12	160	18	30	47	37	M10x1		177,20	312
	SK 40	14	160	20	32	47	37	M10x1		177,20	314
	SK 40	16	160	22	34	50	40	M12x1		177,20	316
	SK 40	18	160	24	36	50	40	M12x1		177,20	318
	SK 40	20	160	26	38	52	42	M16x1		177,20	320

→ Min. clamping depth, Page 300

Spare parts
DCONWS

3 - 5
6
8
10
12 - 14
16 - 18
20

83 950 ...

EUR
Y7

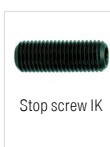
M6x14 - SW2

8,35 417

83 950 ...

EUR
Y7

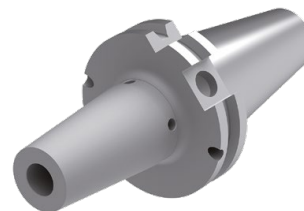
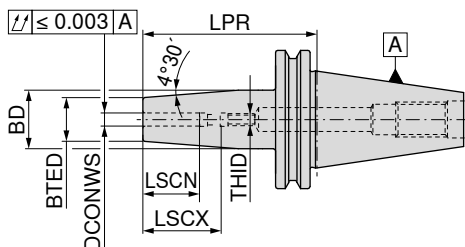
M5x12,5 - SW2,5 8,35 418
M6x12,5 - SW3 8,35 419
M8x1x13,5 - SW3 8,35 420
M10x1x13,5 - SW5 8,35 421
M12x1x13,5 - SW5 8,35 422
M16x1x13,5 - SW8 9,62 424



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

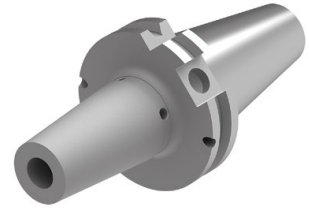
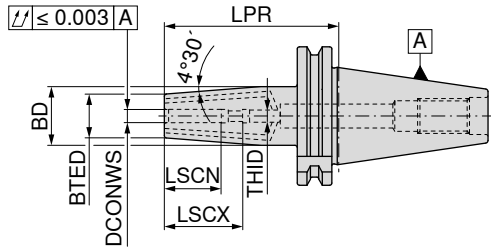
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 300 ...	
									EUR Y8	EUR Y8
short	SK 30	3	80	10	17	22	12	M6	154,40	003
	SK 30	4	80	15	22	26	16	M6	150,10	004
	SK 30	5	80	15	22	30	20	M6	150,10	005
	SK 30	6	80	21	27	36	26	M5	130,70	006
	SK 30	8	80	21	27	36	26	M6	130,70	008
	SK 30	10	80	24	32	41	31	M8x1	130,70	010
	SK 30	12	80	24	32	47	37	M10x1	130,70	012
	SK 30	14	80	27	34	47	37	M10x1	130,70	014
	SK 30	16	80	27	34	50	40	M12x1	130,70	016
	SK 30	18	80	33	42	50	40	M12x1	130,70	018
	SK 30	20	80	33	42	52	42	M16x1	130,70	020
	SK 40	3	80	10	17	22	12	M6	114,40	103
	SK 40	4	80	15	22	26	16	M6	114,40	104
	SK 40	5	80	15	22	30	20	M6	114,40	105
	SK 40	6	80	21	27	36	26	M5	109,10	106
	SK 40	8	80	21	27	26	26	M6	109,10	108
	SK 40	10	80	24	32	41	31	M8x1	109,10	110
	SK 40	12	80	24	32	47	37	M10x1	109,10	112
	SK 40	14	80	27	34	47	37	M10x1	109,10	114
	SK 40	16	80	27	34	50	40	M12x1	109,10	116
	SK 40	18	80	33	42	50	40	M12x1	109,10	118
long	SK 40	20	80	33	42	52	42	M16x1	109,10	120
	SK 40	25	100	44	53	58	48	M16x1	109,10	125
	SK 40	3	120	10	20	12	12		137,20	203
	SK 40	4	120	15	22	16	16		137,20	204
	SK 40	5	120	15	22	20	20		137,20	205
	SK 40	6	120	21	27	36	26	M5	137,20	206
	SK 40	8	120	21	27	36	26	M6	137,20	208
	SK 40	10	120	24	32	41	31	M8x1	137,20	210
	SK 40	12	120	24	32	47	37	M10x1	137,20	212
	SK 40	14	120	27	34	47	37	M10x1	137,20	214
extra-long	SK 40	16	120	27	34	50	40	M12x1	137,20	216
	SK 40	18	120	33	42	50	40	M12x1	137,20	218
	SK 40	20	120	33	42	52	42	M16x1	137,20	220
	SK 40	25	120	44	53	58	48	M16x1	138,20	225
	SK 40	3	160	10	20	12	12		187,90	303
	SK 40	4	160	15	22	16	16		183,60	304
	SK 40	5	160	15	22	20	20		183,60	305
	SK 40	6	160	21	27	36	26	M5	164,20	306
	SK 40	8	160	21	27	36	26	M6	164,20	308
	SK 40	10	160	24	32	41	31	M8x1	164,20	310
	SK 40	12	160	24	32	47	37	M10x1	164,20	312
	SK 40	14	160	27	34	47	37	M10x1	164,20	314
	SK 40	16	160	27	34	50	40	M12x1	164,20	316
	SK 40	18	160	33	42	50	40	M12x1	164,20	318
	SK 40	20	160	33	42	52	42	M16x1	164,20	320
	SK 40	25	160	44	53	58	48	M16x1	164,20	325

→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

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

TG



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

84 317 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		EUR Y8	
short	SK 40	3	80	10	17	28	12	M6		167,50	103
	SK 40	4	80	15	22	28	16	M6		162,00	104
	SK 40	5	80	15	22	30	20	M6		162,00	105
	SK 40	6	80	21	27	36	26	M5		142,60	106
	SK 40	8	80	21	27	36	26	M6		142,60	108
	SK 40	10	80	24	32	41	31	M8x1		142,60	110
	SK 40	12	80	24	32	47	37	M10x1		142,60	112
	SK 40	14	80	27	34	47	37	M10x1		142,60	114
	SK 40	16	80	27	34	50	40	M12x1		142,60	116
	SK 40	18	80	33	42	50	40	M12x1		142,60	118
	SK 40	20	80	33	42	52	42	M16x1		142,60	120
	SK 40	25	100	44	53	58	48	M16x1		142,60	125
	SK 40	32	100	44	53	62	52	M16x1		142,60	132

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

Spare parts
DCONWS

	83 950 ...	EUR Y7		83 950 ...	EUR Y7		83 950 ...	EUR Y7	
3 - 5	M6x14 - SW2	8,35	417				M2x6	0,49	512
6				M5x12,5 - SW2,5	8,35	418	M2x6	0,49	512
8				M6x12,5 - SW3	8,35	419	M2x6	0,49	512
10				M8x1x13,5 - SW3	8,35	420	M2x6	0,49	512
12 - 14				M10x1x13,5 - SW5	8,35	421	M2x6	0,49	512
16 - 18				M12x1x13,5 - SW5	8,35	422	M2x6	0,49	512
20 - 25				M16x1x13,5 - SW8	9,62	424	M2x6	0,49	512
32	M16x1 - SW5	4,95	511				M2x6	0,49	512

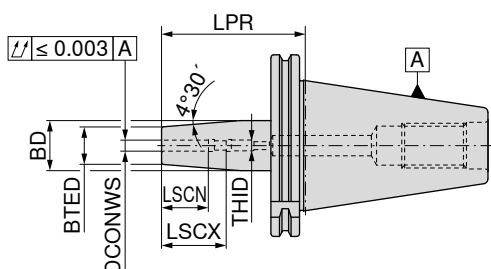
Accessories

Shrink fit extension	Pull studs	Others
→ 235	→ 57-58	→ 273

Shrink fit adaptors 4.5°

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

TG



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

84 301 ...

EUR
Y8

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	SK 50	6	80	21	27	36	26	M5	184,80	106
	SK 50	8	80	21	27	36	26	M6	184,80	108
	SK 50	10	80	24	32	41	31	M8x1	184,80	110
	SK 50	12	80	24	32	47	37	M10x1	184,80	112
	SK 50	14	80	27	34	47	37	M10x1	184,80	114
	SK 50	16	80	27	34	50	40	M12x1	184,80	116
	SK 50	18	80	33	42	50	40	M12x1	184,80	118
	SK 50	20	80	33	42	52	42	M16x1	184,80	120
	SK 50	25	100	44	53	58	48	M16x1	184,80	125
	SK 50	32	100	44	53	62	52	M16x1	184,80	132
long	SK 50	6	120	21	27	36	26	M5	202,00	206
	SK 50	8	120	21	27	36	26	M6	202,00	208
	SK 50	10	120	24	32	41	31	M8x1	202,00	210
	SK 50	12	120	24	32	47	37	M10x1	202,00	212
	SK 50	14	120	27	34	47	37	M10x1	202,00	214
	SK 50	16	120	27	34	50	40	M12x1	202,00	216
	SK 50	18	120	33	42	50	40	M12x1	202,00	218
	SK 50	20	120	33	42	52	42	M16x1	202,00	220
	SK 50	25	120	44	53	58	48	M16x1	202,00	225
	SK 50	32	120	44	53	62	52	M16x1	202,00	232
extra-long	SK 50	6	160	21	27	36	26	M5	225,80	306
	SK 50	8	160	21	27	36	26	M6	225,80	308
	SK 50	10	160	24	32	41	31	M8x1	225,80	310
	SK 50	12	160	24	32	47	37	M10x1	225,80	312
	SK 50	14	160	27	34	47	37	M10x1	225,80	314
	SK 50	16	160	27	34	50	40	M12x1	225,80	316
	SK 50	18	160	33	42	50	40	M12x1	225,80	318
	SK 50	20	160	33	42	52	42	M16x1	225,80	320
	SK 50	25	160	44	53	58	48	M16x1	225,80	325
	SK 50	32	160	44	53	62	52	M16x1	225,80	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

EUR
Y7Spare parts
DCONWS

6	M5x12,5 - SW2,5	8,35	418
8	M6x12,5 - SW3	8,35	419
10	M8x1x13,5 - SW3	8,35	420
12 - 14	M10x1x13,5 - SW5	8,35	421
16 - 18	M12x1x13,5 - SW5	8,35	422
20 - 32	M16x1x13,5 - SW8	9,62	424

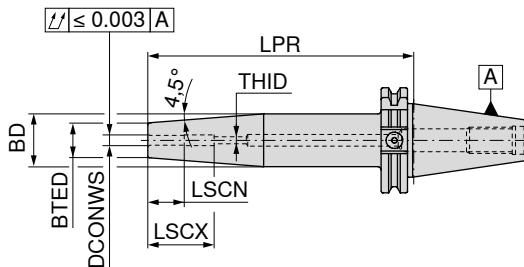
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG

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

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	SK 40	3	70	12	17,0				102,20	10379
	SK 40	4	70	12	17,0				102,20	10479
	SK 40	5	70	12	17,0				102,20	10579
	SK 40	6	80	21	30,5	36	26	M5	97,63	10679
	SK 40	8	80	21	30,5	36	26	M6	97,63	10879
	SK 40	10	80	24	33,5	41	31	M8x1	97,63	11079
	SK 40	12	80	24	33,5	47	37	M10x1	97,63	11279
	SK 40	14	80	27	36,5	47	37	M10x1	97,63	11479
	SK 40	16	80	27	36,5	50	40	M12x1	97,63	11679
	SK 40	18	80	33	42,5	50	40	M12x1	97,63	11879
	SK 40	20	80	33	42,5	52	42	M16x1	97,63	12079
	SK 40	25	100	44	50,0	58	48	M16x1	97,63	12579
	SK 50	6	80	21	27,0	36	26	M5	144,80	10678
	SK 50	8	80	21	27,0	36	26	M6	144,80	10878
	SK 50	10	80	24	32,0	41	31	M8x1	144,80	11078
	SK 50	12	80	24	32,0	47	37	M10x1	144,80	11278
	SK 50	14	80	27	34,0	47	37	M10x1	144,80	11478
	SK 50	16	80	27	34,0	50	40	M12x1	144,80	11678
	SK 50	18	80	33	42,0	50	40	M12x1	144,80	11878
long	SK 50	20	80	33	42,0	52	42	M12x1	144,80	12078
	SK 50	25	100	44	53,0	58	48	M16x1	144,80	12578
	SK 50	32	100	44	53,0	62	52	M16x1	144,80	13278
	SK 40	3	120	12	17,0				123,20	20379
	SK 40	4	120	12	17,0				123,20	20479
	SK 40	5	120	12	17,0				123,20	20579
	SK 40	6	120	21	31,0	36	26	M5	123,20	20679
	SK 40	8	120	21	32,0	36	26	M6	123,20	20879
	SK 40	10	120	24	34,0	41	31	M8x1	123,20	21079
	SK 40	12	120	24	34,0	47	37	M10x1	123,20	21279
	SK 40	16	120	27	36,0	50	40	M12x1	123,20	21679
	SK 40	20	120	33	44,0	52	42	M16x1	123,20	22079
	SK 50	6	120	21	27,0	36	26	M5	159,00	20678
	SK 50	8	120	21	27,0	36	26	M6	159,00	20878
	SK 50	10	120	24	32,0	41	31	M8x1	159,00	21078
	SK 50	12	120	24	32,0	47	37	M10x1	159,00	21278
	SK 50	14	120	27	34,0	47	37	M10x1	159,00	21478
	SK 50	16	120	27	34,0	50	40	M12x1	159,00	21678
	SK 50	18	120	33	42,0	50	40	M12x1	159,00	21878
	SK 50	20	120	33	42,0	52	42	M16x1	159,00	22078
	SK 50	25	120	44	53,0	58	48	M16x1	159,00	22578
	SK 50	32	120	44	53,0	62	52	M16x1	159,00	23278

→ Min. clamping depth, Page 300

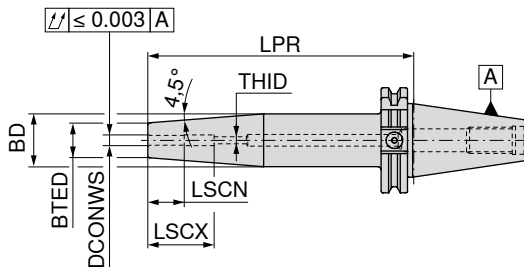
Shrink fit adapters 4.5°

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

Scope of supply:

Holder **without** backstop screw

TG

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

82 310 ...

EUR
Y8

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
extra-long	SK 40	6	160	21	31,0	36	26	M5	146,90	30679
	SK 40	8	160	21	32,0	36	26	M6	146,90	30879
	SK 40	10	160	24	34,0	41	31	M8x1	146,90	31079
	SK 40	12	160	24	34,0	47	37	M10x1	146,90	31279
	SK 40	14	160	27	36,0	47	37	M10x1	146,90	31479
	SK 40	16	160	27	36,0	50	40	M12x1	146,90	31679
	SK 40	18	160	33	44,0	50	40	M12x1	146,90	31879
	SK 40	20	160	33	44,0	52	42	M16x1	146,90	32079
	SK 40	25	160	44	50,0	58	48	M16x1	146,90	32579
	SK 50	6	160	21	27,0	36	26	M5	176,70	30678
	SK 50	8	160	21	27,0	36	26	M6	176,70	30878
	SK 50	10	160	24	32,0	41	31	M8x1	176,70	31078
	SK 50	12	160	24	32,0	47	37	M10x1	176,70	31278
	SK 50	14	160	27	34,0	47	37	M10x1	176,70	31478
	SK 50	16	160	27	34,0	50	40	M12x1	176,70	31678
	SK 50	18	160	33	42,0	50	40	M12x1	176,70	31878
	SK 50	20	160	33	42,0	52	42	M16x1	176,70	32078
	SK 50	25	160	44	53,0	58	48	M16x1	176,70	32578
	SK 50	32	160	44	53,0	62	52	M16x1	176,70	33278

→ Min. clamping depth, Page 300



Stop screw IK

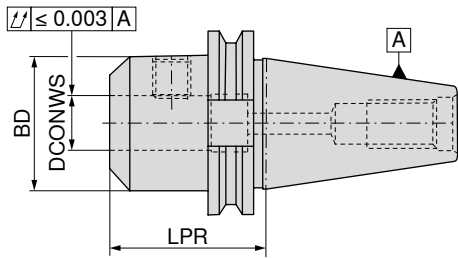
82 950 ...

EUR
Y8Spare parts
DCONWS

6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x16 - SW4	2,46	30200
12	M10x14 - SW5	2,61	30300
14	M10x14 - SW5	2,61	30300
16	M12x16 - SW6	2,75	30400
18	M12x16 - SW6	2,75	30400
20	M16x16 - SW8	2,89	30500
25	M16x16 - SW8	2,89	30500
32	M16x16 - SW8	2,89	30500

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 18000



ADe
G 2,5 n_{max} 18000

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

82 401 ...

EUR
Y8

84,68 00600
77,12 00800
77,12 01000
77,12 01200
77,12 01400
77,12 01600
77,12 01800
92,34 02000

82 403 ...

EUR
Y8

67,35 416
67,35 420
72,54 425
89,74 432

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



Grubscrew

Spare parts for Article no.

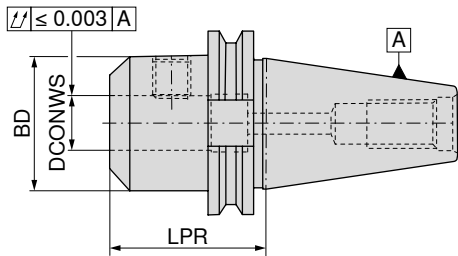
82 403 425 / 82 401 425	M16x10	EUR Y8 0,89	275
82 403 432	M14x10	0,80	259

Accessories

Pull studs	Others
→ 57–58	→ 273

Cylindrical shank adapter (Weldon)

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



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

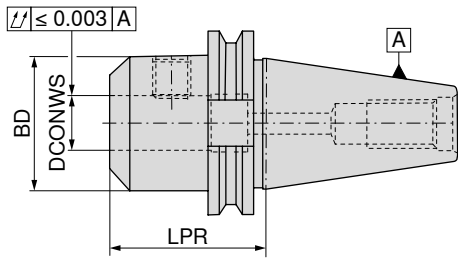


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
					EUR Y8		EUR Y8	
short	SK 40	6	50	25	42,14	106	59,51	106
	SK 40	8	50	28	42,14	108	59,51	108
	SK 40	10	50	35	39,77	110	57,06	110
	SK 40	12	50	42	39,77	112	57,06	112
	SK 40	14	50	44	39,77	114	57,06	114
	SK 40	16	63	48	43,07	116	64,99	116
	SK 40	18	63	50	43,07	118	64,99	118
	SK 40	20	63	52	43,07	120	64,99	120
	SK 40	25	100	65	47,24	125	69,14	125
	SK 40	32	100	72	51,39	132	76,04	13200
	SK 40	40	120	90	56,21	14000		
	SK 50	6	63	25	63,38	306	92,47	30600
	SK 50	8	63	28	63,38	308	91,63	30800
	SK 50	10	63	35	60,65	310	84,73	31000
	SK 50	12	63	42	60,65	312	84,73	31200
	SK 50	14	63	44	60,65	314	84,73	31400
	SK 50	16	63	48	60,83	316	92,47	31600
	SK 50	18	63	50	60,83	318	92,47	31800
	SK 50	20	63	52	60,83	320	92,47	32000
	SK 50	25	80	65	66,51	325	99,19	32500
	SK 50	32	100	72	67,44	332	103,90	33200
	SK 50	40	120	90	70,38	34000		
long	SK 40	6	100	25	43,92	506	71,28	50600
	SK 40	8	100	28	43,92	508	71,28	50800
	SK 40	10	100	35	41,47	510	68,26	51000
	SK 40	12	100	42	41,47	512	68,26	51200
	SK 40	14	100	44	41,19	514	68,26	51400
	SK 40	16	100	48	45,54	516	77,77	51600
	SK 40	18	100	50	45,34	518	77,77	51800
	SK 40	20	100	52	45,54	520	77,77	52000
	SK 40	40	120	80			98,93	54000
	SK 50	6	100	25	70,18	70600		
	SK 50	8	100	28	70,18	70800		
	SK 50	10	100	35	67,35	71000		
	SK 50	12	100	42	67,35	71200		
	SK 50	14	100	44	67,35	71400		
	SK 50	16	100	48	67,54	71600		
	SK 50	18	100	50	67,54	71800		
	SK 50	20	100	52	67,54	72000		
	SK 50	25	100	65	71,51	72500		

Cylindrical shank adapter (Weldon)

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

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

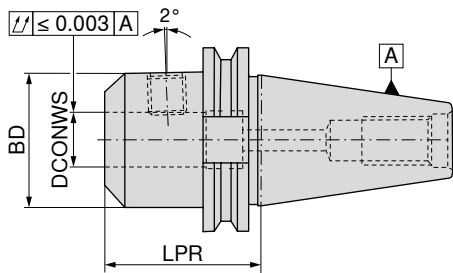
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
					EUR Y8		EUR Y8	
medium length	SK 40	6	130	25	48,55	206	75,76	206
	SK 40	8	130	28	48,55	208	75,76	208
	SK 40	10	130	35	45,72	210	73,11	210
	SK 40	12	130	42	45,72	212	73,11	212
	SK 40	14	130	44	45,72	214	73,11	214
	SK 40	16	130	48	46,58	216	78,50	216
	SK 40	18	130	50	46,58	218	78,50	218
	SK 40	20	130	52	46,58	220	78,50	220
	SK 50	6	130	25	75,66	90600	94,46	90600
	SK 50	8	130	28	75,66	90800	94,46	90800
	SK 50	10	130	35	74,24	91000	92,79	91000
	SK 50	12	130	42	74,24	91200	92,79	91200
	SK 50	14	130	44	74,24	91400	92,79	91400
	SK 50	16	130	48	74,35	91600	98,26	91600
	SK 50	18	130	50	74,35	91800	98,26	91800
	SK 50	20	130	52	74,35	92000	98,26	92000
extra-long	SK 40	25	130	65	76,33	92500	100,10	92500
	SK 40	6	160	25	50,54	606		
	SK 40	8	160	28	50,54	608		
	SK 40	10	160	35	47,88	610		
	SK 40	12	160	42	47,88	612		
	SK 40	14	160	44	47,88	614		
	SK 40	16	160	48	48,08	616		
	SK 40	18	160	50	48,08	618		
	SK 40	20	160	52	48,08	620		
	SK 40	25	160	65	51,39	625		
	SK 50	6	160	25	78,68	80600		
	SK 50	8	160	28	78,68	80800		
	SK 50	10	160	35	78,50	81000		
	SK 50	12	160	42	78,50	81200		
	SK 50	14	160	44	78,50	81400		
	SK 50	16	160	48	78,97	81600		
	SK 50	18	160	50	78,97	81800		
	SK 50	20	160	52	78,97	82000		
	SK 50	25	160	65	78,77	82500		
	SK 50	32	160	72	79,16	83200		



Spare parts and accessories on → Page 32

Cylindrical Shank Adapter (Whistle Notch)

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

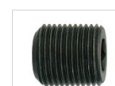


AD/B
G 2,5 n_{max} 18000

82 407 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	EUR	
					Y8	
short	SK 40	6	50	25	51,96	106
	SK 40	8	50	28	51,96	108
	SK 40	10	50	35	48,17	110
	SK 40	12	50	42	48,17	112
	SK 40	14	50	44	48,17	114
	SK 40	16	63	48	52,89	116
	SK 40	18	63	50	52,89	118
	SK 40	20	63	52	52,89	120
	SK 40	25	100	65	67,26	12500
	SK 40	32	100	72	63,19	13200
	SK 50	8	63	28	88,69	30800
	SK 50	10	63	35	84,73	31000
	SK 50	12	63	42	84,73	31200
	SK 50	14	63	44	84,73	31400
	SK 50	16	63	48	85,20	31600
	SK 50	18	63	50	85,20	31800
	SK 50	20	63	52	85,20	32000
	SK 50	25	80	65	92,98	32500
	SK 50	32	100	72	94,46	33200
medium length	SK 40	6	63	25	88,69	30600
	SK 40	6	130	25	65,47	206
	SK 40	8	130	28	65,47	208
	SK 40	10	130	35	61,69	210
	SK 40	12	130	42	61,69	212
	SK 40	16	130	48	65,84	216
	SK 40	20	130	52	65,84	220
	SK 40	25	130	65	78,77	225
	SK 50	6	130	25	103,00	90600
	SK 50	8	130	28	103,00	90800
	SK 50	10	130	35	99,19	91000
	SK 50	12	130	42	99,19	91200
	SK 50	16	130	48	100,10	91600
	SK 50	20	130	52	100,10	92000
	SK 50	25	130	65	104,90	92500
	SK 50	32	130	72	104,90	93200

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



Grubscrew



Stop screw IK

62 950 ...

83 950 ...

Spare parts DCONWS

		EUR W7			EUR Y8	
6	M6x10	0,68	006	M5x35	1,88	033
8	M8x10	0,79	008	M6x35	1,55	034
10	M10x12	1,05	010	M8x35	1,68	035
12 - 14	M12x16	1,06	012	M10x35	1,68	036
16 - 18	M14x16	1,32	016	M12x40	2,06	037
20	M16x16	1,60	020	M16x45	2,32	272
25	M18x2x20	2,93	025	M20x35	2,58	290

Accessories



Pull studs

→ 57-58

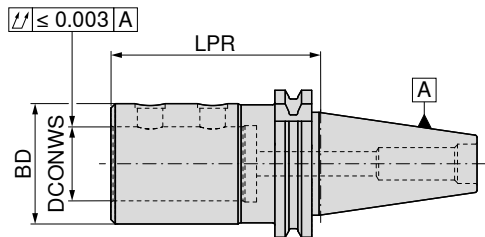


Others

→ 273

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



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

10 840 ...

Adapter	DCONWS mm	LPR mm	BD mm
SK 40	20	80	40
SK 40	25	85	45
SK 40	32	90	52
SK 50	20	80	40
SK 50	25	85	45
SK 50	32	90	52
SK 50	40	90	65
SK 50	50	100	75

EUR
2E/45

133,20 120
133,20 125
133,20 132

169,20 220
169,20 225
169,20 232
169,20 240
169,20 250

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



Grubscrew

10 950 ...

Spare parts DCONWS

DCONWS		EUR 2A/28	
20	M10x1x10	3,96	001
25 - 32	M12x1x10	4,03	002
40 - 50	M16x1x12	4,03	003

Accessories



Pull studs
→ 57–58



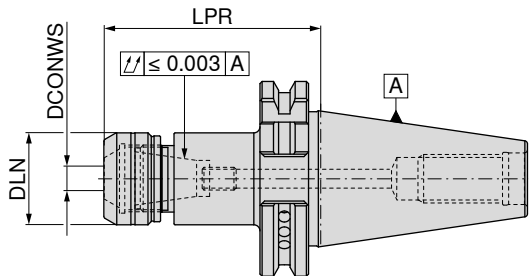
Others
→ 273

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



NEW



AD/B

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

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	EUR Y8	
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	92,45	11079
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	133,20	21079
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	92,45	11679
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	133,20	21679
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	92,45	12079
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	133,20	22079
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	174,20	11678
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	216,30	21678
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	174,20	12078
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	216,30	22078



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

Spare parts for collet

	426E (ER16)	430E (ER25)	470E (ER32)
Lock nut IK	82 950 ...	82 950 ...	82 950 ...
Lock nut	82 950 ...	82 950 ...	82 950 ...
Backstop screw PCC 2	82 950 ...	82 950 ...	82 950 ...
Backstop screw PCC 1	82 950 ...	82 950 ...	82 950 ...
EUR Y8	35,14	33,11	3,31
11000	11600	01600	00200
12000	02000	00200	00300

Accessories

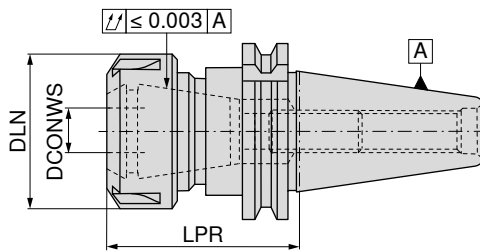
ER collet	Sealing ring	Roll key
→ 256–266	→ 270	→ 275

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop

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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)		
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)		
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	70	63	176	472E (ER40)		
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)		
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 50	3 - 26	70	63	176	472E (ER40)		
long	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	122,10	21000
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	122,10	21600
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	122,10	22000
	SK 40	1 - 10	120	32	8 - 56	426E (ER16)		
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	100	63	176	472E (ER40)		
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)		
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		
	SK 50	3 - 26	100	63	176	472E (ER40)		
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)		
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	160	63	176	472E (ER40)		
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		

Spare parts
for collet

426E (ER16) / SK30-SK50	
430E (ER25) / SK30	
430E (ER25) / SK40, SK50	
470E (ER32) / SK30	
470E (ER32) / SK40, SK50	
472E (ER40) / SK40, SK50	

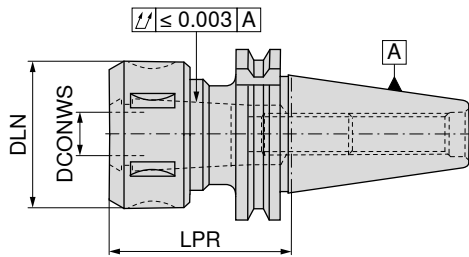
Lock nut IK	Lock nut	Y clamping key	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
EUR Y8	EUR W7	EUR Y8	EUR Y8
31,54 054	18,35 054	16,52 116	
35,76 055	20,52 055	18,25 125	2,06 010
35,76 055	20,52 055	18,25 125	2,06 010
38,06 056	19,12 056	24,84 132	2,06 010
38,06 056	19,12 056	24,84 132	2,06 010
44,88 057	18,58 057	27,33 140	2,32 011

OZ Collet Chuck

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

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 18000



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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	SK 30	2 - 16	60	43	24 - 104	415E / 421E		
	SK 30	2 - 25	80	60	24 - 176	459E / 462E		
	SK 40	2 - 16	70	43	80 - 90	415E / 421E		
	SK 40	2 - 25	70	60	90 - 100	459E / 462E		
	SK 50	2 - 16	70	43	80 - 90	415E / 421E		
	SK 50	2 - 25	70	60	90 - 100	459E / 462E		
long	SK 50	4 - 32	70	72	110 - 120	460E / 467E		
	SK 40	2 - 16	120	43	80 - 90	415E / 421E		
	SK 40	2 - 25	120	60	90 - 100	459E / 462E		
	SK 40	4 - 32	100	72	227	460E / 467E		
	SK 50	2 - 16	100	43	80 - 90	415E / 421E		
	SK 50	2 - 25	100	60	90 - 100	459E / 462E		

82 411 ...

EUR
Y8

87,37 01600
90,72 02500

82 411 ...

EUR
Y8

73,68 116
76,99 125

97,34 32500
108,70 33200
118,10 34000

78,31 416
81,43 425
95,37 43200

102,10 72500
108,70 73200



Lock nut



Hook clamping
key



Stop screw IK

Spare parts for collet

		EUR W7		EUR Y8		EUR Y8	
415E / 421E	M33x1,5	32,51	050	8,08	116	2,06	010
459E / 462E	M48x2	35,75	051	11,01	125	2,06	010
460E / 467E	M60x2,5	44,71	052	12,32	132	2,32	011

Accessories

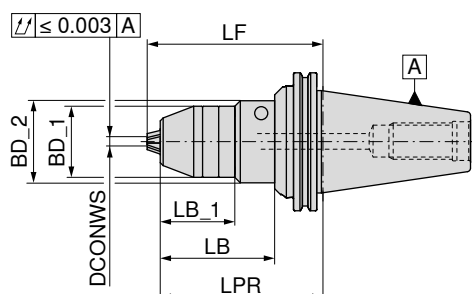
OZ Collet	Pull studs	Others
→ 268	→ 57-58	→ 273

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000



AD
G 6,3 n_{max} 10000



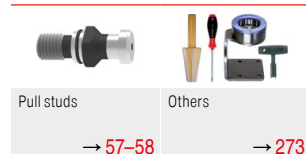
AD/B
G 6,3 n_{max} 10000

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				
SK 40	0,5 - 13	80	48,5			60,8	89,0				
SK 40	0,5 - 13	80	48,5		50,9	60,0	89,0				
SK 40	2,5 - 16	80	51,0			60,0	90,5				
SK 40	2,5 - 16	80	51,0			60,8	90,5				
SK 40	2,5 - 16	80	51,0		50,9		90,5				
SK 50	0,5 - 13	110	48,5	56	50,9	78,0	119,0				
SK 50	0,5 - 13	110	48,5	56	50,9	78,1	119,0				
SK 50	2,5 - 16	110	51,0	56	50,9	78,0	120,5				
SK 50	2,5 - 16	110	56,0		50,9	78,0	120,5				

84 418 ...	84 419 ...	84 420 ...
EUR Y8	EUR Y8	EUR Y8
278,60	313	
213,90	413	227,80
		248,40
227,80	416	
		270,10
278,60	513	288,40
282,90	516	288,40

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

Accessories



Pull studs

Others

→ 57-58

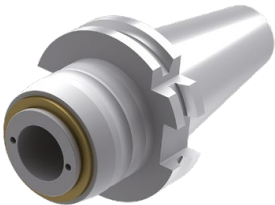
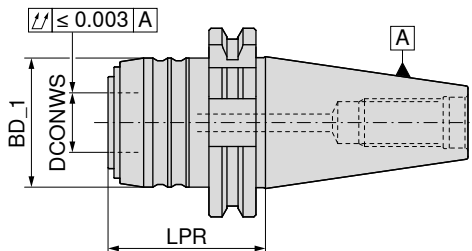
→ 273

Synchro tapping chuck with minimum length compensation

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

Scope of supply:

Without insert



AD

83 416 ...

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

EUR

Y8

166,40

216,00

180,40

277,60

012

020

112

120

Accessories



Pull studs

→ 57–58



Others

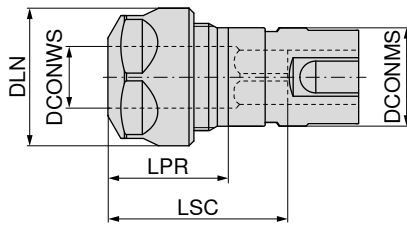
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



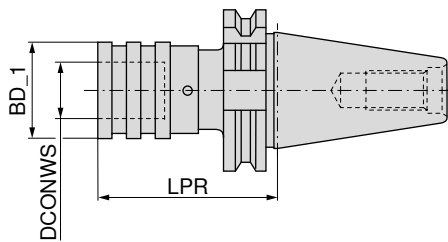
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ...	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	EUR Y8	
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	113,40	012
								131,70	020

Spare parts for synchronous tapping chucks

				Lock nut		Lock nut IK		Lock nut		Y clamping key	
				62 950 ...		83 950 ...		62 950 ...		83 357 ...	
Spare parts for Article no.				EUR W7		EUR Y8		EUR W7		EUR Y8	
83 608 012		M22x1,5 - SW25	18,35	044	M22x1,5	31,54	054			16,52	116
83 608 020					M32x1,5	35,76	055	M32x1,5	20,52	18,25	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		
SK 30	M6 - M20	02	101	55	31	15		
SK 40	M3 - M12	01	60	38	19	9		
SK 40	M6 - M20	02	100	55	31	15		
SK 50	M3 - M12	01	62	38	19	9		
SK 50	M6 - M20	02	83	55	31	15		

EUR

Y8

272,20

312

310,00

320

211,70

412

227,80

420

314,30

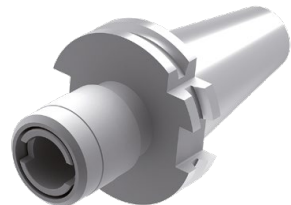
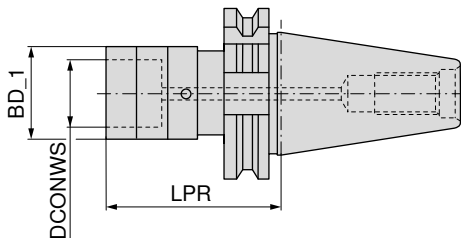
512

342,40

520

Quick change tap chuck without length compensation

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



AD

83 423 ...

Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm		
SK 30	02	80	50	31		
SK 30	01	59	33	19		
SK 40	02	86	50	31		
SK 40	01	59	33	19		
SK 50	01	75	33	19		
SK 50	02	98	50	31		

EUR

Y8

221,50

320

221,50

312

166,40

420

157,70

412

208,50

512

226,80

520

Accessories



Collet

→ 277-281



Pull studs

→ 57-58



Others

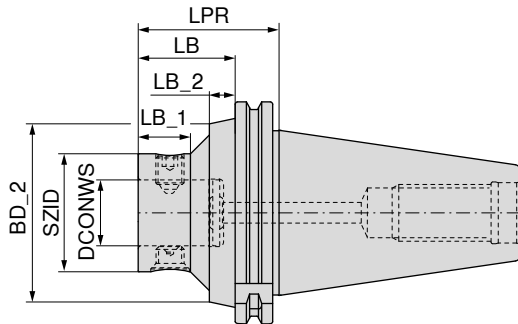
→ 273

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



NEW



AD

G 6,3 n_{max} 8000

NEW



AD/B

G 6,3 n_{max} 8000

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2	84 211 ...	84 201 ...
SK 40	A50 00120	ABS 25	13	50	30,9	23,0			EUR 3E 210,00 04090	EUR 3E 210,00 04090
SK 40	A50 55120	ABS 25	13	50	30,9	20,0	7,9	50	210,00 04089	210,00 04089
SK 40	A50 00130	ABS 32	16	50	30,9	23,0			210,00 04088	210,00 04088
SK 40	A50 55130	ABS 32	16	50	30,9	20,0	7,9	50	210,00 04097	210,00 04097
SK 40	A50 00140	ABS 40	20	50	30,9				210,00 04096	210,00 04096
SK 40	A50 55140	ABS 40	20	50	30,9	20,0		50		
SK 40	A50 00150	ABS 50	28	50	30,9					
SK 40	A50 55150	ABS 50	28	50	30,9					
SK 40	A50 00160	ABS 63	34	90	70,9		15,9	50		
SK 40	A50 55160	ABS 63	34	90	70,9		15,9	50		
SK 50	A50 00320	ABS 25	13	60	40,9	31,0			236,80 05090	236,80 05090
SK 50	A50 55320	ABS 25	13	60	40,9	20,0	12,9	80	236,80 05089	236,80 05089
SK 50	A50 00330	ABS 32	16	60	40,9	31,0			236,80 05088	236,80 05088
SK 50	A50 55330	ABS 32	16	60	40,9	20,0	12,9	80	236,80 05097	236,80 05097
SK 50	A50 00340	ABS 40	20	60	40,9	31,0			236,80 05096	236,80 05096
SK 50	A50 55340	ABS 40	20	60	40,9	20,0	12,9	80	236,80 05092	236,80 05092
SK 50	A50 00350	ABS 50	28	60	40,9				236,80 05091	236,80 05091
SK 50	A50 55350	ABS 50	28	60	40,9	22,0	10,9	80	236,80 05085	236,80 05085
SK 50	A50 00360	ABS 63	34	60	40,9					
SK 50	A50 55360	ABS 63	34	60	40,9	30,4	7,3	80		
SK 50	A50 00370	ABS 80	46	70	50,9					
SK 50	A50 55370	ABS 80	46	70	50,9					
SK 50	A50 00380	ABS 100	56	115	95,9		15,9	80		
SK 50	A50 55380	ABS 100	56	115	95,9		15,9	80		
SK 50	A50 00390	ABS 125	70	145	125,9		15,9	80		

Conversion kit – Cooling agent supply



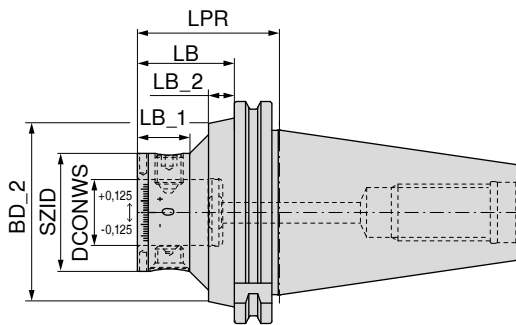
for		84 950 ...
		EUR W7
4 mm	SK 40	5,13 23200
6 mm	SK 50	5,13 23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



NEW



AD/B

84 204 ...

EUR
W4

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	
SK 40	A50 56150	ABS 50	28	50	30,9				
SK 40	A50 56160	ABS 63	34	90	70,9		15,9	50	
SK 50	A50 56350	ABS 50	28	60	40,9	22,0	10,9	80	
SK 50	A50 56360	ABS 63	34	60	40,9	30,4	7,3	80	

422,50 04097
422,50 04096

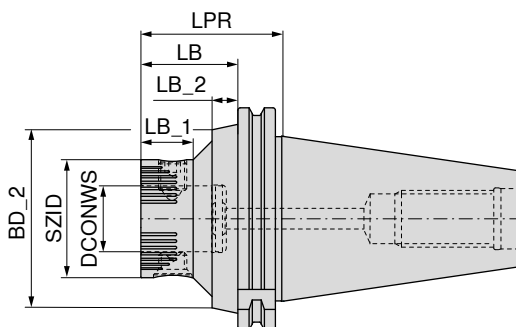
450,10 05097
450,10 05096

Torsional vibration dampers with ABS Connection

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

Scope of supply:

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



NEW



AD/B

84 207 ...

EUR
3E

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	
SK 40	A50 01351	ABS 50	28	50	30,9				
SK 40	A50 01361	ABS 63	34	90	70,9		15,9	50	
SK 50	A50 01451	ABS 50	28	60	40,9	22,0	10,9	80	
SK 50	A50 01461	ABS 63	34	60	40,9	30,4	7,3	80	
SK 50	A50 01470	ABS 80	46	70	50,9				

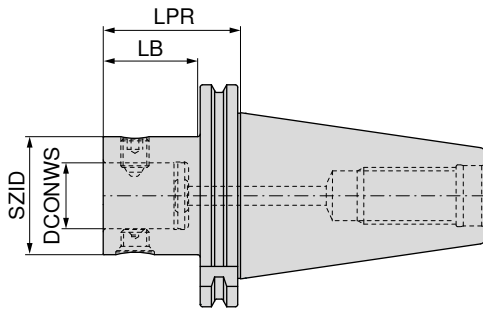
576,20 04097
686,10 04096

688,50 05097
715,40 05096
796,00 05092

Adapter with ABS Connection – SK-FC

▲ with face contact

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



NEW



AD

G 6,3 n_{max} 8000

84 213 ...

EUR
3E

515,20 04097

534,70 04096

691,00 05097

720,30 05096

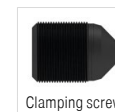
761,80 05092

808,20 05091

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm
SK-FC 40	A50 57151	ABS 50	28	50	30,9
SK-FC 40	A50 57161	ABS 63	34	90	70,9
SK-FC 50	A50 57351	ABS 50	28	60	40,9
SK-FC 50	A50 57361	ABS 63	34	60	40,9
SK-FC 50	A50 57371	ABS 80	46	70	50,9
SK-FC 50	A50 57381	ABS 100	56	115	95,9

Spare parts

SZID	EUR XX		EUR XX		EUR XX	
ABS 50	12,82	20300	29,20	99800	16,43	20400
ABS 63	14,11	25500	31,57	99400	17,61	27300
ABS 80	15,97	25600	35,48	99300	19,67	25100
ABS 100	18,90	25700	39,55	99200	20,70	25200



Clamping screw

84 950 ...

EUR
XX

12,82 20300

14,11 25500

15,97 25600

18,90 25700



Set

84 950 ...

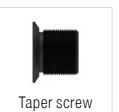
EUR
XX

29,20 99800

31,57 99400

35,48 99300

39,55 99200



Taper screw

84 950 ...

EUR
XX

16,43 20400

17,61 27300

19,67 25100

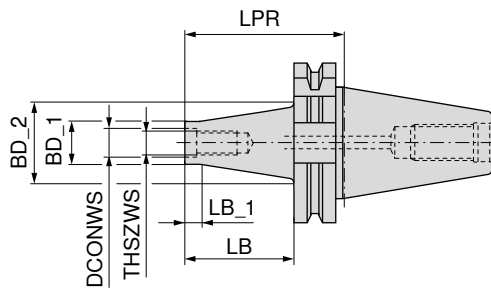
20,70 25200

Accessories

Pull studs	Extension	Others
→ 57–58	→ 193	→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 16 n_{max} 8000

56 707 ...

EUR
WA



AD
G 6,3 n_{max} 18000

56 705 ...

EUR
WA



AD
G 2,5 n_{max} 30000

56 703 ...

EUR
WA

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR
SK 30	M8	8,5	25	13,8	18,0	12	44
SK 30	M8	8,5	50	13,8	23,0	12	69
SK 30	M10	10,5	25	18,0	23,0	12	44
SK 30	M10	10,5	50	18,0	25,0	12	69
SK 30	M12	12,5	25	21,0	24,0	12	44
SK 30	M12	12,5	50	21,0	30,0	12	69
SK 30	M16	17,0	25	29,0	30,5	12	44
SK 30	M16	17,0	50	29,0	34,0	12	69
SK 40	M8	8,5	25	13,8	15,0	12	44
SK 40	M8	8,5	50	13,8	23,0	12	69
SK 40	M8	8,5	75	13,8	25,0	12	94
SK 40	M10	10,5	25	18,0	23,0	12	44
SK 40	M10	10,5	50	18,0	25,0	12	69
SK 40	M10	10,5	75	18,0	30,0	12	94
SK 40	M10	10,5	100	18,0	35,0	12	119
SK 40	M12	12,5	25	21,0	24,0	12	44
SK 40	M12	12,5	50	21,0	30,0	12	69
SK 40	M12	12,5	75	21,0	35,0	12	94
SK 40	M12	12,5	100	21,0	38,0	12	119
SK 40	M16	17,0	25	29,0	29,0	12	44
SK 40	M16	17,0	50	29,0	34,0	12	69
SK 40	M16	17,0	75	29,0	35,0	12	94
SK 40	M16	17,0	100	29,0	40,0	12	119
SK 40	M16	17,0	125	29,0	44,0	12	144
SK 40	M16	17,0	150	29,0	48,0	12	169
SK 40	M16	17,0	200	29,0	50,0	12	219
SK 50	M12	12,5	50	21,0	30,0	12	69
SK 50	M12	12,5	100	21,0	38,0	12	119
SK 50	M12	12,5	150	21,0	52,0	12	169
SK 50	M16	17,0	50	29,0	34,0	12	69
SK 50	M16	17,0	100	29,0	40,0	12	119
SK 50	M16	17,0	150	29,0	48,0	12	169
SK 50	M16	17,0	200	29,0	58,0	12	219
SK 50	M16	17,0	250	29,0	62,0	12	269

146,90
167,50
192,30

122
124
126

146,90
167,50
192,30
221,50
254,90

162
164
166
167
168

98,18
105,20
113,40

081
082
083

98,18
105,20
113,40
122,10

101
102
103
104

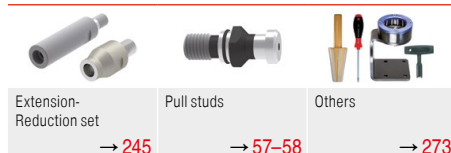
98,18
105,20
113,40
122,10

121
122
123
124

98,18
105,20
113,40
122,10
129,70
138,20
159,90

161
162
163
164
165
166
167

Accessories



Extension-
Reduction set

→ 245

Pull studs

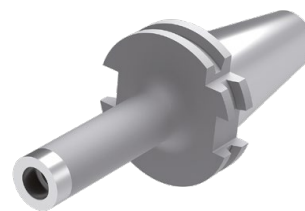
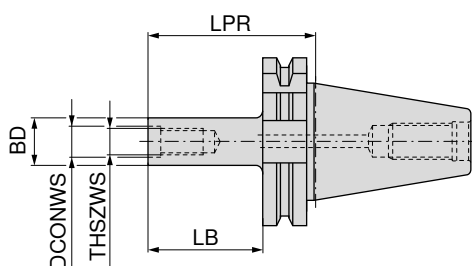
→ 57–58

Others

→ 273

Adapter for milling cutters with threaded end

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



AD
G 6,3 n_{max} 18000

56 709 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD mm	LPR mm		
SK 40	M8	8,5	50	13,8	69		
						EUR WA	
						112,40	082
SK 40	M10	10,5	50	18,0	69	112,40	102
SK 40	M10	10,5	75	18,0	94	120,90	103
SK 40	M10	10,5	100	18,0	119	128,50	104
SK 40	M12	12,5	50	21,0	69	112,40	122
SK 40	M12	12,5	75	21,0	94	120,90	123
SK 40	M12	12,5	100	21,0	119	128,50	124
SK 40	M16	17,0	50	29,0	69	112,40	162
SK 40	M16	17,0	75	29,0	94	120,90	163
SK 40	M16	17,0	100	29,0	119	128,50	164

Accessories

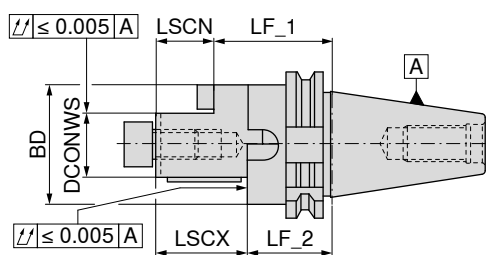
Extension-Reduction set → 245	Pull studs → 57–58	Others → 273

Combination shell mill adapter

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

Scope of supply:

Toolholder with retaining screw, driving ring and dowel spring



A

G 6,3 $n_{\max}$ 8000

82 429 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm		
short	SK 30	16	50	32	27	17	40		
	SK 30	22	50	40	31	19	38		
	SK 30	27	55	48	33	21	43		
	SK 30	32	60	58	38	24	46		
	SK 40	16	55	32	27	17	45		
	SK 40	22	55	40	31	19	43		
	SK 40	27	55	48	33	21	43		
	SK 40	32	60	58	38	24	46		
	SK 40	40	60	70	41	27	46		
	SK 50	16	55	32	27	17	45		
	SK 50	22	55	40	31	19	43		
	SK 50	27	55	48	33	21	43		
	SK 50	32	55	58	38	24	41		
	SK 50	40	55	70	41	27	41		
	SK 50	50	70	90	46	30	54		
long	SK 40	16	100	32	27	17	90		
	SK 40	22	100	40	31	19	88		
	SK 40	27	100	48	33	21	88		
	SK 40	32	100	58	38	24	86		
	SK 40	40	100	70	41	27	86		

EUR
Y8

01600

84,68

02200

84,68

02700

89,96

03200

95,14

116

58,18

122

60,46

127

61,69

132

65,18

140 ¹⁾

68,58

316

87,28

322

90,31

327

97,34

332

100,10

340 ¹⁾

103,00

350 ¹⁾

112,50

21600

77,54

22200

80,78

22700

82,30

23200

86,73

24000

91,47

1) With cross screw



Parallel key



Drive ring



Cross nut key



Retaining screw



clamping screw

		83 950 ...			83 370 ...		83 368 ...		83 367 ...			83 950 ...		
Spare parts DCONWS		EUR		EUR		EUR			EUR			EUR		
		Y8		Y8		Y8			Y8			Y8		
16	4 x 4 x 20	1,68	284	10,21	116	11,01	116	M8	3,33	016	M8x25	2,97	113	
22	6 x 6 x 25	1,68	285	11,34	122	13,72	122	M10	3,65	022	M10x25	3,43	124	
27	7 x 7 x 25	3,24	286	12,20	127	17,60	127	M12	4,67	027	M12x30	3,78	125	
32	8 x 7 x 28	1,93	287	14,58	132	22,68	132	M16	7,50	032	M16x35	4,70	126	
40	10 x 8 x 32	2,06	288	21,70	140	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112	
50	12 x 8 x 36	2,32	289	38,23	150	43,10	150	M24	26,35	050				

Accessories



Pull studs



Milling Adapter Rings



Others

→ 57-58

→ 253

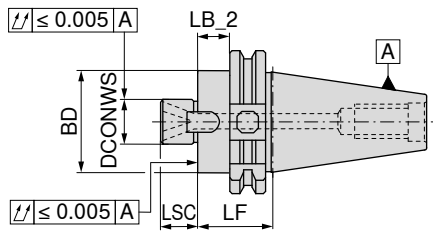
→ 273

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw



A
G 2,5 n_{max} 18000



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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 428 ...		82 428 ...	
							EUR Y8		EUR Y8	
short	SK 30	16	21,0	40	38	17	79,60	01600		
	SK 30	22	14,6	50	48	19	79,60	02200		
	SK 30	27	19,3	55	58	21	84,68	02700		
	SK 30	32	31,0	50	78	24	90,29	03200		
	SK 40	16	25,0	44	38	17			58,18	116
	SK 40	22	25,0	44	48	19			61,69	122
	SK 40	27	36,0	55	58	21			62,81	127
	SK 40	32	31,0	50	78	24			66,13	132
	SK 40	40	31,0	50	88	27			71,89	140 ¹⁾
	SK 50	16	25,0	44	38	17			89,84	316
	SK 50	22	25,0	44	48	19			92,20	322
	SK 50	27	25,0	44	58	21			94,46	327
	SK 50	32	21,0	40	78	24			102,10	332
	SK 50	40	31,0	50	88	27			103,90	340 ¹⁾
	SK 40	16	81,0	100	38	17			60,17	416
	SK 40	22	81,0	100	48	19			62,16	422
long	SK 40	27	81,0	100	58	21			63,19	427
	SK 40	32	81,0	100	78	24			66,51	432
	SK 40	40	81,0	100	88	27			69,43	440 ¹⁾
	SK 50	16	81,0	100	38	17			95,39	616
	SK 50	22	81,0	100	48	19			97,34	622
	SK 50	27	81,0	100	58	21			100,10	627
	SK 50	32	81,0	100	78	24			103,00	632
	SK 50	40	81,0	100	88	27			104,90	640 ¹⁾
	SK 40	16	111,0	130	38	17			63,95	816
	SK 40	22	111,0	130	48	19			66,13	822
medium length	SK 40	27	111,0	130	58	21			67,17	827
	SK 40	32	111,0	130	78	24			70,38	832
	SK 40	40	111,0	130	88	27			73,49	840 ¹⁾
	SK 50	16	111,0	130	38	17			101,00	916
	SK 50	22	111,0	130	48	19			103,00	922
	SK 50	27	111,0	130	58	21			105,80	927
	SK 50	32	111,0	130	78	24			108,70	932
	SK 50	40	111,0	130	88	27			110,50	940
	SK 40	16	141,0	160	38	17			66,13	516
	SK 40	22	141,0	160	48	19			68,29	522
extra-long	SK 40	27	141,0	160	58	21			69,24	527
	SK 40	32	141,0	160	78	24			72,45	532
	SK 40	40	141,0	160	88	27			75,48	540 ¹⁾
	SK 50	16	141,0	160	38	17			103,90	716
	SK 50	22	141,0	160	48	19			106,80	722
	SK 50	27	141,0	160	58	21			108,70	727
	SK 50	32	141,0	160	78	24			111,50	732
	SK 50	40	141,0	160	88	27			114,30	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



Cross nut key

83 368 ...**EUR**
Y8

Retaining screw

83 367 ...**EUR**
Y8

clamping screw

83 950 ...**Spare parts**
DCONWS

16	11,01	116	M8	3,33	016	M8x25	2,97	113
22	13,72	122	M10	3,65	022	M10x25	3,43	124
27	17,60	127	M12	4,67	027	M12x30	3,78	125
32	22,68	132	M16	7,50	032	M16x35	4,70	126
40	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112



Screw for drivers

83 950 ...**EUR**
Y8

Driver

83 950 ...**Spare parts**
DCONWS

16		M3x8	0,39	296	8x9x17,5	7,45	120
22		M4x12	0,49	297	10x11x20,5	7,71	121
27		M5x12	0,59	136	12x13x24,3	8,73	122
32		M5x20	0,66	137	14x21x21,2	9,00	123
40		M6x16	0,77	138	15,9x16,3x19,5	11,56	295

Accessories

Pull studs

→ 57–58



Extensions

→ 252



Others

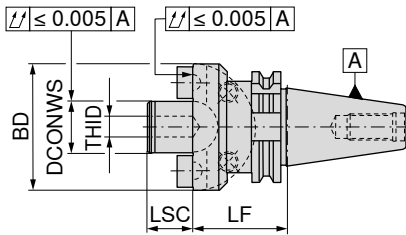
→ 273

Large diameter facemill adapter

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

Scope of supply:

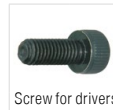
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws



A
G 6,3 n_{max} 8000

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

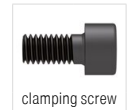
82 432 ...
EUR
Y8
119,10
040
137,90
167,30
240
260



Screw for drivers



Driver



clamping screw

Spare parts

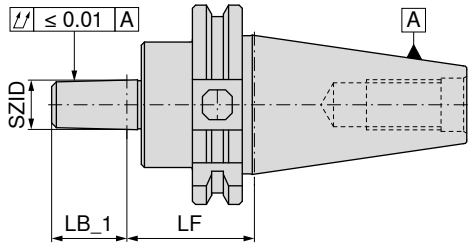
40	M6x16	0,77	138	15,9x16,3x19,5	11,56	295	M12x50	3,76	140
60				25,4x16,3x26,5	15,01	298	M16x45	9,58	160

Accessories

Pull studs	Others
→ 57-58	→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

Adapter	SZID	LF mm	LB_1 mm
SK 40	B12	40	18,5
SK 40	B16	40	24,0
SK 50	B16	40	24,0
SK 50	B18	40	32,0

82 423 ...

EUR	
Y8	
45,63	112
45,63	116
69,05	316
69,05	318

Spare parts

SZID					
B12	0 - 8 mm	EUR	012	0 - 10 mm	EUR
B16	1 - 13 mm	Y8	016	3 - 16 mm	Y8
B18		90,84		3 - 16 mm	107,10
		128,50			112
					116
					118

Accessories



Pull studs
→ 57-58



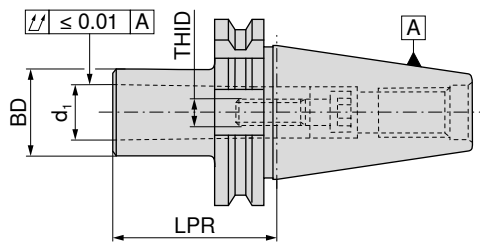
Others
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

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

Scope of supply:

Holder with retaining screw



A
G 6,3 n_{max} 8000

						82 446 ...	
	Adapter	d ₁	LPR mm	BD mm	THID	EUR Y8	
short	SK 40	MK1	50	25	M6	55,73	110
	SK 40	MK2	50	32	M10	55,73	120
	SK 40	MK3	70	40	M12	58,18	130
	SK 40	MK4	95	48	M16	60,46	140
	SK 50	MK1	45	25	M6	82,09	310
	SK 50	MK2	60	32	M10	81,24	320
	SK 50	MK3	65	40	M12	81,24	330
	SK 50	MK4	95	48	M16	84,16	340
	SK 50	MK5	120	63	M20	95,39	350



Morse taper
clamping screw



Counterscrew



Hollow key with
nose



Fixing ring

		83 950 ...		83 950 ...		83 359 ...		83 950 ...				
Spare parts for Article no.		EUR Y8		EUR Y8		EUR Y8		EUR Y8				
82 446 110	M6x30	0,71	260	M5x6	0,49	030	16 x 32	19,00	013	M16x8x6,5	6,57	265
82 446 120	M10x30	1,21	261	M5x8	0,49	031	16 x 32	19,00	013	M16x8x10,5	6,57	267
82 446 130	M12x35	0,89	018	M5x6	0,49	030	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 446 140	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 446 310	M6x30	0,71	260	M5x8	0,49	031	20 x 135	22,58	020	M24x10x6,5	7,56	266
82 446 320	M10x30	0,89	017	M5x8	0,49	031	20 x 135	22,58	020	M24x10x10,5	7,56	268
82 446 330	M10x30	0,89	017	M5x8	0,49	031	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 446 340	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 446 350	M20x50	7,09	262	M5x8	0,49	031	33 x 175	32,29	033	M36x1,5x21	11,12	271

Accessories



Pull studs

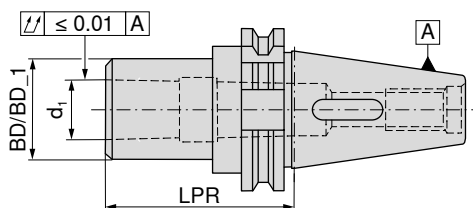


Others

→ 57-58

→ 273

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

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

AD

G 6,3 n_{max} 8000**82 439 ...**EUR
Y8

	Adapter	d ₁	LPR mm	BD mm	BD_1 mm		
short	SK 30	MK1	50	25		75,60	01000
	SK 30	MK2	63	32		75,60	02000
	SK 30	MK3	80	40		82,19	03000
	SK 40	MK1	50		25	51,20	110
	SK 40	MK2	50		32	51,20	120
	SK 40	MK3	70		40	54,69	130
	SK 40	MK4	95	48		57,06	140
	SK 50	MK1	50		25	70,00	310
	SK 50	MK2	60		32	72,45	320
	SK 50	MK3	65		40	72,45	330
	SK 50	MK4	95		48	74,81	340
	SK 50	MK5	105		63	81,34	350
long	SK 40	MK2	117	32		72,89	22000
	SK 40	MK3	133	40		81,01	23000
	SK 40	MK4	156	48		88,34	24000

Accessories

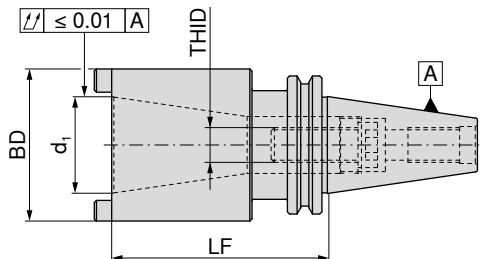
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 57–58	→ 273

Milling adapter sleeve

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

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A
G 6,3 $n_{\max}$ 8000

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

82 453 ...

EUR	
Y8	
123,20	03000
96,32	040
131,20	240
137,90	250

Spare parts for Article no.

	83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
	EUR	EUR	EUR	EUR	EUR
	Y8	Y8	Y8	Y8	Y8
82 453 03000		5,36	0,49	21,50	6,58
82 453 040	6,02		0,49	030	18500
82 453 240	6,67			023	270
82 453 250	20,95		0,49	031	257



83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
EUR	EUR	EUR	EUR	EUR
Y8	Y8	Y8	Y8	Y8
009	18400	030	017	18500
264		030	023	270
256		031	133	257

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

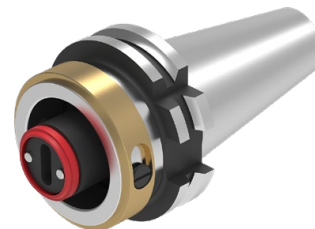
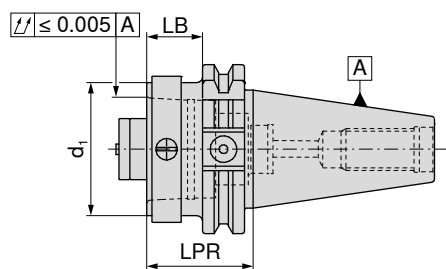
ISO 7388-1	Norm of the SK-shank		Clamping screw length				
Suitable for article no.	Ø d ₁ ISO 7388-1	Ø d ₁ DIN 2080	THID	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017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

SK/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



NEW



AD

84 014 ...

EUR

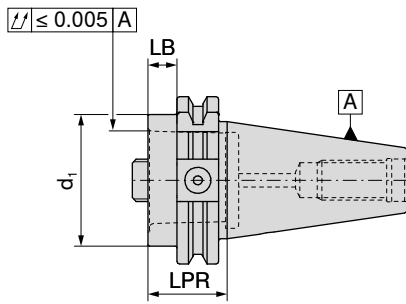
Y8

Adapter	d ₁	LB mm	LPR mm	
SK 40	HSK-A 32	20,9	40	
SK 40	HSK-A 40	20,9	40	472,80 04060
SK 40	HSK-A 50	20,9	40	482,30 04059
SK 40	HSK-A 63	60,9	80	491,80 04058
				482,30 04057
SK 50	HSK-A 100	80,9	100	757,70 05055
SK 50	HSK-A 32	20,9	40	596,20 05060
SK 50	HSK-A 40	20,9	40	596,20 05059
SK 50	HSK-A 50	20,9	40	605,70 05058
SK 50	HSK-A 63	20,9	40	643,80 05057

SK/PSC adapter

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

Scope of supply:
with tightening screw



Adapter	d ₁	LB mm	LPR mm	
SK 40	PSC 32	10,9	30	
SK 40	PSC 40	10,9	30	
SK 40	PSC 50	10,9	30	
SK 40	PSC 63	65,9	85	
SK 50	PSC 32	10,9	30	
SK 50	PSC 40	10,9	30	
SK 50	PSC 50	10,9	30	
SK 50	PSC 63	10,9	30	
SK 50	PSC 80	50,9	70	

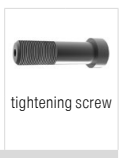
84 015 ...
EUR Y8
301,80 04087
311,40 04095
311,40 04094
301,80 04093
415,90 05087
491,80 05095
425,30 05094
434,80 05093
463,30 05086

Spare parts DCONWS

	84 950 ...		84 950 ...
	EUR Y8		EUR Y8
22	26,46 127	SW8	19,12 122
28	26,46 128	SW8	21,60 123
35	26,46 129	SW10	21,60 124
44	52,82 130	SW14	24,19 126
55	52,82 130	SW14	24,19 126



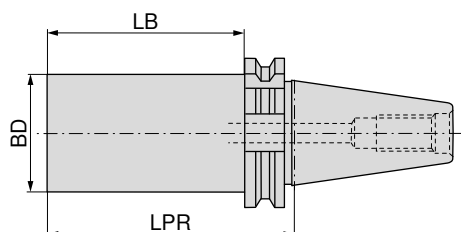
Threaded ring



tightening screw

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 ...

EUR
Y867,82 040
124,70 050

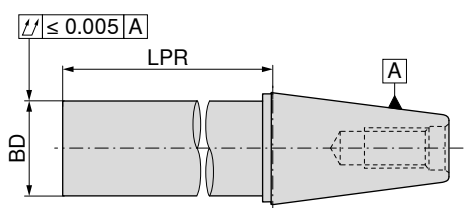
Adapter	BD mm	LPR mm	LB mm
SK 40	63,0	250	231
SK 50	63,5	300	281

Test bar

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

Scope of supply:

in wooden box



A

82 456 ...

EUR
Y8295,70 040
364,60 050

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

Accessories



Pull studs

→ 57–58, 111–112



Others

→ 273

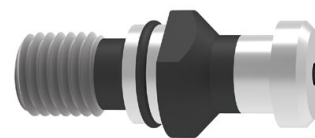
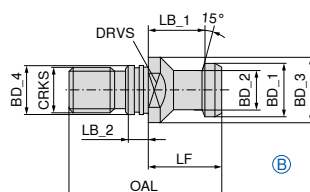
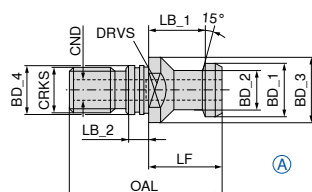
Pull studs for tool holders according to ISO 7388-1

▲ DIN 69872 form A and B

▲ For tools with or without axial coolant supply

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ...		82 468 ...	
														EUR Y8		EUR Y8	
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	60	A			9,72	030
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90	A			5,31	040
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145	A			8,08	050
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	9,72	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	5,31	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	8,08	050		

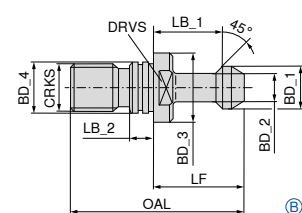
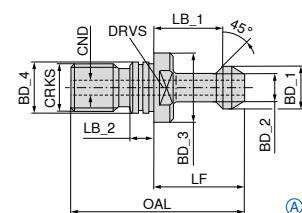
Pull studs for tool holders according to ISO 7388-1

▲ Similar to BT 45°, but 3 mm shorter

▲ for Haas, Micron and Hurco machines

Scope of supply:

including O-Ring



Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	83 538 ...		83 535 ...	
														EUR Y8		EUR Y8	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A			9,57	040
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	9,86	040		



Spare parts

BD_4

17	BT / SK 40	0,47	040
25	BT / SK 50	0,47	050

83 476 ...

EUR
Y8

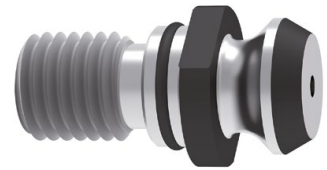
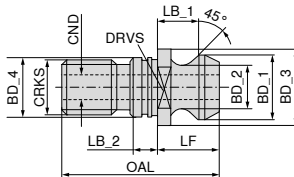
Pull studs for tool holders according to ISO 7388-1

▲ Similar to ISO / DIS 7388 (ANSI-CAT only for SK 40) Form A

Scope of supply:

SK 50 including O-ring

SK 40 without O-ring groove



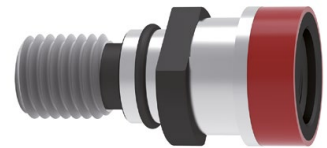
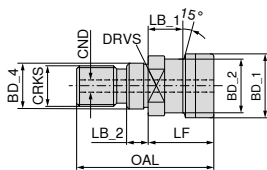
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	82 487 ...	
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	EUR	
SK 40	18,79	12,44	22,5	17	M16	41,26	16,25	11,17	4,0	6,0	19	90	5,62	040
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145	8,08	050

Pull studs for tool holders according to ISO 7388-1

▲ SK 40 with circlip groove and edge protection, with and without internal thread

▲ SK 50 with circlip groove, with and without internal thread

▲ For tools according to ISO 7388-1 for conversion to DIN 2080

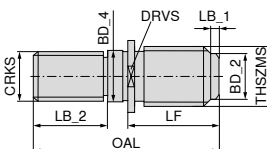


Adapter	BD_1	BD_2	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	without internal thread		with internal thread	
	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	82 493 ...		82 494 ...	
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	90	EUR		EUR	
												Y8		Y8	
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	90	6,34	040	6,63	040
SK 50	39,3	32,0	25	M24	65	25	13,3	10		30	145	8,88	050 ¹⁾	9,88	050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

▲ DECKEL thread S 20 x 2

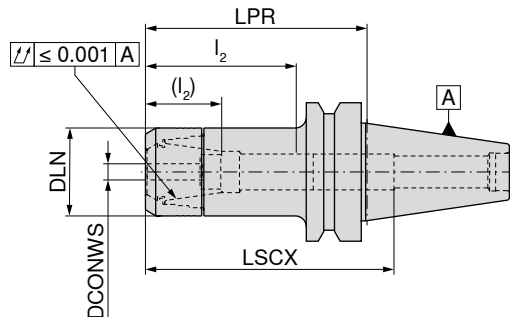


Adapter	THSZMS	CRKS	OAL	LF	LB_1	LB_2	BD_2	BD_4	DRVS	83 471 ...	
			mm	mm	mm	mm	mm	mm	mm	EUR	
SK 40	S 20 x 2	M16	55	33	4	17	16,7	17	22	Y8	
										20,95	040

ER Precision Collet chuck – Centro-P

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

Scope of supply:

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

AD

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

84 524 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	93,20	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	104,60	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	121,20	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	131,40	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	102,50	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	104,70	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	115,00	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	131,50	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	102,50	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	104,70	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	115,00	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	93,22	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	103,60	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	139,80	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	154,30	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	206,00	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	98,40	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	93,22	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	103,60	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	131,40	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	150,20	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	164,70	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	206,10	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	98,40	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	93,22	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	103,60	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	150,20	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	164,70	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	124,30	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	145,00	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	170,90	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	206,10	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	295,20	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	181,20	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	216,50	826

→ Transmittable torque moments, Page 300



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

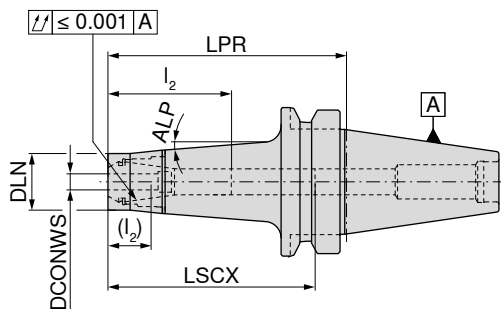
Spare parts, ER precision collet chuck – Centro-P

				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	36,25 011	28,99 001	M11x1 - SW6 14,50 341	M11x1 - SW6 10,23 337
430E (ER25)	39,37 013	32,09 003	M18x1,5 - SW6 16,38 432	M18x1,5 - SW6 11,76 431
470E (ER32)	41,44 015	34,14 005	M22x1,5 - SW6 16,38 402	M22x1,5 - SW6 11,76 401
472E (ER40)	55,93 017	46,61 007		M28x1,5 - SW6 10,66 400

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** backstopAD/B
G 2,5 n_{max} 25000

84 517 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	ALP	
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4,5°	EUR Y8 118,00 410
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)	4,5°	EUR Y8 151,10 31000
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4,5°	EUR Y8 157,40 510

→ Transmittable torque moments, Page 300



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

				
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	42,47 033	34,14 031	M11x1 - SW6 14,50 341	M11x1 - SW6 10,23 337

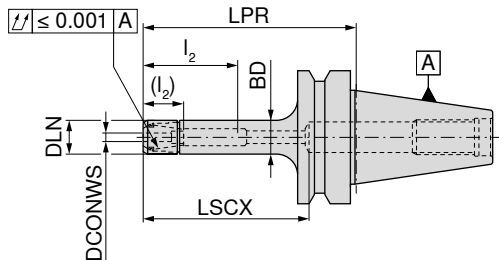
Accessories

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

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopAD
G 2,5 $n_{\max}$ 25000AD/B
G 2,5 $n_{\max}$ 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	I_2 (I_2) mm	for collet	84 507 ... EUR Y8 108,80 121,20	007 008	84 508 ... EUR Y8 121,20 121,20 160,60 179,20	307 40600 507 90600
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)				
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)				
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)			121,20	307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)			121,20	40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)			160,60	507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)			179,20	90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)			121,20	216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)			121,20	316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)			160,60	416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)			179,20	516



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

	Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
	84 950 ... EUR Y8 42,46	84 950 ... EUR Y8 34,14	83 950 ... EUR Y8 13,94	83 950 ... EUR Y8 10,23
Spare parts for collet	035	041	340	336
4008E (ER11)		034	341	337
426E (ER16)				

Accessories

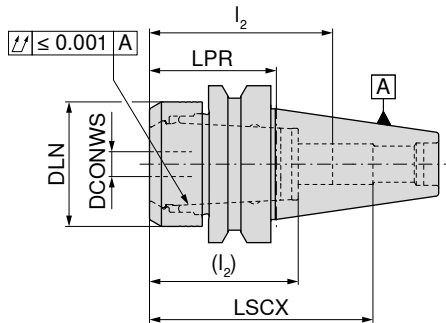
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 111-112	→ 273

OZ Precision Collet Chuck – Centro-P

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

Scope of supply:

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



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

84 513 ...

EUR

Y8

114,00

225

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet
BT 40	2 - 25	51	50	89	70 (56)	462E

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks
 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

462E



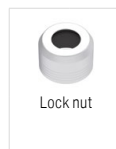
84 950 ...

EUR

Y8

43,49

020



84 950 ...

EUR

Y8

36,25

009



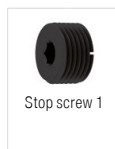
83 950 ...

EUR

Y8

16,38

402



83 950 ...

EUR

Y8

11,76

401

Accessories



OZ Collet

→ 267



Sealing ring

→ 267



Roll key

→ 275



Roll key device

→ 275



Pull studs

→ 111–112



Others

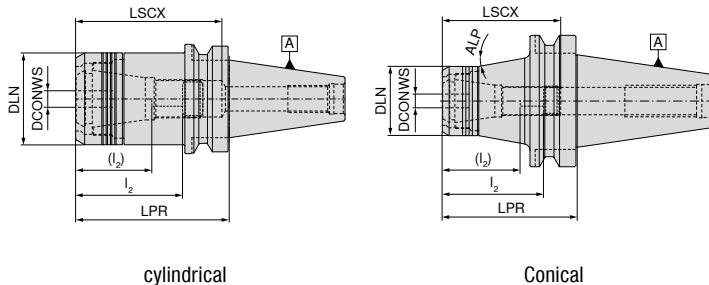
→ 273

ER precision collet chuck – HDC

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

Scope of supply:

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



NEW



AD

G 6,3 n_{max} 18000

cylindrical

NEW



AD

G 6,3 n_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8	84 400 ... EUR Y8
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	174,10	12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	181,30	22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		269,90 12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		315,20 22068



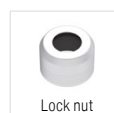
LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20



Lock nut

84 950 ...

EUR

Y8

54,59 30100



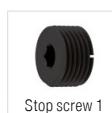
Stop screw 2

83 950 ...

EUR

Y8

16,38 402



Stop screw 1

83 950 ...

EUR

Y8

11,76 401

Accessories

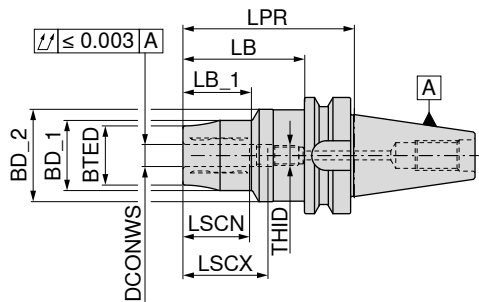
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 111-112	→ 273

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw

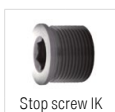
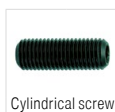


AD/B
G 2,5 n_{max} 25000

83 526 ...

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID		
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
short	BT 40	16	95	36	42	50	42	49	39	71	M12x1		
	BT 40	20	100	42	48	50	45	51	41	76	M16x1		
	BT 40	25	110	51	57	50	60	57	47	91	M16x1		
	BT 40	32	120	57	63	50	65	61	51	101	M16x1		
												EUR	
												Y8	
												427,70	116
												381,20	120
												427,70	125
												427,70	132

→ Min. clamping depth, Page 300



Spare parts for Article no.

		EUR			EUR			EUR			EUR	
		Y7			Y7			Y7			Y7	
83 526 116	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x14	4,41	429	M12x1x18	7,37	446
83 526 120	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x18,5	8,12	448
83 526 125	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x22	12,85	449
83 526 132	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x14	4,41	429	M16x1x25	15,99	450

Accessories

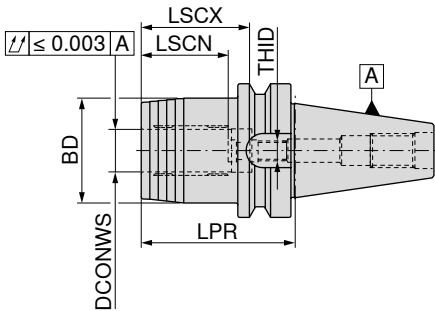
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

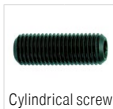
83 513 ...

EUR
Y8

248,40 120

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

→ Min. clamping depth, Page 300



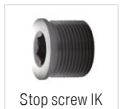
Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 513 120	M5x5 - SW2,5	EUR Y7 1,91	157	SW5	EUR Y7 4,37	050	M10x1x14	EUR Y7 4,41	429	M16x1x13,5 - SW8	EUR Y7 9,62	424
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Accessories

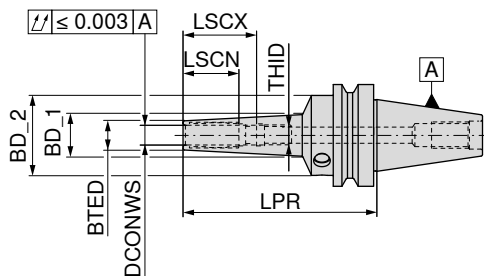
Reduction sleeve	Pull studs	Others
→ 271	→ 111–112	→ 273

High pressure chuck, slim 3°

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

Scope of supply:

Base body with backstop screw, pressure screw and screw plug

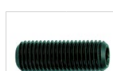


AD/B
G 2,5 n_{max} 25000

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	EUR Y8	
long	BT40	3	120	9	16,55	49,5	28	12	M3	440,70	103
	BT40	4	120	10	17,55	49,5	28	16	M3	440,70	104
	BT40	5	120	11	18,55	49,5	28	20	M3	440,70	105
	BT40	6	120	12	19,55	49,5	37	27	M5	375,90	106
	BT40	8	120	14	21,55	49,5	37	27	M6	375,90	108
	BT40	10	120	16	23,65	49,5	41	31	M8x1	375,90	110
	BT40	12	120	18	25,76	49,5	46	36	M10x1	375,90	112
	BT40	16	120	24	31,45	49,5	49	39	M12x1	603,70	116
	BT40	20	120	28	35,55	49,5	51	41	M16x1	603,70	120
	BT40	6	160	16	33,53	49,5	37	27	M5	566,00	206
	BT40	8	160	18	34,60	49,5	37	27	M6	566,00	208
	BT40	10	160	20	36,27	49,5	41	31	M8x1	566,00	210
	BT40	12	160	22	37,88	49,5	46	36	M10x1	566,00	212
	BT40	6	200	16	37,88	49,5	37	27	M5	636,10	306
	BT40	8	200	18	38,90	49,5	37	27	M6	636,10	308
	BT40	10	200	20	40,57	49,5	41	31	M8x1	636,10	310
BT40	12	200	22	42,18	49,5	46	36	M10x1	636,10	312	

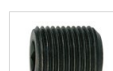
→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

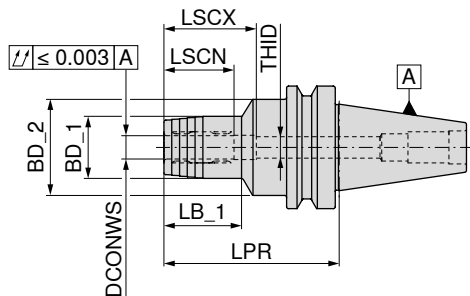
		83 950 ...		80 397 ...		83 950 ...		83 950 ...				
Spare parts for Article no.		EUR Y7		EUR Y7		EUR Y7		EUR Y7				
83 522 103	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 104	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 105	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 106	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 108	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 110	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 112	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
83 522 116	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M12x1x13,5 - SW5	8,35	422
83 522 120	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x13,5 - SW8	9,62	424
83 522 206	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 208	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 210	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 212	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
83 522 306	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 308	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 310	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 312	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	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

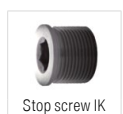
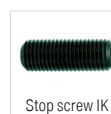


AD/B
G 2,5 n_{max} 25000

83 521 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	EUR Y8	
BT 40	6	90	26	49,5	37	27	29	M5	379,10	106
BT 40	8	90	28	49,5	37	27	30	M6	379,10	108
BT 40	10	90	30	49,5	41	31	35	M8x1	379,10	110
BT 40	12	90	32	49,5	46	36	40	M10x1	329,40	112
BT 40	16	90	38	49,5	49	39	45	M12x1	379,10	116
BT 40	20	90	42	49,5	51	41	47	M16x1	329,40	120
BT 40	25	90	55	52,0	57	47	50	M16x1	379,10	125
BT 40	32	90	63	62,0	61	51	48	M16x1	379,10	132
BT 50	6	90	26	49,5	37	27	29	M5	530,20	306
BT 50	8	90	28	49,5	37	27	30	M6	530,20	308
BT 50	10	90	30	49,5	41	31	34	M8x1	530,20	310
BT 50	12	90	32	49,5	46	36	34	M10x1	480,70	312
BT 50	16	90	38	49,5	49	39	35	M12x1	530,20	316
BT 50	20	90	42	49,5	51	41	35	M16x1	480,70	320
BT 50	25	110	55	63,0	57	47	48	M16x1	530,20	325
BT 50	32	110	63	70,0	61	51	50	M16x1	530,20	332

→ Min. clamping depth, Page 300



		83 950 ...		83 950 ...		83 950 ...			
Spare parts		EUR		EUR		EUR			
DCONWS		Y7		Y7		Y7			
6	M8x1x10	5,64	439	M6x14 - SW2	8,35	417	M5x12,5 - SW2,5	8,35	418
8	M8x1x10	5,64	439				M6x12,5 - SW3	8,35	419
10	M10x1x12	5,64	440				M8x1x13,5 - SW3	8,35	420
12	M10x1x12	5,64	440				M10x1x13,5 - SW5	8,35	421
16	M10x1x12	5,64	440				M12x1x13,5 - SW5	8,35	422
20 - 32	M10x1x12	5,64	440				M16x1x13,5 - SW8	9,62	424

Accessories

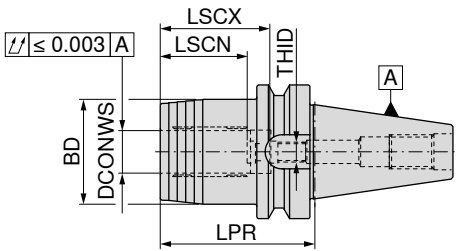


Hydraulic chuck MAS BT, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



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

83 518 ...

EUR
Y8

211,70 120

265,70 332

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

→ Min. clamping depth, Page 300

Spare parts DCONWS 20 - 32



Pressure screw

83 950 ...

EUR
Y7

5,64 440



Stop screw IK

83 950 ...

EUR
Y7

9,62 424

M10x1x12

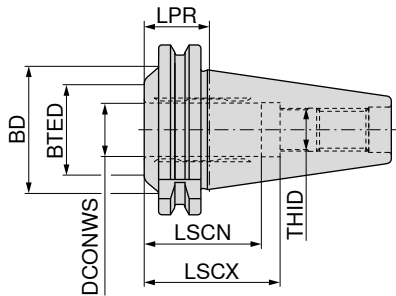
M16x1x13,5 - SW8

Hydraulic chuck, extra short

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 523 ...

EUR
Y8

304,60 120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	32,5	34	48	51	41	M16x1



Stop screw IK

83 950 ...

EUR
Y7

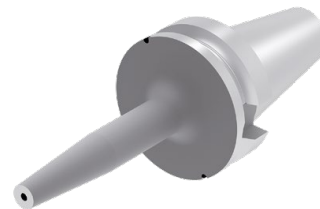
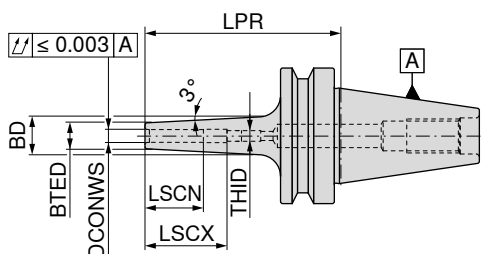
9,62 424

**Spare parts
for Article no.**
83 523 120

Shrink adapter, Slim 3°

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

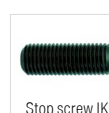
TG

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

84 323 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	BT 40	3	90	9	15	28	12	M6	165,20	103
	BT 40	4	90	10	16	28	16	M6	160,90	104
	BT 40	5	90	11	17	30	20	M6	160,90	105
	BT 40	6	90	12	18	36	26	M5	142,60	106
	BT 40	8	90	14	20	36	26	M6	142,60	108
	BT 40	10	90	16	22	41	31	M8x1	142,60	110
	BT 40	12	90	18	24	47	37	M10x1	142,60	112
	BT 40	14	90	20	26	47	37	M10x1	142,60	114
	BT 40	16	90	22	28	50	40	M12x1	142,60	116
	BT 40	18	90	24	30	50	40	M12x1	142,60	118
	BT 40	20	90	26	32	52	42	M16x1	142,60	120
long	BT 40	3	120	9	16	12	12		184,80	203
	BT 40	4	120	10	17	16	16		181,50	204
	BT 40	5	120	11	18	20	20		181,50	205
	BT 40	6	120	12	21	36	26	M5	162,00	206
	BT 40	8	120	14	23	36	26	M6	162,00	208
	BT 40	10	120	16	25	41	31	M8x1	162,00	210
	BT 40	12	120	18	27	47	37	M10x1	162,00	212
	BT 40	14	120	20	29	47	37	M10x1	162,00	214
	BT 40	16	120	22	31	50	40	M12x1	162,00	216
	BT 40	18	120	24	33	50	40	M12x1	162,00	218
	BT 40	20	120	26	35	52	42	M16x1	162,00	220
extra-long	BT 40	3	160	9	19	12	12		208,50	303
	BT 40	4	160	10	20	16	16		204,20	304
	BT 40	5	160	11	21	20	20		204,20	305
	BT 40	6	160	12	24	36	26	M5	185,80	306
	BT 40	8	160	14	26	36	26	M6	185,80	308
	BT 40	10	160	16	28	41	31	M8x1	185,80	310
	BT 40	12	160	18	30	47	37	M10x1	185,80	312
	BT 40	14	160	20	32	47	37	M10x1	185,80	314
	BT 40	16	160	22	34	50	40	M12x1	185,80	316
	BT 40	18	160	24	36	50	40	M12x1	185,80	318
	BT 40	20	160	26	38	52	42	M16x1	185,80	320

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

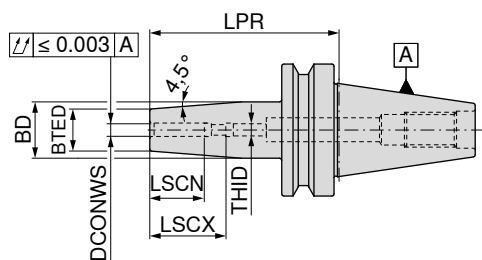
Spare parts
DCONWS

	83 950 ...	EUR Y7		83 950 ...	EUR Y7	
3 - 5						
6	M6x14 - SW2	8,35	417	M5x12,5 - SW2,5	8,35	418
8				M6x12,5 - SW3	8,35	419
10				M8x1x13,5 - SW3	8,35	420
12 - 14				M10x1x13,5 - SW5	8,35	421
16 - 18				M12x1x13,5 - SW5	8,35	422
20				M16x1x13,5 - SW8	9,62	424

Shrink fit adapters 4.5°

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

TG

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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 303 ...		84 303 ...	
									EUR Y8		EUR Y8	
short	BT 30	3	85	10	17	28	12	M6	166,40	003		
	BT 30	4	85	15	22	28	16	M6	160,90	004		
	BT 30	5	85	15	22	30	20	M6	160,90	005		
	BT 30	6	85	21	27	36	26	M5	142,60	006		
	BT 30	8	85	21	27	36	26	M6	142,60	008		
	BT 30	10	85	24	32	41	31	M8x1	142,60	010		
	BT 30	12	85	24	32	47	37	M10x1	142,60	012		
	BT 30	14	85	27	34	47	37	M10x1	142,60	014		
	BT 30	16	85	27	34	50	40	M12x1	142,60	016		
	BT 30	18	85	33	42	50	40	M12x1	142,60	018		
	BT 30	20	85	33	42	52	42	M16x1	142,60	020		
	BT 40	3	90	10	17	28	12	M6			146,90	103
	BT 40	4	90	15	22	28	16	M6			141,50	104
	BT 40	5	90	15	22	30	20	M6			141,50	105
	BT 40	6	90	21	27	36	26	M5			126,40	106
	BT 40	8	90	21	27	36	26	M6			126,40	108
	BT 40	10	90	24	32	41	31	M8x1			126,40	110
	BT 40	12	90	24	32	47	37	M10x1			126,40	112
	BT 40	14	90	27	34	47	37	M10x1			126,40	114
	BT 40	16	90	27	34	50	40	M12x1			126,40	116
	BT 40	18	90	33	42	50	40	M12x1			126,40	118
	BT 40	20	90	33	42	52	42	M16x1			126,40	120
	BT 40	25	100	44	53	58	48	M16x1			126,40	125
long	BT 40	3	120	10	20	12	12				163,20	203
	BT 40	4	120	15	22	16	16				159,90	204
	BT 40	5	120	15	22	20	20				159,90	205
	BT 40	6	120	21	27	36	26	M5			141,50	206
	BT 40	8	120	21	27	36	26	M6			141,50	208
	BT 40	10	120	24	32	41	31	M8x1			141,50	210
	BT 40	12	120	24	32	47	37	M10x1			141,50	212
	BT 40	14	120	27	34	47	37	M10x1			141,50	214
	BT 40	16	120	27	34	50	40	M12x1			141,50	216
	BT 40	18	120	33	42	50	40	M12x1			141,50	218
	BT 40	20	120	33	42	52	42	M16x1			141,50	220
	BT 40	25	120	44	53	58	48	M16x1			141,50	225
	BT 40	3	160	10	20	12	12				185,80	303
extra-long	BT 40	4	160	15	22	16	16				181,50	304
	BT 40	5	160	15	22	20	20				181,50	305
	BT 40	6	160	21	27	36	26	M5			164,20	306
	BT 40	8	160	21	27	36	26	M6			164,20	308
	BT 40	10	160	24	32	41	31	M8x1			164,20	310
	BT 40	12	160	24	32	47	37	M10x1			164,20	312
	BT 40	14	160	27	34	47	37	M10x1			164,20	314
	BT 40	16	160	27	34	50	40	M12x1			164,20	316
	BT 40	18	160	33	42	50	40	M12x1			164,20	318
	BT 40	20	160	33	42	52	42	M16x1			164,20	320
	BT 40	25	160	44	53	58	48	M16x1			164,20	325

→ Min. clamping depth, Page 300

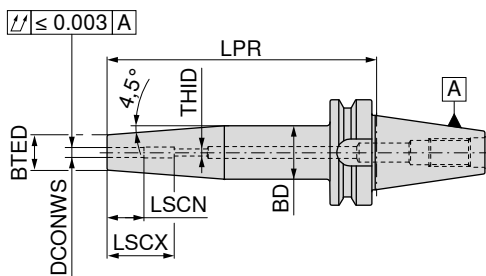
Spare parts heat shrink adapter 4.5°

		 Stop screw IK		 Stop screw IK	
		83 950 ...		83 950 ...	
Spare parts		EUR		EUR	
DCONWS		Y7		Y7	
3 - 5	M6x14 - SW2	8,35	417		
6				M5x12,5 - SW2,5	8,35 418
8				M6x12,5 - SW3	8,35 419
10				M8x1x13,5 - SW3	8,35 420
12 - 14				M10x1x13,5 - SW5	8,35 421
16 - 18				M12x1x13,5 - SW5	8,35 422
20 - 25				M16x1x13,5 - SW8	9,62 424

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

EUR
Y8

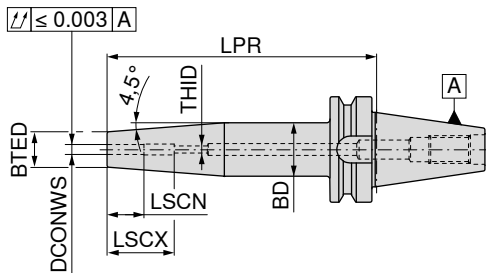
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	BT 40	3	90	11	15				131,70	10369
	BT 40	4	90	11	15				126,40	10469
	BT 40	5	90	11	15				126,40	10569
	BT 40	6	90	21	27	36	26	M5	113,40	10669
	BT 40	8	90	21	27	36	26	M6	113,40	10869
	BT 40	10	90	24	34	41	31	M8x1	113,40	11069
	BT 40	12	90	24	34	46	36	M10x1	113,40	11269
	BT 40	14	90	27	34	46	36	M10x1	113,40	11469
	BT 40	16	90	27	34	49	39	M12x1	113,40	11669
	BT 40	18	90	33	42	49	39	M12x1	113,40	11869
	BT 40	20	90	33	42	51	41	M16x1	113,40	12069
	BT 40	25	100	44	53	57	47	M16x1	113,40	12569
	BT 50	6	100	21	27	36	26	M5	144,80	10668
	BT 50	8	100	21	27	36	26	M6	144,80	10868
long	BT 50	10	100	24	32	41	31	M8x1	144,80	11068
	BT 50	12	100	24	32	47	37	M10x1	144,80	11268
	BT 50	14	100	27	34	47	37	M10x1	144,80	11468
	BT 50	16	100	27	34	50	40	M12x1	144,80	11668
	BT 50	18	100	33	42	50	40	M12x1	144,80	11868
	BT 50	20	100	33	42	52	42	M16x1	144,80	12068
	BT 50	25	100	44	53	58	48	M16x1	144,80	12568
	BT 50	32	100	44	53	62	52	M16x1	144,80	13268
	BT 50	6	120	21	27	36	26	M5	159,00	20668
	BT 50	8	120	21	27	36	26	M6	159,00	20868
	BT 50	10	120	24	32	41	31	M8x1	159,00	21068
	BT 50	12	120	24	32	47	37	M10x1	159,00	21268
	BT 50	14	120	27	34	47	37	M10x1	159,00	21468
	BT 50	16	120	27	34	50	40	M12x1	159,00	21668
	BT 50	18	120	33	42	50	40	M12x1	159,00	21868
	BT 50	20	120	33	42	52	42	M16x1	159,00	22068
	BT 50	25	120	44	53	58	48	M16x1	159,00	22568
	BT 50	32	120	44	53	62	52	M16x1	159,00	23268

→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

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

TG



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

82 310 ...

EUR
Y8

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
		mm	mm	mm	mm	mm	mm			
extra-long	BT 40	6	160	21	27	36	26	M5	146,90	30669
	BT 40	8	160	21	27	36	26	M6	146,90	30869
	BT 40	10	160	24	34	41	31	M8x1	146,90	31069
	BT 40	12	160	24	34	46	36	M10x1	146,90	31269
	BT 40	14	160	27	34	46	36	M10x1	146,90	31469
	BT 40	16	160	27	34	49	39	M12x1	146,90	31669
	BT 40	18	160	33	42	49	39	M12x1	146,90	31869
	BT 40	20	160	33	42	51	41	M16x1	146,90	32069
	BT 40	25	160	44	53	57	47	M16x1	146,90	32569
	BT 50	6	160	21	27	36	26	M5	176,70	30668
	BT 50	8	160	21	27	36	26	M6	176,70	30868
	BT 50	10	160	24	32	41	31	M8x1	176,70	31068
	BT 50	12	160	24	32	47	37	M10x1	176,70	31268
	BT 50	14	160	27	34	47	37	M10x1	176,70	31468
	BT 50	16	160	27	34	50	40	M12x1	176,70	31668
	BT 50	18	160	33	42	50	40	M12x1	176,70	31868
	BT 50	20	160	33	42	52	42	M16x1	176,70	32068
	BT 50	25	160	44	53	58	48	M16x1	176,70	32568
	BT 50	32	160	44	53	62	52	M16x1	176,70	33268

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

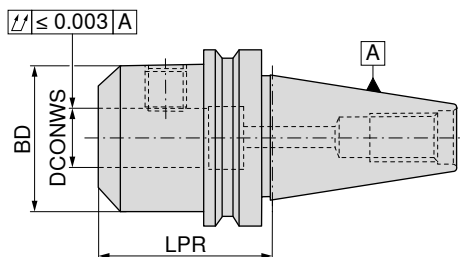
EUR
Y8

Spare parts
DCONWS

6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x16 - SW4	2,46	30200
12 - 14	M10x16 - SW5	2,61	30300
16 - 18	M12x16 - SW6	2,75	30400
20 - 32	M16x16 - SW8	2,89	30500

Cylindrical shank adapter (Weldon)

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



AD
G 2,5 n_{max} 18000



ADe
G 6,3 n_{max} 8000

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

82 501 ...

EUR
Y8

84,68 00600
77,12 00800
77,12 01000
77,12 01200
77,12 01400
77,12 01600
77,12 01800
92,34 02000

82 503 ...

EUR
Y8

67,35 416
67,35 420
72,54 425
89,74 432



Grubscrew

62 950 ...

EUR
W7

Spare parts

DCONWS_{H4}

6	M6x10	0,68	006
8	M8x10	0,79	008
10	M10x12	1,05	010
12 - 14	M12x16	1,06	012
16 - 18	M14x16	1,32	016
20	M16x16	1,60	020
25	M18x2x20	2,93	025
32	M20x2x20	3,24	032

Accessories



Pull studs

→ 111-112

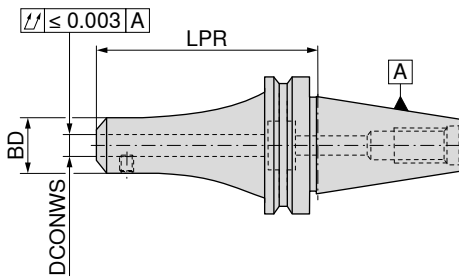


Others

→ 273

Cylindrical shank adapter (Weldon)

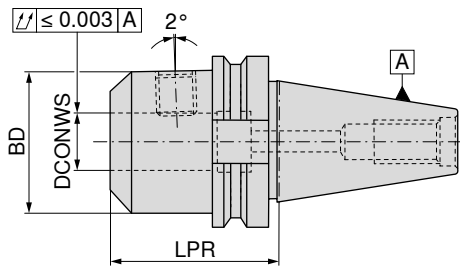
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
▲ also available with Balluff chip **on request**

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

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 501 ...		82 504 ...	
					EUR Y8		EUR Y8	
short	BT 40	6	50	25	42,14	106	59,51	106
	BT 40	8	50	28	42,14	108	59,51	108
	BT 40	10	63	35	39,77	110	57,06	110
	BT 40	12	63	42	39,77	112	57,06	112
	BT 40	14	63	44	39,77	114	57,06	114
	BT 40	16	63	48	43,07	116	64,99	116
	BT 40	18	63	50	43,07	118	64,99	118
	BT 40	20	63	52	43,07	120	64,99	120
	BT 40	25	100	65	47,24	125	69,14	125
	BT 40	32	100	72	51,39	132	76,04	13200
	BT 40	40	120	90	56,21	14000		
	BT 50	6	63	25	57,25	30600	91,63	30600
	BT 50	8	63	28	57,25	30800	91,63	30800
	BT 50	10	80	35	55,64	31000	84,73	31000
	BT 50	12	80	42	59,04	31200	84,73	31200
	BT 50	14	80	44	59,04	31400	84,73	31400
	BT 50	16	80	48	59,04	31600	92,47	31600
	BT 50	18	80	50	59,04	31800	92,47	31800
	BT 50	20	80	52	59,04	32000	92,47	32000
	BT 50	25	100	65	65,65	32500	99,19	32500
	BT 50	32	105	72	66,98	33200	103,90	33200
	BT 50	40	120	90	69,43	34000		
long	BT 40	6	100	25	43,92	506		
	BT 40	8	100	28	43,92	508		
	BT 40	10	100	35	41,47	510		
	BT 40	12	100	42	41,47	512		
	BT 40	14	100	44	41,19	514		
	BT 40	16	100	48	45,54	516		
	BT 40	18	100	50	45,34	518		
	BT 40	20	100	52	45,54	520		
	BT 50	6	100	25	64,14	70600		
	BT 50	8	100	28	64,14	70800		
	BT 50	10	100	35	61,31	71000		
	BT 50	12	100	42	61,31	71200		
	BT 50	14	100	44	61,31	71400		
	BT 50	16	100	48	61,69	71600		
	BT 50	18	100	50	61,69	71800		
	BT 50	20	100	52	61,69	72000		
	BT 50	25	120	65	67,17	72500		
	BT 40	6	160	25	50,54	606		
	BT 40	8	160	28	50,54	608		
	BT 40	10	160	35	47,88	610		
	BT 40	12	160	42	47,88	612		
extra-long	BT 40	14	160	44	47,88	614		
	BT 40	16	160	48	48,08	616		
	BT 40	18	160	50	48,08	618		
	BT 40	20	160	52	48,08	620		
	BT 40	25	160	65	51,39	625		
	BT 50	6	160	25	78,40	80600		
	BT 50	8	160	28	78,40	80800		
	BT 50	10	160	35	78,50	81000		
	BT 50	12	160	35	78,50	81200		
	BT 50	14	160	44	78,50	81400		
	BT 50	16	160	48	78,12	81600		
	BT 50	18	160	50	78,12	81800		
	BT 50	20	160	52	78,12	82000		
	BT 50	25	160	65	78,68	82500		
	BT 50	32	160	72	78,50	83200		

Cylindrical Shank Adapter (Whistle Notch)

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



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

82 507 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	EUR	
					Y8	
short	BT 40	6	50	25	51,96	106
	BT 40	8	50	28	51,96	108
	BT 40	10	63	35	48,17	110
	BT 40	12	63	42	48,17	112
	BT 40	14	63	44	48,17	114
	BT 40	16	63	48	52,89	116
	BT 40	18	63	50	52,89	118
	BT 40	20	63	52	52,89	120
	BT 40	25	100	65	67,26	12500
	BT 40	32	100	72	73,29	13200
	BT 40	40	120	80	85,11	14000
	BT 50	6	63	25	88,69	30600
	BT 50	8	63	28	88,69	30800
	BT 50	10	80	35	84,73	31000
	BT 50	12	80	42	84,73	31200
	BT 50	14	80	44	84,73	31400
	BT 50	16	80	48	85,20	31600
	BT 50	18	80	50	85,20	31800
	BT 50	20	80	52	85,20	32000
	BT 50	25	100	65	92,98	32500
	BT 50	32	105	72	94,46	33200
medium length	BT 40	6	130	25	65,47	206
	BT 40	8	130	28	65,47	208
	BT 40	10	130	35	61,21	210
	BT 40	12	130	42	61,21	212
	BT 40	16	130	48	65,84	216
	BT 40	20	130	52	65,84	220
	BT 40	25	130	65	78,77	225
	BT 50	6	130	25	103,00	90600
	BT 50	8	130	28	103,00	90800
	BT 50	10	130	35	98,26	91000
	BT 50	12	130	42	98,26	91200
	BT 50	16	130	48	98,26	91600
	BT 50	20	130	52	98,26	92000
	BT 50	25	130	65	103,00	92500
	BT 50	32	130	72	103,90	93200

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

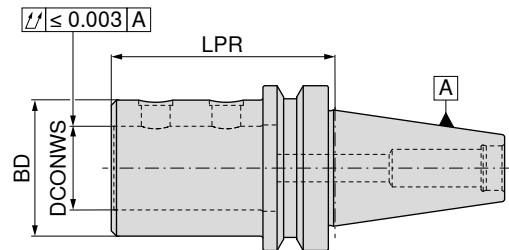
			 Grubscrew		 Stop screw IK	
			62 950 ...		83 950 ...	
Spare parts DCONWS			EUR W7		EUR Y8	
6	M6x10	0,68	006	M5x35	1,88	033
8	M8x10	0,79	008	M6x35	1,55	034
10	M10x12	1,05	010	M8x35	1,68	035
12 - 14	M12x16	1,06	012	M10x35	1,68	036
16 - 18	M14x16	1,32	016	M12x40	2,06	037
20	M16x16	1,60	020	M16x45	2,32	272
25	M18x2x20	2,93	025	M20x35	2,58	290
32	M20x2x20	3,24	032	M20x35	2,58	290
40	M20x2x20	3,24	032			

Accessories

			
Pull studs		Others	
→ 111–112		→ 273	

Indexable insert drill adapter ISO 7388-2 MAS-BT

▲ also available with Balluff chip on request



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

10 841 ...

Adapter	DCONWS mm	LPR mm	BD mm		
BT 40	20	75	40		
BT 40	25	80	45		
BT 40	32	85	52		
BT 50	20	85	40		
BT 50	25	90	45		
BT 50	32	95	52		
BT 50	40	105	65		
BT 50	50	113	75		
				EUR	
				2E/45	
				133,20	120
				133,20	125
				133,20	132
				169,20	220
				169,20	225
				169,20	232
				169,20	240
				169,20	250

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



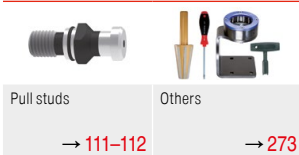
Grubscrew

10 950 ...

Spare parts

DCONWS			EUR	
20	M10x1x10	3,96	001	
25 - 32	M12x1x10	4,03	002	
40 - 50	M16x1x12	4,03	003	

Accessories



Pull studs

Others

→ 111-112

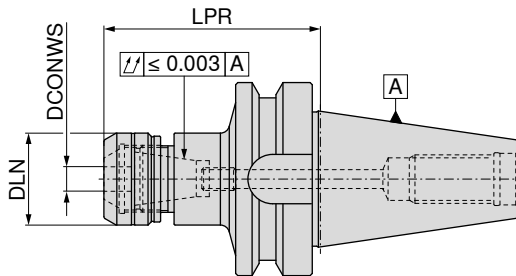
→ 273

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



NEW



AD/B

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

82 700 ...

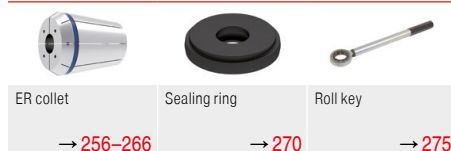
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	EUR Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	92,45	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	133,20	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	92,45	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	133,20	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	92,45	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	133,20	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	174,20	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	216,30	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	174,20	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	216,30	22068



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	EUR Y8	EUR Y8	EUR Y8	EUR Y8
Spare parts for collet				
426E (ER16)	35,14 11000	33,11 01000		M8X3,0 3,31 00100
430E (ER25)	35,14 11600	33,11 01600	M18x1,5 4,50 00200	M8x8 3,31 00300
470E (ER32)	35,14 12000	33,11 02000	M18x1,5 4,50 00200	M8x8 3,31 00300

Accessories



→ 256-266

→ 270

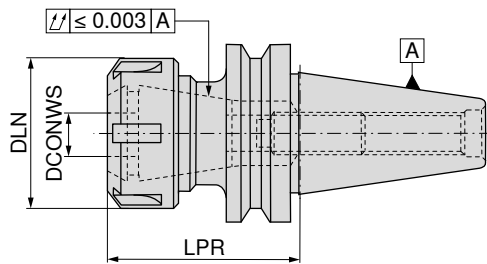
→ 275

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop

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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet			
short	BT 30	1 - 10	70	32	56	426E (ER16)			
	BT 30	1 - 16	70	42	104	430E (ER25)			
	BT 30	2 - 20	70	50	136	470E (ER32)			
	BT 40	1 - 10	60	32	56	426E (ER16)			
	BT 40	1 - 16	70	42	104	430E (ER25)			
	BT 40	2 - 20	70	50	136	470E (ER32)			
	BT 40	3 - 26	70	63	176	472E (ER40)			
	BT 50	1 - 10	75	32	56	426E (ER16)			
	BT 50	1 - 16	75	42	104	430E (ER25)			
	BT 50	2 - 20	75	50	136	470E (ER32)			
	BT 50	4 - 26	75	63	176	472E (ER40)			
	BT 30	1 - 10	100	32	56	426E (ER16)			
	BT 30	1 - 16	100	42	104	430E (ER25)			
long									
	BT 40	1 - 10	120	32	56	426E (ER16)			
	BT 40	1 - 16	120	42	104	430E (ER25)			
	BT 40	2 - 20	120	50	136	470E (ER32)			
	BT 40	3 - 26	100	63	176	472E (ER40)			
	BT 50	1 - 10	100	32	56	426E (ER16)			
	BT 50	1 - 16	100	42	104	430E (ER25)			
	BT 50	2 - 20	100	50	136	470E (ER32)			
	BT 50	3 - 26	100	63	176	472E (ER40)			
extra-long	BT 40	1 - 10	160	32	56	426E (ER16)			
	BT 40	1 - 16	160	42	104	430E (ER25)			
	BT 40	2 - 20	160	50	136	470E (ER32)			
	BT 40	3 - 26	160	63	176	472E (ER40)			
	BT 50	1 - 16	160	42	104	430E (ER25)			
	BT 50	2 - 20	160	50	136	470E (ER32)			

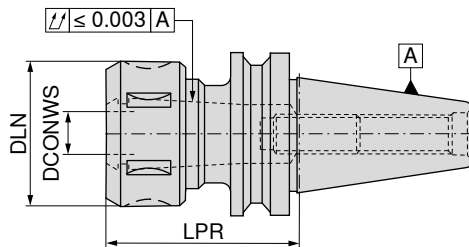
Spare parts
for collet

426E (ER16) / BT30-BT50
 430E (ER25) / BT30
 430E (ER25) / BT40, BT50
 470E (ER32) / BT30
 470E (ER32) / BT40, BT50
 472E (ER40) / BT30-BT50

	Lock nut		Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
EUR Y8	EUR W7	EUR Y8	EUR Y8
31,54 054	18,35 054	16,52 116	
35,76 055	20,52 055	18,25 125	2,06 010
35,76 055	20,52 055	18,25 125	2,06 010
38,06 056	19,12 056	24,84 132	2,06 010
38,06 056	19,12 056	24,84 132	2,06 010
44,88 057	18,58 057	27,33 140	2,32 011

OZ-Collet chuck

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



AD
G 2,5 n_{max} 18000



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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	2 - 16	60	43	24 - 104	415E / 421E		
	BT 30	2 - 25	80	60	24 - 176	459E / 462E		
	BT 40	2 - 16	70	43	80 - 90	415E / 421E		
	BT 40	2 - 25	70	60	90 - 100	459E / 462E		
	BT 50	2 - 25	90	60	90 - 100	459E / 462E		
	BT 50	4 - 32	100	72	110 - 120	460E / 467E		
long	BT 40	2 - 16	120	43	80 - 90	415E / 421E		
	BT 40	2 - 25	120	60	90 - 100	459E / 462E		
	BT 50	2 - 25	120	60	90 - 100	459E / 462E		
	BT 50	4 - 32	120	72	110 - 120	460E / 467E		

82 512 ...

EUR Y8

92,45 02500

97,20 03500

82 512 ...

EUR Y8

73,68 116

76,99 125

91,35 32500

95,39 33200

78,31 416

81,43 425

94,46 72500

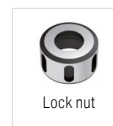
103,90 73200

Spare parts for collet

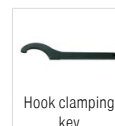
		EUR W7		EUR Y8		EUR Y8	
415E / 421E	M33x1,5	32,51	050	8,08	116	2,06	010
459E / 462E	M48x2	35,75	051	11,01	125	2,06	010
460E / 467E	M60x2,5	44,71	052	12,32	132	2,32	011

Accessories

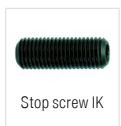
OZ Collet	Pull studs	Others
→ 268	→ 111-112	→ 273



Lock nut



Hook clamping
key



Stop screw IK

62 950 ...

EUR W7

32,51 050

35,75 051

44,71 052

83 354 ...

EUR Y8

8,08 116

11,01 125

12,32 132

83 950 ...

EUR Y8

2,06 010

2,06 010

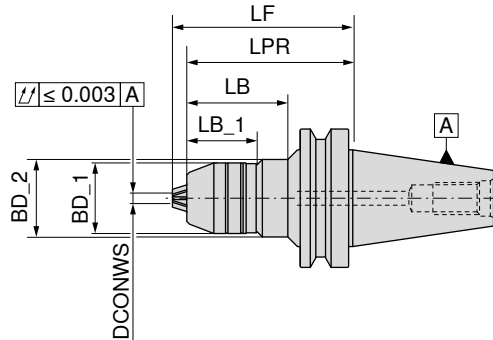
2,32 011

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 ...

EUR
Y8

222,50 413

227,80 416

302,40 516



AD
G 6,3 n_{max} 10000

84 510 ...

EUR
Y8

225,80 413

245,10 416

325,10 516



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

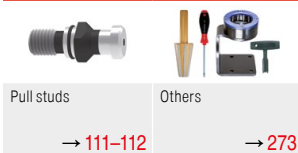
84 511 ...

EUR
Y8

256,00 413

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm
BT 40	0,5 - 13	48,5		50,9		80	89,0
BT 40	0,5 - 13	48,5		50,9		90	99,0
BT 40	2,5 - 16	51,0		50,9		80	90,5
BT 50	2,5 - 16	51,0	56	50,9	73	120	130,5

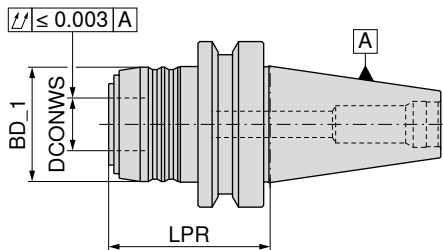
Accessories



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

Synchro tapping chuck with minimum length compensation

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



AD

83 515 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	
BT 40	M3 - M12	1	61	43	20	1,0 / 0,2	
BT 40	M6 - M20	2	82	60	32	1,0 / 0,2	
BT 50	M3 - M12	1	72	43	20	1,0 / 0,2	
BT 50	M6 - M20	2	93	60	32	1,0 / 0,2	

EUR

Y8

166,40

216,00

180,40

277,60

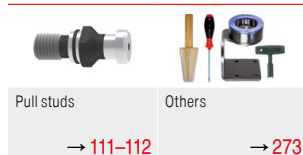
012

020

112

120

Accessories



Pull studs

Others

→ 111-112

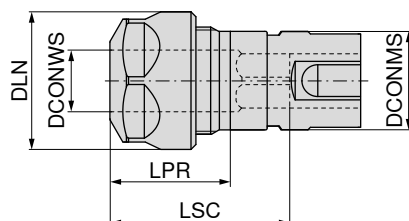
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

EUR

Y8

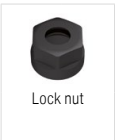
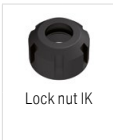
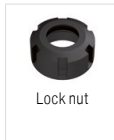
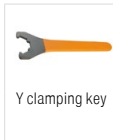
113,40

131,70

012

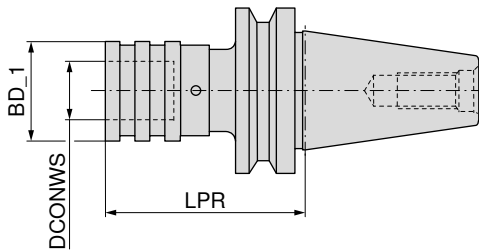
020

Spare parts for synchronous tapping chucks

				
	Lock nut	Lock nut IK	Lock nut	Y clamping key
	62 950 ...	83 950 ...	62 950 ...	83 357 ...
Spare parts for Article no.	EUR W7	EUR Y8	EUR W7	EUR Y8
83 608 012	M22x1,5 - SW25 18,35 044	M22x1,5 31,54 054		16,52 116
83 608 020		M32x1,5 35,76 055	M32x1,5 20,52 055	18,25 125

Quick change tap chuck with length compensation

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



A

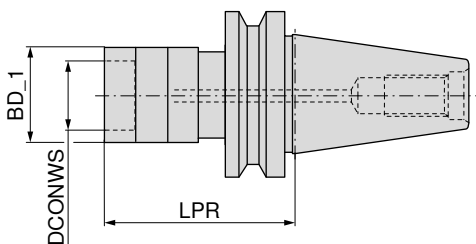
83 528 ...

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

EUR
Y8312
320184,80
195,50412
420312,10
359,60512
520

Quick change tap chuck without length compensation

- ▲ Without length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



AD

83 525 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm		
BT 40	M3 - M12	01	67	33	19		
BT 40	M6 - M20	02	90	50	31		
BT 50	M3 - M12	01	78	33	19		
BT 50	M6 - M20	02	101	50	31		

EUR
Y8412
420168,50
174,00512
520

Accessories

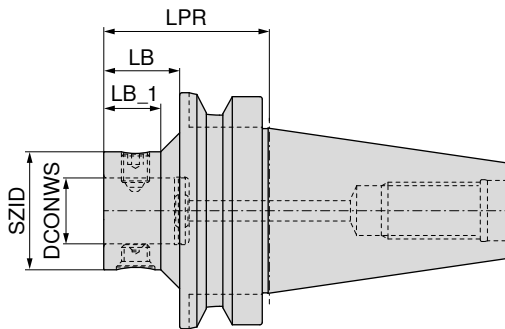
		
Collet	Pull studs	Others
→ 277-281	→ 111-112	→ 273

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



AD



AD/B

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 202 ...		84 212 ...	
							EUR 3E		EUR 3E	
BT 40	A55 00120	ABS 25	13	60	33	25	210,00	04090		
BT 40	A55 00130	ABS 32	16	60	33		210,00	04089		
BT 40	A55 00140	ABS 40	20	60	33		210,00	04088		
BT 40	A55 00150	ABS 50	28	60	33		210,00	04097		
BT 40	A55 55150	ABS 50	28	60	33				210,00	04097
BT 40	A55 00160	ABS 63	34	70			210,00	04096		
BT 40	A55 55160	ABS 63	34	70					210,00	04096
BT 50	A55 00330	ABS 32	16	70	32	24	236,80	05089		
BT 50	A55 00340	ABS 40	20	70	32	24	236,80	05088		
BT 50	A55 00350	ABS 50	28	70	32	24	236,80	05097		
BT 50	A55 55350	ABS 50	28	70	32	24			236,80	05097
BT 50	A55 55360	ABS 63	34	80	42	37			236,80	05096
BT 50	A55 00360	ABS 63	34	80	42	37	236,80	05096		
BT 50	A55 55370	ABS 80	46	100	62				236,80	05092
BT 50	A55 00370	ABS 80	46	100	62		236,80	05092		
BT 50	A55 55380	ABS 100	56	110					236,80	05091
BT 50	A55 00380	ABS 100	56	110			236,80	05091		

Conversion kit – Cooling agent supply



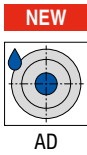
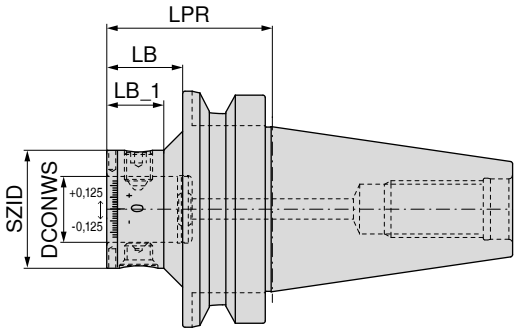
		84 950 ...	
for		EUR W7	
4 mm	SK 40	5,13	23200
6 mm	SK 50	5,13	23400

Eccentric adjuster with ABS Connection

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

Scope of supply:

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



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm
BT 40	A55 56150	ABS 50	28	60	33	
BT 40	A55 56160	ABS 63	34	70		
BT 50	A55 56350	ABS 50	28	70	32	24
BT 50	A55 56360	ABS 63	34	80	42	37

84 205 ...
EUR W4
422,50 04096
450,10 05096

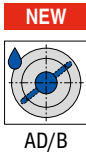
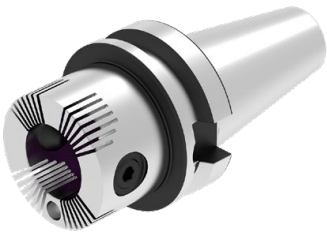
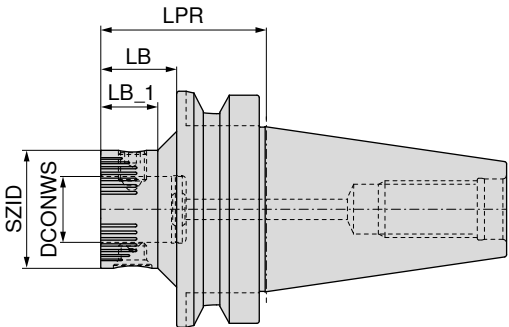
84 205 ...
EUR W4
422,50 04097
450,10 05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



84 208 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm		
BT 40	A55 02150	ABS 50	28	60	33		EUR 3E	
BT 40	A55 02160	ABS 63	34	70			612,80	04097
							608,00	04096
BT 50	A55 02350	ABS 50	28	70	32	24	676,30	05097
BT 50	A55 02360	ABS 63	34	80	42	37	734,90	05096

Spare parts

SZID							
ABS 50	12,82	20300	29,20	99800	16,43	20400	
ABS 63	14,11	25500	31,57	99400	17,61	27300	

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
EUR XX	EUR XX	EUR XX
12,82 20300	29,20 99800	16,43 20400
14,11 25500	31,57 99400	17,61 27300

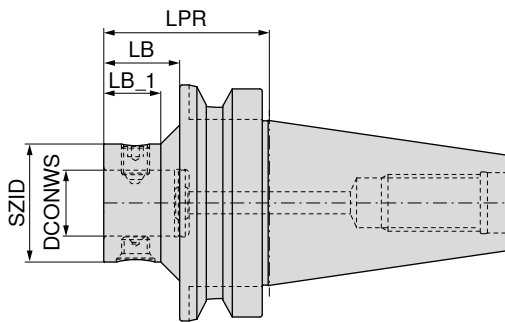
Accessories

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

Adapter with ABS Connection – BT-FC

▲ with face contact

▲ also available with Balluff chip on request



84 214 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm		
BT-FC 40	A55 57121	ABS 25	13	60	33	25		
BT-FC 40	A55 57131	ABS 32	16	60	33			
BT-FC 40	A55 57141	ABS 40	20	60	33			
BT-FC 40	A55 57151	ABS 50	28	60	33			
BT-FC 40	A55 57161	ABS 63	34	70				
BT-FC 50	A55 57331	ABS 32	16	70		24		
BT-FC 50	A55 57341	ABS 40	20	70		24		
BT-FC 50	A55 57351	ABS 50	28	70		24		
BT-FC 50	A55 57361	ABS 63	34	80		37		
BT-FC 50	A55 57371	ABS 80	46	100	60			
BT-FC 50	A55 57381	ABS 100	56	110				

EUR
3E

625,10 04090
629,90 04089
637,30 04088
581,10 04097
671,40 04096

815,50 05089
830,10 05088
864,30 05097
901,00 05096
949,80 05092
1.011,00 05091

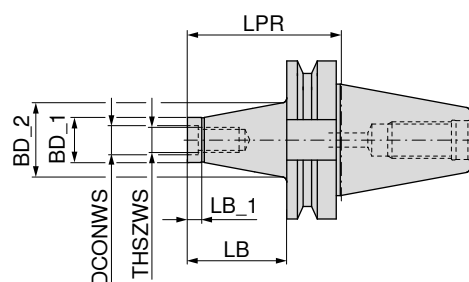
Spare parts

SZID									
ABS 25									
ABS 32									
ABS 40									
ABS 50									
ABS 63									
ABS 80									
ABS 100									

Clamping screw	Clamping screw	Set	Taper screw
62 950 ...	84 950 ...	84 950 ...	84 950 ...
EUR XX	EUR XX	EUR XX	EUR XX
9,84 13989	9,84 26800	24,15 99700	14,42 27000
	10,97 26900	24,15 99600	14,42 27100
	12,82 20300	25,65 99500	14,78 27200
	14,11 25500	29,20 99800	16,43 20400
	14,11 25500	31,57 99400	17,61 27300
	15,97 25600	35,48 99300	19,67 25100
	18,90 25700	39,55 99200	20,70 25200

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm		
BT 40	M8	8,5	25	13,8	15	12	52		
BT 40	M8	8,5	50	13,8	23	12	77		
BT 40	M8	8,5	75	13,8	25	12	102		
BT 40	M10	10,5	25	18,0	23	12	52		
BT 40	M10	10,5	50	18,0	25	12	77		
BT 40	M10	10,5	75	18,0	30	12	102		
BT 40	M12	12,5	25	21,0	24	12	52		
BT 40	M12	12,5	50	21,0	30	12	77		
BT 40	M12	12,5	75	21,0	35	12	102		
BT 40	M12	12,5	100	21,0	38	12	127		
BT 40	M16	17,0	25	29,0	29	12	52		
BT 40	M16	17,0	50	29,0	34	12	77		
BT 40	M16	17,0	75	29,0	35	12	102		
BT 40	M16	17,0	100	29,0	40	12	127		

EUR
WA

081

98,18

082

105,20

083

113,40

98,18

101

105,20

102

113,40

103

98,18

121

105,20

122

113,40

123

122,10

124

98,18

161

105,20

162

113,40

163

122,10

164

Accessories

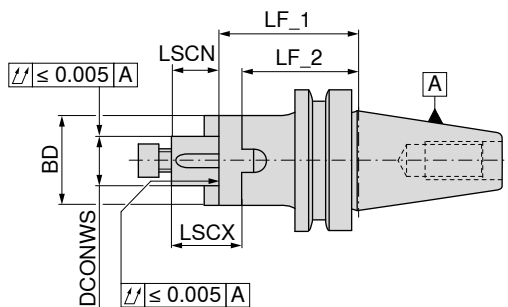
Extension-Reduction set → 245	Pull studs → 111-112	Others → 273

Combination shell mill adapter

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

Scope of supply:

Toolholder with retaining screw, driving ring and dowel spring



A
G 2,5 n_{max} 18000



A
G 6,3 n_{max} 8000

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

1) With cross screw

Spare parts

DCONWS	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
16	1,68	284	10,21	116	11,01	116	3,33	016	2,97	113
22	1,68	285	11,34	122	13,72	122	3,65	022	3,43	124
27	3,24	286	12,20	127	17,60	127	4,67	027	3,78	125
32	1,93	287	14,58	132	22,68	132	7,50	032	4,70	126
40	2,06	288	21,70	140	31,65	140	11,89	040	6,67	112

Accessories

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

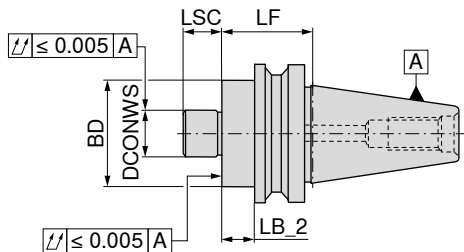
Parallel key	Drive ring	Cross nut key	Retaining screw	clamping screw
83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
EUR Y8	EUR Y8	EUR Y8	EUR Y8	EUR Y8
1,68	10,21	11,01	3,33	2,97
284	116	116	016	113
1,68	11,34	13,72	3,65	3,43
285	122	122	022	124
3,24	12,20	17,60	4,67	3,78
286	127	127	027	125
1,93	14,58	22,68	7,50	4,70
287	132	132	032	126
2,06	21,70	31,65	11,89	6,67
288	140	140	040	112

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw



A
G 2,5 n_{max} 18000



AD
G 6,3 n_{max} 8000



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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	82 514 ...		82 514 ...		82 514 ...	
							EUR		EUR		EUR	
short	BT 30	16	18	40	38	17	Y8		Y8		Y8	
	BT 30	22	18	40	48	19	79,60	01600				
	BT 30	27	18	50	58	21	79,60	02200				
	BT 30	32	28	50	78	24	84,68	02700				
							92,88	03200				
	BT 40	16	25	52	38	17					58,18	116
	BT 40	22	25	52	48	19					61,59	122
	BT 40	27	25	52	58	21					62,81	127
	BT 40	32	23	50	78	24					66,13	132
	BT 40	40	23	50	88	27					71,89	140 ¹⁾
	BT 50	16	25	63	38	17			76,90	316		
	BT 50	22	25	63	48	19			78,77	322		
	BT 50	27	25	63	58	21			81,43	327		
	BT 50	32	22	60	78	24			83,69	332		
	BT 50	40	22	60	88	27			84,83	340 ¹⁾		
long	BT 40	16	73	100	38	17					60,17	416
	BT 40	22	73	100	48	19					62,16	422
	BT 40	27	73	100	58	21					63,19	427
	BT 40	32	73	100	78	24					66,22	432
	BT 40	40	73	100	88	27					69,43	440 ¹⁾
	BT 50	16	62	100	38	17			84,07	616		
	BT 50	22	62	100	48	19			86,06	622		
	BT 50	27	62	100	58	21			88,60	627		
	BT 50	32	62	100	78	24			91,35	632		
	BT 50	40	62	100	88	27			93,35	640 ¹⁾		
medium length	BT 40	16	103	130	38	17					63,95	816
	BT 40	22	103	130	48	19					66,13	822
	BT 40	27	103	130	58	21					67,17	827
	BT 40	32	103	130	78	24					70,38	832
	BT 40	40	103	130	88	27					73,49	840 ¹⁾
	BT 50	16	92	130	38	17			89,64	916		
	BT 50	22	92	130	48	19			91,63	922		
	BT 50	27	92	130	58	21			94,37	927		
	BT 50	32	92	130	78	24			97,34	932		
	BT 50	40	92	130	88	27			99,19	940 ¹⁾		
extra-long	BT 40	16	133	160	38	17					66,13	516
	BT 40	22	133	160	48	19					68,29	522
	BT 40	27	133	160	58	21					69,24	527
	BT 40	32	133	160	78	24					72,45	532
	BT 40	40	133	160	88	27					75,48	540 ¹⁾
	BT 50	16	122	160	38	17			92,89	716		
	BT 50	22	122	160	48	19			94,46	722		
	BT 50	27	122	160	58	21			97,34	727		
	BT 50	32	122	160	78	24			100,10	732		
	BT 50	40	122	160	88	27			102,10	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

											
			Cross nut key			Retaining screw			clamping screw		
			83 368 ...			83 367 ...			83 950 ...		
Spare parts			EUR			EUR			EUR		
DCONWS			Y8			Y8			Y8		
16			11,01	116	M8	3,33	016	M8x25	2,97	113	
22			13,72	122	M10	3,65	022	M10x25	3,43	124	
27			17,60	127	M12	4,67	027	M12x30	3,78	125	
32			22,68	132	M16	7,50	032	M16x35	4,70	126	
40			31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112	
											
						Screw for drivers			Driver		
						83 950 ...			83 950 ...		
Spare parts			EUR			EUR			EUR		
DCONWS			Y8			Y8			Y8		
16					M3x8	0,39	296	8x9x17,5	7,45	120	
22					M4x12	0,49	297	10x11x20,5	7,71	121	
27					M5x12	0,59	136	12x13x24,3	8,73	122	
32					M5x20	0,66	137	14x21x21,2	9,00	123	
40					M6x16	0,77	138	15,9x16,3x19,5	11,56	295	

Accessories

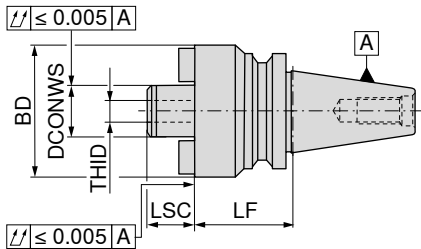
		
Pull studs	Extensions	Others
→ 111-112	→ 252	→ 273

Large diameter facemill adapter

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

Scope of supply:

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



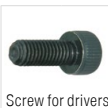
A

82 519 ...

EUR
Y8

137,90 240
167,30 260

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



Screw for drivers



Driver



Socket head
screw



clamping screw

Spare parts

DCONWS

DCONWS	M6x16	15,9x16,3x19,5	25,4x16,3x26,5	M12x30 - SW10	M12x50	M16x45
40	0,77	11,56	15,01	8,87	3,76	9,58
60						

Accessories



Pull studs



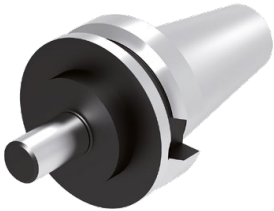
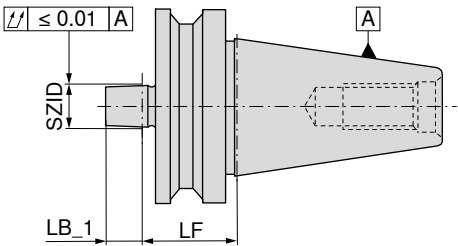
Others

→ 111-112

→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

82 513 ...

EUR
Y8

73,54 01200
73,54 01600

45,63 112
45,63 116
52,92 11800

69,24 216
69,24 218

Adapter	SZID	LF mm	LB_1 mm
BT 30	B12	25	18,5
BT 30	B16	25	24,0
BT 40	B12	40	18,5
BT 40	B16	40	24,0
BT 40	B18	32	32,0
BT 50	B16	50	24,0
BT 50	B18	50	32,0



Drill chuck



Drill chuck

83 636 ...

EUR
Y8

90,84 012
128,50 016

0 - 8 mm
1 - 13 mm

83 636 ...

EUR
Y8

107,10 112
108,10 116
137,20 018

0 - 10 mm
3 - 16 mm
3 - 16 mm

Spare parts

SZID

B12
B16
B18

Accessories



Pull studs



Others

→ 111-112

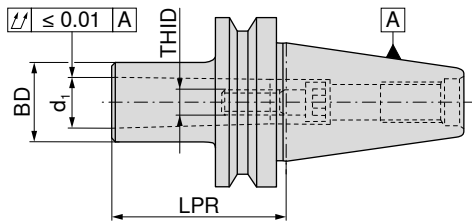
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

▲ also available with Balluff chip on request

Scope of supply:

Holder with retaining screw

AD
G 6,3 n_{max} 8000

82 527 ...

	Adapter	d ₁	LPR mm	BD mm	THID	EUR	
						Y8	
short	BT 40	MK1	50	25	M6	70,85	01000
	BT 40	MK2	55	32	M10	70,85	02000
	BT 40	MK3	70	40	M12	58,18	030
	BT 40	MK4	95	48	M16	60,46	040
	BT 50	MK1	45	25	M6	82,09	210
	BT 50	MK2	60	32	M10	81,24	220
	BT 50	MK3	65	40	M12	81,24	230
	BT 50	MK4	95	48	M16	84,16	240
	BT 50	MK5	118	63	M20	95,39	250

Morse taper
clamping screw

Counterscrew

Hollow key with
nose

Fixing ring

		83 950 ...		83 950 ...		83 359 ...		83 950 ...				
Spare parts for Article no.		EUR		EUR		EUR		EUR				
		Y8		Y8		Y8		Y8				
82 527 01000	M6x30	0,71	260	M5x6	0,49	030	16 x 32	19,00	013	M16x8x6,5	6,57	265
82 527 02000	M10x30	1,21	261	M5x6	0,49	030	16 x 32	19,00	013	M16x8x10,5	6,57	267
82 527 030	M12x35	0,89	018	M5x6	0,49	030	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 527 040	M16x40	2,82	019	M5x6	0,49	030	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 527 210	M6x30	0,71	260	M5x8	0,49	031	20 x 135	22,58	020	M24x10x6,5	7,56	266
82 527 220	M10x30	0,89	017	M5x8	0,49	031	20 x 135	22,58	020	M24x10x10,5	7,56	268
82 527 230	M12x35	0,89	018	M5x8	0,49	031	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 527 240	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 527 250	M20x50	7,09	262	M5x8	0,49	031	33 x 175	32,29	033	M36x1,5x21	11,12	271

Accessories



Pull studs



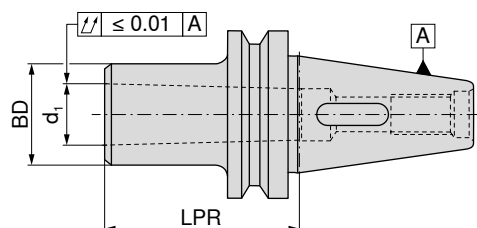
Others

→ 111–112

→ 273

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

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



AD

G 6,3 n_{max} 8000**82 525 ...**

Adapter	d ₁	LPR mm	BD mm	EUR	
BT 30	MK1	50	25	75,60	01000
BT 30	MK2	60	32	75,60	02000
BT 30	MK3	77	40	82,19	03000
BT 40	MK1	50	25	51,20	110
BT 40	MK2	50	32	51,20	120
BT 40	MK3	70	40	54,69	130
BT 40	MK4	95	48	57,06	140
BT 50	MK1	45	25	70,00	210
BT 50	MK2	60	32	72,45	220
BT 50	MK3	65	40	72,45	230
BT 50	MK4	95	48	74,81	240
BT 50	MK5	105	63	81,34	250

Accessories

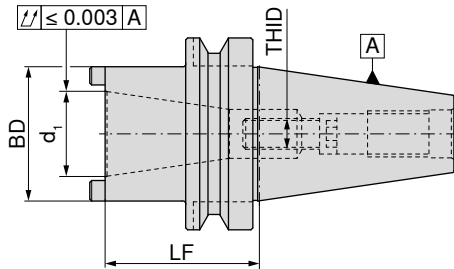
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 111–112	→ 273

Milling adapter sleeve

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

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A

82 518 ...

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

EUR

Y8

123,20

123,20

131,20

10600

11000

250

Spare parts for Article no.

	82 518 10600	82 518 11000	82 518 250
Clamping screw SK	EUR Y8 6,02	EUR Y8 5,36	EUR Y8 6,02
Morse taper clamping screw	EUR Y8 0,09	EUR Y8 18400	EUR Y8 0,09
Counterscrew	EUR Y8 0,49	EUR Y8 0,49	EUR Y8 0,49
Hollow key with nose	EUR Y8 21,50	EUR Y8 26,03	EUR Y8 26,03
Fixing ring	EUR Y8 0,17	EUR Y8 0,23	EUR Y8 0,23
	EUR Y8 6,58	EUR Y8 8,55	EUR Y8 8,55
	EUR Y8 18500	EUR Y8 270	EUR Y8 270

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

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

Accessories

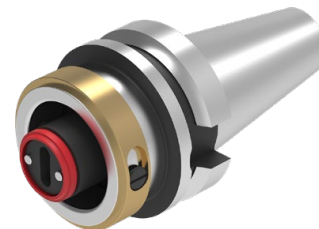
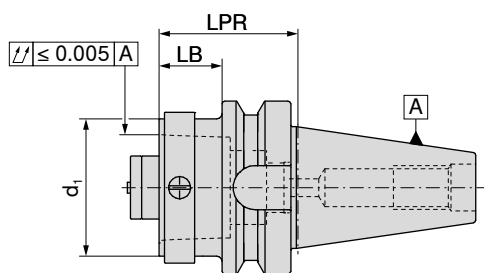
Pull studs	Others
→ 111–112	→ 273

BT/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



NEW



AD

84 016 ...

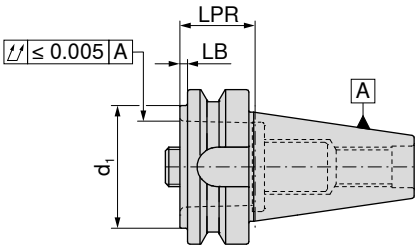
Adapter	d ₁	LB mm	LPR mm	EUR Y8	
BT 40	HSK-A 32	13	40	510,80	04060
BT 40	HSK-A 40	13	40	520,40	04059
BT 40	HSK-A 50	23	50	529,80	04058
BT 40	HSK-A 63	43	70	520,40	04057
BT 50	HSK-A 32	12	50	643,80	05060
BT 50	HSK-A 40	12	50	643,80	05059
BT 50	HSK-A 50	22	60	662,70	05058
BT 50	HSK-A 63	22	60	700,60	05057
BT 50	HSK-A 100	52	90	795,70	05055

BT/PSC adapter

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

Scope of supply:

with tightening screw



NEW



AD

84 017 ...

Adapter	d ₁	LB mm	LPR mm	EUR Y8	
BT 40	PSC 32	3	30	330,30	04087
BT 40	PSC 40	3	30	339,90	04095
BT 40	PSC 50	3	30	339,90	04094
BT 40	PSC 63	58	85	330,30	04093
BT 50	PSC 32	2	40	453,70	05087
BT 50	PSC 40	2	40	529,80	05095
BT 50	PSC 50	2	40	463,30	05094
BT 50	PSC 63	2	40	482,30	05093
BT 50	PSC 80	32	70	501,30	05086

Spare parts DCONWS

	EUR Y8			EUR Y8	
22	26,46	127	SW8	19,12	122
28	26,46	128	SW8	21,60	123
35	26,46	129	SW10	21,60	124
44	52,82	130	SW14	24,19	126
55	52,82	130	SW14	24,19	126



Threaded ring



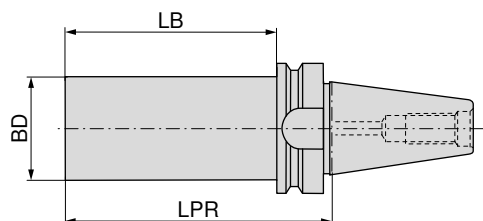
tightening screw

84 950 ...

84 950 ...

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 ...

EUR
Y8

82 523 ...

EUR
Y8

67,82 040

120,00 050

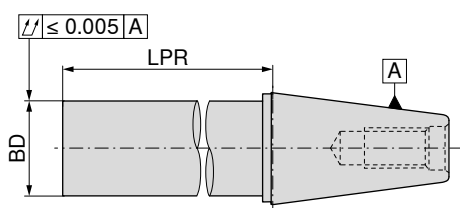
Adapter	BD mm	LPR mm	LB mm
BT 40	63,0	250	223
BT 50	63,5	300	262

Test bar

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

Scope of supply:

in wooden box



A

82 456 ...

EUR
Y8

295,70 040

364,60 050

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

Accessories



Pull studs

→ 58, 111–112



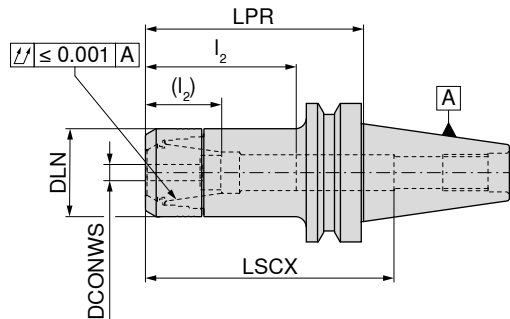
Others

→ 273

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

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

Scope of supply:

Holder **without** nut, **without** backstopAD
G 2,5 $n_{\max}$ 25000

84 525 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	154,60	002
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	169,00	00400
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	194,20	00600
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	154,50	012
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	154,50	022
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	157,70	102
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	161,60	10400
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	206,80	10600
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	161,60	11400
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	157,70	112
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	221,50	11600
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	157,70	122
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	161,60	12400
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	221,50	12600



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

Spare parts for Article no.	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
84 525 002	36,25	011	28,99	001	14,50	341	10,23	337
84 525 012	39,37	013	32,09	003	16,38	432	11,76	431
84 525 022	41,44	015	34,14	005	16,38	402	11,76	401
84 525 102	36,25	011	28,99	001	14,50	341	10,23	337
84 525 112	39,37	013	32,09	003	16,38	432	11,76	431
84 525 122	41,44	015	34,14	005	16,38	402	11,76	401

Accessories

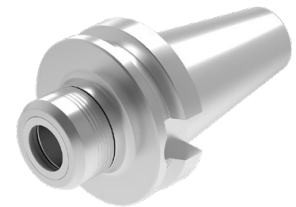
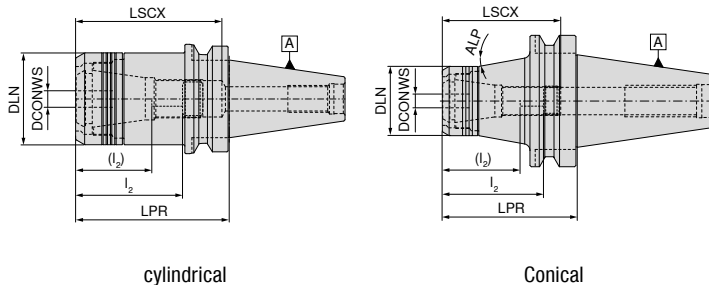
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–266	→ 269	→ 275	→ 275	→ 111–112	→ 273

ER precision collet chuck – HDC – BT-FC

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

Scope of supply:

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



NEW



AD

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

cylindrical

NEW



AD

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

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8	84 400 ... EUR Y8
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	262,70	12064
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)	269,90	22064
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)		437,80 12063
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)		441,90 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 ... EUR Y8 54,59 30100	83 950 ... EUR Y8 16,38 402	83 950 ... EUR Y8 11,76 401

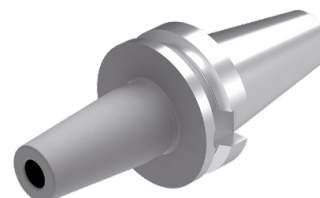
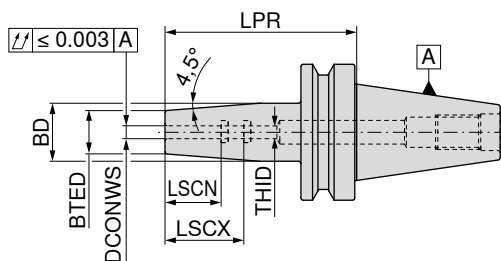
Accessories

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

Shrink fit adapters 4.5° – BT-FC

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

TG

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

84 325 ...

EUR
Y8

003

84 325 ...

EUR
Y8

004

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	BT-FC 30	3	85	10	17	28	12	M6	149,00	003
	BT-FC 30	4	85	15	22	28	16	M6	149,00	004
	BT-FC 30	5	85	15	22	30	20	M6	149,00	005
	BT-FC 30	6	85	21	27	36	26	M5	149,00	006
	BT-FC 30	8	85	21	27	36	26	M6	149,00	008
	BT-FC 30	10	85	24	32	41	31	M8x1	149,00	010
	BT-FC 30	12	85	24	32	47	37	M10x1	149,00	012
	BT-FC 30	16	85	27	34	50	40	M12x1	149,00	016
	BT-FC 30	20	85	33	42	52	42	M16x1	149,00	020
	BT-FC 40	3	90	10	17	28	12	M6		
	BT-FC 40	4	90	15	22	28	16	M6	131,70	103
	BT-FC 40	5	90	15	22	30	20	M6	131,70	104
	BT-FC 40	6	90	21	27	36	26	M5	131,70	105
	BT-FC 40	8	90	21	27	36	26	M6	131,70	106
	BT-FC 40	10	90	24	32	41	31	M8x1	131,70	108
	BT-FC 40	12	90	24	32	47	37	M10x1	131,70	110
	BT-FC 40	16	90	27	34	50	40	M12x1	131,70	112
	BT-FC 40	20	90	33	42	52	42	M16x1	131,70	116
	BT-FC 40	25	100	44	53	58	48	M16x1	131,70	120
									131,70	125

Spare parts
DCONWS

3 - 5
6
8
10
12
16
20 - 25

83 950 ...

EUR
Y7

8,35 417

83 950 ...

EUR
Y7

8,35 418

M5x12,5 - SW2,5	8,35	418
M6x12,5 - SW3	8,35	419
M8x1x13,5 - SW3	8,35	420
M10x1x13,5 - SW5	8,35	421
M12x1x13,5 - SW5	8,35	422
M16x1x13,5 - SW8	9,62	424

Accessories

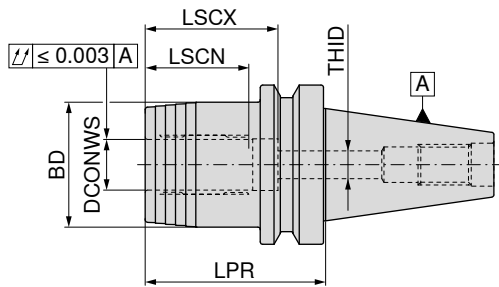
Shrink fit extension	Pull studs	Others
→ 235	→ 111-112	→ 273

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

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

83 527 ...

EUR

Y8

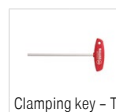
265,70

120

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

Spare parts for Article no.

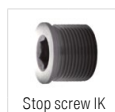
83 527 120	SW5	80 397 ...	EUR Y7 4,37	050	M10x1x10	83 950 ...	EUR Y7 12,20	158	M8x1x13,5 - SW3	83 950 ...	EUR Y7 8,35	420
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Clamping key – T



Pressure screw



Stop screw IK

Accessories

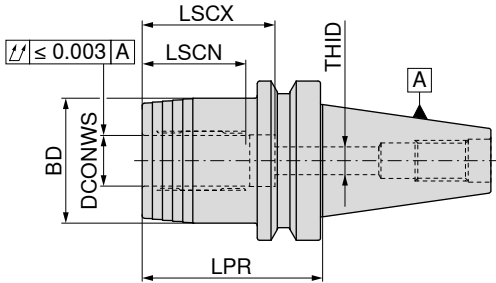
Reduction sleeve	Pull studs	Others
→ 271	→ 111–112	→ 273

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

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

84 518 ...

EUR

Y8

239,80

120

319,70

332

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



Pressure screw



Stop screw IK

83 950 ...

EUR

Y7

5,64

440

83 950 ...

EUR

Y7

9,62

424

Spare parts

DCONWS

20 - 32

M10x1x12

M16x1x13,5 - SW8

Accessories



Reduction sleeve



Pull studs



Others

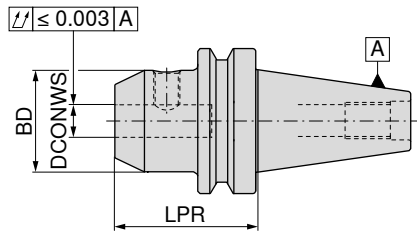
→ 271

→ 111-112

→ 273

Cylindrical shank adapter (Weldon) – BT-FC

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



AD
G 2,5 n_{max} 25000

84 552 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
					EUR	
short	BT-FC 30	6	50	25	77,44	006
	BT-FC 30	8	50	28	77,44	008
	BT-FC 30	10	50	35	77,44	010
	BT-FC 30	12	50	42	77,44	012
	BT-FC 30	16	63	48	83,05	016
	BT-FC 30	20	63	52	83,05	020
	BT-FC 40	6	50	25	98,18	106
	BT-FC 40	8	50	28	94,94	108
	BT-FC 40	10	63	35	94,94	110
	BT-FC 40	12	63	42	94,94	112
	BT-FC 40	16	63	48	94,94	116
	BT-FC 40	20	63	52	94,94	120
	BT-FC 40	25	90	65	126,40	125
	BT-FC 40	32	100	72	126,40	132
	BT-FC 50	6	63	25	145,90	306
	BT-FC 50	8	63	28	141,50	308
	BT-FC 50	10	63	35	141,50	310
	BT-FC 50	12	80	42	141,50	312
	BT-FC 50	16	80	48	141,50	316
	BT-FC 50	20	80	52	141,50	320
	BT-FC 50	25	100	65	162,00	325
	BT-FC 50	32	105	72	162,00	332



Grubscrew

62 950 ...

Spare parts

DCONWS_{H4}

		EUR	
		W7	
6	M6x10	0,68	006
8	M8x10	0,79	008
10	M10x12	1,05	010
12	M12x16	1,06	012
16	M14x16	1,32	016
20	M16x16	1,60	020
25	M18x2x20	2,93	025
32	M20x2x20	3,24	032

Accessories



Pull studs

→ 111–112



Others

→ 273

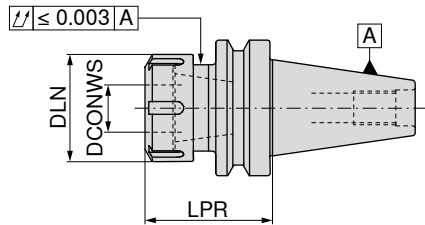
ER Collet chuck – BT-FC

▲ with face contact

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut

AD
G 2,5 n_{max} 20000

84 557 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT-FC 30	1 - 10	63	28	56	426E (ER16)	EUR Y8	
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	87,37	010
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	87,37	016
							87,37	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	110,10	110
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	110,10	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	110,10	120
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	150,10	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	150,10	320
long	BT-FC 50	1 - 10	100	28	56	426E (ER16)	150,10	310



Lock nut



Lock nut



Y clamping key



Stop screw IK

62 950 ...

62 950 ...

83 357 ...

81 950 ...

Spare parts
for collet

426E (ER16) / BT30-BT50	M22x1,5 - SW25	18,35	044						M12x15	2,06	054
430E (ER25) / BT30-BT50				M32x1,5	20,52	055	18,25	125	M16x15	2,32	055
470E (ER32) / BT30-BT50				M40x1,5	19,12	056	24,84	132	M16x15	2,32	055

Accessories



ER collet



Pull studs



Others

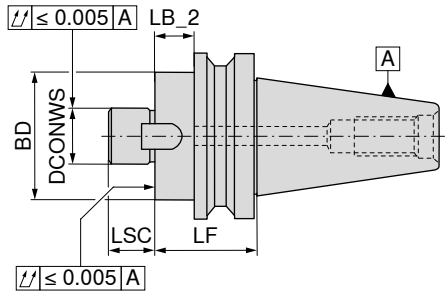
→ 256–266

→ 111–112

→ 273

Shell mill adapter – BT-FC

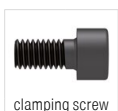
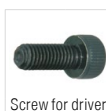
- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip **on request**



AD
G 6,3 n_{max} 15000

84 562 ...

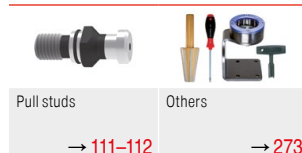
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
							EUR Y8	
short	BT-FC 30	16	18	39,0	40	17	85,21	016
	BT-FC 30	22	18	39,0	50	19	85,21	022
	BT-FC 30	27	18	39,0	60	21	85,21	027
	BT-FC 30	32	28	49,0	80	24	85,21	032
	BT-FC 40	16	8	34,0	40	17	102,50	116
	BT-FC 40	22	8	34,0	50	19	102,50	122
	BT-FC 40	27	8	34,0	60	21	102,50	127
	BT-FC 40	32	23	49,0	80	24	102,50	132
	BT-FC 40	40	23	49,0	89	27	102,50	140
	BT-FC 50	22	12	48,5	50	19	118,90	322
	BT-FC 50	27	12	48,5	60	21	118,90	327
	BT-FC 50	32	12	48,5	80	24	126,40	332
	BT-FC 50	40	17	53,5	89	27	126,40	340



Spare parts for Article no.

84 562 016	M3x12	3,90	162	8x9x11	9,91	157	M8x25	2,97	113
84 562 022	M4x10	3,90	163	10x11,2x13	11,67	158	M10x25	3,43	124
84 562 027	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 032	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 116	M3x12	3,90	162	8x9x11	9,91	157	M8x25	2,97	113
84 562 122	M4x10	3,90	163	10x11,2x13	11,67	158	M10x25	3,43	124
84 562 127	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 132	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 140	M5x16	3,90	166	16x16x23	15,99	161	M20x40 - SW17	6,67	112
84 562 322	M4x10	3,90	163	12x12,6x15	12,64	159	M10x25	3,43	124
84 562 327	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 332	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 340	M5x16	3,90	166	16x16x23	15,99	161	M20x40 - SW17	6,67	112

Accessories

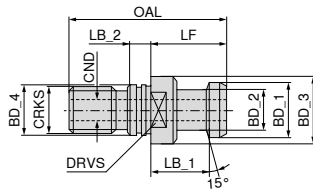


Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:

including O-Ring



83 532 ...

EUR
Y8

7,00 040

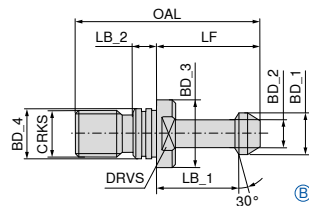
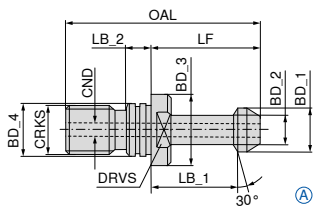
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:

including O-Ring



82 533 ...

EUR
Y8

82 531 ...

EUR
Y8

10,34 030

7,84 040

10,63 050

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

9,72 030

6,09 040

9,81 050



O-Ring

Spare parts

BD_4

17	BT / SK 40	0,47	040
25	BT / SK 50	0,47	050

83 476 ...

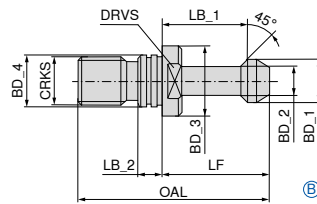
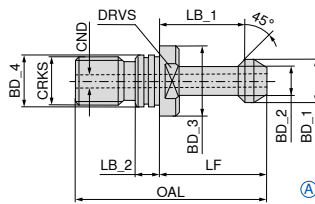
EUR
Y8

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:

including O-Ring



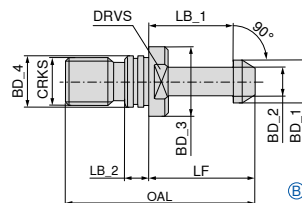
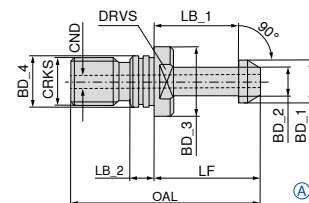
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														EUR Y8		EUR Y8	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60	A			10,34	030
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A			7,84	040
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145	A			10,63	050
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60	B	9,72	030		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90	B	6,09	040		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145	B	9,81	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:

including O-Ring

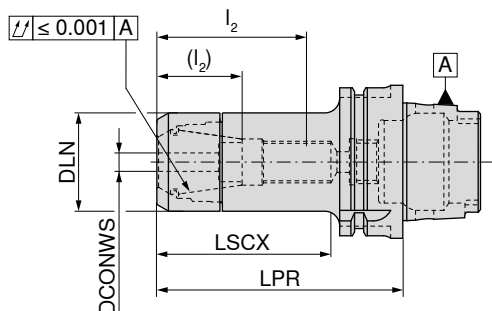


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														EUR Y8		EUR Y8	
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	90	A			7,84	040
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	145	A			10,63	050
BT 40	15	10	23	17	M16	60	35	28	5,5		19	90	B	6,09	040		
BT 50	23	17	38	25	M24	85	45	35	8,0		30	145	B	9,81	050		

ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopG 2,5 $n_{\max}$ 25000

84 722 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	134,60	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	148,00	404
HSK-A 40	2 - 20	61	50	45		470E (ER32)	172,90	407
HSK-A 50	2 - 16	60	40	37		430E (ER25)	148,00	504
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	150,20	505
HSK-A 63	1 - 10	55	30	32		426E (ER16)	123,20	609
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	123,20	610
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	152,20	613
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	170,90	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	216,50	612
HSK-A 63	2 - 16	60	40	37		430E (ER25)	123,20	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	123,20	616
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	162,60	619
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	181,20	617
HSK-A 63	2 - 20	70	50	46		470E (ER32)	123,20	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	123,20	621
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	162,60	625
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	181,20	622
HSK-A 63	3 - 26	80	63	56		472E (ER40)	155,30	626 ¹⁾
HSK-A 63	3 - 26	120	63	91		472E (ER40)	194,20	62700
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	226,80	110
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	280,20	11200
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	326,20	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	280,20	11800
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	226,80	116
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	326,20	117
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	226,80	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	280,20	12400
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	326,20	122

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

→ Transmittable torque moments, Page 300



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

Spare parts

ER precision collet chuck – Centro-P

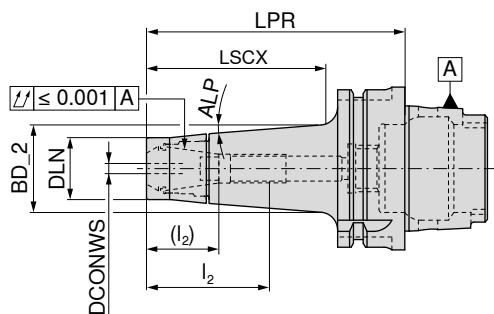
	 Lock nut IK			 Lock nut			 Stop screw 2			 Stop screw 1		
	84 950 ...			84 950 ...			83 950 ...			83 950 ...		
Spare parts for collet	EUR Y8			EUR Y8			EUR Y8			EUR Y8		
426E (ER16)	36,25	011		28,99	001		M11x1 - SW6	14,50	341	M11x1 - SW6	10,23	337
430E (ER25)	39,37	013		32,09	003		M18x1,5 - SW6	16,38	432	M18x1,5 - SW6	11,76	431
470E (ER32)	41,44	015		34,14	005		M22x1,5 - SW6	16,38	402	M22x1,5 - SW6	11,76	401
472E (ER40)	55,93	017		46,61	007					M28x1,5 - SW6	10,66	400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	EUR	
HSK-A 40	1 - 10	100	24	30,8	67	26 - 47 (12 - 32)	2,0°	426E (ER16)	160,50	310
HSK-A 50	1 - 10	65	24	28,9	44	26 - 32	4,5°	426E (ER16)	148,00	710
HSK-A 50	1 - 10	100	24	34,4	77	26 - 47 (12 - 32)	4,5°	426E (ER16)	154,30	810
HSK-A 63	1 - 10	100	24	33,8	74	28 - 48 (20 - 35)	4,5°	426E (ER16)	131,40	610
HSK-A 63	1 - 10	130	24		77	28 - 48 (20 - 35)		426E (ER16)	171,10	61200
HSK-A 63	1 - 10	160	24	36,0	106	28 - 48 (20 - 35)	2,5°	426E (ER16)	179,10	611

→ Transmittable torque moments, Page 300



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

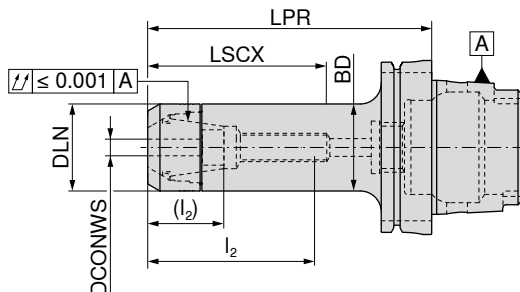
Spare parts
for collet
426E (ER16)

								
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	EUR		EUR		EUR		EUR	
	42,47	033	34,14	031	14,50	341	10,23	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** backstopG 2,5 $n_{\max}$ 25000

84 719 ...

Adapter	DCONWS mm	LPR mm	BD mm	DLN mm	LSCX mm	I ₂ (I ₁) mm	for collet	EUR Y8	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	193,60	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	131,50	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	131,50	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	170,90	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	189,50	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	131,50	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	131,50	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	170,90	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	189,50	910

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks
 I₂ = With back stop screw 1, Dimension in brackets (I₁) = 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	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
4008E (ER11)			34,14	041	13,94	340	10,23	336
426E (ER16)	42,46	035	34,14	034	14,50	341	10,23	337

Accessories

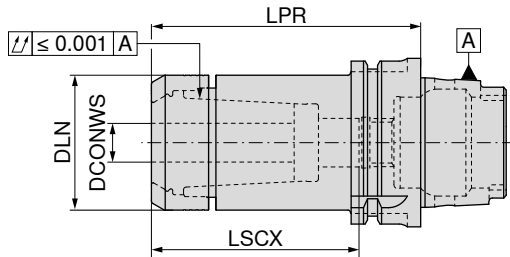
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

OZ Precision Collet Chuck – Centro-P

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

Scope of supply:

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



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

84 724 ...

EUR

Y8

177,20

626

269,40

126

→ Transmittable torque moments, Page 300



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



Lock nut IK

84 950 ...

EUR

Y8

43,49

020

Spare parts for collet

462E

Accessories

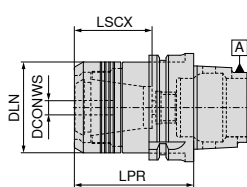
					
OZ Collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 267	→ 267	→ 275	→ 275	→ 163	→ 273

ER precision collet chuck – HDC

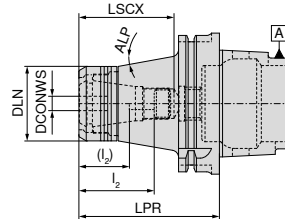
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{\max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



cylindrical



Conical



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

cylindrical

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

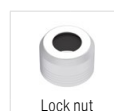
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8	12057	84 400 ... EUR Y8	22055
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	206,00	12057		
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	206,00	22057		
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)			342,00	22055



LSCX = Clamping depth without backstop screw

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



Lock nut

84 950 ...

EUR
Y8

54,59 30100



Stop screw 2

83 950 ...

EUR
Y8

16,38 402



Stop screw 1

83 950 ...

EUR
Y8

11,76 401

DCONWS

2 - 20

Accessories

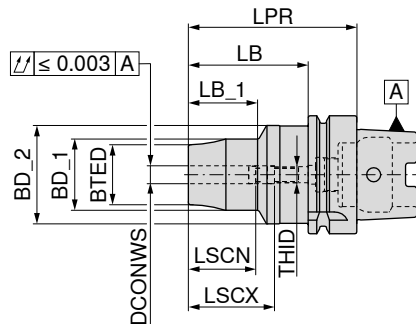
ER collet	Roll key	Roll key device	Others
→ 256-266	→ 275	→ 275	→ 273

High pressure chuck, short version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 706 ...

EUR
Y8

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID		
short	HSK-A 63	16	95	36	42	52.5	42	49	39	69	M12x1	462,30	616
	HSK-A 63	20	100	42	48	52.5	45	51	41	74	M16x1	427,70	620
	HSK-A 63	25	120	51	57	53.0	62	57	47	94	M16x1	462,30	625
	HSK-A 63	32	125	57	63	53.0	62	61	51	99	M16x1	462,30	632

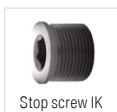
→ Min. clamping depth, Page 300



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 706 616	SW5	4,37	050	TR10x1,5x14	14,15	430	M12x1x18	7,37	446
83 706 620	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x18,5	8,12	448
83 706 625	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x22	12,85	449
83 706 632	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x25	15,99	450

Accessories

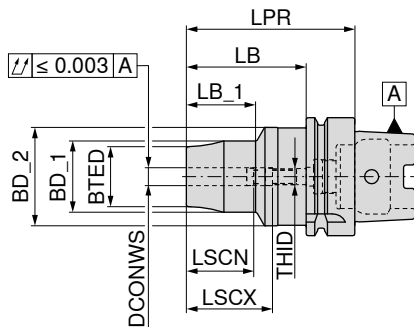
		
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

High pressure chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 722 ...

EUR
Y8

270,10 120

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

→ Min. clamping depth, Page 300

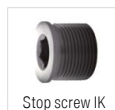
Spare parts for Article no. 83 722 120



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

EUR
Y7

4,37 050

83 950 ...

EUR
Y7

12,20 158

83 950 ...

EUR
Y7

8,35 420

SW5

M10x1x10

M8x1x13,5 - SW3

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



Others

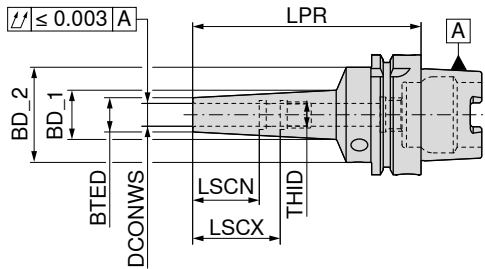
→ 273

High pressure chuck, slim 3°

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

Scope of supply:

Base body with backstop screw and pressure screw

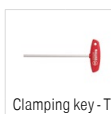


G 2,5 n_{max} 25000

83 727 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	EUR Y8	
long	HSK-A 63	3	120	9	16,65	50	28	12	M3	467,60	603
	HSK-A 63	4	120	10	17,65	50	28	16	M3	467,60	604
	HSK-A 63	5	120	11	18,65	50	28	20	M3	467,60	605
	HSK-A 63	6	120	12	19,75	50	37	27	M5	402,80	606
	HSK-A 63	8	120	14	21,75	50	37	27	M6	402,80	608
	HSK-A 63	10	120	16	23,75	50	41	31	M8x1	402,80	610
	HSK-A 63	12	120	18	25,86	50	46	36	M10x1	402,80	612
	HSK-A 63	16	120	24	31,50	50	49	39	M12x1	700,90	616
	HSK-A 63	20	120	28	35,55	50	51	41	M16x1	700,90	620
extra-long	HSK-A 63	6	160	16	33,53	50	37	27	M5	663,20	706
	HSK-A 63	8	160	18	34,55	50	37	27	M6	663,20	708
	HSK-A 63	10	160	20	36,27	50	41	31	M8x1	663,20	710
	HSK-A 63	12	160	22	37,78	50	46	36	M10x1	663,20	712
extra long	HSK-A 63	6	200	16	37,83	50	37	27	M5	733,40	806
	HSK-A 63	8	200	18	38,85	50	37	27	M6	733,40	808
	HSK-A 63	10	200	20	40,57	50	41	31	M8x1	733,40	810
	HSK-A 63	12	200	22	42,07	50	46	36	M10x1	733,40	812

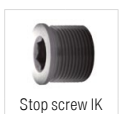
→ Min. clamping depth, Page 300



Clamping key - T



Pressure screw



Stop screw IK

Spare parts

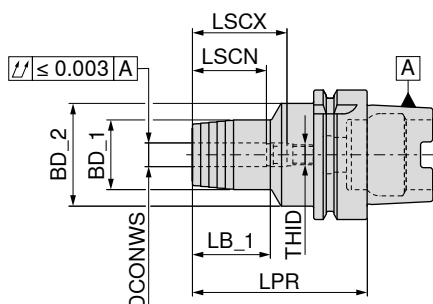
DCONWS		EUR Y7		80 397 ...	EUR Y7		83 950 ...	EUR Y7		83 950 ...
3	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172	
4	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172	
5	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172	
6	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418	
6	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419	
8	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419	
10	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420	
12	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421	
16	SW5	4,37	050	M10x1x12	12,20	159	M12x1x13,5 - SW5	8,35	422	
20	SW5	4,37	050	M10x1x12	12,20	159	M16x1x13,5 - SW8	9,62	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		
	HSK-A 63	8	70	28	49,5	37	27	24	M6		
	HSK-A 63	10	80	30	49,5	41	31	32	M8x1		
	HSK-A 63	12	85	32	49,5	46	36	40	M10x1		
	HSK-A 63	16	90	38	49,5	49	39	46	M12x1		
	HSK-A 63	20	90	42	49,5	51	41	48	M16x1		
	HSK-A 63	25	120	57	52,0	57	47	63	M16x1		
	HSK-A 63	32	125	63	53,0	61	51	61	M16x1		
										EUR Y8	
										412,60	606
										412,60	608
										412,60	610
										379,10	612
										412,60	616
										379,10	620
										412,60	625
										412,60	632

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

83 950 ...

EUR
Y7

83 950 ...

EUR
Y7

Spare parts DCONWS

6	M8x1x10	5,64	439	M5x12,5 - SW2,5	8,35	418
8	M8x1x10	5,64	439	M6x12,5 - SW3	8,35	419
10	M10x1x12	5,64	440	M8x1x13,5 - SW3	8,35	420
12	M10x1x12	5,64	440	M10x1x13,5 - SW5	8,35	421
16	M10x1x12	5,64	440	M12x1x13,5 - SW5	8,35	422
20 - 32	M10x1x12	5,64	440	M16x1x13,5 - SW5	9,62	423

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



Others

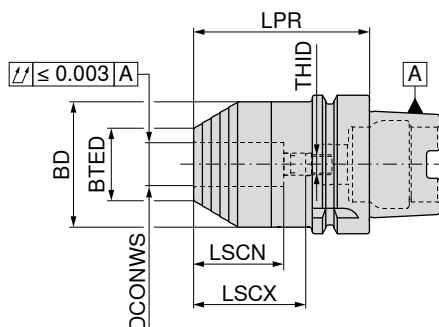
→ 273

Hydraulic chuck, short and stable version

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2,5 n_{max} 25000

83 729 ...

EUR
Y8

236,60 620

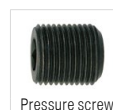
Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
HSK-A 63	20	80	33	51.5	51	41	M8x1

→ Min. clamping depth, Page 300

Spare parts

DCONWS

20



Pressure screw



Stop screw IK

83 950 ...

EUR
Y7

5,64 440

83 950 ...

EUR
Y7

9,62 423

M10x1x12

M16x1x13,5 - SW5

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



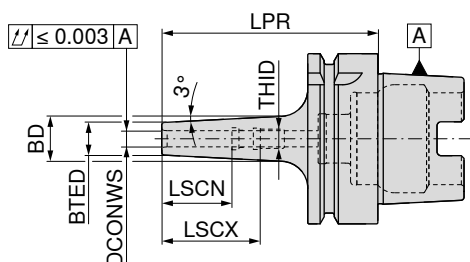
Others

→ 273

Shrink adapter, slim 3°

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

TG

G 2,5 n_{max} 25000

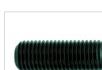
84 324 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		EUR Y8	
short	HSK-A 63	3	80	9	14	28	12	M6		167,50	103
	HSK-A 63	4	80	10	15	28	16	M6		163,20	104
	HSK-A 63	5	80	11	16	30	20	M6		163,20	105
	HSK-A 63	6	80	12	17	36	26	M5		148,00	106
	HSK-A 63	8	80	14	19	36	26	M6		148,00	108
	HSK-A 63	10	85	16	21	41	31	M8x1		148,00	110
	HSK-A 63	12	90	18	24	47	37	M10x1		148,00	112
	HSK-A 63	14	90	20	26	47	37	M10x1		148,00	114
	HSK-A 63	16	95	22	28	50	40	M12x1		148,00	116
	HSK-A 63	18	95	24	30	50	40	M12x1		148,00	118
	HSK-A 63	20	100	26	33	52	42	M16x1		148,00	120
long	HSK-A 63	3	120	9	16	12	12			195,50	203
	HSK-A 63	4	120	10	17	16	16			191,20	204
	HSK-A 63	5	120	11	18	20	20			191,20	205
	HSK-A 63	6	120	12	21	36	26	M5		174,00	206
	HSK-A 63	8	120	14	23	36	26	M6		174,00	208
	HSK-A 63	10	120	16	25	41	31	M8x1		174,00	210
	HSK-A 63	12	120	18	27	47	37	M10x1		174,00	212
	HSK-A 63	14	120	20	29	47	37	M10x1		176,00	214
	HSK-A 63	16	120	22	31	50	40	M12x1		176,00	216
	HSK-A 63	18	120	24	33	50	40	M12x1		176,00	218
	HSK-A 63	20	120	26	35	52	42	M16x1		176,00	220
extra-long	HSK-A 63	3	160	9	19	12	12			217,00	303
	HSK-A 63	4	160	10	20	16	16			212,70	304
	HSK-A 63	5	160	11	21	20	20			212,70	305
	HSK-A 63	6	160	12	24	36	26	M5		196,60	306
	HSK-A 63	8	160	14	26	36	26	M6		196,60	308
	HSK-A 63	10	160	16	28	41	31	M8x1		196,60	310
	HSK-A 63	12	160	18	30	47	37	M10x1		196,60	312
	HSK-A 63	14	160	20	32	47	37	M10x1		196,60	314
	HSK-A 63	16	160	22	34	50	40	M12x1		196,60	316
	HSK-A 63	18	160	24	36	50	40	M12x1		196,60	318
	HSK-A 63	20	160	26	38	52	42	M16x1		196,60	320

→ Min. clamping depth, Page 300

Spare parts
DCONWS

		EUR Y7		EUR Y7	
3 - 5	M6x14 - SW2	8,35	417	M5x12,5 - SW2,5	8,35 418
6				M6x12,5 - SW3	8,35 419
8				M8x1x13,5 - SW3	8,35 420
10				M10x1x13,5 - SW5	8,35 421
12 - 14				M12x1x13,5 - SW5	8,35 422
16 - 18				M16x1x13,5 - SW8	9,62 424
20					



Stop screw IK



Stop screw IK

83 950 ...

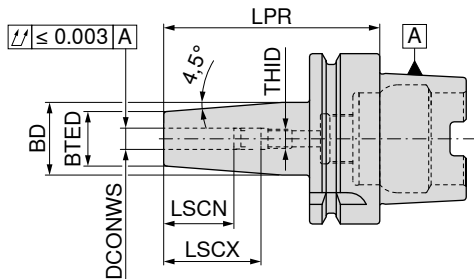
83 950 ...

16

Shrink fit adapters 4.5°

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

TG

G 2,5 n_{max} 25000

84 304 ...

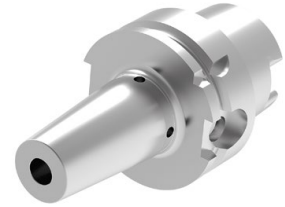
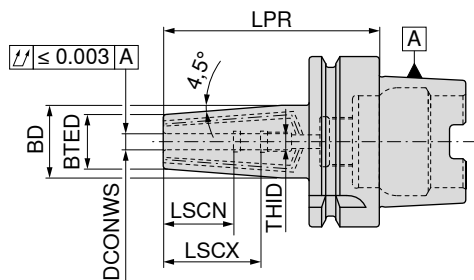
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	114,40	103
	HSK-A 63	4	80	15	22	26	16	M6	114,40	104
	HSK-A 63	5	80	15	22	30	20	M6	114,40	105
	HSK-A 63	6	80	21	27	36	26	M5	114,40	106
	HSK-A 63	8	80	21	27	36	26	M6	114,40	108
	HSK-A 63	10	85	24	32	41	31	M8x1	114,40	110
	HSK-A 63	12	90	24	32	47	37	M10x1	114,40	112
	HSK-A 63	14	90	27	34	47	37	M10x1	114,40	114
	HSK-A 63	16	95	27	34	50	40	M12x1	114,40	116
	HSK-A 63	18	95	33	42	50	40	M12x1	114,40	118
	HSK-A 63	20	100	33	42	52	42	M16x1	114,40	120
	HSK-A 63	25	115	44	53	58	48	M16x1	114,40	125
	HSK-A 63	32	120	44	53	62	52	M16x1	114,40	132
long	HSK-A 63	3	120	10	20	12	12		190,00	203
	HSK-A 63	4	120	15	22	16	16		185,80	204
	HSK-A 63	5	120	15	22	20	20		185,80	205
	HSK-A 63	6	120	21	27	36	26	M5	168,50	206
	HSK-A 63	8	120	21	27	36	26	M6	168,50	208
	HSK-A 63	10	120	24	32	41	31	M8x1	168,50	210
	HSK-A 63	12	120	24	32	47	37	M10x1	168,50	212
	HSK-A 63	14	120	27	34	47	37	M10x1	169,50	214
	HSK-A 63	16	120	27	34	50	40	M12x1	169,50	216
	HSK-A 63	18	120	33	42	50	40	M12x1	169,50	218
	HSK-A 63	20	120	33	42	52	42	M16x1	169,50	220
	HSK-A 63	25	120	44	53	58	48	M16x1	169,50	225
extra-long	HSK-A 63	3	160	10	20	12	12		211,70	303
	HSK-A 63	4	160	15	22	16	16		206,20	304
	HSK-A 63	5	160	15	22	20	20		206,20	305
	HSK-A 63	6	160	21	27	36	26	M5	191,20	306
	HSK-A 63	8	160	21	27	36	26	M6	191,20	308
	HSK-A 63	10	160	24	32	41	31	M8x1	191,20	310
	HSK-A 63	12	160	24	32	47	37	M10x1	191,20	312
	HSK-A 63	14	160	27	34	47	37	M10x1	191,20	314
	HSK-A 63	16	160	27	34	50	40	M12x1	191,20	316
	HSK-A 63	18	160	33	42	50	40	M12x1	191,20	318
	HSK-A 63	20	160	33	42	52	42	M16x1	191,20	320
	HSK-A 63	25	160	44	53	62	52	M16x1	191,20	325
extra long	HSK-A 63	6	200	21	27	36	26	M5	227,80	406
	HSK-A 63	8	200	21	27	36	26	M6	227,80	408
	HSK-A 63	10	200	24	32	41	31	M8x1	227,80	410
	HSK-A 63	12	200	24	32	47	37	M10x1	227,80	412
	HSK-A 63	14	200	27	34	47	37	M10x1	227,80	414
	HSK-A 63	16	200	27	34	50	40	M12x1	227,80	416
	HSK-A 63	18	200	33	42	50	40	M12x1	227,80	418
	HSK-A 63	20	200	33	42	52	42	M16x1	227,80	420
	HSK-A 63	25	200	44	53	62	52	M16x1	227,80	425
	HSK-A 63	32	200	44	53	62	52	M16x1	227,80	432

→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

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

TG

G 2,5 n_{max} 25000

84 316 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		EUR Y8	
short	HSK-A 63	3	80	10	15	28	12	M6		193,30	103
	HSK-A 63	4	80	15	22	28	16	M6		187,90	104
	HSK-A 63	5	80	15	22	30	20	M6		187,90	105
	HSK-A 63	6	80	21	27	36	26	M5		170,70	106
	HSK-A 63	8	80	21	27	36	26	M6		170,70	108
	HSK-A 63	10	85	24	32	41	31	M8x1		170,70	110
	HSK-A 63	12	90	24	32	47	37	M10x1		170,70	112
	HSK-A 63	14	90	27	34	47	37	M10x1		170,70	114
	HSK-A 63	16	95	27	34	50	40	M12x1		170,70	116
	HSK-A 63	18	95	33	42	50	40	M12x1		170,70	118
	HSK-A 63	20	100	33	42	52	42	M16x1		170,70	120
	HSK-A 63	25	115	44	53	58	48	M16x1		170,70	125
	HSK-A 63	32	120	44	53	62	52	M16x1		170,70	132

→ Min. clamping depth, Page 300

Spare parts
DCONWS

		83 950 ...	EUR Y7			83 950 ...	EUR Y7			83 950 ...	EUR Y7	
3 - 5	M6x14 - SW2	8,35	417							M2x6	0,49	512
6						M5x12,5 - SW2,5	8,35	418		M2x6	0,49	512
8						M6x12,5 - SW3	8,35	419		M2x6	0,49	512
10						M8x1x13,5 - SW3	8,35	420		M2x6	0,49	512
12 - 14						M10x1x13,5 - SW5	8,35	421		M2x6	0,49	512
16 - 18	M12x1 - SW5	8,38	510							M2x6	0,49	512
20 - 32	M16x1 - SW5	4,95	511							M2x6	0,49	512

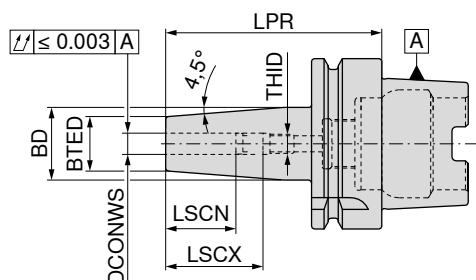
Accessories

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

Shrink fit adapters 4.5°

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

TG

G 2,5 n_{max} 25000

84 305 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
		mm	mm	mm	mm	mm	mm		EUR	
short	HSK-A 100	6	85	21	27	36	26	M5	208,50	106
	HSK-A 100	8	85	21	27	36	26	M6	208,50	108
	HSK-A 100	10	90	24	32	41	31	M8x1	208,50	110
	HSK-A 100	12	95	24	32	47	37	M10x1	208,50	112
	HSK-A 100	14	95	27	34	47	37	M10x1	208,50	114
	HSK-A 100	16	100	27	34	50	40	M12x1	208,50	116
	HSK-A 100	18	100	33	42	50	40	M12x1	208,50	118
	HSK-A 100	20	105	33	42	52	42	M16x1	208,50	120
	HSK-A 100	25	115	44	53	58	48	M16x1	208,50	125
long	HSK-A 100	32	120	44	53	62	52	M16x1	208,50	132
	HSK-A 100	6	120	21	27	36	26	M5	240,80	206
	HSK-A 100	8	120	21	27	36	26	M6	240,80	208
	HSK-A 100	10	120	24	32	41	31	M8x1	240,80	210
	HSK-A 100	12	120	24	32	47	37	M10x1	240,80	212
	HSK-A 100	14	120	27	34	47	37	M10x1	240,80	214
	HSK-A 100	16	120	27	34	50	40	M12x1	240,80	216
	HSK-A 100	18	120	33	42	50	40	M12x1	240,80	218
	HSK-A 100	20	120	33	42	52	42	M16x1	240,80	220
extra-long	HSK-A 100	25	120	44	53	58	48	M16x1	240,80	225
	HSK-A 100	6	160	21	27	36	26	M5	278,60	306
	HSK-A 100	8	160	21	27	36	26	M6	278,60	308
	HSK-A 100	10	160	24	32	41	31	M8x1	278,60	310
	HSK-A 100	12	160	24	32	47	37	M10x1	278,60	312
	HSK-A 100	14	160	27	34	47	37	M10x1	278,60	314
	HSK-A 100	16	160	27	34	50	40	M12x1	278,60	316
	HSK-A 100	18	160	33	42	50	40	M12x1	278,60	318
	HSK-A 100	20	160	33	42	52	42	M16x1	278,60	320
	HSK-A 100	25	160	44	53	58	48	M16x1	278,60	325
	HSK-A 100	32	160	44	53	62	52	M16x1	278,60	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts
DCONWS

		EUR	
		Y7	
6	M5x12,5 - SW2,5	8,35	418
8	M6x12,5 - SW3	8,35	419
10	M8x1x13,5 - SW3	8,35	420
12 - 14	M10x1x13,5 - SW5	8,35	421
16 - 18	M12x1x13,5 - SW5	8,35	422
20 - 32	M16x1x13,5 - SW8	9,62	424

Accessories

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

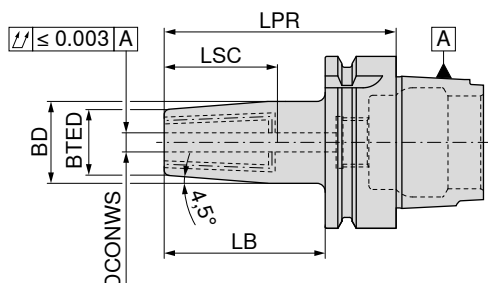
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG

G 2,5 n_{max} 25000

84 717 ...

EUR
Y8

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm		
								EUR	
short	HSK-A 63	6	80	21	26	54	36,5	181,50	606
	HSK-A 63	8	80	21	26	54	36,5	181,50	608
	HSK-A 63	10	85	24	30	59	41,5	181,50	610
	HSK-A 63	12	90	24	30	64	46,5	181,50	612
	HSK-A 63	14	90	27	34	64	46,5	181,50	614
	HSK-A 63	16	95	27	34	69	49,5	181,50	616
	HSK-A 63	18	95	33	41	69	49,5	181,50	618
	HSK-A 63	20	100	33	41	74	51,5	181,50	620
	HSK-A 63	25	115	44	52	89	57,5	191,20	625
	HSK-A 63	32	120	44	52	94	61,5	252,80	632
	HSK-A 100	6	85	21	26	56	36,5	256,00	106
	HSK-A 100	8	85	21	26	56	36,5	256,00	108
	HSK-A 100	10	90	24	30	56	41,5	256,00	110
	HSK-A 100	12	95	24	30	66	46,5	256,00	112
	HSK-A 100	14	95	27	34	66	46,5	256,00	114
	HSK-A 100	16	100	27	34	71	49,5	256,00	116
	HSK-A 100	18	100	33	42	71	49,5	256,00	118
	HSK-A 100	20	105	33	42	76	51,5	256,00	120
	HSK-A 100	25	115	44	53	86	57,5	265,70	125
	HSK-A 100	32	120	44	53	91	61,5	273,30	132

→ Min. clamping depth, Page 300

Spare parts

DCONWS

		EUR W7		EUR W7	
6	M5x0,8x14	7,01	402	M3x6	1,36
8	M6x1x16	7,01	403	M3x6	1,36
10	M8x1x20	7,88	404		
12 - 18	M10x1x20	8,80	405		
20 - 32	M12x1x20	9,11	406		



Stop screw IK



Sealing screw

62 950 ...

62 950 ...



Sealing screw for closing of two additional coolant holes.

Accessories



→ 235

→ 163

→ 273

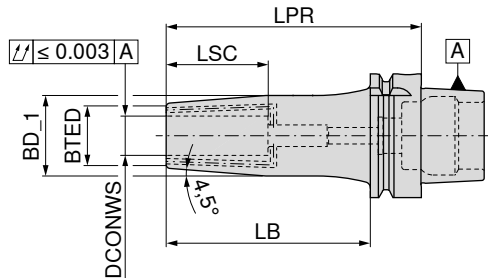
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG

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

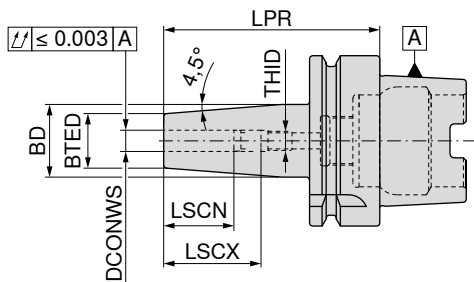
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	84 720 ...		84 723 ...	
								EUR Y8		EUR Y8	
medium length	HSK-A 63	6	130	21	27	104	36,5	252,80	606		
	HSK-A 63	8	130	21	27	104	36,5	252,80	608		
	HSK-A 63	10	130	24	32	104	41,5	252,80	610		
	HSK-A 63	12	130	24	32	104	46,5	252,80	612		
	HSK-A 63	14	130	27	34	104	46,5	252,80	614		
	HSK-A 63	16	130	27	34	104	49,5	252,80	616		
	HSK-A 63	18	130	33	41	104	49,5	252,80	618		
	HSK-A 63	20	130	33	41	104	51,5	252,80	620		
	HSK-A 100	6	130	21	27	101	36,5	347,70	106		
	HSK-A 100	8	130	21	27	101	36,5	347,70	108		
	HSK-A 100	10	130	24	32	101	41,5	347,70	110		
	HSK-A 100	12	130	24	32	101	46,5	347,70	112		
	HSK-A 100	14	130	27	34	101	46,5	347,70	114		
	HSK-A 100	16	130	27	34	101	49,5	347,70	116		
	HSK-A 100	18	130	33	41	101	49,5	347,70	118		
	HSK-A 100	20	130	33	41	101	51,5	347,70	120		
extra-long	HSK-A 63	6	160	21	27	134	36,5			277,60	606
	HSK-A 63	8	160	21	27	134	36,5			277,60	608
	HSK-A 63	10	160	24	32	134	41,5			277,60	610
	HSK-A 63	12	160	24	32	134	46,5			277,60	612
	HSK-A 63	14	160	27	34	134	46,5			277,60	614
	HSK-A 63	16	160	27	34	134	49,5			277,60	616
	HSK-A 63	18	160	33	41	134	49,5			277,60	618
	HSK-A 63	20	160	33	41	134	51,5			277,60	620
	HSK-A 63	25	160	44	52	134	57,5			277,60	625
	HSK-A 100	6	160	21	27	131	36,5			381,20	106
	HSK-A 100	8	160	21	27	131	36,5			381,20	108
	HSK-A 100	10	160	24	32	131	41,5			381,20	110
	HSK-A 100	12	160	24	32	131	46,5			381,20	112
	HSK-A 100	14	160	27	34	131	46,5			381,20	114
	HSK-A 100	16	160	27	34	131	49,5			381,20	116
	HSK-A 100	18	160	33	41	131	49,5			381,20	118
	HSK-A 100	20	160	33	41	131	51,5			381,20	120
	HSK-A 100	25	160	44	53	131	57,5			381,20	125
	HSK-A 100	32	160	44	53	131	61,5			381,20	132

→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

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

TG

G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		EUR	
		mm	mm	mm	mm	mm	mm			Y8	
short	HSK-A 63	3	80	10	15	22	12			110,10	10357
	HSK-A 63	4	80	15	22	26	16			110,10	10457
	HSK-A 63	5	80	15	22	30	20			110,10	10557
	HSK-A 63	6	80	21	27	36	26	M5		110,10	10657
	HSK-A 63	8	80	21	27	36	26	M6		110,10	10857
	HSK-A 63	10	85	24	32	41	31	M8x1		110,10	11057
	HSK-A 63	12	90	24	32	47	37	M10x1		110,10	11257
	HSK-A 63	14	90	27	34	47	37	M10x1		110,10	11457
	HSK-A 63	16	95	27	34	50	40	M12x1		110,10	11657
	HSK-A 63	18	95	33	42	50	40	M12x1		110,10	11857
	HSK-A 63	20	100	33	42	52	42	M16x1		110,10	12057
	HSK-A 63	25	115	44	53	58	48	M16x1		110,10	12557
	HSK-A 63	32	120	44	53	62	52	M16x1		110,10	13257
long	HSK-A 63	3	120	10	20	12	12			177,80	20357
	HSK-A 63	4	120	15	22	16	16			173,60	20457
	HSK-A 63	5	120	15	22	20	20			173,60	20557
	HSK-A 63	6	120	21	27	36	26	M5		158,80	20657
	HSK-A 63	8	120	21	27	36	26	M6		158,80	20857
	HSK-A 63	10	120	24	32	41	31	M8x1		158,80	21057
	HSK-A 63	12	120	24	32	47	37	M10x1		158,80	21257
	HSK-A 63	14	120	27	34	47	37	M10x1		158,80	21457
	HSK-A 63	16	120	27	34	50	40	M12x1		158,80	21657
	HSK-A 63	18	120	33	42	50	40	M12x1		158,80	21857
	HSK-A 63	20	120	33	42	52	42	M16x1		158,80	22057
	HSK-A 63	25	120	44	53	58	48	M16x1		158,80	22557
extra-long	HSK-A 63	3	160	10	20	12	12			199,10	30357
	HSK-A 63	4	160	15	22	16	16			194,80	30457
	HSK-A 63	5	160	15	22	20	20			194,80	30557
	HSK-A 63	6	160	21	27	36	26	M5		177,80	30657
	HSK-A 63	8	160	21	27	36	26	M6		177,80	30857
	HSK-A 63	10	160	24	32	41	31	M8x1		177,80	31057
	HSK-A 63	12	160	24	32	47	37	M10x1		177,80	31257
	HSK-A 63	14	160	27	34	47	37	M10x1		177,80	31457
	HSK-A 63	16	160	27	34	50	40	M12x1		177,80	31657
	HSK-A 63	18	160	33	42	50	40	M12x1		177,80	31857
	HSK-A 63	20	160	33	42	52	42	M16x1		177,80	32057
	HSK-A 63	25	160	44	53	62	52	M16x1		177,80	32557

→ Min. clamping depth, Page 300



Stop screw IK

82 950 ...

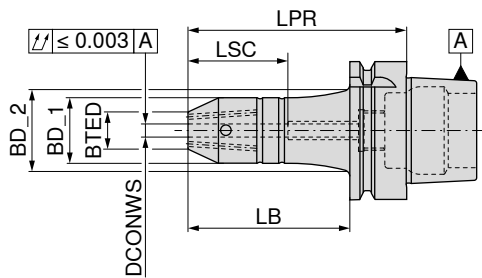
Spare parts

DCONWS

		EUR	
		Y8	
3 - 5	M6x16 - SW3	2,32	30100
6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x1x16 - SW4	2,46	30200
12 - 14	M10x1x14 - SW5	2,61	30300
16 - 18	M12x1x16 - SW6	2,75	30400
20 - 32	M16x1x16 - SW8	2,89	30500

Sidelock holder (Weldon)

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



	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
									84 700 ...		84 701 ...		84 704 ...		84 705 ...	
									EUR Y8		EUR Y8		EUR Y8		EUR Y8	
short	HSK-A 63	6	65	30	17	39	34		192,30	606	164,20	606 ¹⁾				
	HSK-A 63	8	65	32	20	39	34		192,30	608	154,40	608 ¹⁾				
	HSK-A 63	10	65	35	25	39	39		192,30	610	154,40	610 ¹⁾				
	HSK-A 63	12	80	42	30	54	44		192,30	612	154,40	612 ¹⁾				
	HSK-A 63	14	80	45	32	54	44		192,30	614	154,40	614 ¹⁾				
	HSK-A 63	16	80	48	36	54	47		192,30	616	154,40	616 ¹⁾				
	HSK-A 63	18	80	48	38	54	47		192,30	618	154,40	618 ¹⁾				
	HSK-A 63	20	80	52	40	54	49		192,30	620	154,40	620 ¹⁾				
	HSK-A 63	25	110	63	45	84	54		200,90	625	170,70	625 ¹⁾				
	HSK-A 63	32	110	72	52	84	58		230,10	632	181,50	632 ¹⁾				
	HSK-A 100	6	80	30	17	51	34		234,30	106						
	HSK-A 100	8	80	32	20	51	34		225,80	108						
	HSK-A 100	10	80	35	25	51	39		225,80	110						
	HSK-A 100	12	80	42	30	51	44		225,80	112						
	HSK-A 100	14	80	45	32	51	44		225,80	114						
	HSK-A 100	16	100	48	36	71	47		225,80	116						
	HSK-A 100	18	100	48	38	71	47		225,80	118						
	HSK-A 100	20	100	52	40	71	49		225,80	120						
	HSK-A 100	25	100	65	45	71	54		234,30	125						
	HSK-A 100	32	100	72	52	71	58		245,10	132						
	HSK-A 100	40	110	80	60	81	68		285,10	140						
long	HSK-A 63	6	100	30	17	74	34	36,2					169,50	606	127,40	606 ¹⁾
	HSK-A 63	8	100	32	20	74	34	38,2					164,20	608	122,10	608 ¹⁾
	HSK-A 63	10	100	35	25	74	39	41,2					164,20	610	122,10	610 ¹⁾
	HSK-A 63	12	100	42	30	74	44						164,20	612	122,10	612 ¹⁾
	HSK-A 63	14	100	45	32	74	44						164,20	614	122,10	614 ¹⁾
	HSK-A 63	16	100	48	36	74	47						164,20	616	122,10	616 ¹⁾
	HSK-A 63	18	100	48	38	74	47						164,20	618	122,10	618 ¹⁾
	HSK-A 63	20	100	52	40	74	49						164,20	620	122,10	620 ¹⁾

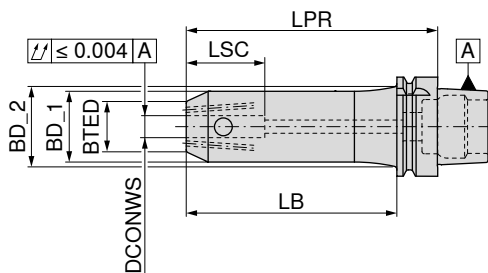
1) without threads for balancing screws



Spare parts and accessories on → **Page 134**

Sidelock holder (Weldon)

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



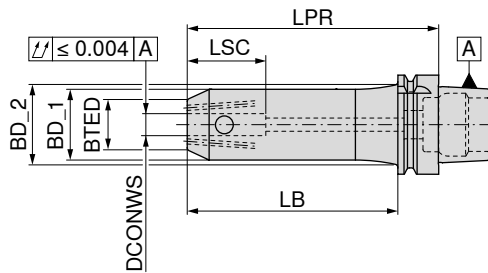
G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	84 706 ...		84 708 ...	
									EUR Y8		EUR Y8	
medium length	HSK-A 63	6	130	30	17	104	34	36,2	190,00	606	132,80	606
	HSK-A 63	8	130	32	20	104	34	38,2	180,40	608	129,70	608
	HSK-A 63	10	130	35	25	104	39	41,2	180,40	610	129,70	610
	HSK-A 63	12	130	42	30	104	44	48,2	180,40	612	129,70	612
	HSK-A 63	14	130	45	32	104	44	50,5	180,40	614	129,70	614
	HSK-A 63	16	130	48	36	104	47	50,1	180,40	616	129,70	616
	HSK-A 63	18	130	48	38	104	47	50,1	180,40	618	129,70	618
	HSK-A 63	20	130	52	40	104	49		180,40	620	139,40	620
	HSK-A 63	25	130	63	45	104	54		190,00	625		
	HSK-A 63	32	130	72	52	104	58		199,80	632		

Spare parts and accessories on → **Page 134**

Sidelock holder (Weldon)

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

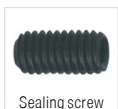
G 2,5 n_{max} 18000

84 707 ...

	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	EUR Y8	
extra-long	HSK-A 63	6	160	30	17	134	34	36,2	202,00	606
	HSK-A 63	8	160	32	20	134	34	38,2	194,40	608
	HSK-A 63	10	160	35	25	134	39	41,2	194,40	610
	HSK-A 63	12	160	42	30	134	44	48,2	194,40	612
	HSK-A 63	14	160	45	32	134	44	50,5	194,40	614
	HSK-A 63	16	160	48	36	134	47	50,1	194,40	616
	HSK-A 63	18	160	48	38	134	47	50,1	194,40	618
	HSK-A 63	20	160	52	40	134	49		194,40	620
	HSK-A 63	25	160	63	45	134	54		194,40	625
	HSK-A 100	6	160	30	17	131	34	38,2	242,00	106
	HSK-A 100	8	160	32	20	131	34	40,2	231,10	108
	HSK-A 100	10	160	35	25	131	39	43,2	229,00	110
	HSK-A 100	12	160	42	30	131	44	50,2	229,00	112
	HSK-A 100	14	160	45	32	131	44	53,2	229,00	114
	HSK-A 100	16	160	48	36	131	47	56,2	229,00	116
	HSK-A 100	18	160	48	38	131	47	56,2	229,00	118
	HSK-A 100	20	160	52	40	131	49	60,2	229,00	120
	HSK-A 100	25	160	65	45	131	54	73,2	229,00	125
	HSK-A 100	32	160	72	52	134	58	79,5	229,00	132



Grubscrew



Sealing screw

Spare parts

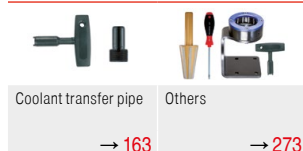
DCONWS_{H5}

		62 950 ...	EUR W7		62 950 ...	EUR W7
6	M6x10	422	5,76	M3x6	411	1,36
8	M8x10	423	5,76	M3x6	411	1,36
10	M10x12	424	7,14	M3x6	411	1,36
12 - 14	M12x16	425	7,14	M3x6	411	1,36
16 - 18	M14x16	426	9,57	M3x6	411	1,36
20	M16x16	427	11,24	M3x6	411	1,36
25	M18x2x20	428	12,85	M4x8	412	1,36
32	M20x2x20	429	15,87	M4x8	412	1,36



Sealing screw for closing of two additional coolant holes.

Accessories



Coolant transfer pipe

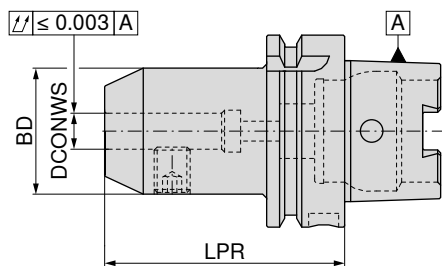
Others

→ 163

→ 273

Sidelock holder (Weldon)

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

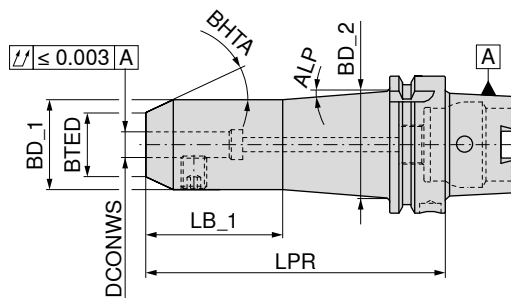


G 2,5 n_{max} 18000 G 2,5 n_{max} 18000 G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	81 736 ...		81 731 ...		81 730 ...	
					EUR Y8		EUR Y8		EUR Y8	
short	HSK-A 32	6	60	25			114,20	306		
	HSK-A 32	8	60	28			108,40	308		
	HSK-A 32	10	65	35			108,40	310		
	HSK-A 32	12	75	42			108,40	312		
	HSK-A 32	16	75	48			108,40	316		
	HSK-A 40	6	60	25			108,40	406		
	HSK-A 40	8	60	28			103,20	408		
	HSK-A 40	10	65	34			103,20	410		
	HSK-A 40	12	70	42			103,20	412		
	HSK-A 40	16	80	48			103,20	416		
	HSK-A 40	20	80	52			103,20	420		
	HSK-A 50	6	65	25			115,90	506		
	HSK-A 50	8	65	28			108,40	508		
	HSK-A 50	10	65	35			108,40	510		
	HSK-A 50	12	80	42			108,40	512		
	HSK-A 50	16	80	48			108,40	516		
	HSK-A 50	20	80	52			108,40	520		
	HSK-A 50	25	105	65			117,60	525		
	HSK-A 50	32	120	72			115,90	532		
	HSK-A 63	6	65	25			110,00	606	142,80	606
	HSK-A 63	8	65	28			110,00	608	136,10	608
	HSK-A 63	10	65	35			110,00	610	136,10	610
	HSK-A 63	12	80	42			110,00	612	136,10	612
	HSK-A 63	14	80	44			110,00	614	136,10	614
	HSK-A 63	16	80	48			110,00	616	136,10	616
	HSK-A 63	18	80	50			110,00	618	136,10	618
	HSK-A 63	20	80	52			110,00	620	136,10	620
	HSK-A 63	25	110	65			120,90	625	142,80	625
	HSK-A 63	32	110	72			128,40	632	163,00	632
	HSK-A 63	40	125	80					178,00	640
	HSK-A 100	6	80	25			142,80	106	167,10	106
	HSK-A 100	8	80	28			139,50	108	160,40	108
	HSK-A 100	10	80	35			139,50	110	160,40	110
	HSK-A 100	12	80	42			139,50	112	160,40	112
	HSK-A 100	14	80	44			139,50	114	160,40	114
	HSK-A 100	16	100	48			139,50	116	160,40	116
	HSK-A 100	18	100	50			139,50	118	160,40	118
	HSK-A 100	20	100	52			139,50	120	160,40	120
	HSK-A 100	25	100	65			150,30	125	167,10	125
	HSK-A 100	32	100	72			153,70	132	173,80	132
	HSK-A 100	40	105	80			157,90	140	203,20	140
long	HSK-A 63	6	100	25	126,80	606				
	HSK-A 63	8	100	28	126,00	608				
	HSK-A 63	10	100	35	126,00	610				
	HSK-A 63	12	100	42	126,00	612				
	HSK-A 63	16	100	48	126,00	616				
	HSK-A 63	40	125	80	141,10	640				

Sidelock holder (Weldon)

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

G 2,5 n_{max} 18000

81 732 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD_1 mm	BD_2 mm	BTED mm	LB_1 mm	ALP °	BHTA	EUR Y8	
extra-long	HSK-A 63	6	160	25	34,7	15	50	3,5	25°	142,80	606
	HSK-A 63	8	160	28	37,9	20	50	3,5	25°	138,50	608
	HSK-A 63	10	160	35	43,7	25	60	3,5	25°	138,50	610
	HSK-A 63	12	160	42		30			25°	138,50	612 ¹⁾
	HSK-A 63	16	160	48		36			25°	138,50	616 ¹⁾
	HSK-A 63	20	160	52		40			25°	138,50	620 ¹⁾
	HSK-A 100	6	160	25	45,2	15	50	7,5	25°	172,90	106
	HSK-A 100	8	160	28	48,7	20	50	7,5	25°	168,70	108
	HSK-A 100	10	160	35	51,2	25	65	7,5	25°	168,70	110
	HSK-A 100	12	160	42	59,5	30	60	7,5	25°	168,70	112
	HSK-A 100	16	160	48	62,9	36	70	7,5	25°	168,70	116
	HSK-A 100	20	160	52	69,6	40	60	7,5	25°	168,70	120
	HSK-A 100	25	160	65	77,5	45	80	7,5	45°	168,70	125

1) Cylindrical shank adapter



Grubscrew

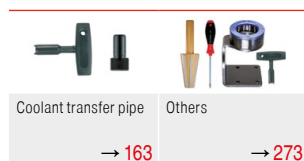
62 950 ...

Spare parts

DCONWS_{H4}

	EUR W7	
6	M6x10	0,68 006
8	M8x10	0,79 008
10	M10x12	1,05 010
12	M12x16	1,06 012
16	M14x16	1,32 016
20	M16x16	1,60 020
25	M18x2x20	2,93 025

Accessories



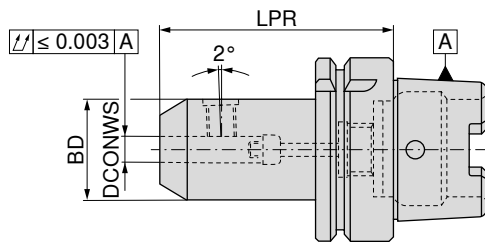
Coolant transfer pipe Others

→ 163

→ 273

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

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

G 2,5 n_{max} 18000

81 733 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	EUR	
					Y8	
short	HSK-A 63	6	80	25	128,40	606
	HSK-A 63	8	80	28	123,10	608
	HSK-A 63	10	80	35	123,10	610
	HSK-A 63	12	90	42	123,10	612
	HSK-A 63	14	90	44	123,10	614
	HSK-A 63	16	100	48	123,10	616
	HSK-A 63	18	100	50	123,10	618
	HSK-A 63	20	100	52	123,10	620
	HSK-A 63	25	110	65	132,10	625
	HSK-A 63	32	110	72	142,80	632
	HSK-A 100	6	90	25	157,90	106
	HSK-A 100	8	90	28	151,60	108
	HSK-A 100	10	90	35	151,60	110
	HSK-A 100	12	100	42	151,60	112
	HSK-A 100	14	100	44	151,60	114
	HSK-A 100	16	100	48	151,60	116
	HSK-A 100	18	100	50	151,60	118
	HSK-A 100	20	110	52	151,60	120
	HSK-A 100	25	120	65	163,30	125
	HSK-A 100	32	120	72	167,80	132
	HSK-A 100	40	120	80	173,10	140



Grubscrew



Stop screw IK

62 950 ...

81 950 ...

Spare parts DCONWS_{H4}

6	M6x10	0,68	006	M5x15	1,36	050
8	M8x10	0,79	008	M6x15	1,55	051
10	M10x12	1,05	010	M8x15	1,68	052
12 - 14	M12x16	1,06	012	M10x15	1,68	053
16 - 18	M14x16	1,32	016	M12x15	2,06	054
20	M16x16	1,60	020	M16x15	2,32	055
25	M18x2x20	2,93	025	M20x15	2,58	056
32	M20x2x20	3,24	032	M20x15	2,58	056
40	M20x2x20	3,24	032	M22x1,5x15	3,54	057

Accessories



Coolant transfer pipe

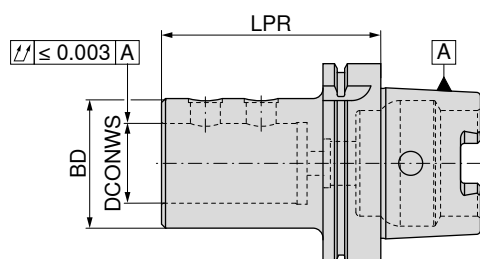
Others

→ 163

→ 273

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request

G 6,3 n_{max} 15000

10 842 ...

Adapter	DCONWS mm	LPR mm	BD mm	EUR 2E/45	
HSK-A 63	20	80	40	180,00	320
HSK-A 63	25	90	45	180,00	325
HSK-A 63	32	90	52	180,00	332
HSK-A 63	40	110	65	180,00	340
HSK-A 100	20	90	40	201,90	420
HSK-A 100	25	100	45	201,90	425
HSK-A 100	32	100	52	201,90	432
HSK-A 100	40	110	65	201,90	440
HSK-A 100	50	120	75	201,90	450

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



Grubscrew

10 950 ...

Spare parts
DCONWS

DCONWS	EUR 2A/28	
20	M10x1x10	3,96 001
25 - 32	M12x1x10	4,03 002
40 - 50	M16x1x12	4,03 003

Accessories



Coolant transfer pipe

Others

→ 163

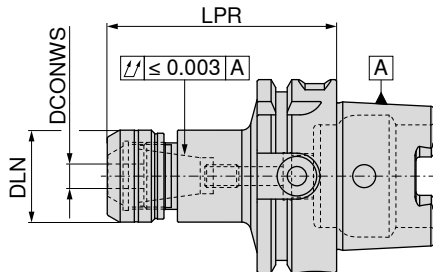
→ 273

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



NEW



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

82 700 ...

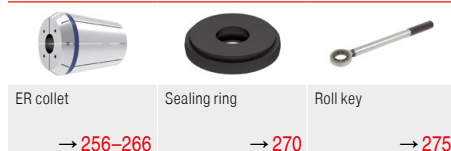
Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	EUR Y8	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	120,70	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	126,80	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	120,70	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	126,80	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	120,70	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	126,80	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	210,00	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	281,50	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	210,00	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	281,50	42055



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

	Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
Spare parts for collet	82 950 ...	82 950 ...	82 950 ...	82 950 ...
	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	35,14 11000	33,11 01000		M8X3,0 3,31 00100
430E (ER25)	35,14 11600	33,11 01600	M18x1,5 4,50 00200	M8x8 3,31 00300
470E (ER32)	35,14 12000	33,11 02000	M18x1,5 4,50 00200	M8x8 3,31 00300

Accessories



→ 256–266

→ 270

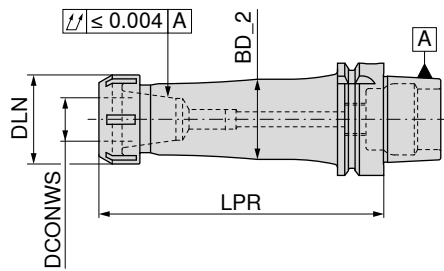
→ 275

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



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

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	TQX Nm	for collet	84 726 ...		84 732 ...		84 738 ...	
								EUR Y8		EUR Y8		EUR Y8	
long	HSK-A 63	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	162,00	610				
	HSK-A 63	1 - 16	100	42	37	24 - 104	430E (ER25)	194,40	616				
	HSK-A 63	2 - 20	100	50	45	24 - 136	470E (ER32)	211,70	620				
	HSK-A 63	3 - 26	100	63	52	176	472E (ER40)	234,30	626				
	HSK-A 100	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	207,40	110				
	HSK-A 100	1 - 16	100	42	37	24 - 104	430E (ER25)	231,10	116				
	HSK-A 100	2 - 20	100	50	45	24 - 136	470E (ER32)	249,50	120				
	HSK-A 100	3 - 26	100	63	56	176	472E (ER40)	265,70	126				
extra-long	HSK-A 63	1 - 10	160	22	27	8 - 56	426E (ER16 mini)					230,10	610
	HSK-A 63	1 - 16	160	42	37	24 - 104	430E (ER25)					232,30	616
	HSK-A 63	2 - 20	160	50	45	24 - 136	470E (ER32)					250,60	620
	HSK-A 63	3 - 26	160	63	52	176	472E (ER40)					259,30	626
	HSK-A 100	1 - 10	200	22	27	8 - 56	426E (ER16 mini)					346,70	110
	HSK-A 100	1 - 16	200	42	37	24 - 104	430E (ER25)					346,70	116
	HSK-A 100	2 - 20	200	50	45	24 - 136	470E (ER32)					362,90	120
	HSK-A 100	3 - 26	200	63	56	176	472E (ER40)					392,00	126
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			249,50	110		
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)			273,30	116		
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)			290,60	120		
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)			315,40	126		

													
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 ...		62 950 ...	
EUR Y8		EUR W7		EUR Y8		EUR Y8		EUR W7		EUR Y8		EUR W7	
426E (ER16 mini)		430E (ER25)		470E (ER32)		472E (ER40)		426E (ER16 mini)		430E (ER25)		470E (ER32)	
35,76		20,52		18,25		16,63		24,62		37,54		7,01	
055		055		125		101		066		058		403	
38,06		19,12		24,84									
056		056		132									
44,88		18,58		27,33									
057		057		140									

Spare parts for collet

Accessories

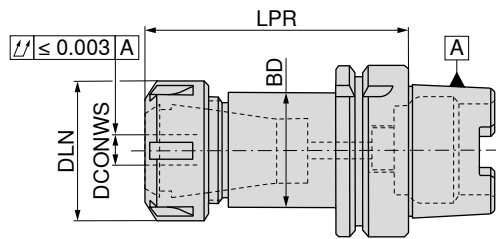
		
ER collet	Coolant transfer pipe	Others
→ 256–266	→ 163	→ 273

ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder with lock nut and adjustable backstop

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

	Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	TQX Nm	for collet	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
								81 735 ...		81 737 ...	
short	HSK-A 32	1 - 10	65	22	19	8 - 56	426E (ER16 mini)	EUR Y8		EUR Y8	
	HSK-A 32	1 - 16	70	35	30	24 - 104	430E (ER25 mini)	124,90	316		
								124,90	325		
	HSK-A 40	1 - 10	70	22	22	8 - 56	426E (ER16 mini)	116,90	416		
	HSK-A 40	1 - 16	80	42	35	24 - 104	430E (ER25)	115,20	425		
long	HSK-A 50	1 - 10	80	22	22	8 - 56	426E (ER16 mini)	121,30	516		
	HSK-A 50	1 - 16	95	42	42	24 - 104	430E (ER25)	116,90	525		
	HSK-A 40	2 - 20	100	50	40	24 - 136	470E (ER32)	121,30	432		
	HSK-A 50	2 - 20	100	50	50	24 - 136	470E (ER32)	121,30	532		
medium length	HSK-A 63	1 - 10	100	22	19	8 - 56	426E (ER16 mini)	121,30	616		
	HSK-A 63	1 - 16	100	42	32	24 - 104	430E (ER25)	121,30	625		
	HSK-A 63	2 - 20	100	50	50	24 - 136	470E (ER32)	124,90	632		
	HSK-A 100	1 - 16	100	42	42	24 - 104	430E (ER25)	144,50	125		
	HSK-A 100	2 - 20	100	50	50	24 - 136	470E (ER32)	156,20	132		
extra-long											
	HSK-A 40	1 - 16	120	35	35	24 - 104	430E (ER25 mini)			149,90	425
	HSK-A 63	2 - 26	120	63	50	176	472E (ER40)	130,30	640		
	HSK-A 100	3 - 26	120	63	50	176	472E (ER40)	165,90	140		
extra-long											
	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)			167,80	632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)			173,10	640
	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)			186,50	125
	HSK-A 100	2 - 20	160	50	50	24 - 136	470E (ER32)			197,10	132
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)			206,10	140

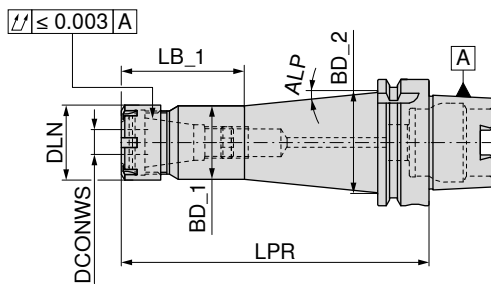
						
Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	81 950 ...
EUR Y8	EUR W7	EUR Y8	EUR Y8	EUR W7	EUR Y8	EUR Y8
			16,63 101 21,06 103	24,62 066 30,34 069	37,54 058 41,78 060	1,68 053 2,32 055 3,54 057 3,54 057
35,76 055 38,06 056 44,88 057	20,52 055 19,12 056 18,58 057	18,25 125 24,84 132 27,33 140				

ER-Collet chuck

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

Scope of supply:

Toolholder with lock nut and adjustable backstop



G 2,5 n_{max} 18000

81 737 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_1 mm	BD_2 mm	LB_1 mm	ALP	TQX Nm	for collet	
medium length	HSK-A 40	1 - 10	120	22	22	29,15	47	4°	8 - 56	426E (ER16 mini)	EUR Y8 149,90 416
extra-long	HSK-A 63	1 - 10	160	22	22	35,00	57	5°	8 - 56	426E (ER16 mini)	173,10 616
	HSK-A 63	1 - 16	160	35	35	46,10	68	5°	24 - 104	430E (ER25 mini)	167,80 625

							
	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 ...	81 950 ...
Spare parts for collet	EUR Y8	EUR W7	EUR Y8	EUR Y8	EUR W7	EUR Y8	EUR Y8
426E (ER16 mini)				16,63 101	24,62 066	37,54 058	1,68 053
430E (ER25 mini)				21,06 103	30,34 069	41,78 060	2,32 055
430E (ER25)	35,76 055	20,52 055	18,25 125				2,32 055
470E (ER32)	38,06 056	19,12 056	24,84 132				3,54 057
472E (ER40)	44,88 057	18,58 057	27,33 140				3,54 057

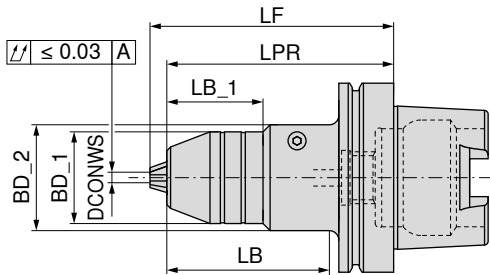
Accessories

		
ER collet	Coolant transfer pipe	Others
→ 259, 261-265	→ 163	→ 273

Short drill chuck – NC 2010

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

Scope of supply:
Toolholder including clamping key SW4



G 6,3 n_{max} 10000

84 716 ...

EUR
Y8

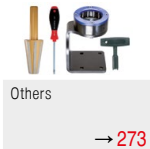
294,90 613
300,30 616

360,80 113
376,90 116

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm
HSK-A 63	0,5 - 13	48,5	56	50,9		126,0	116,9
HSK-A 63	2,5 - 16	51,0	56	50,9		127,5	116,9
HSK-A 100	0,5 - 13	48,5	56	50,9	86	129,0	120,0
HSK-A 100	2,5 - 16	51,0	56	50,9	86	130,5	120,0

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

Accessories



Others

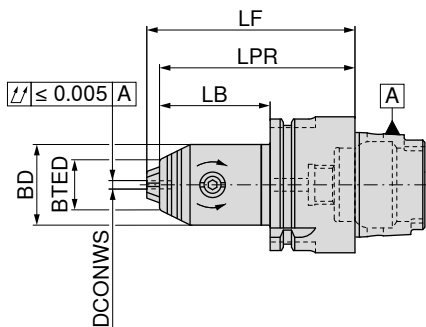
→ 273

Micro-precision collet chuck

- ▲ bidirectional
- ▲ for speeds up to 60,000 1/min.
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm
HSK-A 32	0,2 - 3,4	26	46	49	19	12	2
HSK-A 40	0,2 - 3,4	26	46	49	19	12	2
HSK-A 50	0,2 - 3,4	26	52	55	19	12	2

84 710 ...

EUR	
Y7	
530,20	334
571,30	434
591,80	534

**Spare parts
for Article no.**

84 710 334
84 710 434
84 710 534



TORX® blade



Torque
screwdriver

80 950 ...

EUR	
Y7	
5,77	152
5,77	152
5,77	152

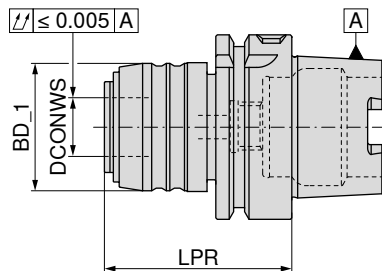
1,8 Nm
1,8 Nm
1,8 Nm

80 021 ...

EUR	
Y7	
99,95	018
99,95	018
99,95	018

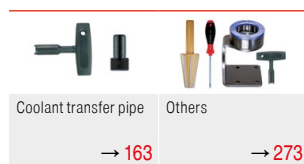
Synchro tapping chuck with minimum length compensation

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



							83 724 ...	
Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm	EUR Y8	
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2	208,50	612
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2	261,40	620
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2	332,70	112
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2	390,00	120

Accessories



Coolant transfer pipe

→ 163

Others

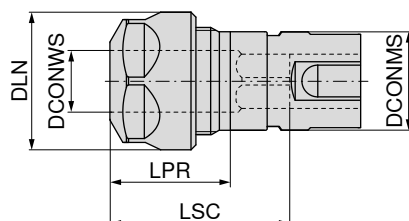
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



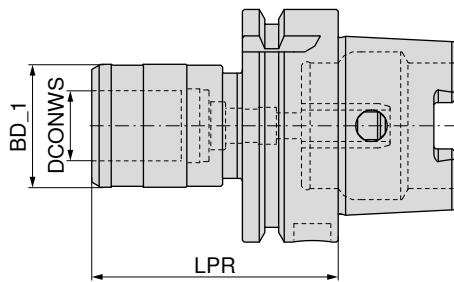
								83 608 ...	
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	020

Spare parts for synchronous tapping chucks

	 Lock nut			 Lock nut IK			 Lock nut			 Y clamping key		
	62 950 ...			83 950 ...			62 950 ...			83 357 ...		
Spare parts for Article no.	EUR W7			EUR Y8			EUR W7			EUR Y8		
83 608 012	M22x1,5 - SW25	18,35	044	M22x1,5	31,54	054				16,52	116	
83 608 020				M32x1,5	35,76	055	M32x1,5	20,52	055	18,25	125	

Quick change tap chuck with length compensation

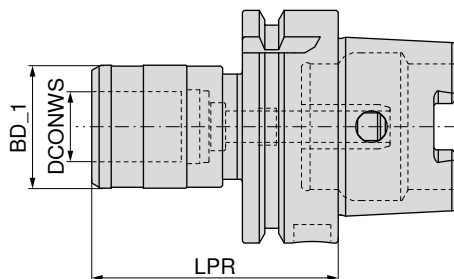
- ▲ With length compensation under tension and compression (LZD)
- ▲ also available with Balluff chip **on request**



						83 712 ...	
Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	EUR Y8	
HSK-A 63	01	72	41	19	7,5	411,50	612
HSK-A 63	02	110	60	31	10	477,40	620
HSK-A 100	01	80	41	19	7,5	693,40	112
HSK-A 100	02	100	60	31	10	693,40	120

Quick change tap chuck without length compensation

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



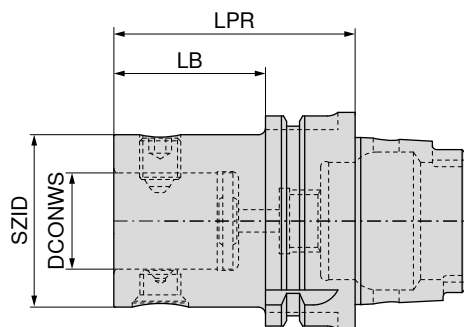
						83 710 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	EUR Y8	
HSK-A 63	M3 - M12	01	63	33	19	274,30	612
HSK-A 63	M6 - M20	02	89	50	31	347,70	620
HSK-A 100	M3 - M12	01	69	33	19	345,70	112
HSK-A 100	M6 - M20	02	92	50	31	426,60	120

Accessories

		
Collet	Coolant transfer pipe	Others
→ 277-281	→ 163	→ 273

Adapter with ABS Connection

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



NEW



G 6,3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	
			mm	mm	mm	
HSK-A 63	A06 30120	ABS 25	13	50	24	
HSK-A 63	A06 30130	ABS 32	16	50	24	
HSK-A 63	A06 30140	ABS 40	20	60	34	
HSK-A 63	A06 30150	ABS 50	28	70	44	
HSK-A 63	A06 30160	ABS 63	34	80	54	
HSK-A 63	A06 30170	ABS 80	46	100	74	
HSK-A 100	A06 50120	ABS 25	13	60	31	
HSK-A 100	A06 50130	ABS 32	16	60	31	
HSK-A 100	A06 50140	ABS 40	20	80	51	
HSK-A 100	A06 50150	ABS 50	28	80	51	
HSK-A 100	A06 50160	ABS 63	34	80	51	
HSK-A 100	A06 50170	ABS 80	46	90	61	
HSK-A 100	A06 50180	ABS 100	56	100	71	

EUR
3E

263,70 06390

263,70 06389

263,70 06388

263,70 06397

263,70 06396

263,70 06392

290,60 10090

290,60 10089

290,60 10088

290,60 10097

290,60 10096

290,60 10092

290,60 10091

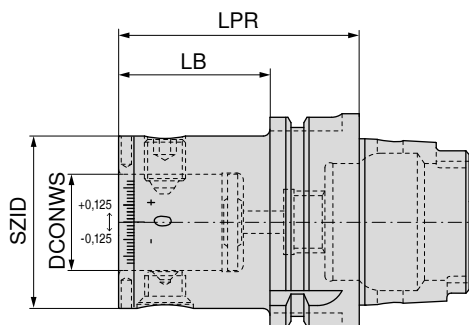
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

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

Scope of supply:

Eccentric adjuster with adjuster key $\varnothing 2.8$ mm



NEW



84 203 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	
			mm	mm	mm	
HSK-A 63	A06 36730	ABS 50	28	70,0	39,5	
HSK-A 100	A06 56730	ABS 50	28	75,5	46,5	
HSK-A 100	A06 56740	ABS 63	34	80,0	51,0	

EUR
W4

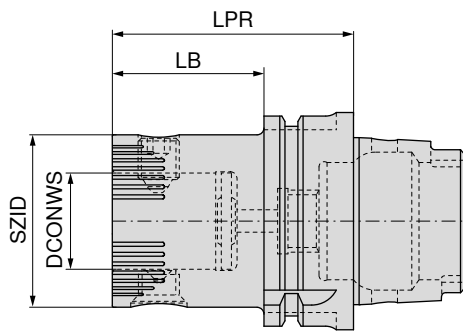
529,50 06397

555,30 10097

555,30 10096

Torsional vibration dampers with ABS Connection

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



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm		
HSK-A 63	A06 30251	ABS 50	28	70	44		
HSK-A 63	A06 30261	ABS 63	34	80	54		
HSK-A 63	A06 30270	ABS 80	46	100	74		
HSK-A 100	A06 50261	ABS 63	34	80	51		
HSK-A 100	A06 50251	ABS 50	28	80	51		
HSK-A 100	A06 50270	ABS 80	46	90	61		

84 206 ...

EUR
3E

700,70 06397

730,00 06396

1.028,00 06392

842,40 10096

764,20 10097

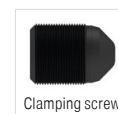
969,30 10092

Spare parts SZID

ABS 50

ABS 63

ABS 80



Clamping screw

84 950 ...

EUR
XX

12,82 20300

14,11 25500

15,97 25600



Set

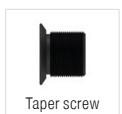
84 950 ...

EUR
XX

29,20 99800

31,57 99400

35,48 99300



Taper screw

84 950 ...

EUR
XX

16,43 20400

17,61 27300

19,67 25100

Accessories



Coolant transfer pipe

→ 163



Extension

→ 193

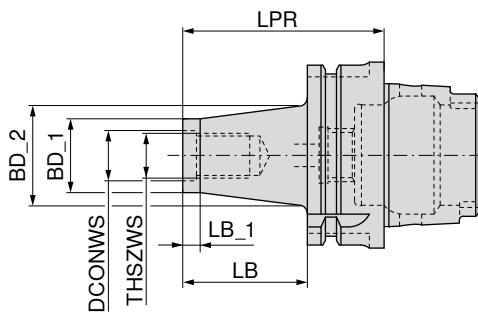


Others

→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

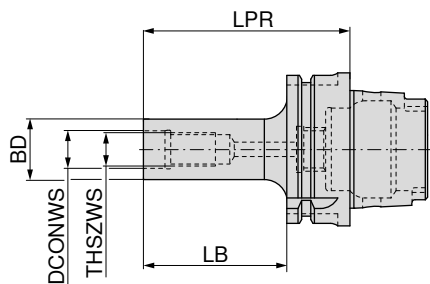
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR		
		mm	mm	mm	mm	mm	mm		
HSK-A 63	M8	8,5	25	13,8	15	12	51	174,00	081
HSK-A 63	M8	8,5	50	13,8	23	12	76	186,80	082
HSK-A 63	M8	8,5	75	13,8	25	12	101	199,80	083
HSK-A 63	M8	8,5	100	13,8	30	12	126	215,00	084
HSK-A 63	M10	10,5	25	18,0	23	12	51	174,00	101
HSK-A 63	M10	10,5	50	18,0	25	12	76	186,80	102
HSK-A 63	M10	10,5	75	18,0	30	12	101	199,80	103
HSK-A 63	M10	10,5	100	18,0	35	12	126	215,00	104
HSK-A 63	M12	12,5	25	21,0	24	12	51	174,00	121
HSK-A 63	M12	12,5	50	21,0	30	12	76	186,80	122
HSK-A 63	M12	12,5	75	21,0	35	12	101	199,80	123
HSK-A 63	M12	12,5	100	21,0	38	12	126	215,00	124
HSK-A 63	M12	12,5	125	21,0	43	12	151	230,10	125
HSK-A 63	M12	12,5	150	21,0	45	12	176	242,00	126
HSK-A 63	M16	17,0	25	29,0	29	12	51	174,00	161
HSK-A 63	M16	17,0	50	29,0	34	12	76	186,80	162
HSK-A 63	M16	17,0	75	29,0	35	12	101	199,80	163
HSK-A 63	M16	17,0	100	29,0	40	12	126	215,00	164
HSK-A 63	M16	17,0	125	29,0	44	12	151	230,10	165
HSK-A 63	M16	17,0	150	29,0	48	12	176	242,00	166

Accessories

Extension-Reduction set	Coolant transfer pipe	Others
245	163	273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

Adapter	THSZWS	DCONWS	BD	LB	LPR
		mm	mm	mm	mm
HSK-A 63	M8	8,5	13,8	50	76
HSK-A 63	M10	10,5	18,0	50	76
HSK-A 63	M10	10,5	18,0	100	126
HSK-A 63	M12	12,5	21,0	50	76
HSK-A 63	M12	12,5	21,0	100	126
HSK-A 63	M16	17,0	29,0	50	76
HSK-A 63	M16	17,0	29,0	100	126

56 719 ...

EUR
WA

186,80

082

186,80

102

215,00

104

186,80

122

215,00

124

186,80

162

215,00

164

Accessories

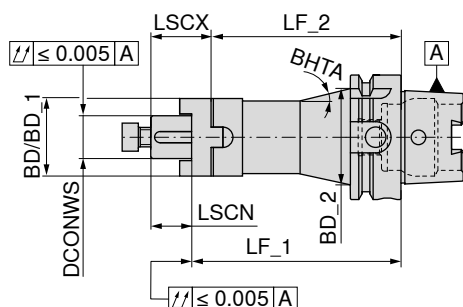
Extension-Reduction set	Coolant transfer pipe	Others
245	163	273

Combination shell mill adapter

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

Scope of supply:

Toolholder with retaining screw, driving ring and dowel spring



	Adapter	DCONWS mm	LF_1 mm	LF_2 mm	BD mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	BHTA	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
											81 738 ...	EUR Y8	81 738 ...	EUR Y8	81 739 ...	EUR Y8	81 740 ...	EUR Y8
short	HSK-A 63	16	60	50	32			27	17		121,30	616						
	HSK-A 63	22	60	48	40			31	19		123,10	622						
	HSK-A 63	27	60	48	48			33	21		127,60	627						
	HSK-A 63	32	60	46	53			38	24		131,10	632						
	HSK-A 63	40	70	56	70			41	27		132,90	640						
	HSK-A 100	16	60	50	32			27	17				164,20	116				
	HSK-A 100	22	60	48	40			31	19				165,90	122				
	HSK-A 100	27	60	48	48			33	21				167,80	127				
	HSK-A 100	32	60	46	58			38	24				175,70	132				
	HSK-A 100	40	70	56	70			41	27				179,30	140				
long	HSK-A 63	16	100	90	32			27	17						132,90	616		
	HSK-A 63	22	100	88	40			31	19						132,90	622		
	HSK-A 63	27	100	88	48			33	21						134,70	627		
	HSK-A 63	32	100	86	58			38	24						142,80	632		
	HSK-A 63	40	100	86	70			41	27						164,20	640		
extra-long	HSK-A 63	16	160	150		32	43,21	27	17	4,5°							149,90	616
	HSK-A 63	22	160	148		40	47,25	31	19	3,0°							149,90	622
	HSK-A 63	27	160	148	48			33	21								151,60	627
	HSK-A 63	32	160	146	58			38	24								161,40	632
	HSK-A 63	40	160	146	70			41	27								186,50	640



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

Spare parts DCONWS			83 950 ...		83 370 ...		81 950 ...	
			EUR Y8		EUR Y8		EUR Y8	
16	4 x 4 x 20	Parallel key	1,68	284	10,21	116	3,05	020
22	6 x 6 x 25	Drive ring	1,68	285	11,34	122	3,54	021
27	7 x 7 x 25	Retaining screw	3,24	286	12,20	127	3,98	022
32	8 x 7 x 28		1,93	287	14,58	132	5,24	023
40	10 x 8 x 32		2,06	288	21,70	140		

Accessories

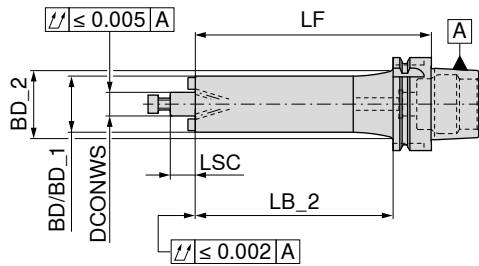
Milling Adapter Rings	Coolant transfer pipe	Others
→ 253	→ 163	→ 273

Shell mill adapter

- ▲ For milling cutters with transverse or longitudinal groove ISO 3937
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with fixed drive dogs, dowel spring and retaining screw

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

84 750 ...

84 754 ...

84 755 ...

84 757 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm	EUR Y8		EUR Y8		EUR Y8		EUR Y8
short	HSK-A 63	16	34	60	38			17	199,80	616					
	HSK-A 63	22	34	60	48			19	202,00	622					
	HSK-A 63	27	34	60	58			21	216,00	627					
	HSK-A 63	32	34	60	72			24	218,20	632					
	HSK-A 63	40	34	70	80			27	221,50	640					
	HSK-A 100	16	31	60	38			17	210,60	116					
	HSK-A 100	22	31	60	48			19	217,00	122					
	HSK-A 100	27	31	60	58			21	221,50	127					
	HSK-A 100	32	31	60	72			24	230,10	132					
	HSK-A 100	40	41	70	80			27	249,50	140					
long	HSK-A 63	16	74	100		38	44,3	17			218,20	616			
	HSK-A 63	22	74	100		48	50,3	19			218,20	622			
	HSK-A 63	27	74	100	58			21			232,30	627			
	HSK-A 63	32	74	100	72			24			232,30	632			
	HSK-A 63	40	74	100	80			27			243,10	640			
	HSK-A 100	16	71	100		38	46,3	17			218,20	116			
	HSK-A 100	22	71	100		48	56,3	19			229,00	122			
	HSK-A 100	27	71	100		58	66,3	24			235,40	127			
	HSK-A 100	32	71	100		72	80,3	24			245,10	132			
	HSK-A 100	40	71	100	80			27			252,80	140			
medium length	HSK-A 63	16	104	130		38	44,3	17					220,30	616	
	HSK-A 63	22	104	130		48	50,3	19					220,30	622	
	HSK-A 63	27	104	130	58			21					233,30	627	
	HSK-A 63	32	104	130	72			24					233,30	632	
	HSK-A 63	40	104	130	80			27					244,10	640	
	HSK-A 100	16	101	130		38	46,3	17					234,30	116	
	HSK-A 100	22	101	130		48	56,3	19					244,10	122	
	HSK-A 100	27	101	130		58	66,3	21					259,30	127	
	HSK-A 100	32	101	130		72	80,3	24					262,40	132	
	HSK-A 100	40	101	130	80			27					276,60	140	
extra-long	HSK-A 63	16	134	160		38	44,3	17							198,70 616
	HSK-A 63	22	134	160		48	50,3	19							206,20 622
	HSK-A 63	27	134	160	58			21							213,90 627
	HSK-A 63	32	134	160	72			24							223,50 632
	HSK-A 63	40	134	160	80			27							231,10 640
	HSK-A 100	16	131	160		38	46,3	17							245,10 116
	HSK-A 100	22	131	160		48	56,3	19							248,40 122
	HSK-A 100	27	131	160		58	66,3	21							260,30 127
	HSK-A 100	32	131	160		72	80,3	24							267,80 132
	HSK-A 100	40	131	160	80			27							278,60 140

Spare parts facemill adapters

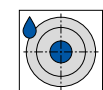
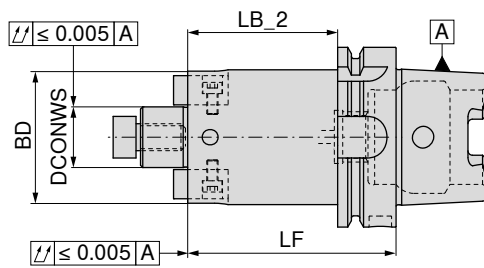
					
		83 950 ...	62 950 ...	62 950 ...	83 950 ...
Spare parts		EUR	EUR	EUR	EUR
DCONWS		Y8	W7	W7	Y8
16	4 x 4 x 20	1,68	18,47	45,58	2,97
22	6 x 6 x 25	1,68	18,47	52,60	3,43
27	7 x 7 x 25	3,24	18,47	57,89	3,78
32	8 x 7 x 28	1,93	18,47	75,39	4,70
40	10 x 8 x 32	2,06	18,47	94,61	6,67
		284	442	433	113
	M4x15		18,47		
	M5x17		18,47		
	M6x21		18,47		
	M6x22		18,47		
	M6x23		18,47		
	M8x16 - SW6			433	
	M10x18 - SW8			434	
	M12x20 - SW10			435	
	M16x26 - SW12			436	
	M20x30 - SW14			437	
	M8x25				113
	M10x25				124
	M12x30				125
	M16x35				126
	M20x40 - SW17				112

Shell mill adapter

- ▲ Enlarged seating surface (Ø BD)
- ▲ for face mills with transverse groove ISO 3937
- ▲ also available with Balluff chip on request

Scope of supply:

Toolholder with retaining screw and drive dogs



	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	G 2,5 n _{max} 18000 81 728 ... EUR Y8	G 2,5 n _{max} 18000 81 728 ... EUR Y8	G 2,5 n _{max} 18000 81 741 ... EUR Y8	G 2,5 n _{max} 18000 81 742 ... EUR Y8	G 2,5 n _{max} 18000 81 747 ... EUR Y8
short	HSK-A 63	16	24	50	38	150,80	216	100,90	616	
	HSK-A 63	22	24	50	48	152,70	222	102,60	622	
	HSK-A 63	27	34	60	58	162,40	227	107,90	627	
	HSK-A 63	32	34	60	78	164,20	232	112,40	632	
	HSK-A 63	40	34	60	88	156,20	240 ¹⁾	130,30	640 ¹⁾	
	HSK-A 100	16	21	50	38		159,70			
	HSK-A 100	22	21	50	48		163,30			
	HSK-A 100	27	21	50	58		165,90			
	HSK-A 100	32	21	50	78		173,10			
	HSK-A 100	40	31	60	88		188,30			
long	HSK-A 100	60	41	70	129		211,50			
	HSK-A 63	16	74	100	38			142,80	616	164,20
	HSK-A 63	22	74	100	48			144,50	622	164,20
	HSK-A 63	27	74	100	58			146,30	627	175,70
	HSK-A 63	32	74	100	78			146,30	632	175,70
	HSK-A 63	40	74	100	88			151,60	640 ¹⁾	182,90

1) With cross recess screw and threaded holes M12 on the front face, pitch circle diameter = 66.7 mm

2) With threaded holes M16 on the front face, pitch circle diameter = 101.6 mm

Spare parts facemill adapters

								
			Cross nut key		Retaining screw		Retaining screw	
			83 368 ...		83 367 ...		81 950 ...	
Spare parts			EUR		EUR		EUR	
DCONWS			Y8		Y8		Y8	
16	11,01	116	M8	3,33	016	M8x20 - 30 Nm	3,05	020
22	13,72	122	M10	3,65	022	M10x30 - 50 Nm	3,54	021
27	17,60	127	M12	4,67	027	M12x35 - 80 Nm	3,98	022
32	22,68	132	M16	7,50	032	M16x40 - 110 Nm	5,24	023
40	31,65	140	M20	11,89	040			
60								

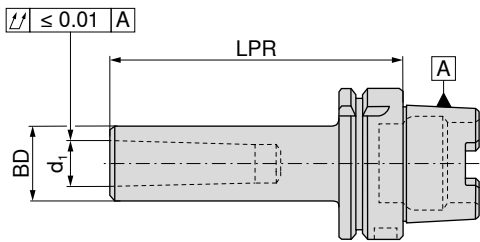
													
				drive dogs					Drive screw				
				81 950 ...				81 950 ...					
Spare parts				EUR				EUR					
DCONWS				Y8				Y8					
16		8x8x14	7,45	001	M3x8	0,39	010						
22		10x10x17	7,71	002	M4x8	0,49	011						
27		12x14x20	8,73	003	M4x14	0,59	012						
32		14x14x22	9,00	004	M5x13	0,66	013						
40		15,9x16x21	11,56	005	M6x16	0,80	014						
60		25,4x25x31	15,01	006	M12x25	8,66	015						

Accessories

		
Extensions	Coolant transfer pipe	Others
→ 252	→ 163	→ 273

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

▲ also available with Balluff chip on request



G 2,5 n_{max} 18000

81 744 ...

EUR
Y8

Adapter	d ₁	LPR mm	BD mm		
HSK-A 63	MK1	100	25	114,10	601
HSK-A 63	MK2	120	32	121,30	602
HSK-A 63	MK3	140	40	124,90	603
HSK-A 63	MK4	160	48	134,70	604
HSK-A 100	MK1	110	25	138,30	101
HSK-A 100	MK2	120	32	142,80	102
HSK-A 100	MK3	150	40	146,30	103
HSK-A 100	MK4	170	48	159,70	104
HSK-A 100	MK5	200	63	208,80	105

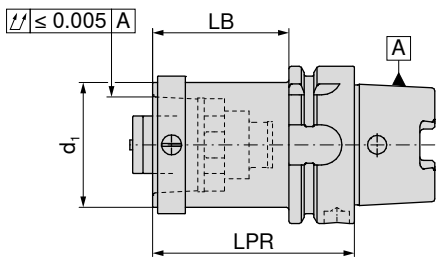
Accessories

		
Morse taper adapter sleeve	Coolant transfer pipe	Others
→ 230	→ 163	→ 273

HSK-A reduction

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

Scope of supply:
with clamping cartridge and cover ring



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

84 040 ...

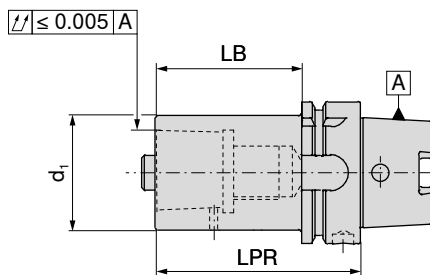
EUR	
Y8	
510,80	06359
520,40	06358
605,70	10058
605,70	10057

HSK-A/PSC adapter

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

Scope of supply:

with tightening screw



NEW



				84 013 ...	
				EUR	
Adapter	d ₁	LB mm	LPR mm	Y8	
HSK-A 63	PSC 32	49	75	264,00	06387
HSK-A 63	PSC 40	54	80	283,00	06395
HSK-A 63	PSC 50	64	90	283,00	06394
HSK-A 100	PSC 32	51	80	311,40	10087
HSK-A 100	PSC 40	61	90	320,90	10095
HSK-A 100	PSC 50	71	100	330,30	10094
HSK-A 100	PSC 63	81	110	377,90	10093
HSK-A 100	PSC 80	91	120	406,40	10086



Threaded ring



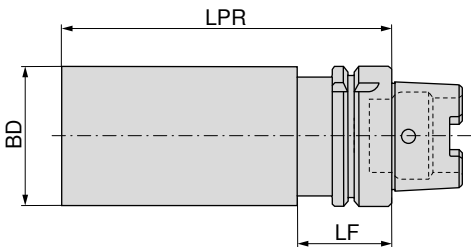
tightening screw

Spare parts

d ₁	84 950 ...		84 950 ...	
	EUR		EUR	
	Y8		Y8	
PSC 32	26,46	127	19,12	122
PSC 40	26,46	128	21,60	123
PSC 50	26,46	129	21,60	124
PSC 63	52,82	130	24,19	126
PSC 80	52,82	130	24,19	126

Blank

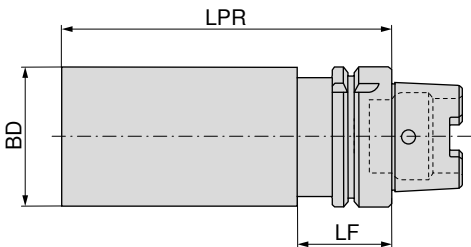
- ▲ Material: 20NiCrMo2
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 35^{±3} HRC
- ▲ also available with Balluff chip **on request**



				81 745 ...	
Adapter	BD mm	LPR mm	LF mm	EUR Y8	
HSK-A 32	35,0	150	35	89,22	335
HSK-A 40	40,0	150	35	89,22	440
HSK-A 40	52,0	200	35	104,30	452
HSK-A 50	52,0	200	42	105,30	552
HSK-A 50	63,0	200	42	109,70	563
HSK-A 63	63,0	200	42	119,60	663
HSK-A 63	80,0	250	42	128,40	680
HSK-A 100	63,0	200	45	153,50	163
HSK-A 100	80,0	250	45	183,80	180
HSK-A 100	97,5	250	45	208,80	190

Blank

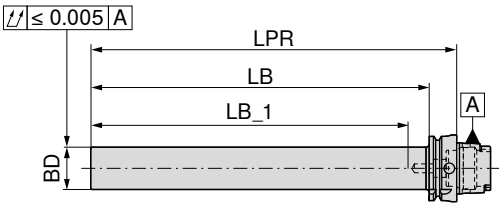
- ▲ For the production of special tools
- ▲ Material: case hardened steel 16MnCr5
- ▲ Taper hardened and ground
- ▲ Tool production area = soft
- ▲ also available with Balluff chip **on request**



				84 799 ...	
Adapter	BD mm	LPR mm	LF mm	EUR Y8	
HSK 63	63	200	42	157,70	663
HSK 63	80	250	42	170,70	680

Test arbor

Scope of supply:
in wooden box



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

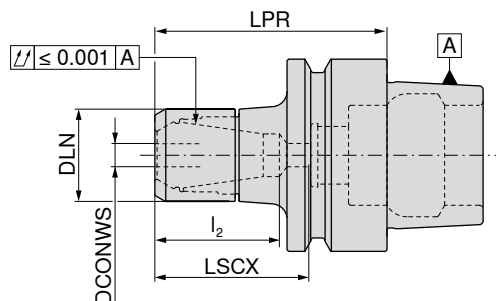
81 746 ...

EUR	
Y8	
326,80	063
417,60	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** backstopG 2,5 $n_{\max}$ 30000

84 776 ...

EUR
Y8144,90 417
160,60 516

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

→ Transmittable torque moments, Page 300



LSCX = Clamping depth without back stop screw for shanks

 l_2 = With back stop screw 1

Dimension LPR when using tightening nuts with seals 4 mm longer

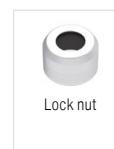


Lock nut IK

84 950 ...

EUR
Y8

39,37 013



Lock nut

84 950 ...

EUR
Y8

32,09 003

Spare parts
for collet

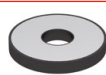
430E (ER25)

Accessories



ER collet

→ 256-263, 266



Sealing ring

→ 269



Roll key

→ 275



Roll key device

→ 275



Coolant transfer pipe

→ 163



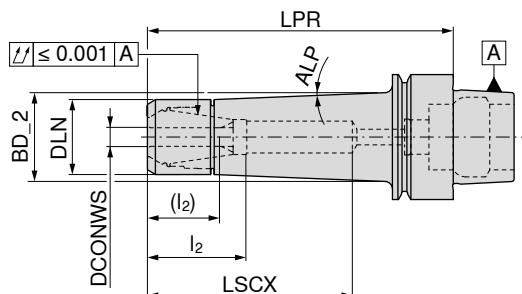
Others

→ 273

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopG 2,5 $n_{\max}$ 30000

84 774 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	EUR Y8	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	164,80	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	156,40	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	133,60	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	152,20	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	148,00	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	115,00	410
	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	127,30	510
long	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	150,20	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	137,70	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	143,90	511

→ Transmittable torque moments, Page 300



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

Spare parts
for collet

4008E (ER11 mini)
 426E (ER16 mini)

Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...
EUR Y8	EUR Y8	EUR Y8	EUR Y8
34,14	041	13,94	340
10,23	336	10,23	337
42,46	035	34,14	034
		14,50	341

Accessories

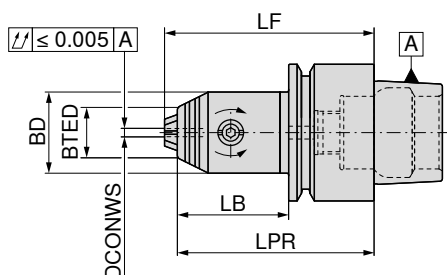
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

Micro-precision collet chuck

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

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000

84 712 ...

EUR

Y7

505,40

234

545,40

334

566,00

434

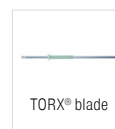
Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm
HSK-E 25	0,2 - 3,4	27	37	40	19	12	2
HSK-E 32	0,2 - 3,4	26	46	49	19	12	2
HSK-E 40	0,2 - 3,4	26	46	49	19	12	2

Spare parts for Article no.

84 712 234

84 712 334

84 712 434



TORX® blade

80 950 ...

EUR

Y7

5,77

152

1,8 Nm



Torque
screwdriver

80 021 ...

EUR

Y7

99,95

018

99,95

018

99,95

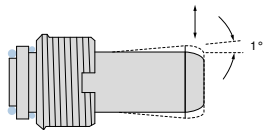
018

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals



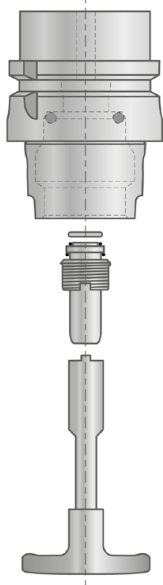
		83 760 ...	
Adapter	THOD	EUR Y8	
HSK 32	M10 x 1	7,96	032
HSK 40	M12 x 1	7,96	040
HSK 50	M16 x 1	7,96	050
HSK 63	M18 x 1	8,20	063
HSK 80	M20 x 1,5	9,46	080
HSK 100	M24 x 1,5	9,81	100

Key

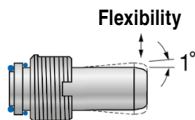


		83 758 ...	
Adapter		EUR Y8	
HSK 32		15,55	032
HSK 40		15,55	040
HSK 50		15,55	050
HSK 63		16,85	063
HSK 80		17,93	080
HSK 100		19,44	100

Coolant pipe for HSK tools



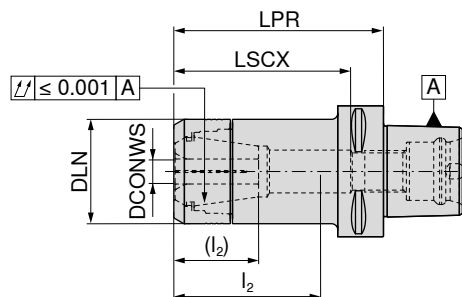
The coolant pipe is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during locating which would cause the loss of its sealing function. After mounting, the coolant pipe can be moved only to a minimum degree according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



ER Precision Collet chuck – Centro-P

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

Scope of supply:

Holder **without** nut, **without** backstopG 2,5 $n_{\max}$ 25000

84 112 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet	EUR Y8	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	246,50	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	255,90	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	269,40	502
PSC 50	1 - 16	60	40	48		430E (ER25)	255,90	505
PSC 50	2 - 20	60	50	49		470E (ER32)	255,90	507
PSC 63	1 - 10	60	30	44		426E (ER16)	255,80	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	270,30	602
PSC 63	1 - 16	60	40	38		430E (ER25)	255,80	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	270,30	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	288,90	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	325,20	608
PSC 63	2 - 20	60	50	42		470E (ER32)	255,80	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	270,30	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	288,90	611
PSC 63	3 - 26	65	63	51		472E (ER40)	271,30	612

→ Transmittable torque moments, Page 300



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

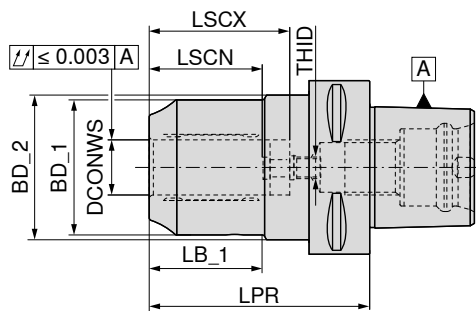
	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet	EUR Y8	EUR Y8	EUR Y8	EUR Y8
426E (ER16)	36,25 011	28,99 001	M11x1 - SW6 14,50 341	M11x1 - SW6 10,23 337
430E (ER25)	39,37 013	32,09 003	M18x1,5 - SW6 16,38 432	M18x1,5 - SW6 11,76 431
470E (ER32)	41,44 015	34,14 005	M22x1,5 - SW6 16,38 402	M22x1,5 - SW6 11,76 401
472E (ER40)	55,93 017	46,61 007		M28x1,5 - SW6 10,66 400

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 ...

EUR

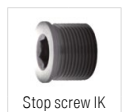
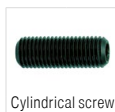
Y8

406,80

62000

Adapter	DCONWS mm	LPR mm	LB_1 mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID
PSC 63	20	80	41	49	52,5	51	41	M8x1

→ Min. clamping depth, Page 300



Spare parts for Article no.

84 108 62000	M5x5 - SW2,5	EUR Y7 1,91	157	SW5	EUR Y7 4,37	050	M10x1x14	EUR Y7 4,41	429	M16x1x13,5 - SW8	EUR Y7 9,62	424
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Accessories

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

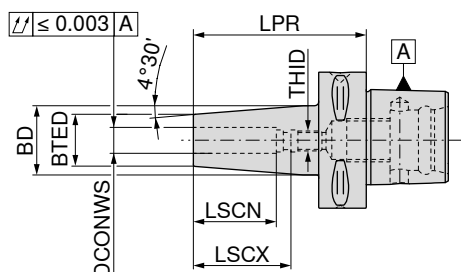
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



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

									84 104 ...		84 105 ...		84 106 ...	
									EUR		EUR		EUR	
									Y8		Y8		Y8	
Adapter	LPR	DCONWS	BTED	BD	LSCX	LSCN	THID							
mm	mm	mm	mm	mm	mm	mm	mm							
short	PSC 32	65	6	21	27	36	26	M5	168,50	306				
	PSC 32	65	8	21	27	36	26	M6	168,50	308				
	PSC 32	70	10	24	32	41	31	M8x1	168,50	310				
	PSC 32	75	12	24	32	47	37	M10x1	168,50	312				
	PSC 40	75	6	21	27	36	26	M5	171,70	406				
	PSC 40	75	8	21	27	36	26	M6	171,70	408				
	PSC 40	75	10	24	32	41	31	M8x1	171,70	410				
	PSC 40	75	12	24	32	47	37	M10x1	171,70	412				
	PSC 40	80	14	27	34	47	37	M10x1	171,70	414				
	PSC 40	80	16	27	34	50	40	M12x1	171,70	416				
	PSC 40	80	18	33	42	50	40	M12x1	171,70	418				
	PSC 40	85	20	33	42	52	42	M16x1	171,70	420				
	PSC 50	65	3	12	17				213,90	503				
	PSC 50	65	4	12	17				213,90	504				
	PSC 50	65	5	12	17				213,90	505				
	PSC 50	75	6	21	30	36	26	M5	178,20	506				
	PSC 50	75	8	21	30	36	26	M6	178,20	508				
	PSC 50	75	10	24	33	41	31	M8x1	178,20	510				
	PSC 50	75	12	24	33	47	37	M10x1	178,20	512				
	PSC 50	80	14	27	34	47	37	M10x1	178,20	514				
	PSC 50	80	16	27	34	50	40	M12x1	178,20	516				
	PSC 50	80	18	33	42	50	40	M12x1	178,20	518				
	PSC 50	85	20	33	42	52	42	M16x1	178,20	520				
	PSC 50	90	25	44	53	58	48	M16x1	178,20	525				
long	PSC 50	120	6	21	32	36	26	M5			213,90	506		
	PSC 50	120	8	21	32	36	26	M6			213,90	508		
	PSC 50	120	10	24	34	41	31	M8x1			213,90	510		
	PSC 50	120	12	24	34	47	37	M10x1			213,90	512		
	PSC 50	120	14	27	36	47	37	M10x1			213,90	514		
	PSC 50	120	16	27	36	50	40	M12x1			213,90	516		
	PSC 50	120	18	33	42	50	40	M12x1			213,90	518		
	PSC 50	120	20	33	42	52	42	M16x1			213,90	520		
	PSC 50	120	25	44	53	58	48	M16x1			213,90	525		
	PSC 50	120	25	44	53	58	48	M16x1			213,90	525		
short	PSC 63	80	3	12	17				262,40	603				
	PSC 63	80	4	12	17				262,40	604				
	PSC 63	80	5	12	17				262,40	605				
	PSC 63	80	6	21	27	36	26	M5	221,50	606				
	PSC 63	80	8	21	27	36	26	M6	221,50	608				
	PSC 63	80	10	24	32	41	31	M8x1	221,50	610				
	PSC 63	80	12	24	32	47	37	M10x1	221,50	612				
	PSC 63	85	14	27	34	47	37	M10x1	221,50	614				
	PSC 63	85	16	27	34	50	40	M12x1	221,50	616				
	PSC 63	85	18	33	42	50	40	M12x1	221,50	618				
	PSC 63	85	20	33	42	52	42	M16x1	221,50	620				
	PSC 63	90	25	44	53	58	48	M16x1	221,50	625				
	PSC 63	95	32	44	53	61	51	M16x1	221,50	632				
	PSC 63	95	32	44	53	61	51	M16x1	221,50	632				
	PSC 63	95	32	44	53	61	51	M16x1	221,50	632				

→ Min. clamping depth, Page 300

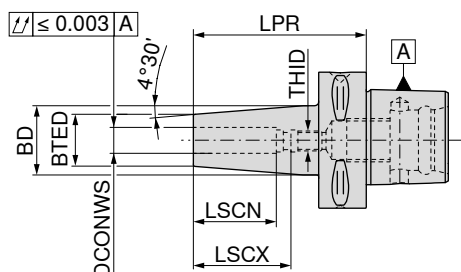
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



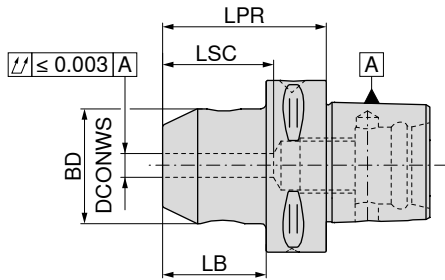
G 6,3 n_{max} 15000 G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 104 ...		84 105 ...		84 106 ...	
									EUR Y8		EUR Y8		EUR Y8	
long	PSC 63	120	6	21	32	36	26	M5			262,40	606		
	PSC 63	120	8	21	32	36	26	M6			262,40	608		
	PSC 63	120	10	24	32	41	31	M8x1			262,40	610		
	PSC 63	120	12	24	32	47	37	M10x1			262,40	612		
	PSC 63	120	14	27	36	47	37	M10x1			262,40	614		
	PSC 63	120	16	27	36	50	40	M12x1			262,40	616		
	PSC 63	120	18	33	44	50	40	M12x1			262,40	618		
	PSC 63	120	20	33	44	52	42	M16x1			262,40	620		
	PSC 63	120	25	44	53	58	48	M16x1			262,40	625		
extra-long	PSC 63	120	32	44	53	61	51	M16x1			262,40	632		
	PSC 63	160	6	21	32	36	26	M5					287,40	606
	PSC 63	160	8	21	32	36	26	M6					287,40	608
	PSC 63	160	10	24	34	41	31	M8x1					287,40	610
	PSC 63	160	12	24	34	47	37	M10x1					287,40	612
	PSC 63	160	14	27	36	47	37	M10x1					287,40	614
	PSC 63	160	16	27	36	50	40	M12x1					287,40	616
	PSC 63	160	18	33	44	50	40	M12x1					287,40	618
	PSC 63	160	20	33	44	52	42	M16x1					287,40	620
short	PSC 80	160	25	44	53	58	48	M16x1					287,40	625
	PSC 80	160	32	44	53	61	51	M16x1					287,40	632
	PSC 80	85	6	21	27	36	26	M5	237,60	806				
	PSC 80	85	8	21	27	36	26	M6	237,60	808				
	PSC 80	85	10	24	32	41	31	M8x1	237,60	810				
	PSC 80	85	12	24	32	47	37	M10x1	237,60	812				
	PSC 80	90	14	27	34	47	37	M10x1	237,60	814				
	PSC 80	90	16	27	34	50	40	M12x1	237,60	816				
	PSC 80	90	18	33	42	50	40	M12x1	237,60	818				
long	PSC 80	90	20	33	42	52	42	M16x1	237,60	820				
	PSC 80	95	25	44	53	58	48	M16x1	237,60	825				
	PSC 80	100	32	44	53	61	51	M16x1	237,60	832				
	PSC 80	120	6	21	32	36	26	M5			284,10	806		
	PSC 80	120	8	21	32	36	26	M6			284,10	808		
	PSC 80	120	10	24	34	41	31	M8x1			284,10	810		
	PSC 80	120	12	24	34	47	37	M10x1			284,10	812		
	PSC 80	120	14	27	36	47	37	M10x1			284,10	814		
	PSC 80	120	16	27	36	50	40	M12x1			284,10	816		
long	PSC 80	120	18	33	44	50	40	M12x1			284,10	818		
	PSC 80	120	20	33	44	52	42	M16x1			284,10	820		
	PSC 80	120	25	44	53	58	48	M16x1			284,10	825		
	PSC 80	120	32	44	53	61	51	M16x1			284,10	832		

→ Min. clamping depth, Page 300

Cylindrical shank adapter (Weldon)

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

G 6,3 n_{max} 15000

84 100 ...

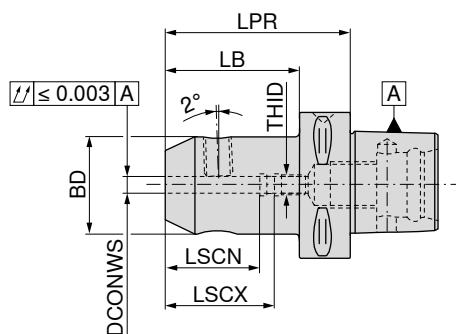
EUR
Y8

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm		
PSC 32	6	45	25	30	35	139,40	306
PSC 32	8	45	28	30	35	139,40	308
PSC 32	10	50	35	35	39	139,40	310
PSC 32	12	55	42	40	44	139,40	312
PSC 40	6	50	25	30	35	152,30	406
PSC 40	8	50	28	30	35	152,30	408
PSC 40	10	50	35	30	39	152,30	410
PSC 40	12	55	42	35	44	152,30	412
PSC 40	14	55	44	35	44	152,30	414
PSC 40	16	55	48	35	47	152,30	416
PSC 50	6	50	25	30	35	155,50	506
PSC 50	8	50	28	30	35	155,50	508
PSC 50	10	55	35	35	39	155,50	510
PSC 50	12	60	42	40	44	155,50	512
PSC 50	14	60	44	40	44	155,50	514
PSC 50	16	60	48	40	47	155,50	516
PSC 50	18	60	50	40	47	155,50	518
PSC 50	20	60	52	40	47	155,50	520
PSC 50	25	80	65	60	54	155,50	525
PSC 63	6	55	25	33	35	171,70	606
PSC 63	8	55	28	33	35	171,70	608
PSC 63	10	60	35	38	39	171,70	610
PSC 63	12	60	42	38	44	171,70	612
PSC 63	14	60	44	38	44	171,70	614
PSC 63	16	65	48	43	47	171,70	616
PSC 63	18	65	50	43	47	171,70	618
PSC 63	20	65	52	43	49	171,70	620
PSC 63	25	80	65	58	54	171,70	625
PSC 63	32	90	72	68	58	171,70	632
PSC 63	40	100	80	78	75	171,70	640
PSC 80	6	70	25	40	35	189,00	806
PSC 80	8	70	28	40	35	189,00	808
PSC 80	10	70	35	40	39	189,00	810
PSC 80	12	70	42	40	44	189,00	812
PSC 80	14	70	44	40	44	189,00	814
PSC 80	16	70	48	50	47	189,00	816
PSC 80	18	70	50	40	47	189,00	818
PSC 80	20	70	52	40	49	189,00	820
PSC 80	25	80	65	50	54	189,00	825
PSC 80	32	80	72	50	58	189,00	832
PSC 80	40	110	80	80	75	189,00	840
PSC 80	50	120	100	90	83	189,00	850

Cylindrical Shank Adapter (Whistle Notch)

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

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



G 6,3 n_{max} 15000

84 102 ...

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSCX mm	LSCN mm	THID	EUR Y8	
PSC 32	6	70	25	55	38	28	M5	139,40	306
PSC 32	8	70	28	55	38	28	M6	139,40	308
PSC 32	10	70	35	55	41	31	M8	139,40	310
PSC 32	12	75	42	60	47	37	M10	139,40	312
PSC 40	6	70	25	50	38	28	M5	152,30	406
PSC 40	8	70	28	50	38	28	M6	152,30	408
PSC 40	10	70	35	50	41	31	M8	152,30	410
PSC 40	12	75	42	55	47	37	M10	152,30	412
PSC 40	14	75	44	55	47	37	M10	152,30	414
PSC 50	6	70	25	50	38	28	M5	155,50	506
PSC 50	8	70	28	50	38	28	M6	155,50	508
PSC 50	10	70	35	50	41	31	M8	155,50	510
PSC 50	12	75	42	55	47	37	M10	155,50	512
PSC 50	14	75	44	55	47	37	M10	155,50	514
PSC 50	16	80	48	60	50	40	M12	155,50	516
PSC 50	18	80	50	60	50	40	M12	155,50	518
PSC 50	20	85	52	65	52	42	M16	155,50	520
PSC 63	6	75	25	53	38	28	M5	171,70	606
PSC 63	8	75	28	53	38	28	M6	171,70	608
PSC 63	10	75	35	53	41	31	M8	171,70	610
PSC 63	12	80	42	58	47	37	M10	171,70	612
PSC 63	14	80	44	58	47	37	M10	171,70	614
PSC 63	16	80	48	58	50	40	M12	171,70	616
PSC 63	18	80	50	58	50	40	M12	171,70	618
PSC 63	20	85	52	63	52	42	M16	171,70	620
PSC 63	25	90	65	68	58	48	M16	171,70	625
PSC 63	32	95	72	73	61	51	M16	171,70	632
PSC 80	6	65	25	35	38	28	M5	189,00	806
PSC 80	8	65	28	35	38	28	M6	189,00	808
PSC 80	10	65	35	35	41	31	M8	189,00	810
PSC 80	12	70	42	40	47	37	M10	189,00	812
PSC 80	14	70	44	40	47	37	M10	189,00	814
PSC 80	16	75	48	45	50	40	M12	189,00	816
PSC 80	18	75	50	45	50	40	M12	189,00	818
PSC 80	20	80	52	50	52	42	M16	189,00	820
PSC 80	25	90	65	60	58	48	M16	189,00	825
PSC 80	32	95	72	65	61	51	M16	189,00	832



Backstop
screw IK

84 950 ...

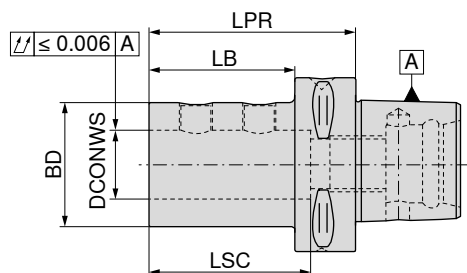
Spare parts DCONWS

		EUR Y8	
6	M5	8,54	146
8	M6	8,54	147
10	M8	8,54	148
12 - 14	M10	8,54	149
16 - 18	M12	8,54	150
20 - 32	M16	8,54	151

Indexable insert drill adapter ISO 26623-1 PSC

▲ Run out ≤ 0.005 mm

▲ also available with Balluff chip on request



						84 128 ...	
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	EUR Y8	
PSC 32	16	60	36	45	49	230,10	316
PSC 32	20	60	40	45	54	230,10	320
PSC 40	16	60	36	40	49	237,60	416
PSC 40	20	60	40	40	54	237,60	420
PSC 40	25	80	45	50	59	237,60	425
PSC 50	16	65	36	45	49	254,90	516
PSC 50	20	65	40	45	54	254,90	520
PSC 50	25	70	45	50	59	254,90	525
PSC 50	32	75	52	55	63	254,90	532
PSC 63	16	70	36	48	49	254,90	616
PSC 63	20	70	40	48	54	254,90	620
PSC 63	25	75	45	53	59	254,90	625
PSC 63	32	75	52	53	63	254,90	632
PSC 63	40	85	65	63	73	254,90	640
PSC 63	50	115	75	93	83	254,90	650
PSC 80	16	80	36	50	49	304,60	816
PSC 80	20	80	40	50	54	304,60	820
PSC 80	25	85	45	55	59	304,60	825
PSC 80	32	90	52	60	63	304,60	832
PSC 80	40	95	65	65	73	304,60	840
PSC 80	50	100	75	70	83	304,60	850



Grubscrew

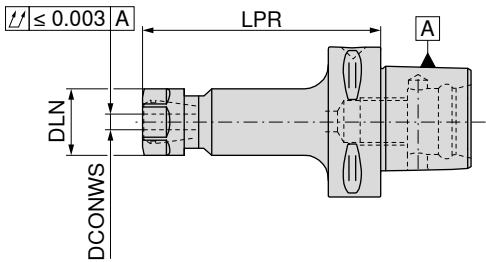
Spare parts

DCONWS

				83 950 ...	
				EUR Y8	
16 - 20			M10x1x10	5,05	180
25 - 32			M10x1x12	5,05	181
40 - 50			M16x1x13	6,20	182

ER Collet chuck

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



G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	84 114 ...	
PSC 32	1 - 10	45	28	8 - 56	426E (ER16)	EUR Y8 123,20	304
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)	130,70	404
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)	139,40	504
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	164,20	506
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	139,40	604
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	164,20	606
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	155,50	804
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	180,40	806



Lock nut

62 950 ...

Spare parts for collet

426E (ER16)

EUR W7	
M22x1,5 - SW25 18,35	044

Accessories



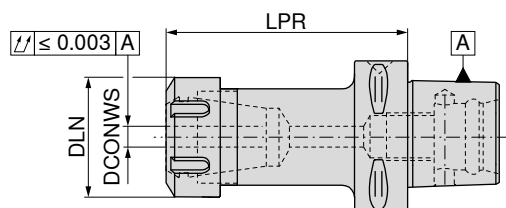
ER collet

256–263, 266

ER Collet chuck

▲ without an internal thread

▲ also available with Balluff chip on request

G 6,3 n_{max} 15000

84 115 ...

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	EUR Y8	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	123,20	306
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	130,70	404
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	130,70	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	130,70	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	139,40	502
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	171,70	504
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	139,40	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	171,70	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	148,00	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	180,40	512
PSC 50	3 - 26	65	63	176	472E (ER40)	152,30	514
PSC 50	3 - 26	100	63	176	472E (ER40)	185,80	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	139,40	602
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	171,70	604
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	139,40	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	171,70	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	148,00	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	180,40	612
PSC 63	3 - 26	65	63	176	472E (ER40)	152,30	614
PSC 63	3 - 26	100	63	176	472E (ER40)	185,80	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	189,00	802
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	246,20	804
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	189,00	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	246,20	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	189,00	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	246,20	812
PSC 80	3 - 26	80	63	176	472E (ER40)	189,00	814
PSC 80	3 - 26	100	63	176	472E (ER40)	246,20	816



Lock nut



Lock nut IK



Lock nut



Y clamping key

Spare parts
for collet

	62 950 ...	83 950 ...	62 950 ...	83 357 ...
	EUR W7	EUR Y8	EUR W7	EUR Y8
428E (ER20)	M25x1,5 - SW30 19,44 045	M25x1,5 33,69 053		17,05 12000
430E (ER25)		M32x1,5 35,76 055	M32x1,5 20,52 055	18,25 125
470E (ER32)		M40x1,5 38,06 056	M40x1,5 19,12 056	24,84 132
472E (ER40)		M50x1,5 44,88 057	M50x1,5 18,58 057	27,33 140

Accessories



ER collet

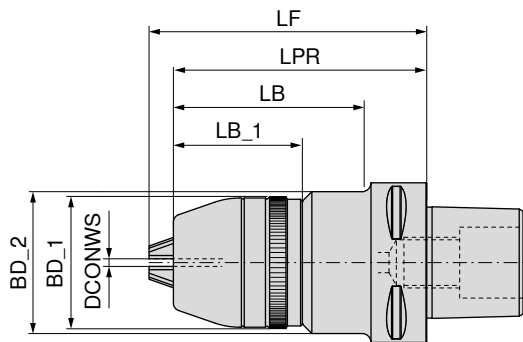
→ 256-266

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 2,5 n_{max} 12000

84 111 ...

EUR
Y8

447,20 01395
459,00 01695

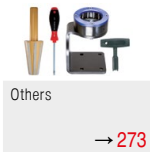
456,40 01394
468,30 01694

465,70 01393
477,90 01693

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

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

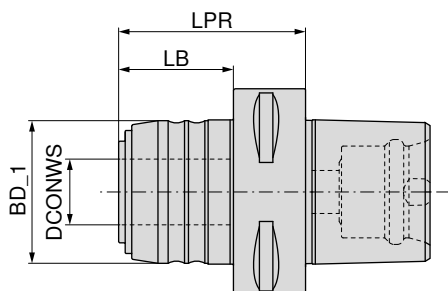
Accessories



→ 273

Synchronised quick change tap chuck with minimal length compensation

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



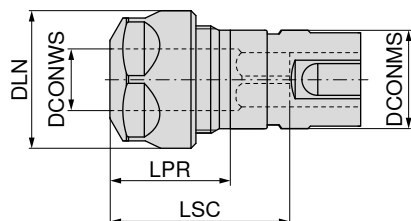
								84 140 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	EUR Y8	
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2	558,40	612
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2	626,30	620

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut

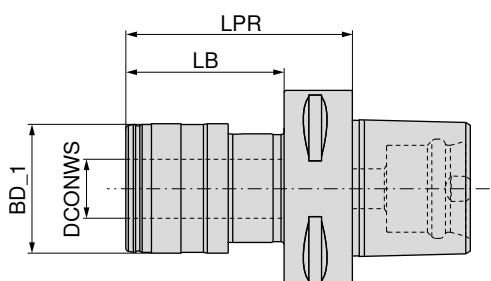


								83 608 ...	
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	020

insert for synchro quick change tapping chuck with minimum length compensation

Quick change tap chuck with length compensation

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



								84 142 ...	
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	EUR Y8	
PSC 63	M3 - M12	01	73	41	19	51	7,5	578,90	612
PSC 63	M6 - M20	02	97	60	31	75	10	650,10	620

Accessories

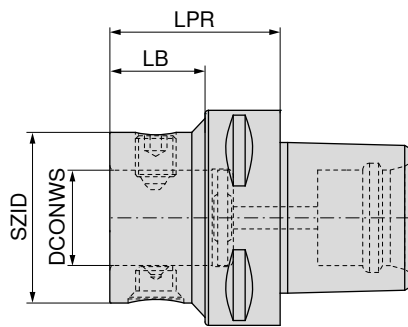


Collet

→ 277-281

Adapter with ABS Connection

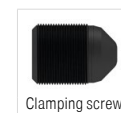
▲ also available with Balluff chip **on request**



						84 215 ...	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	EUR Y8	
PSC 40	A69 04050	ABS 50	28	50	30	421,90	04097
PSC 50	A69 05050	ABS 50	28	50	30	421,90	05097
PSC 63	A69 06050	ABS 50	28	50	28	474,70	06397
PSC 63	A69 06060	ABS 63	34	60	36	474,70	06396
PSC 80	A69 08050	ABS 50	28	50	23	527,40	08097
PSC 80	A69 08060	ABS 63	34	60	30	527,40	08096
PSC 80	A69 08070	ABS 80	46	80	48	527,40	08092

Spare parts SZID

	EUR XX		EUR XX		EUR XX	
ABS 50	18,10	20300	41,40	99800	23,40	20400
ABS 63	14,10	25500	31,60	99400	17,60	27300
ABS 80	16,00	25600	35,50	99300	19,70	25100



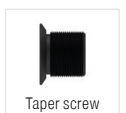
Clamping screw

84 950 ...

EUR
XX18,10 20300
14,10 25500
16,00 25600

Set

84 950 ...

EUR
XX41,40 99800
31,60 99400
35,50 99300

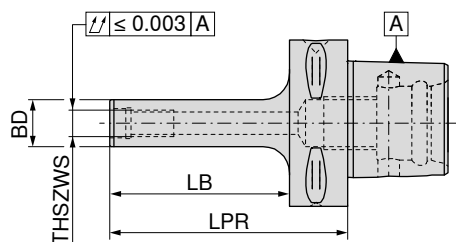
Taper screw

84 950 ...

EUR
XX23,40 20400
17,60 27300
19,70 25100

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	EUR	
PSC 32	M8	60	13	45	189,00	302
PSC 32	M10	70	18	55	189,00	306
PSC 40	M8	70	13	50	193,30	402
PSC 40	M10	80	18	60	193,30	405
PSC 40	M12	80	21	60	193,30	408
PSC 50	M8	70	13	50	196,60	502
PSC 50	M10	80	18	60	196,60	505
PSC 50	M12	80	21	60	196,60	508
PSC 50	M16	80	29	60	196,60	512
PSC 63	M8	70	13	48	213,90	602
PSC 63	M10	90	18	68	213,90	605
PSC 63	M12	100	21	78	213,90	608
PSC 63	M16	100	29	78	213,90	612

Accessories



Coolant transfer pipe

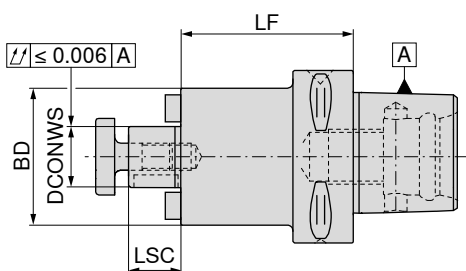
→ 182

Shell mill adapters

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

Scope of supply:

Holder with clamping screw and drive key



G 6,3 n_{max} 15000

84 122 ...

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	EUR Y8	
PSC 40	16	28	40	17	148,00	401
PSC 40	16	63	40	17	155,50	402
PSC 40	22	40	50	19	148,00	411
PSC 40	22	63	50	19	155,50	412
PSC 50	16	28	40	17	148,00	501
PSC 50	16	63	40	17	155,50	502
PSC 50	22	28	50	19	148,00	511
PSC 50	22	63	50	19	155,50	512
PSC 50	27	32	50	21	148,00	521
PSC 50	27	63	50	21	155,50	522
PSC 50	32	40	63	24	148,00	531
PSC 50	32	63	63	24	155,50	532
PSC 63	16	63	40	17	164,20	602
PSC 63	22	28	63	19	155,50	611
PSC 63	22	63	50	19	164,20	612
PSC 63	27	28	58	21	155,50	621
PSC 63	27	63	58	21	164,20	622
PSC 63	32	22	63	24	155,50	631
PSC 63	32	86	63	24	164,20	632
PSC 63	40	40	70	27	180,40	641
PSC 80	16	63	40	17	193,30	802
PSC 80	22	30	50	19	186,80	811
PSC 80	22	63	50	19	193,30	812
PSC 80	27	30	58	21	186,80	821
PSC 80	27	63	58	21	193,30	822
PSC 80	32	30	63	24	186,80	831
PSC 80	32	86	63	24	193,30	832
PSC 80	40	40	70	27	186,80	841

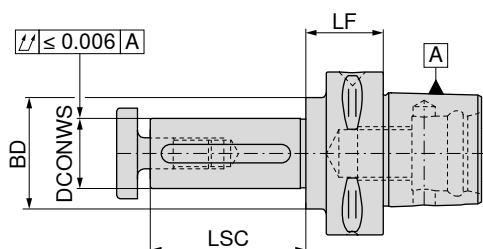
											
drive key	drive dog	Cross nut key	Retaining screw	clamping screw							
84 950 ...		84 950 ...	83 368 ...		83 367 ...		83 950 ...				
EUR Y8		EUR Y8		EUR Y8		EUR Y8					
3,22	108	7,30	113	11,01	116	M8	3,33	016	M8x25	2,97	113
3,22	109	8,54	114	13,72	122	M10	3,65	022	M10x25	3,43	124
3,22	110	9,26	115	17,60	127	M12	4,67	027	M12x30	3,78	125
3,22	111	10,50	116	22,68	132	M16	7,50	032	M16x35	4,70	126
3,22	112	11,77	117	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112

Milling arbor

- ▲ for cutters with long drive slot
- ▲ Runout ≤ 0.005 mm
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder with clamping screw and drive key

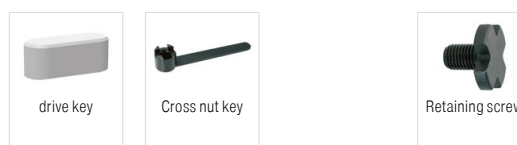


					84 124 ...	
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	EUR Y8	
PSC 32	16	20	28	30	148,00	316
PSC 40	16	25	28	30	155,50	416
PSC 40	22	25	36	40	155,50	422
PSC 40	27	25	40	60	155,50	427
PSC 50	16	25	28	30	155,50	516
PSC 50	22	25	36	40	155,50	522
PSC 50	27	25	43	60	155,50	527
PSC 50	32	25	50	60	155,50	532
PSC 63	16	30	28	30	155,50	616
PSC 63	22	30	36	40	155,50	622
PSC 63	27	30	43	60	155,50	627
PSC 63	32	25	48	60	155,50	632
PSC 63	40	25	56	60	155,50	640
PSC 80	16	40	28	30	180,40	816
PSC 80	22	40	36	40	180,40	822
PSC 80	27	30	43	60	180,40	827
PSC 80	32	30	48	60	180,40	832
PSC 80	40	30	56	60	180,40	840
PSC 80	50	30	70	60	180,40	850
PSC 80	60	30	60	60	180,40	860

Spare parts

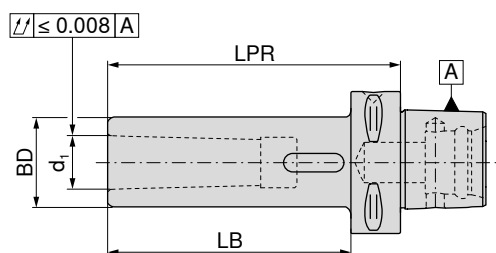
DCONWS

16	3,22	101	11,01	116	M8	3,33	016
22	3,22	102	13,72	122	M10	3,65	022
27	3,22	103	17,60	127	M12	4,67	027
32	3,22	104	22,68	132	M16	7,50	032
40	3,22	105	31,65	140	M20	11,89	040
50	3,22	106	43,10	150	M24	26,35	050
60	3,22	107					



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	EUR Y8	
PSC 40	MK2	110	32	90	155,50	402
PSC 40	MK3	130	40	119	164,20	403
PSC 50	MK2	110	32	90	164,20	502
PSC 50	MK3	130	40	110	171,70	503
PSC 50	MK4	150	48	132	180,40	504
PSC 63	MK2	110	32	88	164,20	602
PSC 63	MK3	130	40	108	171,70	603
PSC 63	MK4	150	48	128	180,40	604
PSC 80	MK2	120	32	90	189,00	802
PSC 80	MK3	140	40	110	205,20	803
PSC 80	MK4	160	48	130	221,50	804

Blank

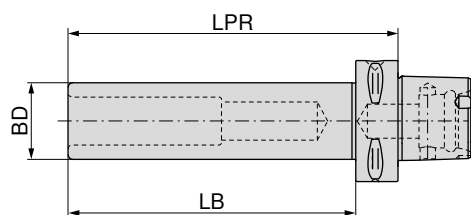
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



			84 134 ...	
Adapter	BD mm	LPR mm	EUR Y8	
PSC 40	40	95	114,40	402
PSC 40	40	120	123,20	403
PSC 40	60	165	130,70	404
PSC 40	80	75	148,00	405
PSC 40	80	120	155,50	406
PSC 40	100	85	164,20	408
PSC 50	50	125	130,70	502
PSC 50	50	150	139,40	503
PSC 50	75	175	155,50	504
PSC 50	90	80	164,20	506
PSC 50	95	150	171,70	508
PSC 50	110	90	164,20	510
PSC 63	63	180	155,50	602
PSC 63	75	195	164,20	604
PSC 63	110	85	164,20	606
PSC 63	120	180	246,20	608
PSC 63	130	95	189,00	610
PSC 80	80	200	189,00	802
PSC 80	120	160	189,00	804
PSC 80	130	90	180,40	806
PSC 80	145	200	205,20	808

Test bar

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



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

84 136 ...

 EUR
Y8

555,20 030

615,50 040

657,80 050

692,30 060

830,50 080

Coolant pipe

Scope of supply:

complete, including seals


84 116 ...

 EUR
Y8

31,15 04000

32,76 05000

34,37 06300

42,81 08000

Key


84 117 ...

 EUR
Y8

27,99 04000

29,97 05000

32,02 06300

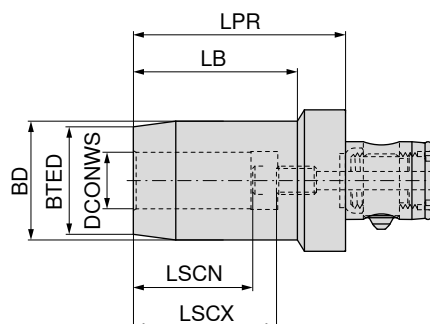
43,29 08000

Hydraulic chuck

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

Scope of supply:

Base body including backstop screw



NEW



84 223 ...

Adapter	KOMET no.	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm	EUR 3E	
ABS 40	A32 32060	8	24	28	60	42,0	37	27	688,50	00888
ABS 40	A32 32070	10	26	30	65	47,5	41	31	629,90	01088
ABS 40	A32 32080	12	28	32	65	48,0	46	36	622,60	01288
ABS 50	A32 42110	6	22	26	55	33,5	37	27	671,40	00697
ABS 50	A32 42120	8	24	28	55	34,0	37	27	688,50	00897
ABS 50	A32 42130	10	26	30	65	45,0	41	31	666,60	01097
ABS 50	A32 42140	12	28	32	65	45,5	46	36	666,60	01297
ABS 50	A32 42150	14	30	34	65	46,0	46	36	666,60	01497
ABS 50	A32 42160	16	34	38	70	52,0	49	39	615,30	01697
ABS 50	A32 42170	18	36	40	70	52,5	49	39	642,10	01897
ABS 50	A32 42101	20	38	42	75	58,0	51	41	627,50	02097
ABS 63	A32 52180	20	38	42	78	56,0	51	41	896,10	02096
ABS 63	A32 52190	25	53	57	85	60,0	57	47	1.004,00	02596
ABS 63	A32 52200	32	60	64	90	61,0	61	51	1.091,00	03296



Backstop screw

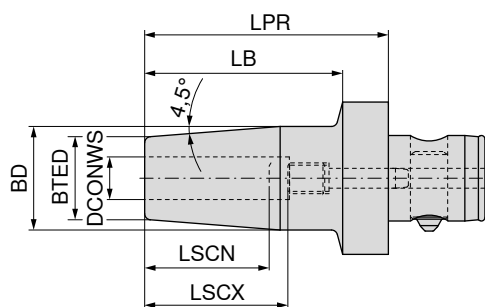
84 950 ...

Spare parts for Article no.

		EUR W7	
84 223 00697	M6x12 - SW2,5	2,79	22000
84 223 00897	M8x1x12 - SW3	3,51	22100
84 223 00888	M6x12 - SW2,5	2,79	22000
84 223 01088	M8x1x12 - SW3	3,51	22100
84 223 01097	M10x1x12 - SW4	3,51	22200
84 223 01297	M10x1x12 - SW4	3,51	22200
84 223 01288	M10x1x12 - SW4	3,51	22200
84 223 01497	M10x1x12 - SW4	3,51	22200
84 223 01697	M10x1x12 - SW4	3,51	22200
84 223 01897	M16x1x16 - SW5	6,58	22400
84 223 02096	M16x1x16 - SW5	6,58	22400
84 223 02097	M5x12 - SW2	2,79	22300
84 223 02596	M16x1x16 - SW5	6,58	22400
84 223 03296	M16x1x16 - SW5	6,58	22400

Shrink fit adapters 4.5°

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

G 6,3 n_{max} 15000

84 222 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCX mm	LSCN mm	EUR 3E	
ABS 32	A32 26040	6	70	27	21	56	36	26	481,00	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	249,00	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	346,70	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	275,90	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	356,50	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	278,30	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	351,60	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	451,70	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	268,60	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	332,10	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	327,20	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	275,90	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	332,10	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	317,40	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	271,00	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	241,70	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	305,20	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	310,10	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	410,20	03296



Backstop screw

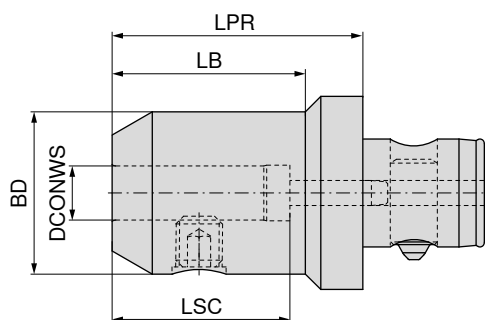
84 950 ...

Spare parts
DCONWS

		EUR W7	
6	M5x18	3,78	21400
8	M6x20	3,78	21500
10	M8x1x20	2,79	21600
12	M10x1x20	3,51	21700
14	M10x1x20	3,51	21700
16	M12x1x20	4,86	21800
18	M12x1x20	4,86	21800
20	M8x1x20	6,30	21900
25	M8x1x20	6,30	21900
32	M8x1x20	6,30	21900

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	EUR 3E	
ABS 50	A32 40010	6	45	25,0	27	40	178,20	00697
ABS 50	A32 40020	8	45	28,0	27	40	178,20	00897
ABS 50	A32 40030	10	55	35,0	37	44	178,20	01097
ABS 50	A32 40040	12	65	42,0	50	49	200,20	01297
ABS 50	A32 40080	14	65	44,0	50	49	192,90	01497
ABS 50	A32 40050	16	65	48,0	50	52	197,80	01697
ABS 50	A32 40090	18	65	49,9	50	52	222,20	01897
ABS 50	A32 40060	20	65	52,0	50	54	212,40	02097
ABS 50	A32 40070	25	75	65,0	60	60	202,70	02597
ABS 63	A32 50040	12	65	42,0	50	49	285,70	01296
ABS 63	A32 50100	14	65	44,0	50	49	305,20	01496
ABS 63	A32 50050	16	65	48,0	50	52	261,30	01696
ABS 63	A32 50110	18	65	50,0	50	52	268,60	01896
ABS 63	A32 50060	20	65	52,0	45	54	224,60	02096
ABS 63	A32 50070	25	75	65,0	60	60	222,20	02596
ABS 63	A32 50080	32	80	72,0	65	64	227,10	03296
ABS 80	A32 60060	20	65	52,0	45	54	319,90	02092
ABS 80	A32 60070	25	75	65,0	55	60	310,10	02592
ABS 80	A32 60080	32	80	72,0	66	64	232,00	03292



Grubscrew

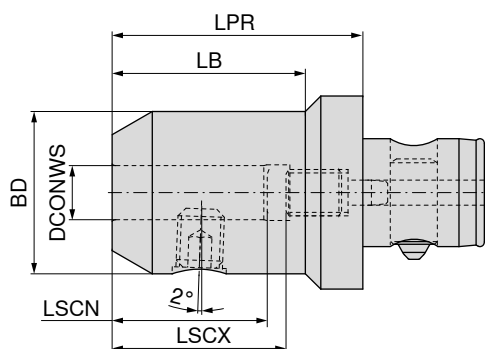
62 950 ...

Spare parts
DCONWS

DCONWS		EUR W7	
6	M6x10	0,68	006
8	M8x10	0,79	008
10	M10x12	1,05	010
12	M12x16	1,06	012
14	M12x16	1,06	012
16	M14x16	1,32	016
18	M14x16	1,32	016
20	M16x16	1,60	020
25	M18x2x20	2,93	025
32	M20x2x20	3,24	032

Cylindrical Shank Adapter (Whistle Notch)

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



84 220 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	EUR 3E	
ABS 25	A30 10601	6	55	40	24,9	36	26	197,80	00690
ABS 25	A30 10801	8	55	40	28,0	36	26	210,00	00890
ABS 25	A30 11001	10	60	45	35,0	40	30	197,80	01090
ABS 32	A30 20601	6	55	40	25,0	36	26	202,70	00689
ABS 32	A30 20801	8	55	40	28,0	36	26	202,70	00889
ABS 32	A30 20901	9	55	40	28,0	36	26	219,70	00989
ABS 32	A30 21001	10	60	45	35,0	40	30	185,60	01089
ABS 32	A30 21201	12	65	50	42,0	45	35	205,10	01289
ABS 32	A30 21401	14	65		42,0	45	35	278,30	01489
ABS 40	A30 30601	6	55	35	25,0	36	26	280,80	00688
ABS 40	A30 30801	8	55	35	28,0	36	26	232,00	00888
ABS 40	A30 31001	10	60	45	35,0	40	30	253,90	01088
ABS 40	A30 31201	12	65	50	42,0	45	35	212,40	01288
ABS 40	A30 31401	14	65	50	42,0	45	35	293,00	01488
ABS 40	A30 31601	16	70	55	48,0	48	38	273,50	01688
ABS 40	A30 31801	18	70	55	48,0	48	38	290,60	01888
ABS 50	A30 40601	6	55	30	25,0	36	26	202,70	00697
ABS 50	A30 40801	8	55	30	28,0	36	26	217,30	00897
ABS 50	A30 41001	10	60	40	35,0	40	30	200,20	01097
ABS 50	A30 41201	12	65	50	42,0	45	35	212,40	01297
ABS 50	A30 41301	13	65	50	42,0	45	35	349,20	01397
ABS 50	A30 41401	14	65	50	42,0	45	35	241,70	01497
ABS 50	A30 41601	16	70	55	48,0	48	38	224,60	01697
ABS 50	A30 41801	18	70	55	48,0	48	38	266,10	01897
ABS 50	A30 42002	20	75	60	52,0	50	40	251,50	02097
ABS 50	A30 42202	22	75	60	52,0	50	40	349,20	02297
ABS 50	A30 42502	25	75	60	52,0	50	40	241,70	02597
ABS 63	A30 51001	10	60	35	35,0	40	30	297,90	01096
ABS 63	A30 51201	12	65	45	42,0	45	35	261,30	01296
ABS 63	A30 51401	14	65	45	42,0	45	35	307,60	01496
ABS 63	A30 51601	16	70	50	48,0	48	38	290,60	01696
ABS 63	A30 51801	18	70	50	48,0	48	38	315,00	01896
ABS 63	A30 52001	20	75	55	52,0	50	40	278,30	02096
ABS 63	A30 52501	25	80	65	65,0	56	46	241,70	02596
ABS 63	A30 52801	28	80	65	65,0	56	46	776,40	02896
ABS 80	A30 62501	25	80	60	65,0	56	46	271,00	02592
ABS 80	A30 63201	32	90	70	72,0	60	50	332,10	03292

Spare parts

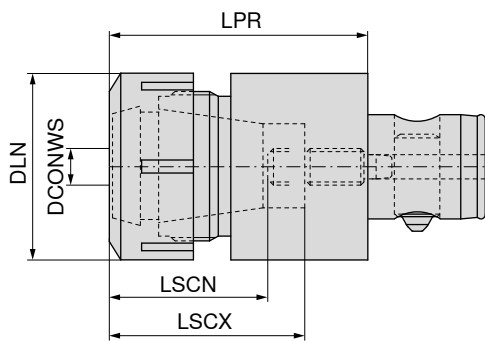
cylindrical shank adapter (Whistle Notch) with ABS connection

			 Grubscrew		 Backstop screw	
			62 950 ...		84 950 ...	
Spare parts			EUR		EUR	
DCONWS			W7		W7	
6	M6x10	0,68	006	M5x16	2,79	20500
8	M8x10	0,79	008	M6x16 - SW2,5	2,79	20600
9	M8x10	0,79	008	M8x1x16 - SW3	2,79	20800
10	M10x12	1,05	010	M8x1x16 - SW2,5	2,79	20700
12	M12x16	1,06	012	M10x1x18 - SW3	3,51	20900
13	M12x16	1,06	012	M12x1x17 - SW3	4,86	21000
14	M12x16	1,06	012	M12x1x17 - SW3	4,86	21000
16	M14x16	1,32	016	M14x1x19 - SW4	5,85	21100
18	M14x16	1,32	016	M14x1x19 - SW4	5,85	21100
20	M16x16	1,60	020	M16x1x21 - SW5	6,30	21200
22	M16x16	1,60	020	M16x1x21 - SW5	6,30	21200
25	M16x16	1,60	020	M16x1x21 - SW5	6,30	21200
28	M18x2x20	2,93	025	M16x1x21 - SW5	6,30	21200
32	M20x2x20	3,24	032	M20x1x27 - SW8	9,63	21300

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



							84 224 ...
Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	EUR 3E
ABS 25	A33 11120	1 - 10	40,1	28	31	28	220,40
ABS 32	A33 12130	1 - 13	52,5	34	39	35	242,10
ABS 40	A33 13141	1 - 16	62,0	42	46	43	258,50
ABS 50	A33 14151	2 - 20	69,3	50	51	48	298,70
ABS 63	A33 15161	3 - 26	78,3	63	55	52	294,60

												
	Lock nut			Lock nut IK				Lock nut			Backstop screw	
	62 950 ...			83 950 ...			62 950 ...			84 950 ...		
Spare parts	EUR			EUR			EUR			EUR		
DCONWS	W7			Y8			W7			W7		
1 - 10	M22x1,5 - SW25	18,35	044	M22x1,5	31,54	054				M5x8 - SW2	2,79	22500
1 - 13	M25x1,5 - SW30	19,44	045	M25x1,5	33,69	053				M6x12 - SW2,5	2,79	22000
1 - 16				M32x1,5	35,76	055	M32x1,5	20,52	055	M8x1x14 - SW4	3,06	22600
2 - 20				M40x1,5	38,06	056	M40x1,5	19,12	056	M10x1x14 - SW5	3,51	22700
3 - 26				M50x1,5	44,88	057	M50x1,5	18,58	057	M12x1x18 - SW8	4,86	22800

Accessories

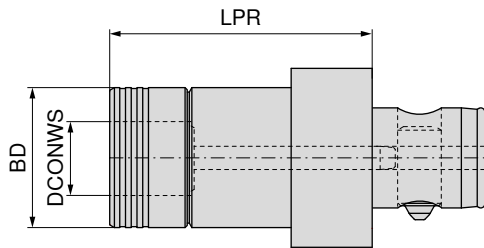


ER collet

→ 256-266

Quick change tap chuck with length compensation

▲ With length compensation under tension and compression (LZD)



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

84 225 ...

EUR
3E

1.021,00 01989

1.323,00 01988

1.253,00 01997

1.536,00 03197

1.550,00 03196

Accessories



→ 277-281

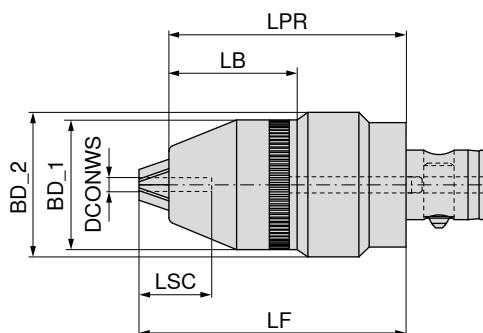
→ 57

→ 273

Short drill chuck

Scope of supply:

Holder with clamping key

G 6.3 n_{max} 6500

84 227 ...

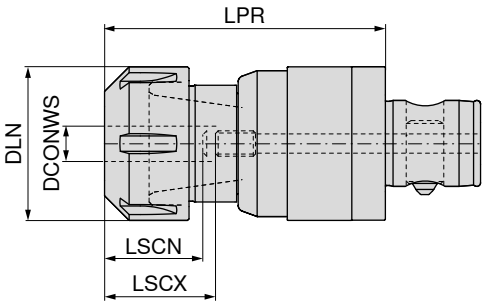
EUR
3E

835,00 01397

761,80 01697

Adapter	KOMET no.	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSC mm	LF mm	L mm
ABS 50	A34 24030	0,5 - 13	95	49	57,5	29	104,0	51,5
ABS 50	A34 24040	3 - 16	95	52	57,5	29	104,7	52,0

Synchro tapping chuck



Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm
ABS 32	50795131002000	1 - 13	78,0	34	42	29
ABS 50	50795135002000	1 - 13	85,0	34	42	29
ABS 50	50795135003200	2 - 20	90,5	50	45	31

84 226 ...

EUR
Y8

927,80 02089

966,90 02097

1.031,00 03297

Accessories



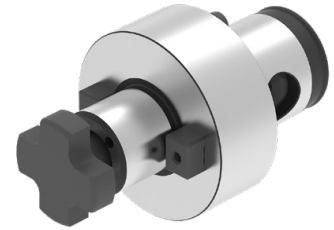
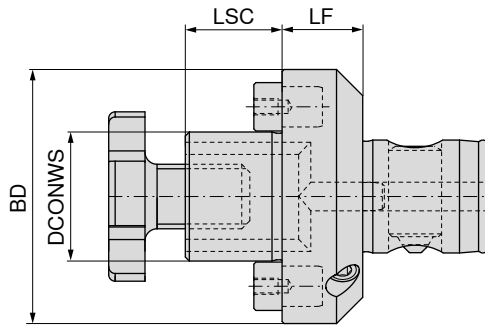
ER collet

→ 261-264

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 ...	
						EUR 3E		EUR 3E	
ABS 50	A40 24023	16	17	20	50			306,90	01697
ABS 50	A40 24034	22	19	20	50			292,50	02297
ABS 50	A40 24043	27	21	20	50			313,10	02797
ABS 50	A40 24053	32	24	20	63			345,10	03297
ABS 63	A40 25032	22	19	22	63			354,30	02296
ABS 63	A40 25042	27	21	22	63			373,90	02796
ABS 63	A40 25052	32	24	22	63			385,20	03296
ABS 63	A40 25062	40	27	22	80			397,60	04096
ABS 80	A40 26042	27	21	25	80			388,30	02792
ABS 80	A40 26052	32	24	25	80			392,40	03292
ABS 80	A40 26062	40	27	25	80			396,60	04092
ABS 80	A40 16062	40	30	43	88	517,10	14092		
ABS 100	A40 27052	32	24	25	100			510,90	03291
ABS 100	A40 17062	40	30	38	88	439,80	14091		
ABS 100	A40 27062	40	27	25	100			445,00	04091
ABS 100	A40 17072	60	40	56	130	561,40	06091		



Drive screw



Drive dog



Driver



Retaining screw

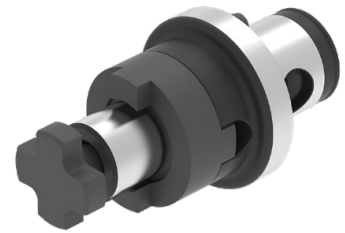
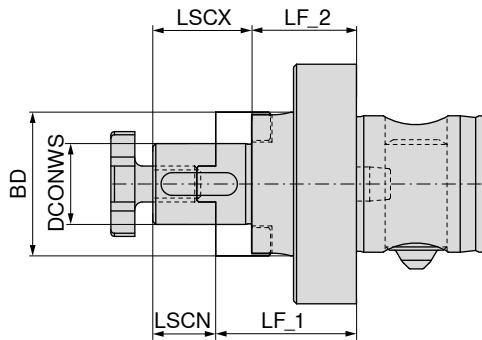
		81 950 ...		84 950 ...		83 950 ...		83 367 ...	
		EUR Y8		EUR W7		EUR Y8		EUR Y8	
Spare parts									
DCONWS									
16	M3x8	0,39	010					M8	3,33 016
22				13,6x8x10	30,75 22900			M10	3,65 022
27				14,3x9x12	32,46 23000			M12	4,67 027
32				17x12x14	30,75 23100			M16	7,50 032
40	M6x16	0,80	014			15,9x16,3x19,5	11,56 295		
40								M20	11,89 040
60	M12x25	8,66	015			25,4x16,3x26,5	15,01 298		

Combination shell mill adapter

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

Scope of supply:

Base body including retaining screw, drive ring and drive key



NEW



84 229 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm		
ABS 50	A40 04022	16	32	32	22	27	17		
ABS 50	A40 04032	22	40	34	22	31	19		
ABS 63	A40 05021	16	32	36	26	27	17		
ABS 63	A40 05031	22	40	38	26	31	19		
ABS 63	A40 05041	27	48	38	26	33	21		
ABS 80	A40 06031	22	40	45	33	31	19		
ABS 80	A40 06041	27	48	45	33	33	21		
ABS 80	A40 06051	32	58	47	33	38	24		
ABS 80	A40 06061	40	70	47	33	41	27		
								EUR	
								3E	
								237,90	01697
								229,70	02297
								333,70	01696
								374,90	02296
								291,50	02796
								438,80	02292
								394,50	02792
								329,60	03292
								347,10	04092



Parallel key



Drive ring



Retaining screw

83 950 ...

83 370 ...

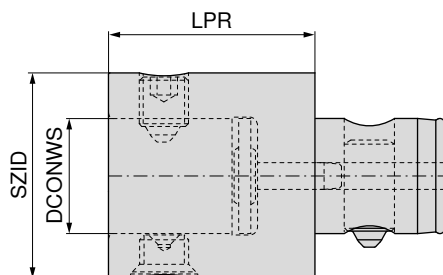
83 367 ...

Spare parts

DCONWS

		EUR		EUR		EUR	
16	4 x 4 x 20	1,68	284	10,21	116	M8	3,33 016
22	6 x 6 x 25	1,68	285	11,34	122	M10	3,65 022
27	7 x 7 x 25	3,24	286	12,20	127	M12	4,67 027
32	8 x 7 x 28	1,93	287	14,58	132	M16	7,50 032
40	10 x 8 x 32	2,06	288	21,70	140	M20	11,89 040

Extension with ABS Connection



NEW



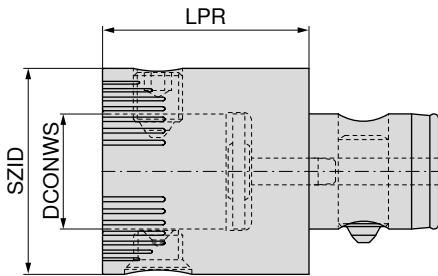
						84 209 ...	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm		EUR 3E	
ABS 25	A20 00020	ABS 25	13	45		242,10	04590
ABS 25	A20 00220	ABS 25	13	60		242,10	06090
ABS 32	A20 00530	ABS 32	16	35		256,10	03589
ABS 32	A20 00030	ABS 32	16	50		256,10	05089
ABS 32	A20 00230	ABS 32	16	70		256,10	07089
ABS 40	A20 00540	ABS 40	20	40		270,00	04088
ABS 40	A20 00040	ABS 40	20	60		270,00	06088
ABS 40	A20 00240	ABS 40	20	90		270,00	09088
ABS 50	A20 00550	ABS 50	28	50		301,00	05097
ABS 50	A20 00050	ABS 50	28	65		301,00	06597
ABS 50	A20 00250	ABS 50	28	100		301,00	10097
ABS 50	A20 00150	ABS 50	28	150		301,00	15097
ABS 63	A20 00560	ABS 63	34	60		340,60	06096
ABS 63	A20 00060	ABS 63	34	85		340,60	08596
ABS 63	A20 00260	ABS 63	34	125		340,60	12596
ABS 63	A20 00160	ABS 63	34	190		340,60	19096
ABS 80	A20 00570	ABS 80	46	70		401,70	07092
ABS 80	A20 00070	ABS 80	46	85		401,70	08592
ABS 80	A20 00270	ABS 80	46	125		418,80	12592
ABS 80	A20 00170	ABS 80	46	240		418,80	24092
ABS 100	A20 00580	ABS 100	56	85		447,70	08591
ABS 100	A20 00080	ABS 100	56	125		447,70	12591
ABS 100	A20 00280	ABS 100	56	160		471,30	16091
ABS 125	A20 00090	ABS 125	70	160		530,20	16085
ABS 125	A20 00290	ABS 125	70	200		559,20	20085

	Clamping screw		Clamping screw		Set		Set		Positioning pin		Pendulum bolt		Coolant pipe		Taper screw	
	62 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...	
Spare parts	EUR		EUR		EUR		EUR		EUR		EUR		EUR		EUR	
Adapter	XX		XX		XX		XX		XX		XX		XX		XX	
ABS 25			9,84	26800	44,81	98900	24,15	99700	6,64	23600	31,47	26000	6,70	24400	14,42	27000
ABS 32	9,84	13989			50,62	98800	24,15	99600	14,63	23700	29,15	26100	6,95	24500	14,42	27100
ABS 40			10,97	26900	53,05	98700	25,65	99500	14,63	23800	31,50	26200	6,95	24600	14,78	27200
ABS 50			12,82	20300	80,60	99900	29,20	99800	15,04	20200	36,62	20000	7,52	20100	16,43	20400
ABS 63			14,11	25500	60,26	98600	31,57	99400	15,55	23900	37,18	26300	7,57	24700	17,61	27300
ABS 80			15,97	25600	62,47	98500	35,48	99300	15,71	24000	39,24	26400	7,78	24800	19,67	25100
ABS 100			18,90	25700	69,32	98400	39,55	99200	16,63	24100	43,98	26500	8,81	24900	20,70	25200
ABS 125			29,61	25800	96,36	98300	59,43	99100	26,42	24200	60,56	26600	9,68	25000	29,97	25300

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm
ABS 50	A20 00651	ABS 50	28	50
ABS 63	A20 00661	ABS 63	34	60
ABS 80	A20 00670	ABS 80	46	70

84 216 ...

EUR
3E

590,90 05097

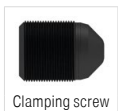
739,80 06096

739,80 07092

Spare parts

SZID

ABS 50
ABS 63
ABS 80



Clamping screw

84 950 ...

EUR
XX

12,82 20300
14,11 25500
15,97 25600

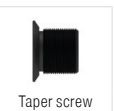


Set

84 950 ...

EUR
XX

29,20 99800
31,57 99400
35,48 99300



Taper screw

84 950 ...

EUR
XX

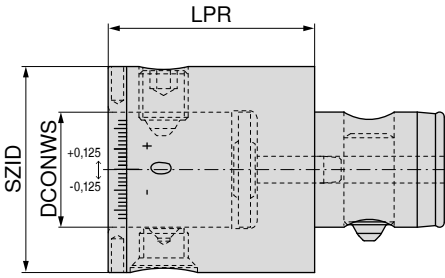
16,43 20400
17,61 27300
19,67 25100

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key $\varnothing 2.8$ mm



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

84 217 ...

EUR
W4
503,50 05097
544,20 06096

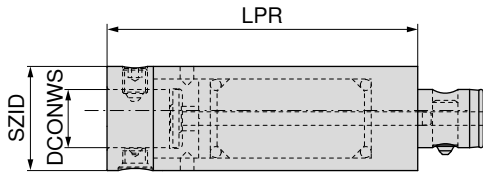
Spare parts SZID

ABS 50
ABS 63

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
EUR XX	EUR XX	EUR XX
12,82 20300 14,11 25500	29,20 99800 31,57 99400	16,43 20400 17,61 27300

Damping element with ABS connection

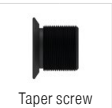
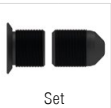
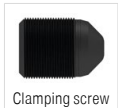
▲ Reduction in undesirable tool vibrations



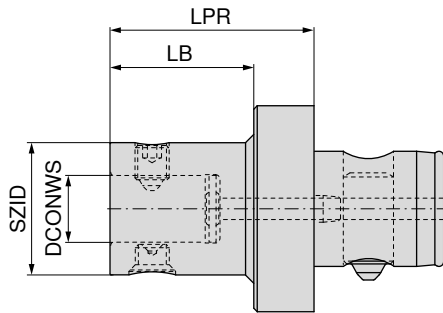
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 218 ...	
ABS 40	A20 01240	ABS 40	20	120	EUR 3E	
ABS 50	A20 01250	ABS 50	28	150	1.198,00	12088
ABS 63	A20 01260	ABS 63	34	190	1.392,00	15097
ABS 80	A20 01270	ABS 80	46	240	1.820,00	19096
					2.535,00	24092

Spare parts

SZID	84 950 ...		84 950 ...		84 950 ...	
	EUR		EUR		EUR	
ABS 40	XX		XX		XX	
ABS 50	10,97	26900	25,65	99500	14,78	27200
ABS 63	12,82	20300	29,20	99800	16,43	20400
ABS 80	14,11	25500	31,57	99400	17,61	27300
	15,97	25600	35,48	99300	19,67	25100



ABS reduction



						84 219 ...	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	EUR 3E	
ABS 32	A20 10120	ABS 25	13	40	30	271,00	03290
ABS 40	A20 10220	ABS 25	13	40	28	286,00	04090
ABS 40	A20 10230	ABS 32	16	40	28	286,00	04089
ABS 50	A20 10320	ABS 25	13	50	35	310,70	05090
ABS 50	A20 10330	ABS 32	16	50	35	310,70	05089
ABS 50	A20 10340	ABS 40	20	50	35	310,70	05088
ABS 63	A20 10420	ABS 25	13	60	40	348,10	06390
ABS 63	A20 10430	ABS 32	16	60	40	348,10	06389
ABS 63	A20 10440	ABS 40	20	60	40	348,10	06388
ABS 63	A20 10450	ABS 50	28	60	40	348,10	06397
ABS 80	A20 10530	ABS 32	16	60	35	411,40	08089
ABS 80	A20 10540	ABS 40	20	60	35	411,40	08088
ABS 80	A20 10550	ABS 50	28	60	35	411,40	08097
ABS 80	A20 10560	ABS 63	34	60	35	411,40	08096
ABS 100	A20 10650	ABS 50	28	80	50	448,90	10097
ABS 100	A20 10660	ABS 63	34	80	50	448,90	10096
ABS 100	A20 10670	ABS 80	46	80	50	448,90	10092
ABS 125	A20 10770	ABS 80	46	100	50	496,00	12592
ABS 125	A20 10780	ABS 100	56	100	50	496,00	12591

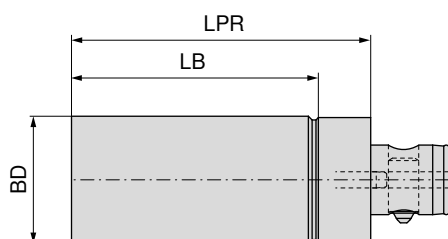
Clamping screw	Clamping screw	Set	Taper screw
62 950 ...	84 950 ...	84 950 ...	84 950 ...
EUR XX	EUR XX	EUR XX	EUR XX
ABS 25	9,84	24,15	14,42
ABS 32	9,84	24,15	14,42
ABS 40	10,97	25,65	14,78
ABS 50	12,82	29,20	16,43
ABS 63	14,11	31,57	17,61
ABS 80	15,97	35,48	19,67
ABS 100	18,90	39,55	20,70

Spare parts
SZID

ABS 25	13989	26800	99700	27000
ABS 32	13989	26800	99600	27100
ABS 40	13989	26900	99500	27200
ABS 50	13989	20300	99800	20400
ABS 63	13989	25500	99400	27300
ABS 80	13989	25600	99300	25100
ABS 100	13989	25700	99200	25200

Blank with ABS connection

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



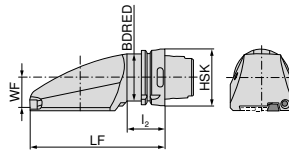
Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...

EUR
W4

133,90	02690
141,10	03389
164,80	04188
160,70	05197
202,90	06496
314,20	08192
414,10	10191

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

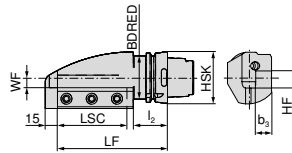


Illustrations show right-hand versions

ISO designation	Adapter	LF mm	I ₂ mm	BDRED mm	WF mm	for parting blades	Left-hand		Right-hand	
							74 585 ...		74 584 ...	
HSK T63 XCLCF 32 R/L 00	HSK-T 63	150	42	53	32	XLCF R/L 32...	EUR 2D/80		EUR 2D/80	
HSK T100 XCLCF 32 R/L 00	HSK-T 100	160	45	88	45	XLCF R/L 32...	454,60	532	454,60	532
							532,50	732	532,50	732

		Protection plugs			Nozzle			Key D			Clamping wedge			Hollow key with nose	
	70 950 ...			70 950 ...			80 950 ...			70 950 ...			70 950 ...		
Spare parts		EUR			EUR			EUR			EUR			EUR	
for Article no.		2A/28			28			Y7			2A/28			2A/28	
74 584 532 / 74 585 532	UNJF 7/16"-20	21,22	05600	UNJF 7/16"-20	30,50	05500	T25	10,53	115		65,17	860		47,16	05700
74 584 732 / 74 585 732	UNJF 7/16"-20	21,22	05600	UNJF 7/16"-20	30,50	05500	T25	10,53	115		65,17	860		47,16	05700

HSK-T square shank adapter 0°

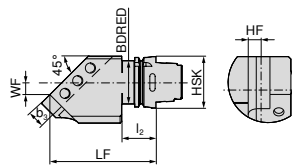


Illustrations show right-hand versions



ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	LSC mm	b ₃ mm	HF mm	Left-hand		Right-hand	
									74 571 ...		74 570 ...	
									EUR 2D/80		EUR 2D/80	
HSK T63 SH R/L 00 2525	HSK-T 63	135	42	53	13	85,5	25	25	319,00	525	319,00	532
HSK T100 SH R/L 00 3232	HSK-T 100	145	45	88	15	87,5	32	32	419,30	725	419,30	732

HSK-T square shank adapter 45°

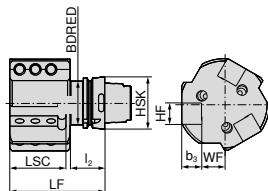


Illustrations show right-hand versions



ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	b ₃ mm	HF mm	Left-hand		Right-hand	
								74 573 ...		74 572 ...	
								EUR 2D/80		EUR 2D/80	
HSK T63 SH R/L 45 2525	HSK-T 63	140	42	53	15	25	25	343,00	525	343,00	525
HSK T100 SH R/L 45 3232	HSK-T 100	160	45	88	20	32	32	439,70	732	439,70	732

HSK-T square shank adapter 3-face 0°



ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	LSC mm	b ₃ mm	HF mm	Left-hand	
									74 576 ...	
									EUR 2D/80	
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	556,20	525
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	788,50	725



Protection plugs



Nozzle

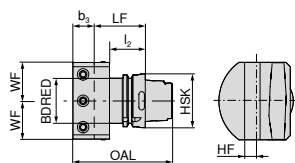
Hollow key with
nose

Grub screw

Spare parts
Adapter

		70 950 ...		70 950 ...		70 950 ...		70 950 ...	
		EUR 2A/28		EUR 28		EUR 2A/28		EUR 28	
HSK-T 100		21,22	05600	30,50	05500	47,16	05700	1,67	851
HSK-T 63		21,22	05600	30,50	05500	47,16	05700	1,67	851

HSK-T square shank adapter 90°



Neutral

74 575 ...

ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	OAL mm	HF mm	b ₃ mm
HSK T63 SH N 90 2525	HSK-T 63	60	42	53	45	85	25	25
HSK T100 SH N 90 3232	HSK-T 100	58	45	88	50	90	32	32

EUR
2D/80

325,80

525

439,70

732



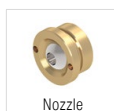
Protection plugs

70 950 ...

EUR
2A/28

21,22

05600



Nozzle

70 950 ...

EUR
28

30,50

05500

Hollow key with
nose

70 950 ...

EUR
2A/28

47,16

05700



Grub screw

70 950 ...

EUR
28

1,67

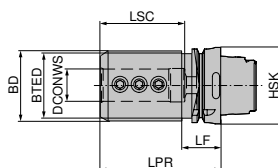
851

Spare parts

Adapter

HSK-T 100	UNJF 7/16"-20	21,22	05600	UNJF 7/16"-20	30,50	05500	47,16	05700	M12x1,75x25	1,67	851
HSK-T 63	UNJF 7/16"-20	21,22	05600	UNJF 7/16"-20	30,50	05500	47,16	05700	M12x1,75x25	1,67	851

HSK-T Boring bar holder



74 577 ...

ISO designation	Adapter	LPR mm	DCONWS mm	BD mm	LSC mm	LF mm	BTED mm
HSK T63 BH08 80	HSK-T 63	80	8	32	41		
HSK T63 BH10 80	HSK-T 63	80	10	40	41		
HSK T63 BH12 80	HSK-T 63	80	12	40	41		
HSK T63 BH16 80	HSK-T 63	80	16	40	51		
HSK T63 BH20 80	HSK-T 63	80	20	50	51		
HSK T63 BH25 90	HSK-T 63	90	25	53	61		
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53
HSK T100 BH20 90	HSK-T 100	90	20	55	56		
HSK T100 BH25 95	HSK-T 100	95	25	55	61		
HSK T100 BH32 110	HSK-T 100	110	32	68	61		
HSK T100 BH40 120	HSK-T 100	120	40	83	81		
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88

EUR
2D/80

237,00

508

237,00

510

237,00

512

237,00

516

237,00

520

237,00

525

237,00

532

302,00

720

302,00

725

302,00

732

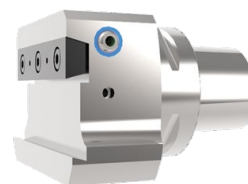
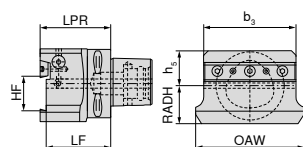
302,00

740

302,00

750

Radial parting blade holder, right / left



Neutral

84 132 ...

Adapter	HF mm	LPR mm	OAW mm	b ₃ mm	h ₅ mm	RADH mm	LF mm
PSC 63	26	65	91	75	30	30	60
PSC 63	32	65	100	85	32	35	88

EUR

Y8

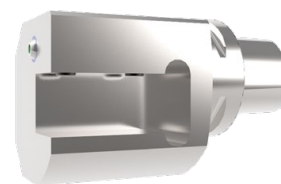
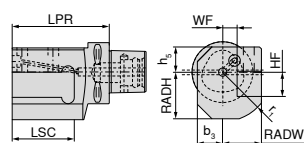
262,40

626

262,40

632

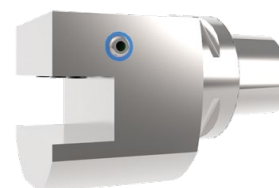
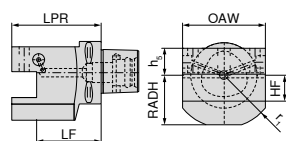
Square section adapter, single face



Illustrations show right-hand versions

Adapter	HF mm	LPR mm	b ₃ mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	RADH mm	LSC mm	Left-hand	Right-hand
										84 611 ...	84 610 ...
										EUR	EUR
										Y8	Y8
PSC 50	20	80	26	35	45	15	26	43	53	213,90	520
PSC 50	25	90	26	40	51	15	26	48	64	213,90	525
PSC 50	32	115	26	47	61	15	26	55	90	213,90	532
PSC 63	20	90	26	35	45	15	26	43	53	246,20	620
PSC 63	25	100	26	40	51	15	26	48	64	246,20	625
PSC 63	32	125	26	47	61	15	26	55	90	246,20	632
PSC 80	20	90	26	35	45	15	26	43	53	295,90	820
PSC 80	25	100	26	40	51	15	26	48	64	295,90	825
PSC 80	32	125	26	47	61	15	26	55	90	295,90	832

Square section adapter



Neutral

84 602 ...

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

EUR

Y8

213,90

520

221,50

525

237,60

532

246,20

620

262,40

625

279,80

632

262,40

820

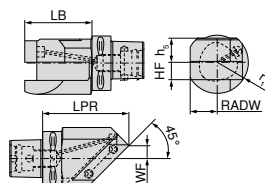
279,80

825

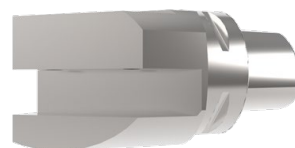
295,90

832

Square section adapter 45°



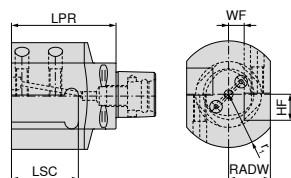
Illustrations show right-hand versions



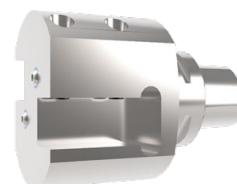
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	LB mm
PSC 50	20	100	31	36	15	26	80
PSC 63	20	100	32	36	15	28	78
PSC 80	32	135	45	70	17	40	105

Left-hand		Right-hand	
84 605 ...		84 604 ...	
EUR		EUR	
Y8		Y8	
213,90	520	213,90	520
254,90	620	254,90	620
287,40	832	287,40	832

Square section adapter, double face



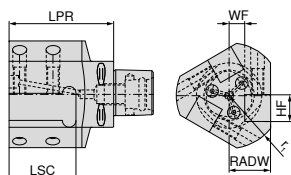
Illustrations show right-hand versions



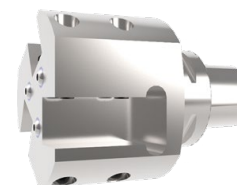
Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	LSC mm
PSC 50	20	80	35	45	15	53
PSC 50	25	90	40	51	15	64
PSC 50	32	115	47	61	15	90
PSC 63	20	90	35	45	15	53
PSC 63	25	100	40	51	15	64
PSC 63	32	125	47	61	15	90
PSC 80	20	90	35	45	15	53
PSC 80	25	100	40	51	15	64
PSC 80	32	125	47	61	15	90

Left-hand		Right-hand	
84 613 ...		84 612 ...	
EUR		EUR	
Y8		Y8	
361,80	520	361,80	520
370,40	525	370,40	525
378,00	532	378,00	532
378,00	620	378,00	620
386,70	625	386,70	625
394,20	632	394,20	632
452,60	820	452,60	820
460,10	825	460,10	825
469,90	832	469,90	832

Square section adapter, triple face



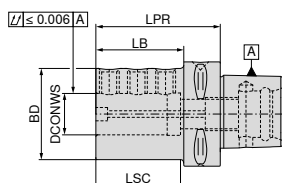
Illustrations show right-hand versions



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 ...	
EUR		EUR	
Y8		Y8	
484,90	520	484,90	520
493,60	525	493,60	525
509,90	532	509,90	532
568,10	620	568,10	620
592,90	625	592,90	625
609,10	632	609,10	632
682,60	820	682,60	820
699,90	825	699,90	825
716,10	832	716,10	832

Boring bar holder



						84 130 ...	
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	EUR Y8	
PSC 50	6	70	40	50	40	189,00	506
PSC 50	8	70	44	50	40	189,00	508
PSC 50	10	70	44	50	45	189,00	510
PSC 50	12	70	44	50	45	189,00	512
PSC 50	16	75	44	55	45	189,00	516
PSC 50	20	75	50	75	51	189,00	520
PSC 50	25	80	55	50	51	189,00	525
PSC 50	32	90	72	70	60	189,00	532
PSC 63	6	75	40	53	40	189,00	606
PSC 63	8	75	44	53	40	189,00	608
PSC 63	10	75	44	53	45	189,00	610
PSC 63	12	75	44	53	45	189,00	612
PSC 63	16	75	44	53	45	189,00	616
PSC 63	20	75	50	53	51	189,00	620
PSC 63	25	75	55	53	51	189,00	625
PSC 63	32	75	72	52	60	189,00	632
PSC 63	40	105	70	82	90	189,00	640



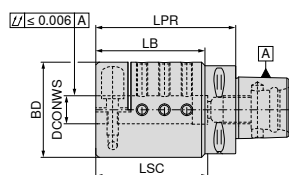
Grubscrew

Spare parts
DCONWS

				84 950 ...	
				EUR Y8	
6	M6x16	3,96	153		
8	M8x16	3,96	154		
10	M10x16	3,96	155		
12 - 40	M12x14	3,96	156		

Boring bar adapter, split version

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

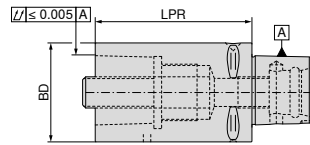


Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ...	
						EUR Y8	
PSC 63	6	80	40	58	60	230,10	606
PSC 63	8	85	45	63	65	230,10	608
PSC 63	10	85	50	63	65	230,10	610
PSC 63	12	100	63	78	80	230,10	612
PSC 63	16	100	63	78	80	230,10	616
PSC 63	20	100	68	78	80	230,10	620
PSC 63	25	100	68	78	80	230,10	625
PSC 63	32	100	72	78	80	230,10	632

Spare parts	DCONWS		83 950 ...		84 950 ...		81 950 ...	
			EUR Y8		EUR Y8		EUR Y8	
6								
8		M6x20	2,12	462			M5x15	1,36
10					M6x16	3,96	153	
12 - 20		M8x20	2,12	468				
25		M8x25	2,12	467				
32		M10x20	2,12	471				

Extension, axial clamping

▲ Run out ≤ 0,002mm



			84 620 ...	
Adapter	BD mm	LPR mm	EUR Y8	
PSC 32	32	60	155,50	301
PSC 32	32	80	155,50	302
PSC 40	40	60	164,20	401
PSC 40	40	80	164,20	402
PSC 50	50	80	171,70	501
PSC 50	50	100	171,70	502
PSC 63	63	100	180,40	601
PSC 63	63	140	180,40	602
PSC 80	80	100	189,00	801
PSC 80	80	125	189,00	802

Spare parts

Adapter	84 950 ...		84 950 ...	
	EUR Y8		EUR Y8	
PSC 32	26,46	127	19,12	122
PSC 40	26,46	128	21,60	123
PSC 50	26,46	129	21,60	124
PSC 63	52,82	130	24,19	126
PSC 80	52,82	130	24,19	126



Accessories

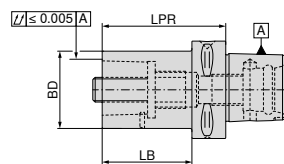


Hollow nose keys

→ 208

Cylindrical reduction

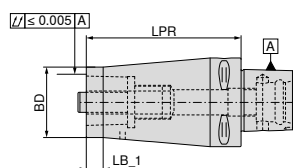
▲ Run out ≤ 0,002mm



				84 624 ...	
Adapter	BD mm	LPR mm	LB mm	EUR Y8	
PSC 40	32	55	35	148,00	403
PSC 50	32	60	40	164,20	503
PSC 50	40	65	45	164,20	504
PSC 63	32	70	48	171,70	603
PSC 63	40	80	58	171,70	604
PSC 63	50	80	58	171,70	605
PSC 80	32	60	30	180,40	803
PSC 80	40	70	40	180,40	804
PSC 80	50	80	50	180,40	805
PSC 80	63	80	50	180,40	806
PSC 80X	63	80	48	237,60	816
PSC 80X	80	100	68	237,60	818

Tapered reduction

▲ Run out ≤ 0,002mm



				84 625 ...	
Adapter	BD mm	LPR mm	LB_1 mm	EUR Y8	
PSC 40	32	70	12	148,00	403
PSC 50	40	85	12	164,20	504
PSC 63	50	110	12	171,70	605
PSC 80	63	120	12	189,00	806
PSC 80X	80	150	12	237,60	818

Spare parts

Adapter

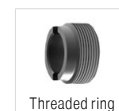
Adapter	EUR Y8		84 950 ...	EUR Y8	
PSC 40	26,46	128	SW8	21,60	123
PSC 50	26,46	129	SW10	21,60	124
PSC 63	52,82	130	SW14	24,19	126
PSC 80	52,82	130	SW14	24,19	126
PSC 80X	52,82	130	SW14	24,19	126

Accessories



Hollow nose keys

→ 208



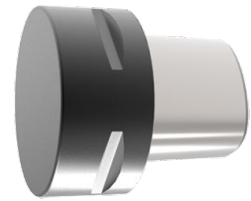
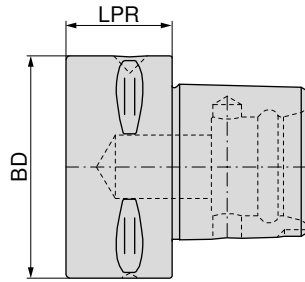
Threaded ring



tightening screw

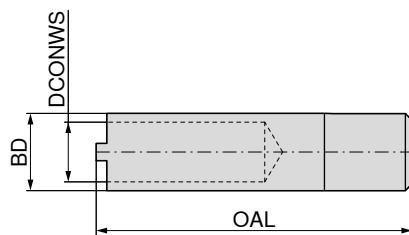
84 950 ...		84 950 ...	
EUR Y8		EUR Y8	
26,46	128	21,60	123
26,46	129	21,60	124
52,82	130	24,19	126
52,82	130	24,19	126
52,82	130	24,19	126

Sealing plugs



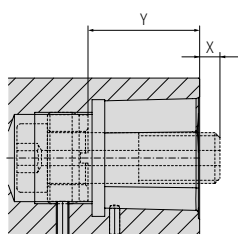
			84 135 ...	
Adapter	BD mm	LPR mm	EUR Y8	
PSC 40	40	28	82,40	040
PSC 50	50	28	82,40	050
PSC 63	63	30	97,30	060
PSC 80	80	38	105,60	080

Hollow nose key for clamping screw for PSC extensions and reductions



				84 651 ...	
Adapter	BD mm	OAL mm	DCONWS mm	EUR Y8	
PSC 32	16	80	12,5	44,50	032
PSC 40	20	80	15,0	46,99	040
PSC 50	22	90	17,0	46,99	050
PSC 63/80/80X	34	110	21,0	51,84	063

Installation instructions: clamping screw for PSC extensions and reductions

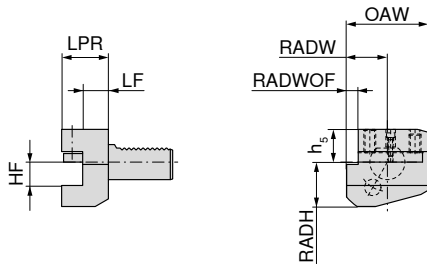


X = Screw leading edge
Y = Threaded ring insertion depth

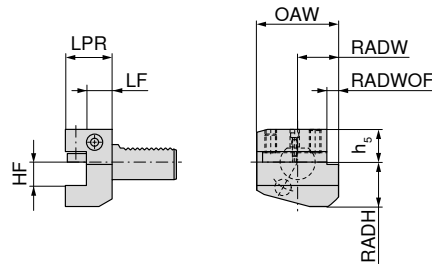
Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring !

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

Radial tool holders, short



B2



B1



B2

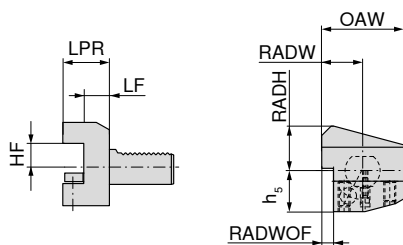


B1

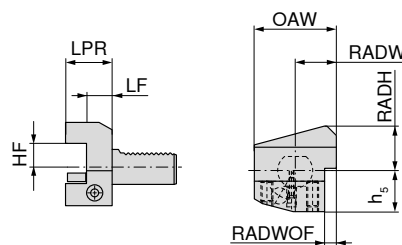
Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand		Right-hand	
									82 189 ...		82 185 ...	
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	EUR Y8 146,90	160	EUR Y8 106,10	160
VDI 16	12	42	23,0	5,0	20,0	22	23,0	34	120,90	161		
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	113,40	200	120,90	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	118,90	201	116,70	201
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30	327,30	202 ¹⁾	366,10	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	25,5	40			325,10	203 ¹⁾
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	194,40	250	132,80	250
VDI 30	20	70	35,0	10,0	28,0	38	18,5	40	122,10	300	110,10	300
VDI 30	20	70	35,0	10,0	28,0	35	32,0	50			681,60	302 ¹⁾
VDI 30	20	70	35,0	10,0	28,0	38	42,0	60	153,40	301	144,80	301
VDI 40	25	85	42,5	12,5	32,5	48	18,5	44	124,20	400	113,40	400
VDI 50	32	100	50,0	16,0	35,0	60	30,0	55	191,20	500	189,00	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



B3



B4

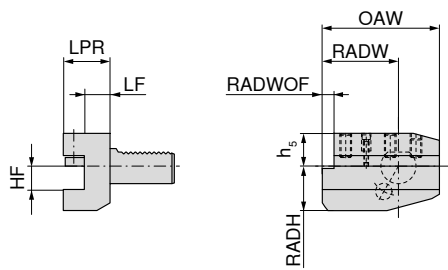


B3

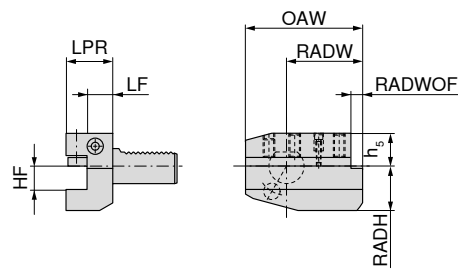
Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand		Right-hand	
									82 196 ...		82 193 ...	
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	EUR Y8 112,40	160	EUR Y8 112,40	160
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	118,90	200	120,90	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	200,90	201	139,40	201
VDI 20	16	55	30,0	7,0	25,0	30	18,5	30	398,50	202 ¹⁾	397,50	202 ¹⁾
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	551,90	203 ¹⁾	354,20	203 ¹⁾
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	194,40	250	138,20	250
VDI 30	20	70	35,0	10,0	35,0	38	42,0	60	153,40	301	153,40	301
VDI 30	20	70	35,0	10,0	35,0	38	18,5	40	124,20	300	114,40	300
VDI 40	25	85	42,5	12,5	42,5	48	18,5	44	126,40	400	115,60	400
VDI 50	32	100	50,0	16,0	50,0	60	30,0	55	191,20	500	191,20	500

1) Height adjustable +/- 1 mm

Radial tool holders, long



B6



B5



B6



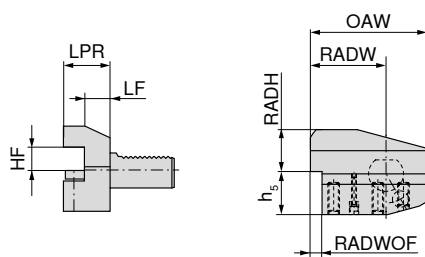
B5

Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	28,0	38	18,5	40
VDI 30	20	100	65,0	10,0	28,0	38	42,0	60
VDI 40	25	118	75,5	12,5	32,5	48	18,5	44
VDI 50	32	130	80,0	16,0	35,0	60	30,0	55

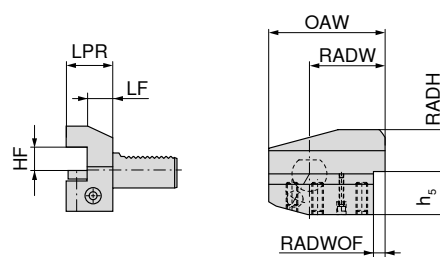
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 202 ...		82 199 ...	
EUR		EUR	
Y8		Y8	
153,40	200	167,50	200
148,00	201	156,70	201
		394,20	202 ¹⁾
142,60	300	138,20	300
165,20	301	280,80	301
140,40	400	143,60	400
216,00	500	222,50	500

Radial tool holders, overhead, long



B8



B7



B8



B7

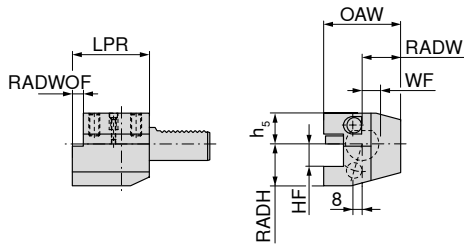
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30
VDI 30	20	100	65,0	10,0	35,0	38	18,5	40
VDI 30	20	100	65,0	10,0	35,0	38	42,0	60
VDI 40	25	118	75,5	12,5	42,5	48	18,5	44
VDI 50	32	130	80,0	16,0	50,0	60	30,0	55

1) Height adjustable +/- 1 mm

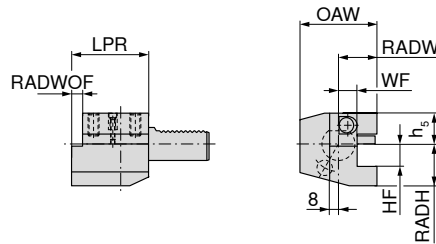
Left-hand		Right-hand	
82 208 ...		82 205 ...	
EUR		EUR	
Y8		Y8	
163,20	200	136,10	200
		211,70	201
		394,20	202 ¹⁾
126,40	300	142,60	300
		167,50	301
142,60	400	143,60	400
199,80	500	226,80	500

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

Axial tool holders



C2



C1

C2

C1

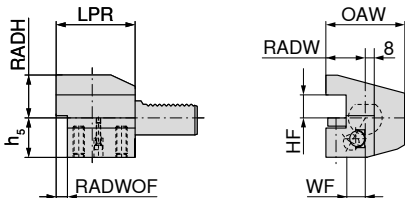


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 20	16	52	27,0	13,0	25,0	30	55
VDI 25	16	58	33,0	19,0	25,0	30	55
VDI 30	20	70	35,0	17,0	28,0	38	70
VDI 30	20	76	41,0	23,0	28,0	38	70
VDI 40	25	90	47,5	25,5	32,5	48	85
VDI 40	25	85	42,5	20,5	32,5	48	85
VDI 50	32	100	50,0	25,5	35,0	60	100
VDI 50	32	105	55,0	30,5	35,0	60	100

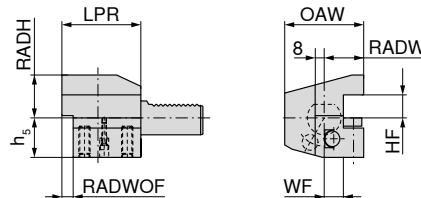
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 214 ...		82 211 ...	
EUR Y8		EUR Y8	
		135,00	160
139,40	200	142,60	201
		405,00	202 1)
		140,40	200
142,60	250	143,60	250
		128,50	300
151,20	400		
		146,90	400
		218,20	500
231,10	500		

Axial tool holders, overhead



C4



C3

C4

C3

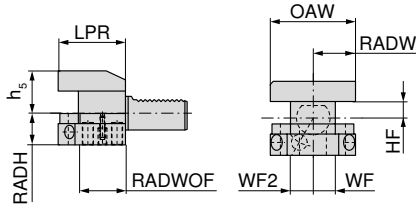


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h ₅ mm	RADH mm	LPR mm
VDI 16	12	43	24,0	13,0	20,0	22	44
VDI 20	16	65	40,0	26,0	25,0	30	50
VDI 20	16	65	40,0	25,5	30,0	25	50
VDI 20	16	65	40,0	25,5	25,0	30	50
VDI 20	16	52	27,0	13,0	25,0	30	55
VDI 25	16	58	33,0	19,0	25,0	30	55
VDI 30	20	70	35,0	17,0	35,0	38	70
VDI 30	20	76	41,0	23,0	35,0	38	70
VDI 40	25	85	42,5	20,5	42,5	48	85
VDI 40	25	90	47,5	25,5	42,5	48	85
VDI 50	32	100	50,0	25,5	50,0	60	100
VDI 50	32	105	55,0	30,5	50,0	60	100

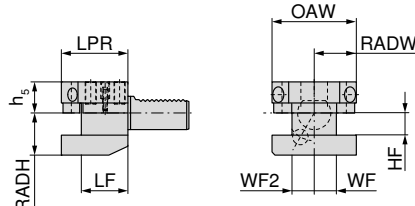
1) Height adjustable +/- 1 mm

Left-hand		Right-hand	
82 220 ...		82 217 ...	
EUR Y8		EUR Y8	
		144,80	160
148,00	200	157,70	201
		507,60	202 1)
480,70	201 1)	162,00	200
156,70	250	156,70	250
		131,70	300
137,20	300		
151,20	400	151,20	400
		221,50	500
189,00	500		

Multiple tool holders



D2



D1



D2

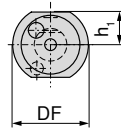
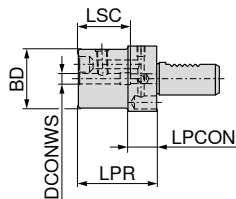


D1

Adapter	HF 0/-0,1 mm	RADW mm	WF 0/+0,3 mm	WF2 0/+0,3 mm	OAW mm	h ₅ mm	RADH mm	LF 0/+0,5 mm	LPR mm	82 224 ...		82 222 ...	
										EUR Y8		EUR Y8	
VDI 25	16	33,0	19,0	19,0	66	22,0	30	34	48	320,70	250	300,30	250
VDI 25	16	33,0	19,0	19,0	66	25,0	30	34	48				
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60	304,60	300	304,60	300
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60				
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72	320,70	400	320,70	400
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72				

Cylindrical tool holders

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



E

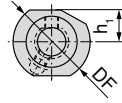
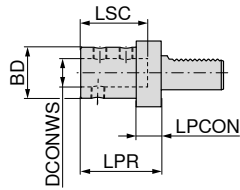


Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	83 269 ...	
								EUR Y8	
VDI 20	6	50	45	23,0	60	22	40	140,40	206
VDI 20	8	50	45	23,0	60	22	40	135,00	208
VDI 20	10	50	45	23,0	60	22	44	135,00	210
VDI 20	12	50	45	23,0	60	22	49	135,00	212
VDI 20	14	50	45	23,0	62	22	49	135,00	214
VDI 20	16	50	45	23,0	67	22	52	130,70	216
VDI 20	18	50	45	23,0	67	22	52	130,70	218
VDI 20	20	50	45	23,0	67	22	52	130,70	220
VDI 30	6	68	52	28,0	67	22	35	146,90	306
VDI 30	8	68	52	28,0	67	22	35	139,40	308
VDI 30	10	68	52	28,0	67	22	39	139,40	310
VDI 30	12	68	52	28,0	67	22	44	139,40	312
VDI 30	14	68	52	28,0	67	22	44	139,40	314
VDI 30	16	68	52	28,0	67	22	47	135,00	316
VDI 30	18	68	52	28,0	67	22	47	139,40	318
VDI 30	20	68	52	28,0	67	22	52	135,00	320
VDI 40	6	83	52	32,5	67	22	35	163,20	406
VDI 40	8	83	52	32,5	67	22	35	157,70	408
VDI 40	10	83	52	32,5	67	22	39	157,70	410
VDI 40	12	83	52	32,5	67	22	44	157,70	412
VDI 40	14	83	52	32,5	67	22	44	157,70	414
VDI 40	16	83	52	32,5	67	22	47	152,30	416
VDI 40	18	83	52	32,5	67	22	47	152,30	418
VDI 40	20	83	52	32,5	67	22	52	152,30	420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

82 274 ...

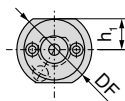
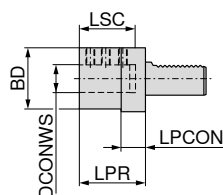
Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	EUR Y8	
VDI 20	16	50	36	23,0	67	18	54	107,40	200
VDI 20	20	50	40	23,0	67	18	54	107,40	201
VDI 20	25	50	45	23,0	71	18	59	107,40	202
VDI 25	16	58	36	25,0	67	18	54	145,90	250
VDI 25	20	58	40	25,0	67	18	54	145,90	251
VDI 25	25	58	45	25,0	71	18	59	145,90	252
VDI 30	16	68	36	28,0	67	22	54	99,57	300
VDI 30	20	68	40	28,0	67	22	54	99,57	301
VDI 30	25	68	45	28,0	71	22	59	99,57	302
VDI 30	32	68	52	28,0	75	22	63	99,57	303
VDI 30	40	68	60	28,0	87	22	73	107,00	304
VDI 40	16	83	36	32,5	67	22	54	113,40	400
VDI 40	20	83	40	32,5	67	22	54	113,40	401
VDI 40	25	83	45	32,5	75	22	59	113,40	402
VDI 40	32	83	52	32,5	75	22	63	113,40	403
VDI 40	40	83	60	32,5	90	22	73	113,40	404
VDI 50	20	98	40	35,0	80	30	54	158,70	500
VDI 50	25	98	45	35,0	80	30	59	158,70	501
VDI 50	32	98	52	35,0	80	30	63	158,70	502
VDI 50	40	98	60	35,0	90	30	73	158,70	503
VDI 50	50	98	70	35,0	100	30	83	116,70	504



You can find spare parts on → Page 254

Boring bar holder

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



E2



Cooling through nozzle

82 268 ...

Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm		
VDI 16	6	40	32	18,0	44	13	34		
VDI 16	8	40	32	18,0	44	13	34	EUR Y8	
VDI 16	10	40	32	18,0	44	13	34	129,70	160 ¹⁾
VDI 16	12	40	40	18,0	44	13	34	110,10	161 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	110,10	162 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	110,10	163 ¹⁾
VDI 16	16	40	40	18,0	44	13	34	110,10	164 ¹⁾
VDI 20	8	50	40	23,0	50	18	41	115,60	200
VDI 20	10	50	40	23,0	50	18	41	115,60	201
VDI 20	12	50	40	23,0	50	18	41	115,60	202
VDI 20	16	50	40	23,0	50	18	41	115,60	203
VDI 20	20	50	50	23,0	50	18	41	115,60	204
VDI 20	25	50	50	23,0	60	18	51	115,60	205
VDI 25	8	58	40	25,0	50	18	41	132,80	250
VDI 25	10	58	40	25,0	50	18	41	132,80	251
VDI 25	12	58	40	25,0	50	18	41	132,80	252
VDI 25	16	58	40	25,0	50	18	41	132,80	253
VDI 25	20	58	58	25,0	50	18	41	132,80	254
VDI 25	25	58	58	25,0	60	18	51	132,80	255
VDI 30	8	68	55	28,0	60	22	51	113,40	300
VDI 30	10	68	55	28,0	60	22	51	113,40	301
VDI 30	12	68	55	28,0	60	22	51	113,40	302
VDI 30	16	68	55	28,0	60	22	51	113,40	303
VDI 30	20	68	55	28,0	60	22	51	113,40	304
VDI 30	25	68	55	28,0	60	22	51	113,40	305
VDI 30	32	68	68	28,0	75	22	61	113,40	306
VDI 40	8	83	55	32,5	75	22	61	115,60	400
VDI 40	10	83	55	32,5	75	22	61	115,60	401
VDI 40	12	83	55	32,5	75	22	61	115,60	402
VDI 40	16	83	55	32,5	75	22	61	115,60	403
VDI 40	20	83	55	32,5	75	22	61	115,60	404
VDI 40	25	83	55	32,5	75	22	61	115,60	405
VDI 40	32	83	83	32,5	75	22	61	115,60	406
VDI 40	40	83	83	32,5	90	22	76	115,60	407
VDI 50	12	98	68	35,0	90	30	76	165,20	500
VDI 50	16	98	68	35,0	90	30	76	165,20	501
VDI 50	20	98	68	35,0	90	30	76	165,20	502
VDI 50	25	98	68	35,0	90	30	76	157,70	503
VDI 50	32	98	68	35,0	90	30	76	157,70	504
VDI 50	40	98	98	35,0	90	30	76	157,70	505
VDI 50	50	98	98	35,0	100	30	86	157,70	506

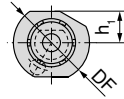
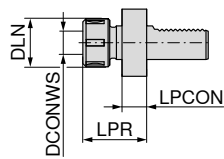
1) Coolant supply through pipe joint



You can find spare parts on → Page 254

OZ-Collet chuck

E3



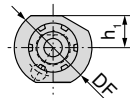
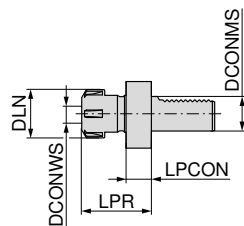
82 285 ...

Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	EUR Y8	
VDI 20	2 - 16	50	43	23,0	57	18	415E / 421E (OZ)	176,00	202
VDI 30	2 - 16	68	43	28,0	57	22	415E / 421E (OZ)	170,70	301
VDI 30	2 - 25	68	60	28,0	75	22	459E / 462E (OZ)	170,70	302
VDI 40	2 - 25	83	60	32,5	75	22	459E / 462E (OZ)	179,30	402
VDI 40	4 - 32	83	72	32,5	90	22	460E / 467E (OZ)	184,80	403
VDI 50	2 - 25	98	60	35,0	75	30	459E / 462E (OZ)	274,30	500
VDI 50	4 - 32	98	72	35,0	90	30	460E / 467E (OZ)	274,30	501

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

ER Collet chucks

E4



82 286 ...

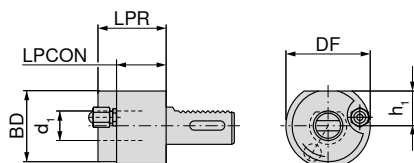
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	EUR Y8	
VDI 16	1 - 10	40	28	18,0	45,5	14	426E (ER16)	155,50	160
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	153,40	161
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	156,70	202
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	160,90	203
VDI 25	1 - 16	58	42	25,0	57,0	18	430E (ER25)	227,80	250
VDI 25	2 - 20	58	50	25,0	62,0	18	470E (ER32)	230,10	251
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)	139,40	300
VDI 30	2 - 20	68	50	28,0	75,0	22	470E (ER32)	142,60	301
VDI 40	1 - 16	83	42	32,5	63,0	22	430E (ER25)	157,70	400
VDI 40	2 - 20	83	50	32,5	75,0	22	470E (ER32)	157,70	401
VDI 40	3 - 26	83	63	32,5	75,0	22	472E (ER40)	163,20	402
VDI 50	2 - 20	94	50	35,0	75,0	30	470E (ER32)	239,80	500
VDI 50	3 - 26	94	63	35,0	63,0	30	472E (ER40)	239,80	501

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

Morse taper adaptors

▲ For taper shanks with ejector tang

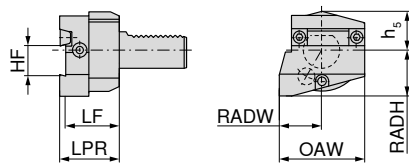
F1



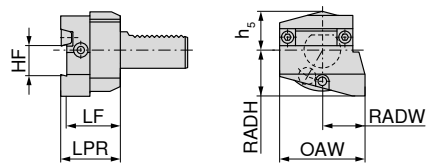
							82 277 ...	
Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm	EUR Y8	
VDI 20	MK1		50	23,0	23		109,10	200
VDI 20	MK2		50	23,0	87		109,10	201
VDI 30	MK1		68	28,0	27		98,39	300
VDI 30	MK2		68	28,0	27		105,20	301
VDI 30	MK3	58	68	28,0	55	40	105,20	302
VDI 40	MK2	55	83	32,5	36	22	115,60	401
VDI 40	MK3	58	83	32,5	36	22	115,60	402
VDI 40	MK4	68	83	32,5	80	22	115,60	403
VDI 50	MK2	55	98	35,0	36	30	176,00	500
VDI 50	MK3	58	98	35,0	36	30	176,00	501
VDI 50	MK4	68	98	35,0	50	30	176,00	502

Parting blade holders, height adjustable

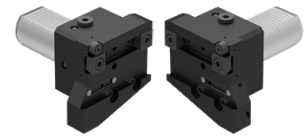
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



left



right

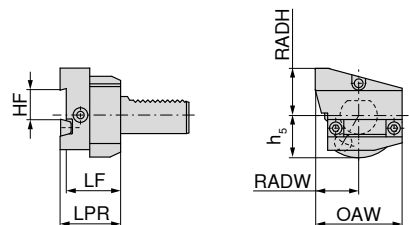


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 25	53	28,0	26	25,0	30	35	40
VDI 30	70	35,0	26	28,0	38	44	49
VDI 30	70	35,0	32	30,5	38	44	49
VDI 40	73	42,5	26	32,0	48	44	49
VDI 40	85	42,5	32	32,0	48	44	49

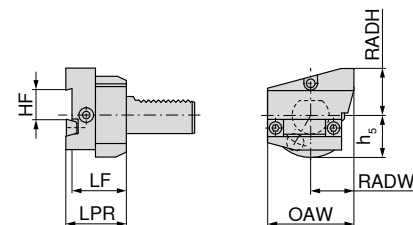
Left-hand 82 237 ...		Right-hand 82 236 ...	
EUR		EUR	
Y8		Y8	
		400,80	250
331,60	300	331,60	300
390,00	302	390,00	302
404,00	040	404,00	040
334,90	400	334,90	400

Parting blade holders, height adjustable, overhead

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



left



right

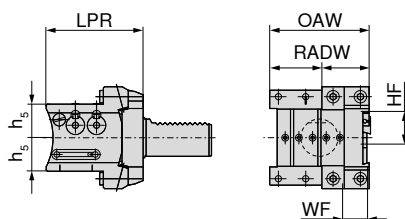
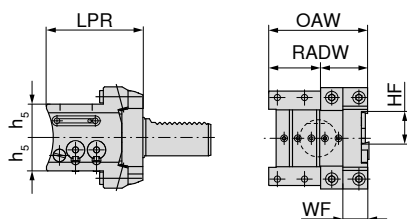


Adapter	OAW mm	RADW mm	HF mm	h _s mm	RADH mm	LF mm	LPR mm
VDI 30	70	35,0	26	34,0	38	44	49
VDI 30	70	35,0	32	30,5	38	44	49
VDI 40	73	42,5	26	32,0	48	44	49
VDI 40	85	42,5	32	32,0	48	44	49

Left-hand 82 243 ...		Right-hand 82 242 ...	
EUR		EUR	
Y8		Y8	
443,90	300	443,90	300
390,00	302	390,00	302
404,00	040	404,00	040
334,90	400	334,90	400

Parting blade holders, height adjustable

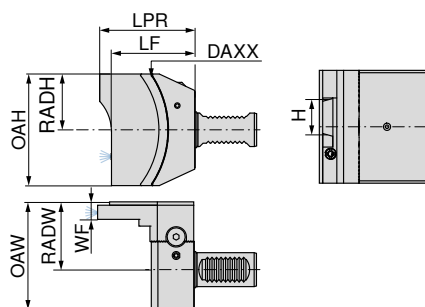
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



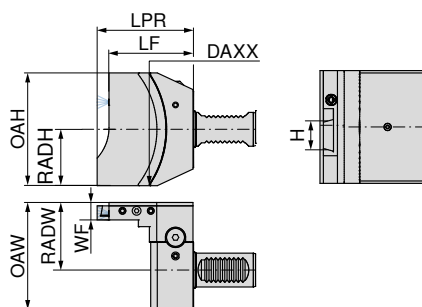
Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	WF mm	LPR mm	Universal-overhead		Universal	
							82 244 ...		82 238 ...	
VDI 30	80	40	26	27	20	78	EUR Y8		EUR Y8	
							621,00	300	621,00	300
VDI 40	80	40	26	27	20	88	689,10	400	689,10	400
VDI 40	80	40	32	32	20	88	689,10	402	689,10	402

Parting blade holder

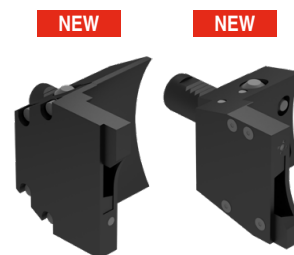
- ▲ doubles = reciprocally interlocked VDI shank



double – overhead



double



Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm	double - overhead		double	
										83 227 ...		83 226 ...	
VDI 20	85,5	75,0	94	47	85	60	15,5	176	26	EUR Y7		EUR Y7	
										503,10	02629 ¹⁾	503,10	02629 ¹⁾
VDI 25	85,2	74,7	73	39	72	43	15,5	176	32			538,60	03228 ¹⁾
VDI 25	85,2	74,7	73	39	72	43	15,5	176	26	538,60	02628 ¹⁾	538,60	02628 ¹⁾
VDI 30	85,5	75,0	100	50	95	60	15,5	176	32	538,60	03227 ¹⁾	538,60	03227 ¹⁾
VDI 30	85,5	75,0	100	50	95	60	15,5	176	26	538,60	02627 ¹⁾	538,60	02627 ¹⁾
VDI 40	88,5	78,0	100	50	95	60	15,5	176	32	580,40	03226 ¹⁾	580,40	03226 ¹⁾
VDI 40	88,5	78,0	100	50	95	60	15,5	176	26	580,40	02626 ¹⁾	580,40	02626 ¹⁾

1) Not ex-stock



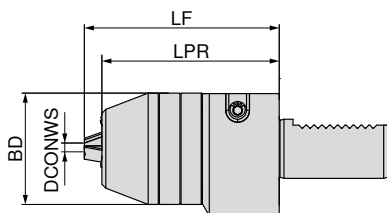
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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

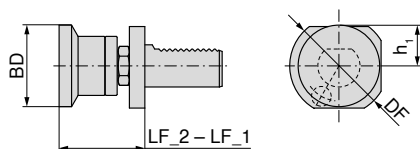


					84 297 ...	
Adapter	DCONWS mm	BD mm	LPR mm	LF mm	EUR Y8	
VDI 20	0,5 - 10	48,5	40	50	311,10	210 ¹⁾
VDI 30	0,5 - 13	56,5	90	99	311,10	313
VDI 30	2,5 - 16	56,5	90	99	332,70	316
VDI 40	0,5 - 13	56,5	90	99	317,60	413
VDI 40	2,5 - 16	56,5	90	99	338,20	416

1) Without Through Coolant

Material stops

- ▲ Revolving, length adjustable

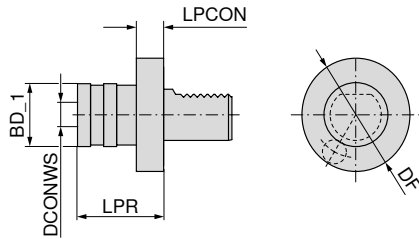


						83 292 ...	
Adapter	BD mm	DF mm	h ₁ mm	LF_2 mm	LF_1 mm	EUR Y8	
VDI 20	26	50	23,0	50	70	357,50	200 ¹⁾
VDI 20	32	50	23,0	50	70	371,50	201 ¹⁾
VDI 20	42	50	23,0	50	70	366,10	202 ¹⁾
VDI 30	32	68	28,0	62	95	279,80	300
VDI 30	42	68	28,0	62	95	284,10	301
VDI 30	58	68	28,0	62	95	285,10	302
VDI 40	32	83	32,5	62	95	288,40	400
VDI 40	42	83	32,5	62	95	290,60	401
VDI 40	58	83	32,5	62	95	286,10	402

1) without VDI location

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



							83 307 ...	
Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	EUR Y8	
VDI 20	M3 - M12	01	19	38	55	9	352,10	112
VDI 25	M3 - M12	01	19	38	55	9	352,10	212
VDI 30	M3 - M12	01	19	38	55	9	270,10	312
VDI 40	M3 - M12	01	19	38	55	9	302,40	412
VDI 20	M6 - M20	02	31	55	77	15	385,60	120
VDI 25	M6 - M20	02	31	55	77	15	385,60	220
VDI 30	M6 - M20	02	31	55	77	15	357,50	320
VDI 40	M6 - M20	02	31	55	77	15	373,70	420

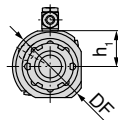
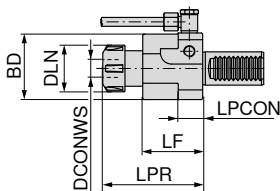


Quick change adapters can be found on → **Page 277–281.**

Tap holders with length compensation GML

▲ LZD = Length compensation under tension and compression

▲ for ER collets with internal square ISO 15488-A (DIN 6499-A)



										83 290 ...	
Adapter	DCONWS mm	DLN mm	BD mm	DF mm	h ₁ mm	LPR mm	LF mm	LPCON mm	LZD± mm	for collet	EUR Y8
VDI 20	0,5 - 10	28	45	50	23,0	65	40	18	6,0 / 1,5	4031E (ER16)	572,50
VDI 30	1 - 16	42	62	68	28,0	90	54	42	8,0 / 2,0	4282E (ER25)	572,50
VDI 40	1 - 16	42	62	83	32,5	85	49	42	8,0 / 2,0	4282E (ER25)	572,50



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

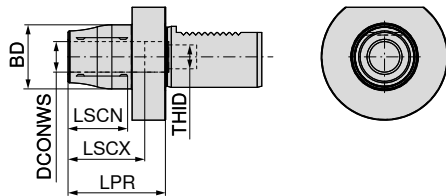
Hydraulic chuck

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

Scope of supply:

Base body with backstop screw and pressure screw

NEW



AD

83 402 ...

EUR

Y8

426,30 02027

445,30 02026

Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID
VDI 30	20	42	64	51	41	M16x1
VDI 40	20	42	64	51	41	M16x1



Stop screw IK

83 950 ...

EUR

Y7

M16x1x31 - SW5 14,08 48700

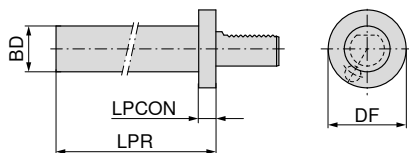
Spare parts

DCONWS

20

Test arbors

- ▲ Radial run-out ≤ 0.02 mm



83 324 ...

EUR

Y8

203,10 016

222,50 020

237,60 030

252,80 040

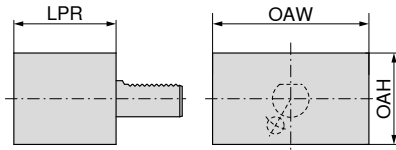
276,60 050

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

Tool holders, rough machined, rectangular

▲ Manufactured from C45

A1

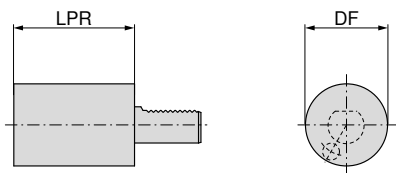


Adapter	LPR mm	OAW mm	OAH mm	82 327 ...	
				EUR Y8	
VDI 16	44	78	44	91,04	160
VDI 20	65	100	60	176,00	200
VDI 25	75	100	60	126,40	250
VDI 30	85	130	76	165,20	300
VDI 40	100	151	96	180,40	400
VDI 50	125	160	120	265,70	500

Tool holders, rough machined, round

▲ Manufactured from C45

A2

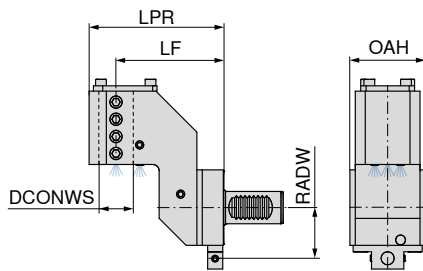


Adapter	LPR mm	DF mm	82 330 ...	
			EUR Y8	
VDI 16	60	40	78,41	160
VDI 20	70	50	63,18	200
VDI 25	80	58	91,27	250
VDI 25	200	58	104,90	253
VDI 30	100	68	72,14	300
VDI 30	240	68	85,86	303
VDI 40	120	83	82,62	400
VDI 40	320	83	124,20	403
VDI 50	135	98	122,10	500
VDI 50	400	98	197,70	502

Boring bar holder, with offset, with through coolant

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

NEW



double



IC

83 229 ...

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

EUR

Y7

598,70 02528¹⁾593,90 03227¹⁾642,90 04026¹⁾

1) Not ex-stock

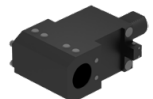
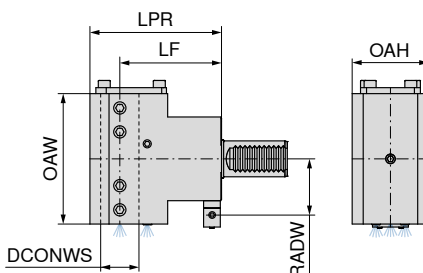


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Double boring bar holder with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ for use of two boring bars for main and sub-spindle machining
- ▲ external coolant supply available

NEW



double



IC

83 230 ...

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

EUR

Y7

560,70 02528¹⁾499,30 03227¹⁾593,90 13227¹⁾696,90 04026¹⁾

1) Not ex-stock

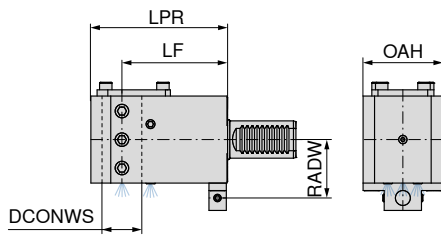


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Boring bar holder with through coolant

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

NEW



83 228 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm		EUR Y7	
VDI 25	25	100	75	60	40		418,40	02528 ¹⁾
VDI 30	32	110	85	64	47		455,30	03227 ¹⁾
VDI 30	32	125	100	64	47		465,10	13227 ¹⁾
VDI 40	40	130	100	76	56		490,80	04026 ¹⁾
VDI 40	40	152	120	76	56		530,00	14026 ¹⁾
VDI 50	50	155	120	98	64		717,80	05025 ¹⁾

1) Not ex-stock

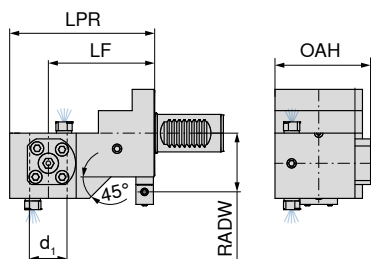


With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

90° VDI to VDI adapter, double sided

- ▲ for rotating toolholder

NEW



83 225 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm		EUR Y7	
VDI 25	25	104	75	38,0	40		477,30	02528 ¹⁾
VDI 25	20	104	75	67,5	40		477,30	02028 ¹⁾
VDI 30	30	116	85	76,5	47		460,10	03027 ¹⁾
VDI 30	30	131	100	76,5	47		522,70	13027 ¹⁾
VDI 40	40	133	100	89,0	56		683,40	04026 ¹⁾
VDI 40	40	153	120	89,0	56		570,50	14026 ¹⁾

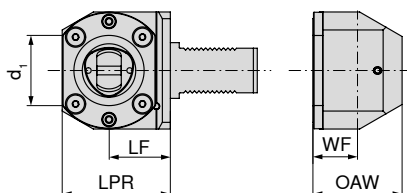
1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:

including pull stud

NEW



						90°	
						83 231 ...	
Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	EUR Y7	
VDI 30	PSC 40	41	65	21	56	620,20	04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	620,20	04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	648,00	05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	682,80	06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	648,00	05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	682,80	06325 ¹⁾

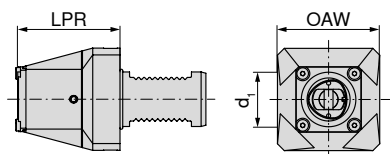
1) Not ex-stock

VDI to PSC adapter

Scope of supply:

including pull stud

NEW

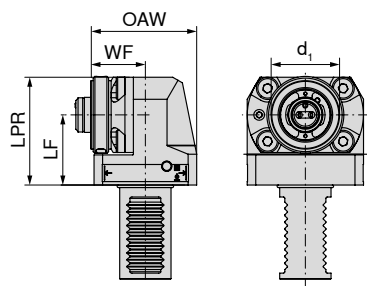


				83 232 ...	
				EUR Y7	
Adapter	d ₁	LPR mm	OAW mm		
VDI 30	PSC 40	70	60	620,20	04027 ¹⁾
VDI 40	PSC 40	75	75	620,20	04026 ¹⁾
VDI 40	PSC 50	85	82	648,00	05026 ¹⁾
VDI 40	PSC 63	90	105	682,80	06326 ¹⁾
VDI 50	PSC 50	85	91	648,00	05025 ¹⁾
VDI 50	PSC 63	100	105	682,80	06325 ¹⁾

1) Not ex-stock

90° VDI to HSK-T adapter

NEW



90°

83 233 ...

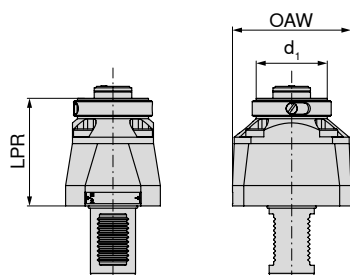
Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	
VDI 30	HSK-T 40	41	65	25	60	
VDI 40	HSK-T 40	51	75	34	90	
VDI 40	HSK-T 63	53	90	45	85	
VDI 50	HSK-T 63	55	97	45	85	

EUR Y7	
620,20	04027 ¹⁾
620,20	04026 ¹⁾
682,80	06326 ¹⁾
682,80	06325 ¹⁾

1) Not ex-stock

VDI to HSK-T adapter

NEW



83 234 ...

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

EUR Y7	
620,20	04027 ¹⁾
620,20	04026 ¹⁾
682,80	06326 ¹⁾
682,80	06325 ¹⁾

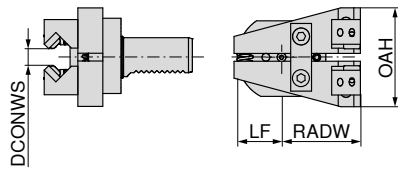
1) Not ex-stock

Bar pullers for disc turrets, radial

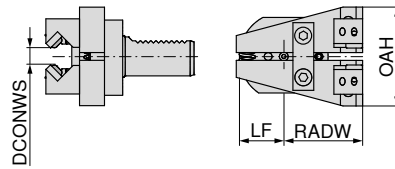
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

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



left



right



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

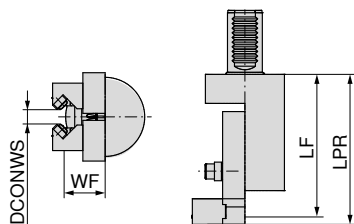
Left-hand		Right-hand	
80 309 ...		80 306 ...	
EUR	Y7	EUR	Y7
		903,90	01600
		1.086,00	02000
1.086,00	03000	1.086,00	03000
1.498,00	04000	1.498,00	04000

Bar pullers for star turrets

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

Scope of supply:

Bar puller with GA 3

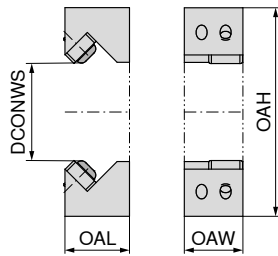


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2 - 42	122,5	129	37,0	3 - 4
VDI 40	2 - 65	142,5	149	41,5	3 - 4

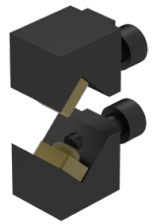
Left-hand	
80 310 ...	
EUR	Y7
1.192,00	03000
1.566,00	04000

Gripper accessories

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



NEW



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

80 312 ...

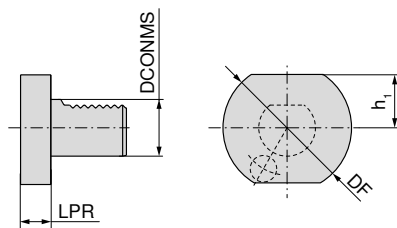
EUR
Y7

199,80 12200

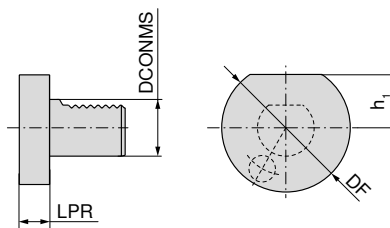
199,80 14200

264,60 16500

Protection plugs



Steel



Plastic

Z2

Z2



Steel

Plastic

DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm
16	40	18,0	16
20	50	23,0	16
25	58	25,0	16
30	68	28,0	16
40	83	32,5	20
50	98	35,0	20

82 317 ...

EUR
Y8

27,76 160

26,03 200

37,15 250

25,70 300

32,61 400

32,61 500

83 318 ...

EUR
Y8

20,73 160

8,34 200

8,54 300

9,67 400

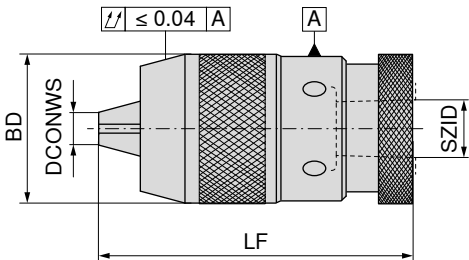
13,94 500

Drill chuck

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

Scope of supply:

Holder with clamping key



				83 636 ...	
				EUR	
				Y8	
SZID	DCONWS mm	LF mm	BD mm		
B12	0 - 8	73	35	90,84	012
B12	0 - 10	92	43	107,10	112
B16	1 - 13	106	50	128,50	016
B16	3 - 16	110	57	108,10	116
B18	3 - 16	110	57	137,20	018



NC clamping key

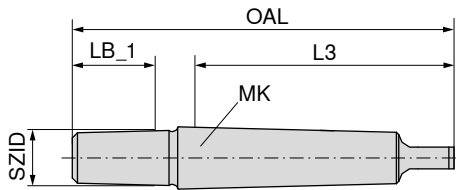
Spare parts
DCONWS

		83 302 ...	
		EUR	
		Y8	
0 - 10		8,86	010
0 - 8		8,51	008
1 - 13		8,51	013
3 - 16		10,21	016

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

Drill chuck adapter DIN 238

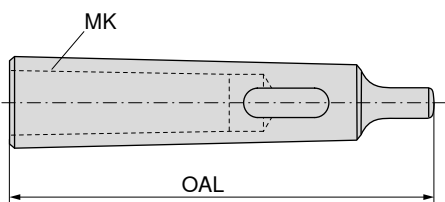
▲ Through-hardened and ground



					83 642 ...	
Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm	EUR Y8	
MK1	B12	62,0	18,5	89,0	4,68	120
MK1	B16	62,0	24,0	97,0	4,15	160
MK1	B18	62,0	32,0	106,0	4,96	180
MK2	B12	75,0	18,5	106,5	4,68	121
MK2	B16	75,0	24,0	110,5	4,68	161
MK2	B18	75,0	32,0	117,5	5,01	181
MK3	B12	94,0	18,5	125,0	6,48	122
MK3	B16	94,0	24,0	134,0	6,28	162
MK3	B18	94,0	32,0	141,0	6,72	182
MK4	B16	117,5	24,0	159,0	14,15	163
MK4	B18	117,5	32,0	168,0	14,36	183
MK5	B16	149,5	24,0	196,0	31,21	164
MK5	B18	149,5	32,0	204,5	32,40	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



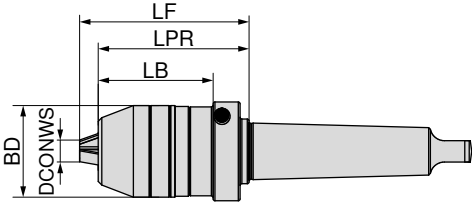
			83 644 ...	
Adapter	d ₁	OAL mm	EUR Y8	
MK1	MK0	80	10,10	010
MK2	MK1	92	10,44	020
MK3	MK1	99	12,42	130
MK3	MK2	112	11,44	030
MK4	MK1	124	18,90	240
MK4	MK2	124	17,93	140
MK4	MK3	140	17,60	040
MK5	MK2	156	38,12	250
MK5	MK3	156	39,32	150
MK5	MK4	171	37,48	050

Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



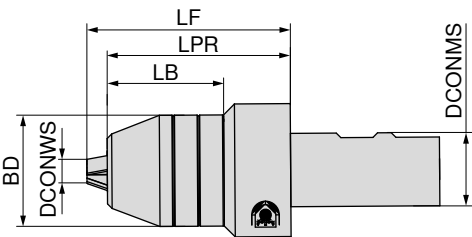
						84 314 ...	
Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	EUR Y8	
MK3	0,5 - 13	48,5	64	84	93,0	232,30	313
MK3	2,5 - 16	51,0	64	84	94,5	232,30	316
MK4	2,5 - 16	51,0	64	84	94,5	256,00	416

Short drill chuck – NC 2010

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

Scope of supply:

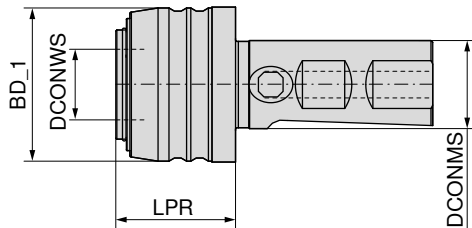
Holder with clamping key



						G 6,3 n _{max} 10000	
						84 311 ...	
DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	EUR Y8	
25	0,5 - 13	48,5	50,9	80	89,0	256,00	213
32	0,5 - 13	48,5	50,9	80	89,0	278,60	313
32	2,5 - 16	51,0	50,9	80	90,5	302,40	316

Synchro quick change tapping chuck with minimum length compensation

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



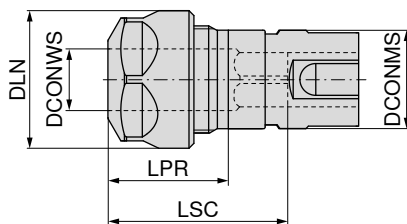
								83 641 ...	
DCONWS	cutting range	SZID	LPR	BD_1	DCONMS	LZD±		EUR	
mm			mm	mm	mm	mm		Y8	
20	M3 - M12	1	35	43,5	25	1,0 / 0,2		137,20	012
32	M6 - M20	2	56	60,0	25	1,0 / 0,2		157,70	020

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	cutting range	LPR	DLN	LSC	for collet	DCONMS	EUR	
	mm		mm	mm	mm		mm	Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	020



Lock nut



Lock nut IK



Lock nut



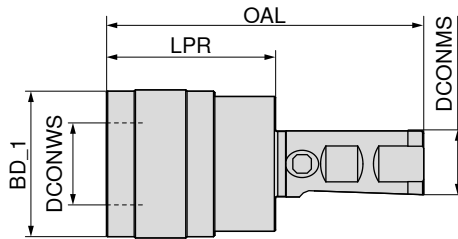
Y clamping key

Spare parts for Article no.

		62 950 ...		83 950 ...		62 950 ...		83 357 ...	
		EUR		EUR		EUR		EUR	
83 608 012	M22x1,5 - SW25	18,35	044	M22x1,5	31,54	054	M22x1,5	16,52	116
83 608 020				M32x1,5	35,76	055	M32x1,5	18,25	125

Quick change tap chuck with length compensation

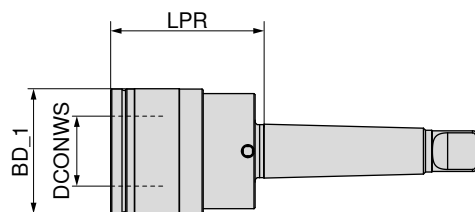
- ▲ With cylindrical shank
- ▲ With length compensation under tension and compression (LZD)
- ▲ Quick change adapters



DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	83 648 ...	
20	M3 - M12	01	41	38	19	91	9	EUR Y8	
20	M6 - M20	02	63	55	31	138	15	199,80	112
								270,10	120
25	M3 - M12	01	41	38	19	97	9	199,80	212
25	M6 - M20	02	63	55	31	119	15	245,10	220
32	M3 - M12	01	41	38	19	102	9	203,10	312
32	M6 - M20	02	63	55	31	124	15	252,80	320

DIN 228B – Quick change tap chuck with length compensation

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



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 646 ...	
MK 2	M3 - M12	01	46	38	19	9	EUR Y8	
MK 3	M3 - M12	01	46	38	19	9	172,70	212
MK 3	M6 - M20	02	69	55	31	15	168,50	312
MK 4	M6 - M20	02	70	55	31	15	211,70	320
							211,70	420

Accessories

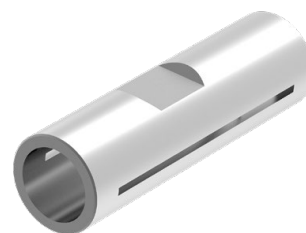
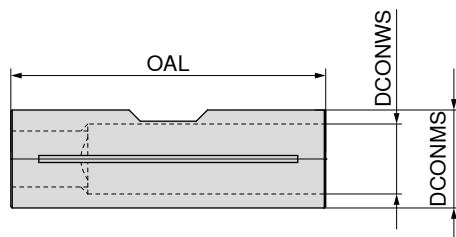


Collet

→ 277, 279-281

Clamping sleeve for taps in Weldon chucks

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

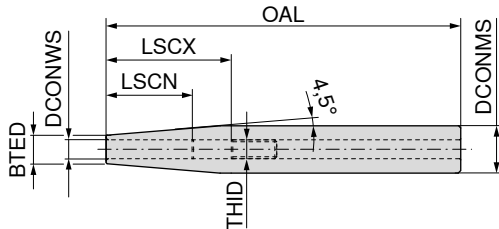


			80 699 ...	
DCONWS _{H7}	DCONMS _{f6}	OAL	EUR	
mm	mm	mm	Y7	
3,5	6	26	35,11	03500
4,0	8	32	36,32	04000
4,5	8	26	36,32	04500
6,0	10	30	35,16	06000
7,0	10	31	35,16	07000
8,0	12	38	35,64	08000
9,0	12	38	35,64	09000
10,0	14	42	36,13	10000
11,0	14	42	36,13	11000
12,0	16	44	36,65	12000
14,0	18	45	37,65	14000
16,0	20	46	38,69	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	EUR
mm		mm	mm	mm	mm	mm	mm	mm	Y8
12		3	8	150					116,70 003
12		4	8	150					116,70 004
12		5	10	150					116,70 005
12		6	10	150	36	26	M5	2,5	116,70 006
16		3	10	150					116,70 103
16		4	10	150					116,70 104
16		5	10	150					116,70 105
16		6	10	150	36	26	M5	2,5	116,70 106
16		8	12	150	36	26	M6	3,0	116,70 108
20		3	10	150					116,70 203
20		4	10	150					116,70 204
20		5	10	150					116,70 205
20		6	10	150	36	26	M5	2,5	116,70 206
20		8	12	150	36	26	M6	3,0	116,70 208
20		10	14	150	42	32	M8x1	3,0	116,70 210
20		12	16	150	47	37	M10x1	5,0	116,70 212
25		3	10	150					116,70 303
25		4	10	150					116,70 304
25		5	15	150					116,70 305
25		6	20	150	36	26	M5	2,5	116,70 306
25		8	20	150	36	26	M6	3,0	116,70 308
25		10	20	150	42	32	M8x1	3,0	116,70 310
25		12	20	150	47	37	M10x1	5,0	116,70 312
25		14	20	150	47	37	M10x1	5,0	116,70 314
25		16	22	150	50	40	M10x1	5,0	116,70 316
32		6	20	150	36	26	M5	2,5	116,70 406
32		8	20	150	36	26	M6	3,0	116,70 408
32		10	24	150	42	32	M8x1	3,0	116,70 410
32		12	24	150	47	37	M10x1	5,0	116,70 412
32		14	27	150	47	37	M10x1	5,0	116,70 414
32		16	27	150	50	40	M10x1	5,0	116,70 416
32		18	27	150	50	40	M10x1	5,0	116,70 418
32		20	27	150	52	42	M10x1	5,0	116,70 420



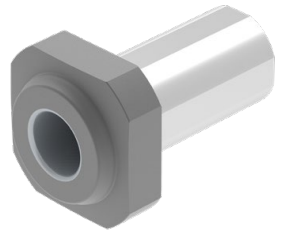
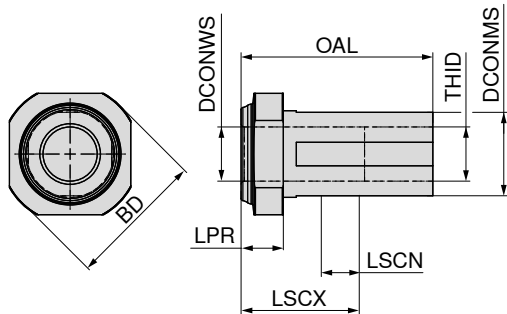
Observe the minimum clamping depth on → Page 300.

Hydraulic chuck with cylindrical shank

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

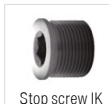
Scope of supply:

Base body with backstop screw and pressure screw



83 402 ...

DCONMS mm	DCONWS mm	BD mm	LPR mm	OAL mm	LSCX mm	LSCN mm	THID	EUR Y8	
32	16	41	19,5	78,5	51	41	M22x1	302,80	31699
32	20	41	19,5	78,5	51	41	M22x1	302,80	32099
40	16	46	19,5	88,5	51	41	M22x1	312,30	41699
40	20	46	19,5	88,5	51	41	M22x1	312,30	42099
40	25	46	19,5	88,5	57	47	M27x1	312,30	42599



83 950 ...

Spare parts

DCONWS

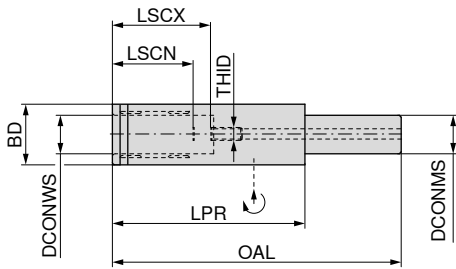
16 - 20	EUR Y7	
25	22,12	48500
	34,91	48600

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 ...

EUR
Y8

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

290,60	112
290,60	120
290,60	132
299,20	232

1 Observe the minimum clamping depth on → **Page 300.**



Stop screw IK

83 950 ...

EUR
Y7

Spare parts for Article no.

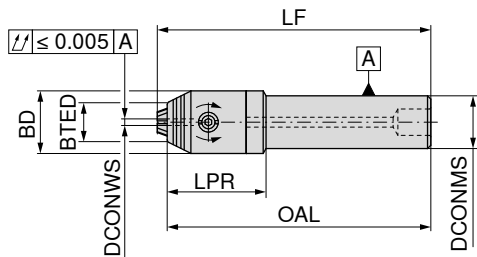
84 313 112	M6x12,5 - SW3	8,35	419
84 313 120	M10x1x13,5 - SW5	8,35	421
84 313 132	M10x1x13,5 - SW5	8,35	421
84 313 232	M10x1x13,5 - SW5	8,35	421

Micro-precision collet chuck

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

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm



G 2,5 n_{max} 18000

84 315 ...

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

EUR
Y7

402,80 161

423,40 162

464,40 163

402,80 201

423,40 202

464,40 203

Spare parts for Article no.

Article no.	EUR Y7	152	1,8 Nm	EUR Y7	018
84 315 161	5,77	152	1,8 Nm	99,95	018
84 315 162	5,77	152	1,8 Nm	99,95	018
84 315 163	5,77	152	1,8 Nm	99,95	018
84 315 201	5,77	152	1,8 Nm	99,95	018
84 315 202	5,77	152	1,8 Nm	99,95	018
84 315 203	5,77	152	1,8 Nm	99,95	018



80 950 ...

EUR
Y7

5,77 152

1,8 Nm

5,77 152

1,8 Nm

5,77 152

1,8 Nm

5,77 152

1,8 Nm



80 021 ...

EUR
Y7

99,95 018

99,95 018

99,95 018

99,95 018

99,95 018

99,95 018

99,95 018

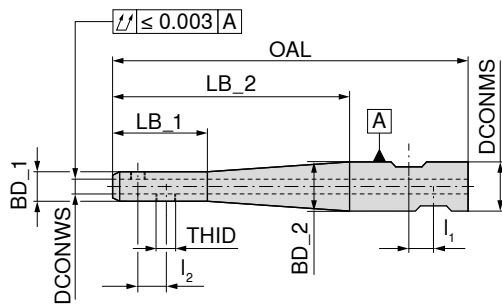
99,95 018

Micro-extension

- ▲ for shanks with lateral clamping flat to DIN 6535 HB / 1835 B
- ▲ with option for Synchro-Plus tapping (available on request)

Scope of supply:

Holder with shank clamping screw



80 642 ...

DCONWS	BD_1	LB_1	LB_2	OAL	DCONMS	BD_2	I_1	I_2	THID	TQX	EUR	
mm	mm	mm	mm	mm	mm	mm	mm	mm		Nm	Y7	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	112,40	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	136,10	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	110,10	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	132,80	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	110,10	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	132,80	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	110,10	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	132,80	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	113,40	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	136,10	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	127,40	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	156,70	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	132,80	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	159,90	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	131,70	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	157,70	12000 ¹⁾

1) only pre-balanced design



Clamping screw

80 950 ...

Spare parts

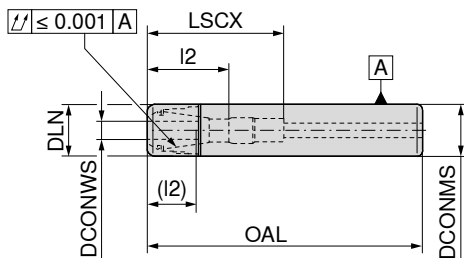
DCONWS		EUR	
		Y7	
6	M6X0,5X3	8,21	21700
8	M8x0,75x4	8,21	21800
10	M10x1x5	8,21	21900
12 - 14	M12x1x5	8,33	30000
16 - 18	M14x1x6,5	8,66	31000
20	M16x1x6,5	8,90	32000

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	EUR	
mm	mm	mm	mm	mm	mm		Y8	
10	1 - 5	10	80	16		4004E (ER08)	142,70	00400
10	1 - 5	10	150	16		4004E (ER08)	140,90	005
10	1 - 5	10	200	16		4004E (ER08)	192,70	006
12	1 - 5	10	120	16		4004E (ER08)	153,20	11000
12	1 - 5	10	160	16		4004E (ER08)	159,50	11200
12	1 - 5	10	200	16		4004E (ER08)	195,20	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	125,30	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	156,50	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	125,30	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	158,50	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	131,50	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	156,50	104



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

Spare parts for collet	 Mini lock nut IK		 Mini lock nut		 Stop screw 2		 Stop screw 1			
	84 950 ...		84 950 ...		83 950 ...		83 950 ...			
	EUR		EUR		EUR		EUR			
	Y8		Y8		Y8		Y8			
	4004E (ER08)			39,34	040					
4008E (ER11)			34,14	041	M8x1 - SW4	13,94	340	M8x1 - SW4	10,23	336
426E (ER16)	42,46	035	34,14	034	M11x1 - SW6	14,50	341	M11x1 - SW6	10,23	337

Accessories

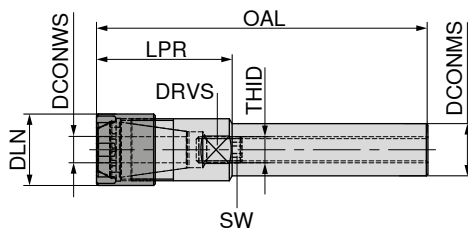
ER collet	Device	Roll key	Roll key device
→ 256-263, 266	→ 274	→ 275	→ 275



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

ER collet chuck with mini clamping nut

▲ with cylindrical shank



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

83 453 ...

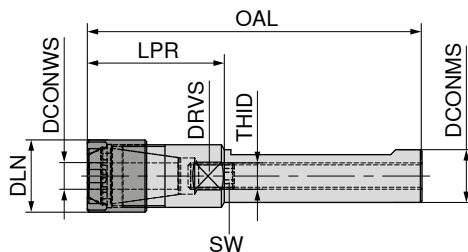
EUR
Y8

80,56	081 ¹⁾
110,40	122
118,40	163
83,51	164
118,40	165
114,70	204
132,10	254
165,80	256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



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

83 454 ...

EUR
Y8

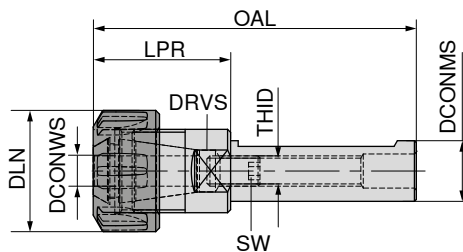
114,70	204
86,22	206
100,20	208
132,10	254
165,80	256

Spare parts for ER collet chuck with mini lock nut

	 ER Mini clamping key			 Mini lock nut			 Stop screw IK	
	83 950 ...			62 950 ...			83 950 ...	
Spare parts for collet	EUR Y8			EUR W7			EUR Y8	
4004E (ER08)	14,36	099	M10x0,75	25,81	067	M5x0,8 SW 2,5	1,53	003
4008E (ER11)	15,67	100	M13x0,75	25,16	065	M7,5x0,5 SW 3	1,78	004
426E (ER16)	16,63	101	M19x1	24,62	066	M11x1 SW 5	2,06	006
426E (ER16)	16,63	101	M19x1	24,62	066	M8x1,25 SW 4	1,92	005
428E (ER20)	18,79	102	M24x1	27,76	068	M14x1 SW 5	2,21	007
430E (ER25)	21,06	103	M30x1	30,34	069	M18x1 SW 5	2,40	008

ER Collet Chuck

▲ with cylindrical shank and clamping flat



									83 455 ...
DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	EUR Y8
mm	mm	mm	mm	mm	mm	mm	mm		
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	102,40
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	125,80
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	117,10
									401
									402
									405

	 Lock nut			 Y clamping key			 Stop screw IK			 Stop screw	
	62 950 ...			83 357 ...			83 950 ...			83 950 ...	
Spare parts for collet	EUR W7			EUR Y8			EUR Y8			EUR Y8	
470E (ER32)	19,12	056	M40x1,5	24,84	132				M22x1,5x20 SW 5	2,99	095
472E (ER40)	18,58	057	M50x1,5	27,33	140	M28x1,5x25 SW 6	3,93	096			

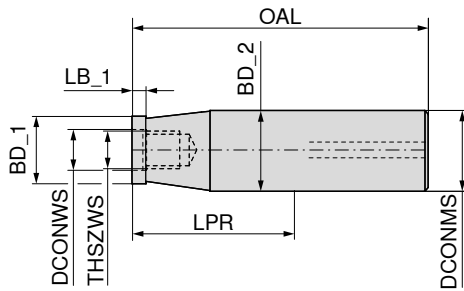
Accessories



ER collet

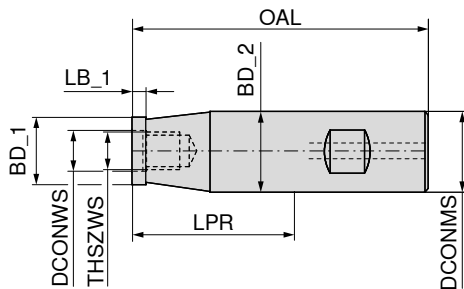
→ 256-266

Cylindrical milling bar for cutters with threaded end



								56 727 ...	
DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	EUR WA	
12	M5	5,5	20	9,5	7,8	11,5	65	74,85	052
12	M6	6,5	20	11,5	7,8	11,5	65	76,47	060
12	M6	6,5	40	11,5	7,8	11,5	85	82,51	062
16	M8	8,5	20	13,8	7,8	15,8	68	77,44	081
16	M8	8,5	40	13,8	7,8	15,8	88	83,38	082
20	M10	10,5	25	18,0	7,8	19,8	75	80,78	101
20	M10	10,5	45	18,0	7,8	19,8	95	87,27	102
25	M12	12,5	50	21,0	7,8	24,8	106	91,37	122
32	M16	17,0	50	29,0	12,0	31,8	110	98,39	162

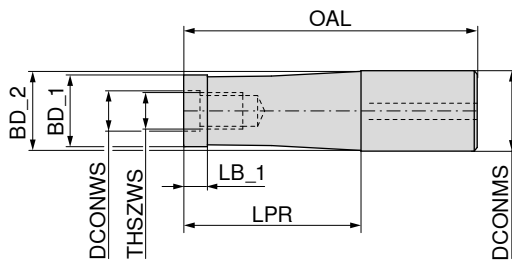
Milling bar for cutters with threaded end (Weldon)



								56 729 ...	
DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	EUR WA	
12	M6	6,5	20	11,5	7,8	11,5	65	76,47	060
12	M6	6,5	40	11,5	7,8	11,5	85	82,51	062
16	M8	8,5	20	13,8	12,0	15,8	68	77,44	081
16	M8	8,5	40	13,8	8,0	15,8	88	83,38	082
20	M10	10,5	25	18,0	8,0	19,8	75	80,78	101
20	M10	10,5	45	18,0	12,0	19,8	95	87,27	102
25	M12	12,5	30	21,0	12,0	24,9	86	84,03	121
25	M12	12,5	50	21,0	8,0	24,9	106	91,37	122
32	M16	17,0	50	29,0	12,0	31,8	110	98,39	162

Screw-in adapter with cylindrical shank

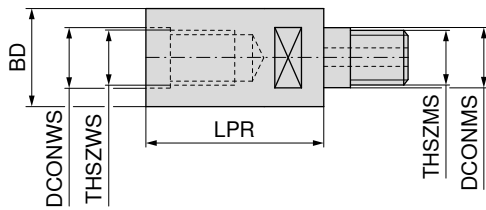
▲ Vibration-damped



								Solid carbide	Densimet	Densimet
								56 743 ...	56 744 ...	56 721 ...
DCONMS _{h6}	THSZWS	DCONWS	LPR	BD_1	LB_1	BD_2	OAL	EUR WC	EUR WC	EUR WC
12	M5	5,5	40	9,5	9	11,3	85		233,40	052
12	M5	5,5	60	9,5	9	11,3	105		252,20	053
12	M5	5,5	80	9,5	9	11,3	125		280,80	054
12	M6	6,5	20	11,5		11,5	65	295,10		
12	M6	6,5	40	11,5		11,5	85	314,90		
12	M6	6,5	60	11,5		11,5	105	349,00		
12	M6	6,5	80	11,5		11,5	125	382,10		
12	M6	6,5	100	11,5		11,5	145	415,10		
16	M8	8,5	40	14,2	9	15,3	88	302,70	287,40	082
16	M8	8,5	60	14,2	9	15,3	108	333,70	310,50	083
16	M8	8,5	80	14,2	9	15,3	128	360,10	339,20	084
16	M8	8,5	100	14,2	9	15,3	148	392,00	373,20	085
16	M8	8,5	120	14,2	9	15,3	168	418,30	411,80	086
16	M8	8,5	150	14,2	9	15,3	198		518,60	087
20	M10	10,5	60	18,5	9	19,3	110	384,20	362,30	103
20	M10	10,5	80	18,5	9	19,3	130	432,70	403,00	104
20	M10	10,5	100	18,5	9	19,3	150	471,20	450,40	105
20	M10	10,5	120	18,5	9	19,3	170	535,10	499,80	106
20	M10	10,5	140	18,5	9	19,3	190	596,70	582,40	107
25	M12	12,5	75	23,0	9	24,3	131		543,90	124
25	M12	12,5	80	23,0	9	24,3	136	462,40		
25	M12	12,5	100	23,0	9	24,3	156	538,40	601,10	125
25	M12	12,5	120	23,0	9	24,3	176	669,50		
25	M12	12,5	125	23,0	9	24,3	181		658,50	126
25	M12	12,5	140	23,0	9	24,3	196	772,80		
25	M12	12,5	150	23,0	9	24,3	206		739,90	127
25	M12	12,5	160	23,0	9	24,3	216	876,30		
25	M12	12,5	175	23,0	9	24,3	231		837,90	128
32	M16	17,0	100	29,0	9	31,5	160	984,30		
32	M16	17,0	150	29,0	9	31,5	210	1.195,00		
32	M16	17,0	200	29,0	9	31,5	260	1.441,00		
32	M16	17,0	250	29,0	9	31,5	310	1.729,00		
32	M16	17,0	300	29,0	9	31,5	360	1.978,00		
36	M16	17,0	100	31,5	9	34,3	160			864,30
36	M16	17,0	150	31,5	9	34,3	210			1.316,00
36	M16	17,0	200	31,5	9	34,3	260			1.349,00

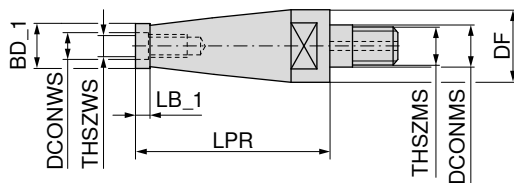
1) On request

Extensions for milling cutters with threaded end



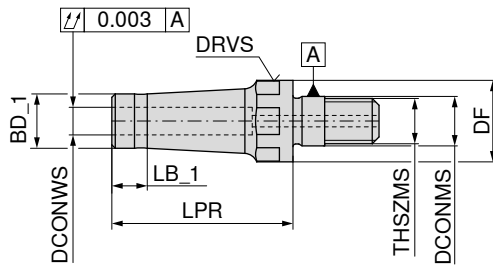
THSZWS	THSZMS	DCONWS mm	DCONMS mm	LPR mm	BD mm	56 733 ...	
M8	M8	8,5	8,5	40	13,8	EUR WA 88,23	081
M8	M8	8,5	8,5	60	13,8	109,10	082
M10	M10	10,5	10,5	40	18,0	91,59	101
M10	M10	10,5	10,5	60	18,0	112,40	102
M12	M12	12,5	12,5	40	21,0	95,04	121
M12	M12	12,5	12,5	60	21,0	115,60	122
M16	M16	17,0	17,0	40	29,0	98,39	161
M16	M16	17,0	17,0	60	29,0	118,90	162

Reductions for milling cutters with threaded end



THSZWS	THSZMS	DCONMS mm	DCONWS mm	LPR mm	BD_1 mm	DF mm	LB_1 mm	56 735 ...	
M6	M8	8,5	6,5	20	9,5	13,8	7,8	EUR WA 81,86	060
M8	M10	10,5	8,5	40	13,8	18,0	7,8	91,59	081
M8	M12	12,5	8,5	60	13,8	21,0	7,8	98,39	082
M10	M12	12,5	10,5	40	18,0	21,0	7,8	95,04	101
M10	M16	17,0	10,5	60	18,0	29,0	7,8	115,60	102
M12	M16	17,0	12,5	40	21,0	29,0	7,8	95,04	121

Threaded shrink adapter



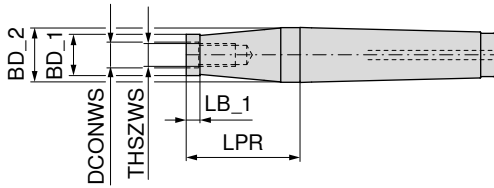
56 708 ...

THSZMS	DCONWS mm	BD_1 mm	LPR mm	LB_1 mm	DF mm	DCONMS mm	TQX Nm	DRVS mm	
M10	6	12	40	7,8	18	10,5	30	17	EUR 110,10
M12	6	12	40	7,8	21	12,5	50	19	WA 061
M16	6	12	40	7,8	29	17,0	100	27	110,10 062
									110,10 063
M10	8	16	40	7,8	18	10,5	30	17	110,10 081
M12	8	16	40	7,8	21	12,5	50	19	110,10 082
M16	8	16	40	7,8	29	17,0	100	27	110,10 083
M10	10	18	60		18	10,5	30	17	110,10 101
M12	10	20	60	7,8	21	12,5	50	19	110,10 102
M16	10	20	60	7,8	29	17,0	100	27	110,10 103
M12	12	21	60		21	12,5	50	19	110,10 122
M16	12	24	60	7,8	29	17,0	100	27	110,10 123



Observe the minimum clamping depth on → Page 300.

Morse taper milling bar for cutters with threaded end



							56 731 ...	
Adapter	THSZWS	DCONWS	BD_1	LB_1	BD_2	LPR	EUR	
		mm	mm	mm	mm	mm	WA	
MK2	M8	8,5	13,8	8,5	18,0	20	56,70	081
MK2	M8	8,5	13,8	8,5	18,0	40	60,27	082
MK2	M8	8,5	13,8	8,5	18,0	60	61,88	083
MK3	M8	8,5	13,8	8,5	24,1	80	66,63	084
MK3	M8	8,5	13,8	8,5	24,1	100	70,74	085
MK2	M10	10,5	18,0		18,0	20	56,70	101
MK2	M10	10,5	18,0		18,0	40	60,27	102
MK2	M10	10,5	18,0		18,0	60	61,88	103
MK3	M10	10,5	18,0	8,5	24,1	80	66,63	104
MK3	M10	10,5	18,0	8,5	24,1	100	70,74	105
MK3	M12	12,5	21,0	8,5	24,0	10	55,29	121
MK3	M12	12,5	21,0	8,5	24,1	30	56,70	122
MK3	M12	12,5	21,0	8,5	24,1	45	59,51	123
MK3	M12	12,5	21,0	8,5	24,1	60	62,43	124
MK3	M12	12,5	21,0	8,5	24,1	75	66,63	125
MK3	M12	12,5	21,0	8,5	24,1	85	73,01	126
MK3	M12	12,5	21,0	8,5	24,1	95	77,12	127
MK4	M12	12,5	21,0	8,5	31,6	120	110,10	129
MK4	M16	17,0	29,0	12,0	31,6	10	60,27	161
MK4	M16	17,0	29,0	12,0	31,6	35	61,67	162
MK4	M16	17,0	29,0	12,0	31,6	50	67,28	163
MK4	M16	17,0	29,0	9,0	31,6	65	72,25	164
MK4	M16	17,0	29,0	12,0	31,6	80	78,62	165
MK4	M16	17,0	29,0	12,0	31,6	95	87,15	166
MK5	M16	17,0	29,0	9,0	44,7	150	124,20	168
MK5	M16	17,0	29,0	9,0	44,7	180	131,70	169

MultiChange – Programme Overview

The highly stable "MultiChange" exchangeable head system enables an extremely fast tool change. Designed to be durable and for a very high radial run-out accuracy, this exchangeable head system is probably the most stable and precise exchangeable head system on the market. The following chapters contain suitable exchangeable heads for almost every application.

Solid carbide drilling

▲ Solid Carbide NC Spot Drill

∠ 90°, 120°, 142° / Ø 8, 10, 12, 16, 20 mm / ZEFP* 2

→ **Chapter 2, Solid carbide drilling**



*ZEFP = Number of teeth

Reaming and Countersinking

▲ Through hole reamers

Ø 8–30.2 mm incl. special diameters / ZEFP 4-6

▲ Blind hole reamers

Ø 12.2–30.2 mm incl. special diameters / ZEFP 6

→ **Chapter 4, Reaming and countersinking**



*ZEFP = Number of teeth

Solid Carbide milling cutters

▲ Solid carbide shoulder mills

Type N, PCR-UNI, PCR-ALU / Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4

▲ Solid carbide rough and finish milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP* 4–6

▲ Solid carbide finish milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP* 6

▲ Solid carbide high-feed cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP* 6

▲ Solid carbide ball-nosed end mills

Ø 10, 12, 16, 20 mm / ZEFP* 4

▲ Solid carbide torus bull nose milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4

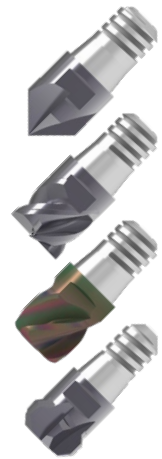
▲ Solid carbide quarter round cutter

Ø 8, 10, 12, 16, 20 mm

▲ Solid carbide deburring cutters

Ø 10, 12, 16, 20 mm / ZEFP* 4+6

→ **Chapter 14, Solid carbide milling cutters**



*ZEFP = Number of teeth

Tool holder



▲ Steel Holder Extra Short

Cylindrical / Tapered 87°

Length 60–90 mm

for SZID 8, 10, 12, 16, 20 mm

249+250



▲ Short Holder Steel / Solid Carbide

cylindrical

Length 85–120 mm

for SZID 8, 10, 12, 16, 20 mm

250+251



▲ Holder Steel / Solid Carbide, Short

87° taper

Length 85–120 mm

for SZID 8, 10, 12, 16, 20 mm

249



▲ Solid Carbide Holder Medium

Cylindrical / Tapered 87°

Length 110–150 mm

for SZID 8, 10, 12, 16, 20 mm

249+251



▲ Holder Steel/Solid Carbide, Long

cylindrical

Length 150–200 mm

for SZID 8, 10, 12, 16, 20 mm

250+251



▲ Holder Steel/Solid Carbide, Long

87° taper

Length 150–200 mm

for SZID 8, 10, 12, 16, 20 mm

249



▲ Steel / Solid Carbide Holder Extra Long

cylindrical

Length 200–250 mm

For Ø 16 and 20 mm

250+251

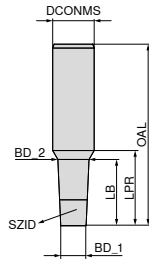
MultiChange – Holders

▲ Tapered 87°

▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



84 001 ...



Steel



84 004 ...



Solid carbide



84 005 ...



Solid carbide



84 007 ...



Solid carbide



84 010 ...

SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	EUR Y8	080	EUR Y8	080	EUR Y8	080	EUR Y8	080
06	7,8	9,4	10	60	18	19	96,45							
06	7,8	9,4	10	85	43	44			114,40					
06	7,8	9,4	10	110	68	69						218,10		
06	7,8	9,4	10	150	108	109							251,00	
08	9,8	12,0	16	70	25	29	97,95							
08	9,8	13,0	16	90	38	41			116,70					
08	9,8	14,9	16	110	60	61						239,90		
08	9,8	15,4	16	150	100	101							279,60	
10	11,8	14,2	16	70	27	29	109,10							
10	11,8	15,2	16	90	40	41			118,90					
10	11,8	16,6	20	110	56	59						307,10		
10	11,8	19,5	20	150	98	99							332,40	
12	15,8	18,2	20	80	27	29	116,70							
12	15,8	19,5	20	105	53	54			144,80					
12	15,8	19,5	20	130	78	79						360,10		
12	15,8	19,5	20	150	98	99							371,10	
16	19,8	23,2	25	90	39	41	136,10							
16	19,8	24,5	25	120	60	61			167,50					
16	19,8	24,5	25	150	90	91						417,30		
16	19,8	24,5	25	200	140	141							469,00	

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

Accessories



insertion key



Adjustable wrench

→ 282

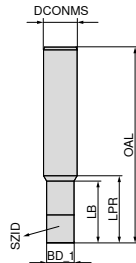
→ 282

MultiChange – Holders

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

Scope of supply:

Holder without mounting key



Steel



84 000 ...

EUR
Y8

87,48

080



Steel



84 002 ...

EUR
Y8

102,70

080



Steel



84 008 ...

EUR
Y8

144,80

080



Steel



84 011 ...

EUR
Y8

328,40

160

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

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

Accessories



insertion key



Adjustable wrench

→ 282

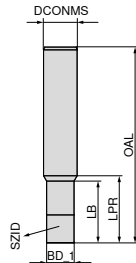
→ 282

MultiChange – Holders

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

Scope of supply:

Holder without mounting key



Solid carbide



84 003 ...

EUR
Y8

197,10

080



Solid carbide



84 006 ...

EUR
Y8

218,10

080



Solid carbide



84 009 ...

EUR
Y8

251,00

080



Solid carbide



84 012 ...

EUR
Y8

477,90

160

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

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

Accessories



insertion key

→ 282



Adjustable wrench

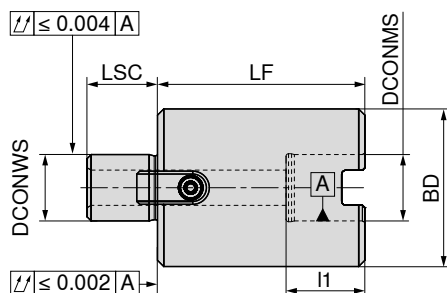
→ 282

Extension for Shell mill arbors

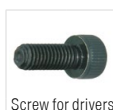
▲ Variable applications through usage of one or two extensions (max. 2 x 50 mm possible)

Scope of supply:

Holder without clamping screw



						82 648 ...	
DCONWS _{h5} mm	DCONMS _{h5} mm	LF mm	BD mm	LSC mm	I ₁ mm	EUR Y8	
16	16	75	38	17	19	79,17	075
16	16	50	38	17	19	78,62	050
22	22	50	48	19	21	80,57	150
22	22	75	48	19	21	81,33	175
27	27	75	58	21	23	85,86	275
27	27	50	58	21	23	84,35	250
32	32	75	78	24	26	94,72	375
32	32	50	78	24	26	91,47	350
40	40	50	88	27	29	113,40	450
40	40	75	88	27	29	117,70	475



Screw for drivers



Driver



Retaining screw



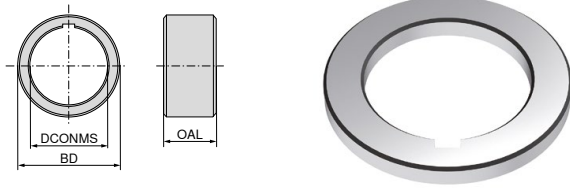
Retaining screw

		83 950 ...		83 950 ...		82 649 ...		82 649 ..				
Spare parts for Article no.		EUR Y8		EUR Y8		EUR Y8		EUR Y8				
82 648 075	M3x8	0,39	296	8x9x17,5	7,45	120		M8x100	3,80	075		
82 648 050	M3x8	0,39	296	8x9x17,5	7,45	120	M8x125	4,46	001	M8x80	2,75	050
82 648 150	M4x12	0,49	297	10x11x20,5	7,71	121	M10x125	6,59	100	M10x80	4,35	150
82 648 175	M4x12	0,49	297	10x11x20,5	7,71	121				M10x100	5,74	175
82 648 275	M5x12	0,59	136	12x13x24,3	8,73	122				M12x100	8,58	275
82 648 250	M5x12	0,59	136	12x13x24,3	8,73	122	M12x125	10,08	200	M12x80	6,36	250
82 648 375	M5x20	0,66	137	14x21x21,2	9,00	123				M16x100	13,07	375
82 648 350	M5x20	0,66	137	14x21x21,2	9,00	123	M16x125	14,79	300	M16x80	9,33	350
82 648 450	M6x16	0,77	138	15,9x16,3x19,5	11,56	295						
82 648 475	M6x16	0,77	138	15,9x16,3x19,5	11,56	295						



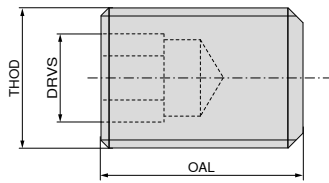
When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

Milling Adapter Rings DIN 2084 Form B



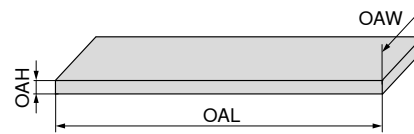
83 385 ...			
DCONMS mm	BD mm	OAL mm	EUR Y8
13	22	2	6,10
	22	3	6,15
	22	4	6,43
	22	5	6,60
	22	6	6,93
	22	10	7,76
16	26	2	5,41
	26	3	5,42
	26	4	5,49
	26	5	5,71
	26	6	5,86
	26	10	8,38
	26	20	10,66
	26	30	13,28
22	34	2	5,60
	34	3	5,71
	34	4	5,77
	34	5	6,31
	34	6	7,15
	34	10	9,83
	34	20	12,32
	34	30	16,32
27	41	2	6,15
	41	3	6,29
	41	4	6,94
	41	5	7,19
	41	6	8,09
	41	10	10,03
	41	20	13,61
	41	30	18,04
32	47	2	6,87
	47	3	7,28
	47	4	7,94
	47	5	8,58
	47	6	9,09
	47	10	11,12
	47	20	16,74
	47	30	20,31
40	55	2	7,98
	55	3	8,87
	55	4	9,79
	55	5	10,66
	55	6	11,56
	55	10	15,55
	55	20	21,17
	55	30	26,24

Screw for cylindrical adaptors E2



Levelling plates

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



83 950 ...			
THOD	OAL mm	DRVS mm	EUR Y8
M6	12	3	2,12 461
M6	16	3	2,12 462
M6	25	3	2,12 463
M8	10	4	2,12 464
M8	12	4	2,12 465
M8	16	4	2,12 466
M8	20	4	2,12 467
M8	25	4	2,12 468
M8	30	4	2,12 469
M10	16	5	2,12 470
M10	20	5	2,12 471
M10	25	5	2,51 472
M10	30	5	2,31 473
M12	12	6	2,51 474
M12	16	6	2,51 475
M12	20	6	2,51 476
M12	25	6	2,51 477

83 950 ...			
OAH mm	OAL mm	OAW mm	EUR Y8
4	38	14	11,34 210
4	48	14	11,34 211
4	54	14	11,34 212
4	55	12	11,34 213
4	69	16	11,34 214
4	72	14	11,34 215
4	75	12	11,34 216
4	99	16	11,34 217
5	84	20	11,34 218
5	117	20	11,34 219
7	99	25	11,34 220
7	120	25	13,07 221
7	129	25	11,34 222
7	143	25	11,34 223

Clamping screw for cylindrical adaptors E1



83 950 ...		
THOD	EUR Y8	
M10x1x10	5,05	180
M12x1x12	5,05	181
M16x1x13	6,20	182

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



for collet	THOD	DRVS mm	83 950 ... EUR Y8	
ER 16	M24x1	19	51,46	45600
ER 20	M28x1,5	22	54,09	45700
ER 25	M32x1,5	24	56,08	45800
ER 32	M40x1,5	32	60,02	45900

Ball-shaped spray nozzle



	83 950 ... EUR Y8	
Ø 8 - M 5	2,84	200
Ø 10 - M 6	3,59	201
Ø 14 - M 8	3,59	202

Pipe joints

▲ steel pipe



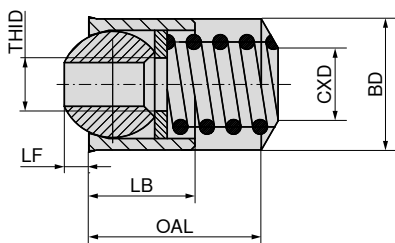
THOD	CXD mm	Type	83 950 ... EUR Y7	
M8x1	5	A	7,06	372
M10x1	6	A	15,55	373
M10x1	8	A	8,84	374
M8x1	5	B	7,06	375
M10x1	6	B	15,55	376
M10x1	8	B	15,55	377

O-Ring



Adapter	Size	83 950 ... EUR Y8	
VDI 16	15 x 1,5	0,89	205
VDI 20	18,77 x 1,78	0,89	206
VDI 30	28,3 x 1,78	0,89	207
VDI 40	37,77 x 2,62	0,89	208
VDI 50	47,29 x 2,62	0,89	209

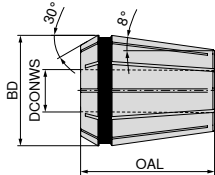
Spray nozzle element



BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ... EUR Y8	
9.88	M4	13	8	2.2	5.5	10,27	247
11.88	M6	15	10	3.0	6.8	10,27	248
13.88	M6	17	12	4.0	6.8	10,27	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

	BD = 8,5 OAL = 13,6 4004 E / ER08		BD = 11,5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27,5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	84 577 ...		84 585 ...		84 596 ...		84 597 ...		84 598 ...		84 599 ...	
DCONWS	EUR		EUR		EUR		EUR		EUR		EUR	
mm	Y8		Y8		Y8		Y8		Y8		Y8	
1,0	66,82	010	64,22	010	63,70	010						
1,1					99,91	011						
1,2					99,91	012						
1,4					99,91	014						
1,5	66,82	015	64,22	015	63,70	015						
1,6					99,91	016						
1,8					99,91	018						
2,0	52,05	020	49,99	020	47,92	020	49,45	020	50,75	020		
2,2					88,55	022						
2,4					88,55	024						
2,5	52,05	025	49,99	025	47,92	025	49,45	025				
2,6					88,55	026						
2,8					88,55	028						
3,0	44,77	030	42,46	030	40,91	030	41,94	030	42,46	030	70,41	030
3,2					78,71	032						
3,4					78,71	034						
3,5	44,77	035	42,46	035	58,52	035	61,61	035				
3,6					78,71	036						
3,8					78,71	038						
4,0	44,77	040	42,46	040	40,91	040	41,94	040	42,46	040	53,61	040
4,5	44,77	045	42,46	045	58,52	045	61,61	045				
5,0	44,77	050	42,46	050	40,91	050	41,94	050	42,46	050	53,61	050
5,5			42,46	055	58,52	055	61,61	055				
5,6					78,71	056						
6,0			42,46	060	40,91	060	41,94	060	42,46	060	53,61	060
6,3					78,71	063						
6,5			42,46	065	58,52	065	61,61	065				
7,0			42,46	070	40,91	070	41,94	070	42,46	070	53,61	070
7,1					78,71	071						
7,5					58,52	075	61,61	075				
8,0					40,91	080	41,94	080	42,46	080	53,61	080
8,5					58,52	085	61,61	085				
9,0					40,91	090	41,94	090	42,46	090	53,61	090
9,5					58,52	095	61,61	095				
10,0					40,91	100	41,94	100	42,46	100	53,61	100
10,5							61,61	105				
11,0							41,94	110	42,46	110	53,61	110
11,5							61,61	115				
12,0							41,94	120	42,46	120	53,61	120
12,5							61,61	125				
13,0							41,94	130	42,46	130	53,61	130
13,5							61,61	135				
14,0							41,94	140	42,46	140	53,61	140
14,5							61,61	145				
15,0							41,94	150	42,46	150	53,61	150
15,5							61,61	155				
16,0							41,94	160	42,46	160	53,61	160
17,0									42,46	170	53,61	170
18,0									42,46	180	53,61	180
19,0									42,46	190	53,61	190
20,0									42,46	200	53,61	200
21,0											53,61	210
22,0											53,61	220
23,0											53,61	230
24,0											53,61	240
25,0											53,61	250
26,0											53,61	260
Set in wooden box					261,00	999	314,90	999	362,50	999		

1) Included in the set

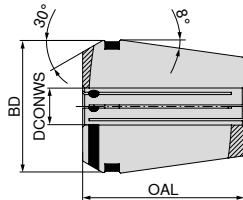


Clamping range covered: H10 corresponding to shank Ø DCONWS

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
- ▲ $p_{\max} = 120$ bar
- ▲ Coated precision collet

ER-A
2 μ m

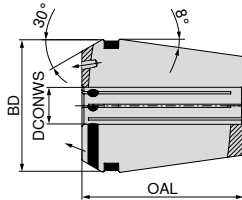


DCONWS mm	BD = 11,3 OAL = 18 425 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
3	60,06	030	54,88	030	63,17	030	65,26	030		
4	60,06	040	54,88	040	58,00	040	60,06	040		
5	65,26	050	60,06	050	63,17	050	65,26	050		
6	60,06	060	54,88	060	58,00	060	60,06	060	68,34	060
7			60,06	070	63,17	070	65,26	070		
8			54,88	080	58,00	080	60,06	080	68,34	080
9			60,06	090	63,17	090	65,26	090		
10			54,88	100	58,00	100	60,06	100	68,34	100
11					63,17	110	65,26	110		
12					58,00	120	60,06	120	68,34	120
13					63,17	130	65,26	130		
14					58,00	140	60,06	140	68,34	140
15					63,17	150	65,26	150		
16					58,00	160	60,06	160	68,34	160
17							65,26	170		
18							60,06	180	68,34	180
19							65,26	190		
20							60,06	200	68,34	200
22									75,60	220
25									68,34	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

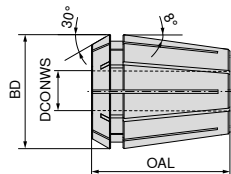
ER-A
2 µm



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 ...	
	EUR		EUR		EUR		EUR		EUR	
Y8	Y8		Y8		Y8		Y8		Y8	
3	90,26	03000	80,75	03000						
4	90,26	04000	80,75	040	85,94	040	89,07	040		
6	90,26	06000	80,75	060	85,94	060	89,07	060	102,50	06000
8			80,75	080	85,94	080	89,07	080	102,50	08000
10			80,75	10000	85,94	100	89,07	100	102,50	100
12					85,94	120	89,07	120	102,50	120
14					85,94	140	89,07	140		
16					85,94	16000	89,07	160	102,50	160
18							89,07	180		
20							89,07	200	102,50	200
25									102,50	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		EUR		EUR		EUR		EUR		EUR		EUR	
mm		Y8		Y8		Y8		Y8		Y8		Y8	
1,0		25,91	010	25,13	010	25,90	010 ¹⁾	27,28	010 ¹⁾				
1,5		25,91	015	25,13	015 ¹⁾	25,90	015 ¹⁾	27,28	015 ¹⁾				
2,0		25,91	020	25,13	020	25,90	020	27,28	020	28,84	020 ¹⁾		
2,5		25,91	025	25,13	025 ¹⁾	25,90	025 ¹⁾	27,28	025	28,84	025 ¹⁾		
3,0		21,01	030	19,83	030	20,51	030	21,01	030	22,38	030	38,83	030 ¹⁾
3,5		21,01	035										
4,0		21,01	040	19,83	040	20,51	040	21,01	040	22,38	040	28,87	040
4,5		21,01	045										
5,0		21,01	050	19,83	050	20,51	050	21,01	050	22,38	050	28,87	050
5,5		21,01	055										
6,0		21,01	060	19,83	060	20,51	060	21,01	060	22,38	060	28,87	060
6,5		21,01	065										
7,0		21,01	070	19,83	070	20,51	070	21,01	070	22,38	070	28,87	070
8,0				19,83	080	20,51	080	21,01	080	22,38	080	28,87	080
9,0				19,83	090	20,51	090	21,01	090	22,38	090	28,87	090
10,0				19,83	100	20,51	100	21,01	100	22,38	100	28,87	100
11,0						20,51	110	21,01	110	22,38	110	28,87	110
12,0						20,51	120	21,01	120	22,38	120	28,87	120
13,0						20,51	130	21,01	130	22,38	130	28,87	130
14,0								21,01	140	22,38	140	28,87	140
15,0								21,01	150	22,38	150	28,87	150
16,0								21,01	160	22,38	160	28,87	160
17,0										22,38	170	28,87	170
18,0										22,38	180	28,87	180
19,0										22,38	190	28,87	190
20,0										22,38	200	28,87	200
21,0												28,87	210
22,0												28,87	220
23,0												28,87	230
24,0												28,87	240
25,0												28,87	250
26,0												28,87	260
Set in wooden box		310,70	999	225,80	999	275,50	999	348,00	999	435,00	999	704,20	999

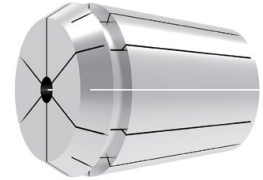
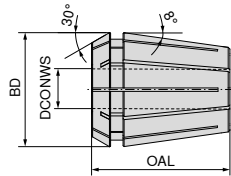
1) not included in the set



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

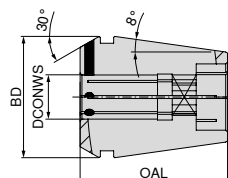
DCONWS mm	NEW		NEW		NEW		NEW	
	BD = 8,5 OAL = 13,6 4004 E / ER08		BD = 17 OAL = 27,5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32	
	82 666 ...		82 663 ...		82 664 ...		82 665 ...	
	EUR		EUR		EUR		EUR	
	Y8		Y8		Y8		Y8	
1,0	20,66	01000	16,42	01000				
1,5	20,66	01500						
2,0	20,66	02000	16,42	02000	17,18	02000		
2,5	20,66	02500						
3,0	20,66	03000	16,42	03000	17,18	03000	18,18	03000
3,5	20,66	03500						
4,0	20,66	04000	16,42	04000	17,18	04000	18,18	04000
4,5	20,66	04500						
5,0	20,66	05000	16,42	05000	17,18	05000	18,18	05000
6,0			16,42	06000	17,18	06000	18,18	06000
7,0			16,42	07000	17,18	07000	18,18	07000
8,0			16,42	08000	17,18	08000	18,18	08000
9,0			16,42	09000	17,18	09000	18,18	09000
10,0			16,42	10000	17,18	10000	18,18	10000
11,0					17,18	11000	18,18	11000
12,0					17,18	12000	18,18	12000
13,0					17,18	13000	18,18	13000
14,0					17,18	14000	18,18	14000
15,0					17,18	15000	18,18	15000
16,0					17,18	16000	18,18	16000
17,0							18,18	17000
18,0							18,18	18000
19,0							18,18	19000
20,0							18,18	20000
Set in wooden box	205,90	99900	181,80	99900	275,00	99900	347,90	99900



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

ER precision tap collet

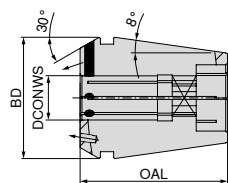
- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{\max} = 120$ bar
- ▲ Coated collet

ER-A
10 μm DCONWS
mm

DCONWS mm	BD = 16,7 OAL = 27,5 4031 E / ER16		BD = 25,7 OAL = 34 4282 E / ER25		BD = 32,7 OAL = 40 4537 E / ER32	
	EUR		EUR		EUR	
2,8	52,22	028				
3,5	44,55	035	48,89	035		
4,0	44,55	040	48,89	040	53,77	040
4,5	44,55	045	48,89	045	53,77	045
6,0	44,55	060	48,89	060	53,77	060
7,0	44,55	070	48,89	070	53,77	070
8,0	44,55	080	48,89	080	53,77	080
9,0	44,55	090	48,89	090	53,77	090
10,0			48,89	100	53,77	100
11,0			48,89	110	53,77	110
12,0			48,89	120	53,77	120
14,0			48,89	140	53,77	140
16,0			48,89	160	53,77	160
18,0					53,77	180
20,0					53,77	200

ER precision collet, sealed with coolant channels

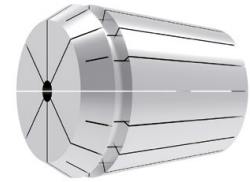
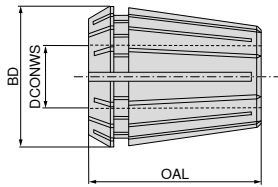
- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ Coated collet

ER-A
10 µm

DCONWS mm	BD = 16,7 OAL = 27,5 4537 E / ER16		BD = 25,7 OAL = 34 4537 E / ER25		BD = 32,7 OAL = 40 4537 E / ER32	
	EUR		EUR		EUR	
3,5	71,47	035				
4,5	71,47	045	78,70	045	84,91	045
6,0	71,47	060	78,70	060	84,91	060
7,0	71,47	070	78,70	070	84,91	070
8,0	71,47	080	78,70	080	84,91	080
9,0	71,47	09000	78,70	090	84,91	090
10,0			78,70	100	84,91	100
11,0			78,70	110	84,91	110
12,0			78,70	120	84,91	120
14,0			78,70	140	84,91	140
16,0			78,70	16000	84,91	160
18,0					84,91	180
20,0					84,91	200

ER precision collet

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

ER-B
20 µm

DCONWS mm	NEW		NEW		NEW		NEW		NEW	
	BD = 17 OAL = 27,5 426 E / ER16		BD = 21 OAL = 31,5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	82 673 ...		82 674 ...		82 675 ...		82 676 ...		82 677 ...	
	EUR		EUR		EUR		EUR		EUR	
Y8	Y8		Y8		Y8		Y8		Y8	
1	16,09	01000	16,63	01000 ¹⁾						
2	16,09	02000	16,63	02000	17,27	02000				
3	13,07	03000	12,09	03000	12,96	03000	13,94	03000	17,60	03000
4	13,07	04000	12,09	04000	12,96	04000	13,94	04000	17,60	04000
5	13,07	05000	12,09	05000	12,96	05000	13,94	05000	17,60	05000
6	13,07	06000	12,09	06000	12,96	06000	13,94	06000	17,60	06000
7	13,07	07000	12,09	07000	12,96	07000	13,94	07000	17,60	07000
8	13,07	08000	12,09	08000	12,96	08000	13,94	08000	17,60	08000
9	13,07	09000	12,09	09000	12,96	09000	13,94	09000	17,60	09000
10	13,07	10000	12,09	10000	12,96	10000	13,94	10000	17,60	10000
11			12,09	11000	12,96	11000	13,94	11000	17,60	11000
12			12,09	12000	12,96	12000	13,94	12000	17,60	12000
13			12,09	13000	12,96	13000	13,94	13000	17,60	13000
14					12,96	14000	13,94	14000	17,60	14000
15					12,96	15000	13,94	15000	17,60	15000
16					12,96	16000	13,94	16000	17,60	16000
17							13,94	17000	17,60	17000
18							13,94	18000	17,60	18000
19							13,94	19000	17,60	19000
20							13,94	20000	17,60	20000
21									17,60	21000
22									17,60	22000
23									17,60	23000
24									17,60	24000
25									17,60	25000
26									17,60	26000
Set in wooden box		144,80 99900	155,50 99900		204,20 99900		250,60 99900		423,40 99900	

1) not included in the set

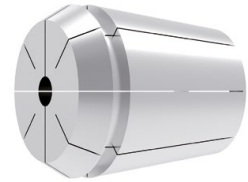
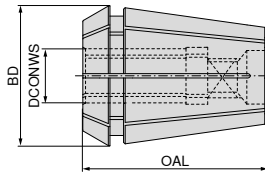


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER collet with internal square

- ▲ Similar DIN ISO 15488-A (old DIN 6499-A)
- ▲ 8 times slotted
- ▲ Double taper collets for holding taps on synchronised spindle machines, without compensating lengths

ER-A
15 µm



DCONWS mm	NEW		NEW		NEW	
	BD = 25,7 OAL = 34 430 E / ER25		BD = 32,7 OAL = 40 470 E / ER32		BD = 40,7 OAL = 46 472 E / ER40	
	82 650 ...		82 651 ...		82 652 ...	
	EUR		EUR		EUR	
	Y8		Y8		Y8	
4,5	34,24	04500	37,48	04500		
5,5	34,24	05500	37,48	05500		
6,0	34,24	06000	37,48	06000		
7,0	34,24	07000	37,48	07000	44,83	07000
8,0	34,24	08000	37,48	08000	44,83	08000
9,0	34,24	09000	37,48	09000	44,83	09000
10,0	34,24	10000	37,48	10000	44,83	10000
11,0	34,24	11000	37,48	11000	44,83	11000
12,0	34,24	12000	37,48	12000	44,83	12000
14,0			37,48	14000	44,83	14000
16,0			37,48	16000	44,83	16000
18,0					44,83	18000
20,0					44,83	20000

Wooden boxes for collets

- ▲ For collets form A+B

Scope of supply:

empty wooden box

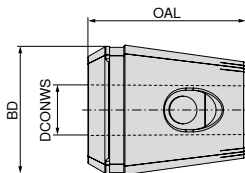


		83 689 ...	
for collet	Piece	EUR	
		Y8	
4004E (ER08)	9	14,90	008
4008E (ER11)	13	14,90	011
426E (ER16)	10	21,39	116
428E (ER20)	11	23,76	020
430E (ER25)	14	26,68	025
470E (ER32)	18	26,68	032
472E (ER40)	24	33,59	040

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



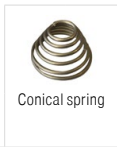
BD = 32,7
OAL = 40
ER 32

83 629 ...

EUR
Y8

94,32 120
94,32 160

DCONWS
mm
12
16



Conical spring

83 950 ...

EUR
Y8

4,75 455
4,75 455

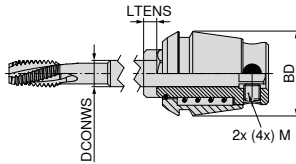
Spare parts
DCONWS
12
16

CP 32	4,75	455
CP 32	4,75	455

Tapping Collet Form ET (ER) with length compensation

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

ER
10 µm



DCONWS mm	BD = 17 LTENS = 7 426 E / ER16		BD = 21 LTENS = 7 428 E / ER20		BD = 26 LTENS = 8 430 E / ER25		BD = 33 LTENS = 10 470 E / ER32		BD = 41 LTENS = 13 472 E / ER40	
	80 661 ...		80 662 ...		80 663 ...		80 664 ...		80 665 ...	
	EUR Y7		EUR Y7		EUR Y7		EUR Y7		EUR Y7	
2,2	90,10	022	90,10	022						
2,5	90,10	025	90,10	025	94,22	025				
2,8	90,10	028	90,10	028	94,22	028				
3,0	90,10	030	90,10	030	94,22	030				
3,5	90,10	035	90,10	035	94,22	035				
4,0	90,10	040	90,10	040	94,22	040				
4,5	90,10	045	90,10	045	94,22	045	100,40	045		
5,0							100,40	050		
5,5	90,10	055	90,10	055	94,22	055	100,40	055		
6,0	90,10	060	90,10	060	94,22	060	100,40	060	116,00	060
7,0			90,10	070	94,22	070	100,40	070	116,00	070
8,0					94,22	080	100,40	080	116,00	080
9,0					94,22	090	100,40	090	116,00	090
10,0					94,22	100	100,40	100	116,00	100
11,0							100,40	110	116,00	110
12,0							100,40	120	116,00	120
14,0									116,00	140
16,0									116,00	160

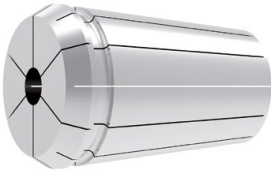
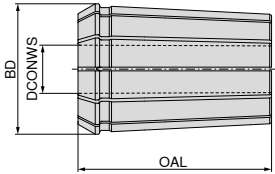


When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

OZ Precision collet for precision collet chuck – Centro-P

- ▲ DIN ISO 10897-B (old DIN 6388-B)
- ▲ $\varnothing = 10\text{ mm}$ 10 slots, $\varnothing > 10\text{ mm}$ 12 slots
- ▲ Double angle collets

OZ-B
3 μm



BD = 35,05
OAL = 52
462 E / OZ

83 660 ...

DCONWS

mm

3
4
6
8
10
12
14
16
18
20
25

EUR
Y8

51,80 030
51,80 040
51,80 060
51,80 080
51,80 100
51,80 120
51,80 140
51,80 160
51,80 180
51,80 200
51,80 250

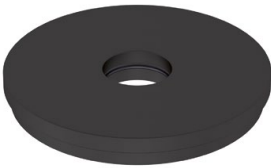
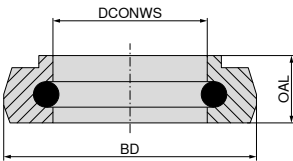


Clamping range covered: H10 corresponding to shank $\varnothing$ DCONWS

Sealing ring for OZ Collet Chuck 462E – Centro-P

- ▲ For use for sealing tools with through coolant
- ▲ Seal diameter: Nominal diameter – 0.5 mm
- ▲ use up to 150 bar

OZ-B
5 μm



BD = 31
OAL = 4
462E

83 675 ...

DCONWS

mm

4
5
6
8
10
12
14
16
18
20
22
25

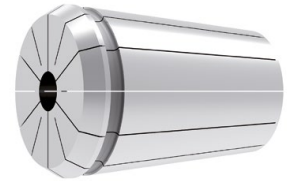
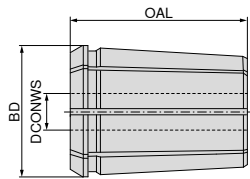
EUR
Y8

20,91 040
20,91 050
20,91 060
20,91 080
20,91 100
20,91 120
20,91 140
20,91 160
20,91 180
20,91 200
20,91 220
20,91 250

OZ-collets

▲ DIN ISO 10897-B (old DIN 6388-B)

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



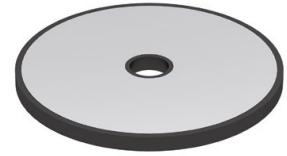
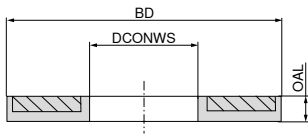
DCONWS mm	OZ-B 6 µm		OZ-B 6 µm		OZ-B 10 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm		NEW OZ-B 20 µm	
	BD = 25,5 OAL = 40 415 E / OZ		BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ		BD = 25,5 OAL = 40 415 E / OZ		BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ	
	83 651 ...		83 652 ...		83 653 ...		82 653 ...		82 654 ...		82 655 ...	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
2,0							23,23	02000	26,46	02000		
2,5							23,23	02500	26,46	02500		
3,0	23,20	030					18,58	03000	22,25	03000		
3,5							18,58	03500	22,25	03500		
4,0	23,20	040	27,30	040			18,58	04000	22,25	04000	34,77	04000
4,5							18,58	04500	22,25	04500	34,77	04500
5,0	23,20	050	27,30	050			18,58	05000	22,25	05000	34,77	05000
5,5							18,58	05500	22,25	05500	34,77	05500
6,0	23,20	060	27,30	060			18,58	06000	22,25	06000	34,77	06000
6,5							18,58	06500	22,25	06500	34,77	06500
7,0							18,58	07000	22,25	07000	34,77	07000
7,5							18,58	07500	22,25	07500	34,77	07500
8,0	23,20	080	27,30	080			18,58	08000	22,25	08000	34,77	08000
8,5							18,58	08500	22,25	08500	34,77	08500
9,0							18,58	09000	22,25	09000	34,77	09000
9,5							18,58	09500	22,25	09500	34,77	09500
10,0	23,20	100	27,30	100	35,32	100	18,58	10000	22,25	10000	34,77	10000
10,5							18,58	10500	22,25	10500	34,77	10500
11,0							18,58	11000	22,25	11000	34,77	11000
11,5							18,58	11500	22,25	11500	34,77	11500
12,0	23,20	120	27,30	120	35,32	120	18,58	12000	22,25	12000	34,77	12000
12,5							18,58	12500	22,25	12500	34,77	12500
13,0							18,58	13000	22,25	13000	34,77	13000
13,5							18,58	13500	22,25	13500	34,77	13500
14,0			27,30	140	35,32	140	18,58	14000	22,25	14000	34,77	14000
14,5							18,58	14500	22,25	14500	34,77	14500
15,0							18,58	15000	22,25	15000	34,77	15000
15,5							18,58	15500	22,25	15500	34,77	15500
16,0	23,20	160	27,30	160	35,32	160	18,58	16000	22,25	16000	34,77	16000
16,5									22,25	16500	34,77	16500
17,0									22,25	17000	34,77	17000
17,5									22,25	17500	34,77	17500
18,0			27,30	180	35,32	180			22,25	18000	34,77	18000
18,5									22,25	18500	34,77	18500
19,0									22,25	19000	34,77	19000
19,5									22,25	19500	34,77	19500
20,0			27,30	200	35,32	200			22,25	20000	34,77	20000
20,5									22,25	20500	34,77	20500
21,0									22,25	21000	34,77	21000
21,5									22,25	21500	34,77	21500
22,0									22,25	22000	34,77	22000
22,5									22,25	22500	34,77	22500
23,0									22,25	23000	34,77	23000
23,5									22,25	23500	34,77	23500
24,0									22,25	24000	34,77	24000
24,5									22,25	24500	34,77	24500
25,0			27,30	250	35,32	250			22,25	25000	34,77	25000
25,5											34,77	25500
26,0											34,77	26000
26,5											34,77	26500
27,0											34,77	27000
27,5											34,77	27500
28,0											34,77	28000
28,5											34,77	28500
29,0											34,77	29000
29,5											34,77	29500
30,0					35,32	300					34,77	30000
30,5											34,77	30500
31,0											34,77	31000
31,5											34,77	31500
32,0					35,32	320					34,77	32000



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

Sealing discs for precision collet chucks – Centro-P

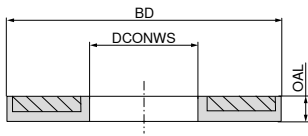
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



DCONWS mm	BD = 12,6 OAL = 2 426E (ER16)		BD = 15,8 OAL = 2 428E (ER20)		BD = 20,2 OAL = 2 430E (ER25)		BD = 26,2 OAL = 2 444E / OZ (ER32)		BD = 34,2 OAL = 2 472E (ER40)	
	EUR		EUR		EUR		EUR		EUR	
	Y8		Y8		Y8		Y8		Y8	
1,0	18,86	010								
1,5	18,86	015								
2,0	18,86	020	19,57	020	18,86	020	19,57	020		
2,5	18,86	025	19,57	025	18,86	025	19,57	025		
3,0	15,43	030	16,06	030	15,43	030	16,06	030	19,57	030
3,5	15,43	035	16,06	035	15,43	035	16,06	035	19,57	035
4,0	15,43	040	16,06	040	15,43	040	16,06	040	19,57	040
4,5	15,43	045	16,06	045	15,43	045	16,06	045	19,57	045
5,0	15,43	050	16,06	050	15,43	050	16,06	050	19,57	050
5,5	15,43	055	16,06	055	15,43	055	16,06	055	19,57	055
6,0	15,43	060	16,06	060	15,43	060	16,06	060	19,57	060
6,5	15,43	065	16,06	065	15,43	065	16,06	065	19,57	065
7,0	15,43	070	16,06	070	15,43	070	16,06	070	19,57	070
7,5	15,43	075	16,06	075	15,43	075	16,06	075	19,57	075
8,0	15,43	080	16,06	080	15,43	080	16,06	080	19,57	080
8,5	15,43	085	16,06	085	15,43	085	16,06	085	19,57	085
9,0	15,43	090	16,06	090	15,43	090	16,06	090	19,57	090
9,5	15,43	095	16,06	095	15,43	095	16,06	095	19,57	095
10,0	15,43	100	16,06	100	15,43	100	16,06	100	19,57	100
10,5			16,06	105	15,43	105	16,06	105	19,57	105
11,0			16,06	110	15,43	110	16,06	110	19,57	110
11,5			16,06	115	15,43	115	16,06	115	19,57	115
12,0			16,06	120	15,43	120	16,06	120	19,57	120
12,5			16,06	125	15,43	125	16,06	125	19,57	125
13,0			16,06	130	15,43	130	16,06	130	19,57	130
13,5					15,43	135	16,06	135	19,57	135
14,0					15,43	140	16,06	140	19,57	140
14,5					15,43	145	16,06	145	19,57	145
15,0					15,43	150	16,06	150	19,57	150
15,5					15,43	155	16,06	155	19,57	155
16,0					15,43	160	16,06	160	19,57	160
16,5							16,06	165	19,57	165
17,0							16,06	170	19,57	170
17,5							16,06	175	19,57	175
18,0							16,06	180	19,57	180
18,5							16,06	185	19,57	185
19,0							16,06	190	19,57	190
19,5							16,06	195	19,57	195
20,0							16,06	200	19,57	200
20,5									19,57	205
21,0									19,57	210
21,5									19,57	215
22,0									19,57	220
22,5									19,57	225
23,0									19,57	230
23,5									19,57	235
24,0									19,57	240
24,5									19,57	245
25,0									19,57	250
25,5									19,57	255
26,0									19,57	260

Sealing rings for precision collet chucks – PCC

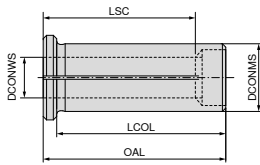
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	NEW		NEW		NEW	
	BD = 13 OAL = 4 426E (ER16)		BD = 21 OAL = 4 430E (ER25)		BD = 27 OAL = 4 470E (ER32)	
	82 630 ...		82 631 ...		82 632 ...	
	EUR		EUR		EUR	
Y8			Y8		Y8	
3,0	17,45	03000	17,45	03000	17,45	03000
3,5	17,45	03500	17,45	03500	17,45	03500
4,0	17,45	04000	17,45	04000	17,45	04000
4,5	17,45	04500	17,45	04500	17,45	04500
5,0	17,45	05000	17,45	05000	17,45	05000
5,5	17,45	05500	17,45	05500	17,45	05500
6,0	17,45	06000	17,45	06000	17,45	06000
6,5	17,45	06500	17,45	06500	17,45	06500
7,0	17,45	07000	17,45	07000	17,45	07000
7,5	17,45	07500	17,45	07500	17,45	07500
8,0	17,45	08000	17,45	08000	17,45	08000
8,5	17,45	08500	17,45	08500	17,45	08500
9,0	17,45	09000	17,45	09000	17,45	09000
9,5	17,45	09500	17,45	09500	17,45	09500
10,0	17,45	10000	17,45	10000	17,45	10000
10,5			17,45	10500	17,45	10500
11,0			17,45	11000	17,45	11000
11,5			17,45	11500	17,45	11500
12,0			17,45	12000	17,45	12000
12,5			17,45	12500	17,45	12500
13,0			17,45	13000	17,45	13000
13,5			17,45	13500	17,45	13500
14,0			17,45	14000	17,45	14000
14,5			17,45	14500	17,45	14500
15,0			17,45	15000	17,45	15000
15,5			17,45	15500	17,45	15500
16,0			17,45	16000	17,45	16000
16,5					17,45	16500
17,0					17,45	17000
17,5					17,45	17500
18,0					17,45	18000
18,5					17,45	18500
19,0					17,45	19000
19,5					17,45	19500
20,0					17,45	20000

Reducing sleeves for hydraulic and high pressure chucks

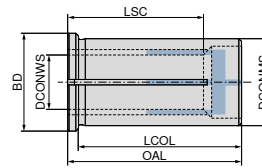
▲ Thro' coolant to 80 bar



83 609 ...					
DCONMS	DCONWS	OAL	LCOL	LSC	EUR
mm	mm	mm	mm	mm	Y8
12	3	40	36	29	110,10 103
12	4	40	36	29	110,10 104
12	5	40	36	29	110,10 105
12	6	40	36	36	110,10 106
12	8	40	36	37	110,10 108
20	3	54	50	28	102,70 203
20	4	54	50	28	102,70 204
20	5	54	50	28	102,70 205
20	6	54	50	36	80,13 206
20	8	54	50	37	80,13 208
20	10	54	50	40	80,13 210
20	12	54	50	45	80,13 212
20	14	54	50	45	80,13 214
20	16	54	50	48	80,13 216
25	6	60	56	37	97,10 256
25	8	60	56	37	97,10 258
25	10	60	56	40	97,10 260
25	12	60	56	46	97,10 262
25	14	60	56	47	97,10 264
25	16	60	56	48	97,10 266
25	18	60	56	48	97,10 268
25	20	60	56	50	97,10 270
32	6	64	60	36	102,70 306
32	8	64	60	36	102,70 308
32	10	64	60	40	102,70 310
32	12	64	60	45	102,70 312
32	14	64	60	46	102,70 314
32	16	64	60	48	102,70 316
32	18	64	60	49	102,70 318
32	20	64	60	50	102,70 320
32	25	64	60	56	102,70 325

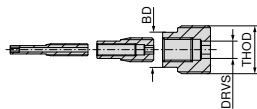
Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



83 611 ...					
DCONMS	DCONWS	BD	OAL	LCOL	LSC
mm	mm	mm	mm	mm	mm
12	3	16	44	40	29
12	4	16	44	40	29
12	5	16	44	40	29
12	6	16	44	40	36
12	8	16	44	40	37
20	3	25	54	50	28
20	4	25	54	50	28
20	5	25	54	50	28
20	6	25	54	50	36
20	8	25	54	50	37
20	10	25	54	50	40
20	12	25	54	50	45
20	14	25	54	50	45
20	16	25	54	50	48
32	6	36	64	60	36
32	8	36	64	60	36
32	10	36	64	60	40
32	12	36	64	60	45
32	14	36	64	60	46
32	16	36	64	60	48
32	18	36	64	60	49
32	20	36	64	60	50
32	25	36	64	60	56

Stop screw for use with reducing sleeves in hydraulic chuck



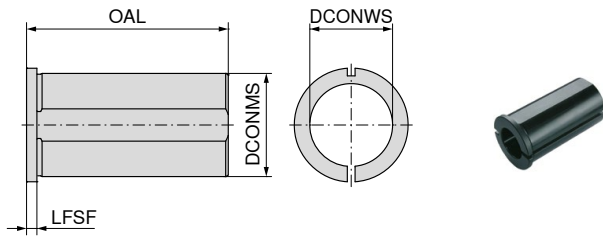
83 950 ...			
THOD	BD	DRVS	EUR
	mm	mm	Y7
M4x0,5x26	2,8	2	8,52 425
M8x1x19	5,8	2,5	8,52 428
M10x1x16	5,8	3	8,52 426
M16x1x16	11,7	5	8,52 427

Adaptation for the use of stop screws for reducing sleeves

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

Slotted reduction sleeves

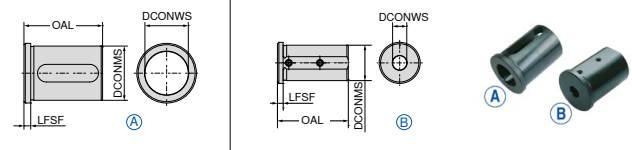
- ▲ For cylindrical and other tool holders
- ▲ For tools with cylindrical shank



83 271 ...				
DCONMS	DCONWS	OAL	LFSF	EUR
mm	mm	mm	mm	Y8
20	6	30	4	58,33
20	8	30	4	45,68
20	10	30	4	45,68
20	12	30	4	45,68
20	15	30	4	45,68
20	16	30	4	45,68
25	6	40	4	62,86
25	8	40	4	48,93
25	10	40	4	48,93
25	12	40	4	48,93
25	15	40	4	64,05
25	16	40	4	48,93
25	20	40	4	48,93
32	6	50	4	64,36
32	8	50	4	48,93
32	10	50	4	48,93
32	12	50	4	48,93
32	15	50	4	48,93
32	16	50	4	48,93
32	20	50	4	48,93
40	10	78	4	59,08
40	12	78	4	59,08
40	15	78	4	59,08
40	16	78	4	59,08
40	20	78	4	59,08
40	25	78	4	59,08
40	32	78	4	59,08
50	20	88	4	79,27
50	25	88	4	79,27
50	32	88	4	79,27
50	40	88	4	79,27

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



83 272 ...					
DCONMS	DCONWS	OAL	LFSF	Fig.	EUR
mm	mm	mm	mm		Y8
25	6	50	4	B	65,78
25	8	50	4	B	50,97
25	10	50	4	B	50,97
25	12	50	4	B	50,97
25	14	50	4	A	65,78
25	16	50	4	A	50,97
25	20	50	4	A	50,97
32	6	58	5	B	67,94
32	8	58	5	B	67,94
32	10	58	5	B	52,60
32	12	58	5	B	52,60
32	16	58	5	A	52,60
32	20	58	5	A	52,60
32	25	58	5	A	52,60
40	8	58	5	B	82,51
40	10	58	5	B	67,94
40	12	58	5	B	73,44
40	16	58	5	A	73,44
40	20	58	5	A	73,44
40	25	58	5	A	73,44
40	32	58	5	A	73,44
50	12	75	5	B	76,47
50	16	75	5	A	76,47
50	20	75	5	A	76,47
50	25	75	5	A	76,47
50	32	75	5	A	76,47
50	40	75	5	A	76,47

Taper wiper

▲ Version made from hard wood with suede inserts



83 715 ...		
Adapter	EUR Y8	
MK 1	6,07	001
MK 2	6,28	002
MK 3	8,38	003
MK 4	9,24	004
MK 5	13,61	005
HSK 100	85,01	100
HSK 32	44,50	320
HSK 40	47,19	400
HSK 50	47,95	500
HSK 63	56,05	630
HSK 80	72,36	800
SK 30	10,12	130
SK 40	11,12	140
SK 50	13,28	150

Assembly device for ISO adaptors

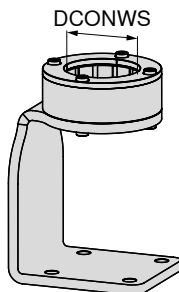
▲ Aluminium



80 720 ...		
Adapter	EUR Y7	
SK 30	103,50	030
SK 40	103,50	040
SK 50	172,70	050

Assembly fixture for tool holders

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

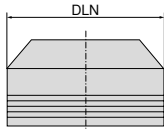


80 722 ...		
Holder Type	DCONWS mm	EUR Y7
HSK 32, PSC 32	32,0	160,60 032
HSK 40, PSC 40	40,0	160,60 040
MAS-BT 30	46,0	132,70 046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50,0	132,70 050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63,0	137,80 063
ISO 7388-1 - SK 50	97,5	256,80 097
HSK 100, MAS-BT 50, ANSI-CAT 50	100,0	256,80 100



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

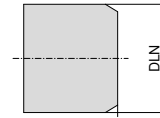
ER Standard lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
426E (ER16)	1 - 10	30	80	28,99	001	36,25	011
430E (ER25)	2 - 16	40	90	32,09	003	39,37	013
470E (ER32)	2 - 20	50	180	34,14	005	41,44	015
472E (ER40)	3 - 26	63	200	46,61	007	55,93	017

Mini lock nut for precision collet chuck – Centro-P



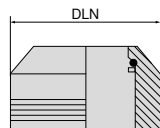
for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
4004E (ER08)	1 - 5	10	5 - 8	39,34	040		
4008E (ER11)	1 - 7	16	10	34,14	041		
4008E (ER11)	Ø 3,0	16	10	65,25	042 ¹⁾		
4008E (ER11)	Ø 4,0	16	10	65,25	043 ¹⁾		
4008E (ER11)	Ø 5,0	16	10	65,25	044 ¹⁾		
4008E (ER11)	Ø 6,0	16	10	65,25	045 ¹⁾		
4008E (ER11)	Ø 7,0	16	10	65,25	046 ¹⁾		
426E (ER16)	1 - 10	22	30	34,14	034		
426E (ER16)	1 - 10	22	28			42,46	035

1) directly sealed

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

▲ can be used without sealing ring



for seals

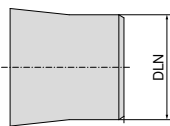
for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
462E (OZ)	2 - 25	50	200	36,25	009		
462E (OZ)	2 - 25	50	140			43,49	020

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



for collet	84 950 ...	
	EUR Y8	
4004E (ER08)	20,34	070
4008E (ER11)	28,48	072

Tapered lock nut for precision collet chuck – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				EUR Y8		EUR Y8	
426E (ER16)	1 - 10	24	80	34,14	031	42,47	033

Roll key

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



		84 950 ...	
for lock nut	DLN mm	EUR Y8	
4004E / ER08 CP mini	10	88,02	050
4008E / ER 11 CP mini / mini	16	62,13	080
426E / ER 16 CP / ER 16 mini	22	61,96	026
426E / ER 16 CP / CP mini	24	62,13	082
426E / ER 16 CP	30	61,96	027
426E / ER 16 STD	32	61,96	028
428E / ER 20 STD	35	61,96	029
430E / ER 25 CP	40	62,13	054
430E / ER 25 STD	42	62,13	055
470E / ER 32 CP + STD / OZ 462E CP	50	62,13	056
470E / ER 32 HDC	53	79,31	30200
472E / ER 40 CP + STD	63	68,35	057

1) Special key for mini lock nuts

2) Key for tapered lock nuts / Special key for mini lock nuts

Torque key



		84 435 ...	
TQX Nm	Square mm	EUR Y8	
5 - 30	9 x 12	150,30	030
10 - 80	9 x 12	176,70	080
20 - 200	14 x 18	179,70	200

Additional roll key device for torque key

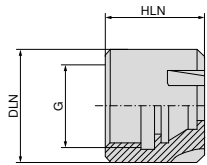
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



				84 950 ...	
for lock nut	DLN mm	TQX Nm	Square mm	EUR Y8	
4008E / ER 11 CP	16	5 - 30	9 x 12	62,13	060
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	61,96	170
426E / ER 16 CP	24	10 - 80	9 x 12	62,13	061
426E / ER 16 CP	30	20 - 200	14 x 18	61,96	171
426E / ER 16 STD	32	20 - 200	14 x 18	61,96	172
426E / ER 20 STD	35	20 - 200	14 x 18	61,96	173
430E / ER 25 CP	40	20 - 200	14 x 18	62,13	065
430E / ER 25 STD	42	20 - 200	14 x 18	62,13	066
470E / ER 32 CP + STD / OZ 462E CP	50	20 - 200	14 x 18	62,13	067
470E / ER 32 HDC	53	20 - 200	14 x 18	79,31	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	68,35	068

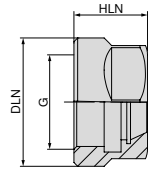
1) for mini and tapered lock nuts

Mini ER lock nut



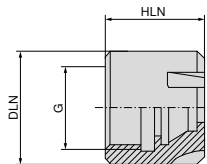
62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	EUR W7
4004E (ER08)	M10x0,75	12	11.0	8	25,81 067
4008E (ER11)	M13x0,75	16	12.0	18	25,16 065
426E (ER16)	M19x1	22	18.0	28	24,62 066
428E (ER20)	M24x1	28	19.5	35	27,76 068
430E (ER25)	M30x1	35	21.0	40	30,34 069

ER Lock nut



62 950 ...					
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	EUR W7
426E (ER16)	M22x1,5	25	28	18.0	18,35 044
428E (ER20)	M25x1,5	30	34	19.5	19,44 045

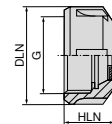
Mini ER lock nut for sealing rings



83 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	EUR Y8
426E (ER16-DS)	M19x1	22	22.0	28	37,54 058
428E (ER20-DS)	M24x1	28	23.2	35	40,04 059
430E (ER25-DS)	M30x1	35	24.7	40	41,78 060

for seals

ER Lock nut

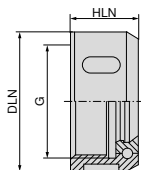


for seals

62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	EUR W7	
426E (ER16)	M22x1,5	32	17.0	18,35	054
426E (ER16)	M22x1,5	32	22.0		31,54 054
428E (ER20)	M25x1,5	35	23.2		33,69 053
430E (ER25)	M32x1,5	42	20.0	20,52	055
430E (ER25)	M32x1,5	42	24.7		35,76 055
470E (ER32)	M40x1,5	50	22.3	19,12	056
470E (ER32)	M40x1,5	50	27.0		38,06 056
472E (ER40)	M50x1,5	63	25.3	18,58	057
472E (ER40)	M50x1,5	63	30.7		44,88 057

OZ lock nut Form B + C

▲ with ball bearings



62 950 ...					
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	EUR W7
415E / 421E (OZ)	M33x1,5	43	24.0	85	32,51 050
459E / 462E (OZ)	M48x2	60	30.0	140	35,75 051
460E / 467E (OZ)	M60x2,5	72	33.5	170	44,71 052

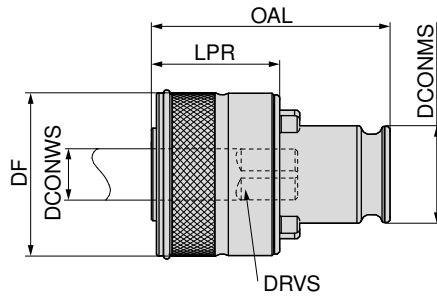
Y clamping key



83 357 ...		
for lock nut	EUR Y8	
ER 16	16,52	116
ER 20	17,05	12000
ER 25	18,25	125
ER 32	24,84	132
ER 40	27,33	140

Quick change tap adapter with overload clutch

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



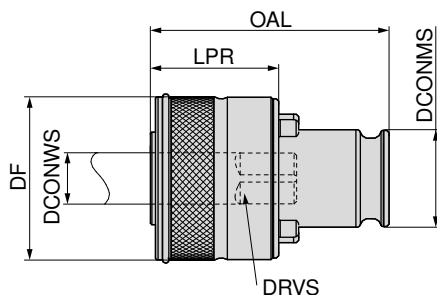
83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	EUR Y8	
01	2,8	2,1	M2		33	19	46,5	25	52,82	100
01	2,8	2,1	M2,5		33	19	46,5	25	52,82	101
01	3,5	2,7	M3		33	19	46,5	25	52,82	102
01	4,0	3,0	M3,5		33	19	46,5	25	52,82	103
01	4,5	3,4	M4		33	19	46,5	25	52,82	104
01	6,0	4,9	M4,5		33	19	46,5	25	52,82	105
01	6,0	4,9	M5		33	19	46,5	25	52,82	106
01	4,5	3,4		M6	33	19	46,5	25	52,82	107
01	6,0	4,9	M6		33	19	46,5	25	52,82	108
01	5,5	4,3		M7	33	19	46,5	25	52,82	109
01	7,0	5,5	M7		33	19	46,5	25	52,82	110
01	6,0	4,9		M8	33	19	46,5	25	52,82	111
01	8,0	6,2	M8		33	19	46,5	25	52,82	112
01	9,0	7,0	M9		33	19	46,5	25	52,82	113
01	7,0	5,5		M10	33	19	46,5	25	52,82	114
01	10,0	8,0	M10		33	19	46,5	25	52,82	115
01	8,0	6,2		M11	33	19	46,5	25	52,82	116
01	9,0	7,0		M12	33	19	46,5	25	52,82	117
02	6,0	4,9	M4,5 - M6		50	31	69,0	34	68,69	200
02	6,0	4,9	M7 (DIN 352)		50	31	69,0	34	68,69	201
02	7,0	5,5	M7		50	31	69,0	34	68,69	202
02	6,0	4,9		M8	50	31	69,0	34	68,69	203
02	8,0	6,2	M8		50	31	69,0	34	68,69	204
02	9,0	7,0	M9		50	31	69,0	34	68,69	205
02	7,0	5,5		M10	50	31	69,0	34	68,69	206
02	10,0	8,0	M10		50	31	69,0	34	68,69	207
02	8,0	6,2		M11	50	31	69,0	34	68,69	208
02	9,0	7,0		M12	50	31	69,0	34	68,69	209
02	11,0	9,0		M14	50	31	69,0	34	68,69	210
02	12,0	9,0		M16	50	31	69,0	34	68,69	211
02	14,0	11,0		M18	50	31	69,0	34	68,69	212
02	16,0	12,0		M20	50	31	69,0	34	68,69	213

Quick change tap adapter with overload clutch, with through coolant

▲ Adapter with adjustable overload clutch

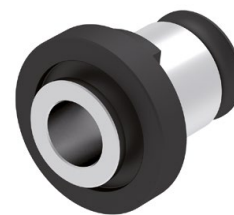
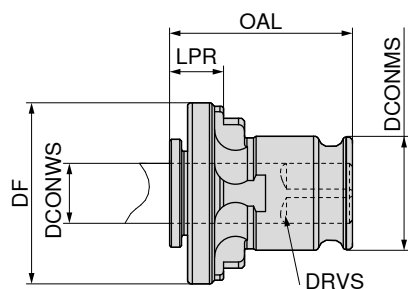
▲ for use with taps



									83 616 ...	
SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	EUR	
	mm	mm			mm	mm	mm	mm	Y8	
01	3,5	2,7	M3	M4,5 - M5	33	19	46,5	25	91,14	100
01	4,5	3,4	M4	M6	33	19	46,5	25	91,14	102
01	5,5	4,3		M7	33	19	46,5	25	91,14	104
01	6,0	4,9	M4,5 - M6	M8	33	19	46,5	25	91,14	106
01	7,0	5,5	M7	M10	33	19	46,5	25	91,14	108
01	8,0	6,2	M8	M11	33	19	46,5	25	91,14	110
01	9,0	7,0	M9	M12	33	19	46,5	25	91,14	112
01	10,0	8,0	M10		33	19	46,5	25	91,14	114
01	11,0	9,0		M14	33	19	46,5	25	91,14	116
02	6,0	4,9	M4,5 - M6	M8	50	31	69,0	34	110,10	200
02	7,0	5,5	M7	M10	50	31	69,0	34	110,10	202
02	8,0	6,2	M8	M11	50	31	69,0	34	110,10	204
02	9,0	7,0	M9	M12	50	31	69,0	34	110,10	206
02	10,0	8,0	M10		50	31	69,0	34	110,10	208
02	11,0	9,0		M14	50	31	69,0	34	110,10	210
02	12,0	9,0	M12	M16	50	31	69,0	34	110,10	212
02	14,0	11,0		M18	50	31	69,0	34	110,10	214
02	16,0	12,0		M20	50	31	69,0	34	110,10	216

Quick change tap adapter

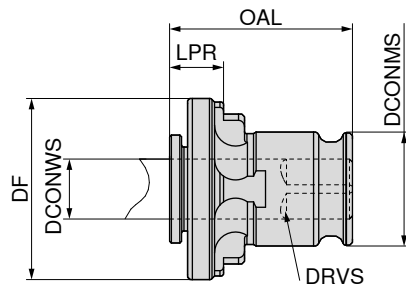
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



									83 610 ...	
SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	EUR	
	mm	mm			mm	mm	mm	mm	Y8	
01	3,5	2,7	M3		30	19	28,5	7	21,17	100
01	4,5	3,4	M4		30	19	28,5	7	21,17	101
01	4,0	3,0	M3,5		30	19	28,5	7	21,17	102
01	2,8	2,1	M2 - M2,6		30	19	28,5	7	21,17	103
01	5,5	4,3		M7	30	19	28,5	7	21,17	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	21,17	105
01	7,0	5,5	M7	M10	30	19	28,5	7	21,17	106
01	8,0	6,2	M8	M11	30	19	28,5	7	21,17	107
01	9,0	7,0	M9	M12	30	19	28,5	7	21,17	108
01	10,0	8,0	M10		30	19	28,5	7	21,17	109
01	11,0	9,0		M14	30	19	28,5	7	21,17	110
02	6,0	4,9	M4,5 - M6		46	31	46,0	11	29,26	200
02	7,0	5,5	M7		46	31	46,0	11	29,26	201
02	8,0	6,2	M8		46	31	46,0	11	29,26	202
02	9,0	7,0	M9		46	31	46,0	11	29,26	203
02	10,0	8,0	M10		46	31	46,0	11	29,26	204
02	11,0	9,0		M14	46	31	46,0	11	29,26	205
02	12,0	9,0		M16	46	31	46,0	11	29,26	206
02	14,0	11,0		M18	46	31	46,0	11	29,26	207
02	16,0	12,0		M20	46	31	46,0	11	29,26	208
02	18,0	14,5		M22 - M24	46	31	46,0	11	29,26	209

Quick change tap adapter, with through coolant

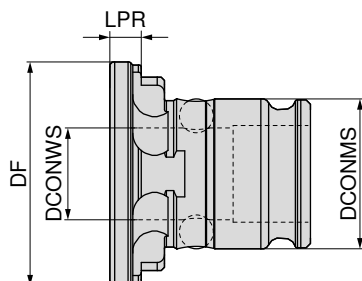
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



									83 614 ...	
SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	EUR Y8	
01	3,5	2,7		M4,5 - M5	30	19	28,5	7	41,04	100
01	4,5	3,4	M4	M6	30	19	28,5	7	41,04	102
01	5,5	4,3		M7	30	19	28,5	7	41,04	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	41,04	106
01	7,0	5,5		M7	30	19	28,5	7	41,04	108
01	8,0	6,2	M8	M11	30	19	28,5	7	41,04	110
01	9,0	7,0	M9	M12	30	19	28,5	7	41,04	112
01	10,0	8,0	M10		30	19	28,5	7	41,04	114
02	6,0	4,9	M4,5 - M6	M8	46	31	46,0	11	54,21	200
02	7,0	5,5	M7	M10	46	31	46,0	11	54,21	202
02	8,0	6,2	M8	M11	46	31	46,0	11	54,21	204
02	9,0	7,0	M9	M12	46	31	46,0	11	54,21	206
02	10,0	8,0	M10		46	31	46,0	11	54,21	208
02	11,0	9,0		M14	46	31	46,0	11	54,21	210
02	12,0	9,0	M12	M16	46	31	46,0	11	54,21	212
02	14,0	11,0		M18	46	31	46,0	11	54,21	214
02	16,0	12,0		M20	46	31	46,0	11	54,21	216

Reducing adapter for quick change adapters

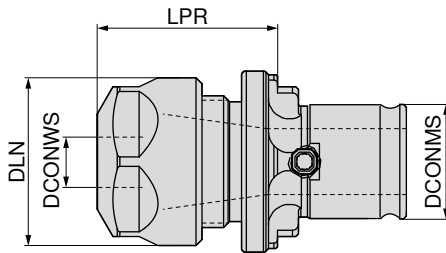
- ▲ Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.



						83 624 ...	
SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm		EUR Y8	
02	46	31	19	8,5		69,98	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



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

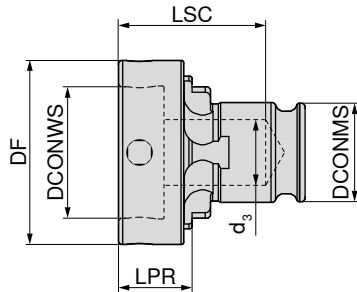
83 618 ...

EUR
Y8

88,56 010
125,30 016

Quick change adapter for dies

▲ For mounting dies according to DIN 223



SZID	for size	cutting range	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
01	16 x 5	M1 - M4	25	19	16	9	12,5	23
01	20 x 5	M3 - M4	30	19	20	9	12,5	23
01	20 x 7	M4,5 - M6	30	19	20	11	12,5	25
01	25 x 9	M7 - M9	35	19	25	14	12,5	28
01	30 x 11	M10 - M11	40	19	30	16	12,5	30
01	38 x 10	M12x1 - M15x1,5	48	19	38	15	14,2	29
01	38 x 14	M12 - M14	48	19	38	19	14,2	33
02	20 x 5	M3 - M4	30	31	20	22	15,0	57
02	20 x 7	M4,5 - M6	30	31	20	22	15,0	57
02	25 x 9	M7 - M9	35	31	35	22	15,0	57
02	30 x 11	M10 - M11	40	31	30	22	22,0	57
02	38 x 10	M12x1 - M15x1,5	48	31	38	22	22,0	57
02	38 x 14	M12 - M14	48	31	38	25	22,0	60
02	45 x 14	M16x1 - M20x2	57	31	45	29	22,0	64
02	45 x 14	M16 - M20	57	31	45	29	22,0	64

83 622 ...

EUR
Y8

97,85 116
97,85 120
97,85 121
97,85 125
97,85 130
97,85 138
97,85 139

137,20 220
137,20 221
137,20 225
137,20 230
137,20 238
137,20 239
137,20 245
137,20 246

MultiChange – Spanner



DRVS mm	TQX Nm	84 357 ... EUR Y8	
6	5	7,11	006
8	12,5	7,29	008
10	15	8,20	010
13	20	8,87	013
16	25	11,89	016
19	25	15,55	019 ¹⁾
21	25	17,07	021 ¹⁾
24	25	17,93	024 ¹⁾

1) only for MultiChange reamers

MultiChange – Spanner Head



DRVS mm	TQX Nm	Square mm	84 358 ... EUR Y8	
6	5	9 x 12	51,19	006
8	12,5	9 x 12	51,19	008
10	15	9 x 12	51,19	010
13	20	9 x 12	51,19	013
16	25	9 x 12	51,19	016
19	25	9 x 12	106,90	190
19	25	14 x 18	90,94	019 ¹⁾
21	25	9 x 12	150,10	210
21	25	14 x 18	111,30	021 ¹⁾
24	25	9 x 12	150,10	240
24	25	14 x 18	111,30	024 ¹⁾

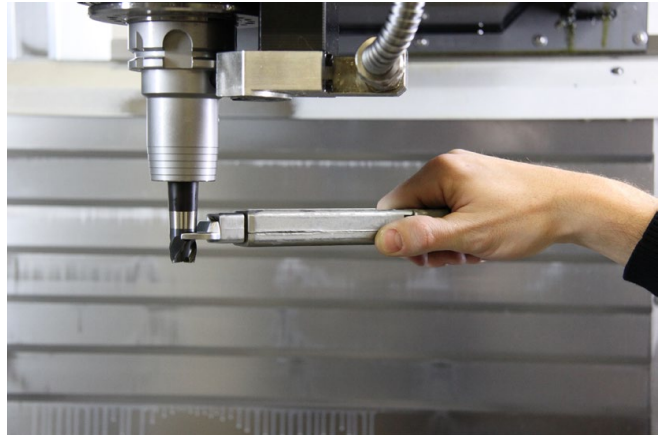
1) only for MultiChange reamers



Suitable torque keys can be found on → **Page 275.**

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ Cleaning of cone, thread and face of the holders
- ▲ Cutter head screwed clockwise by hand into the holder (be careful if using gloves)
- ▲ Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- ▲ The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area



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

TORX® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			EUR Y7	
T05	35	0,5	3,98	082
T06	35	0,9	3,92	083
T07	35	1,7	3,92	084
T08	40	2,6	3,92	085
T09	40	3,4	4,27	086
T10	40	4,5	4,27	087
T15	45	7,7	4,59	088
T20	45	12,7	5,01	089

TORX® Screwdriver sets



Size		80 950 ...	
		EUR Y7	
T06, T07, T08, T09, T10, T15, T20		38,98	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			EUR Y7	
T05-IP	35	0,5	6,24	057
T06-IP	35	0,9	6,24	058
T07-IP	35	1,7	6,18	059
T08-IP	40	2,6	6,08	060
T09-IP	40	3,4	6,54	061
T10-IP	40	4,5	6,54	062
T15-IP	45	7,7	6,96	063
T20-IP	45	12,7	7,71	064

TORX PLUS® Screwdriver sets



Size		80 950 ...	
		EUR Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP		56,04	091

Clamping key



DRVS mm	TQX Nm	80 397 ...	
		EUR Y7	
2	1,9	4,03	020
2,5	3,8	4,09	025
3	6,6	3,97	030
4	16	4,03	040
5	30	4,37	050
6	52	5,07	060
8	120	6,21	080
10	220	10,36	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



Size		80 397 ...	
		EUR Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8		39,19	99900

TORX® Screwdriver



		80 950 ...	
Size	LB mm	EUR Y7	
T06	60	6,55	100
T07	60	6,55	101
T08	60	6,55	102
T09	60	7,08	103
T10	80	7,26	104
T15	80	7,26	105
T20	100	7,75	106
T25	100	8,17	107
T30	115	9,06	092

TORX PLUS® Screwdriver



		80 950 ...	
Size	LB mm	EUR Y7	
T06-IP	60	8,35	116
T07-IP	60	8,19	117
T08-IP	60	6,47	039
T09-IP	60	8,89	118
T10-IP	80	9,18	119
T15-IP	80	9,42	120
T20-IP	100	10,09	121
T25-IP	100	10,58	122

TORX® MagicSpring®



		80 950 ...	
Size	LB mm	EUR Y7	
MS T06	60	8,69	108
MS T07	60	8,03	109
MS T08	60	8,03	110
MS T09	60	9,15	111
MS T10	80	9,41	112
MS T15	80	9,56	113
MS T20	100	10,25	114
MS T25	100	10,53	115
MS T30	100	12,46	131

TORX PLUS® MagicSpring®



		80 950 ...	
Size	LB mm	EUR Y7	
MS T06-IP	60	10,70	123
MS T07-IP	60	10,53	124
MS T08-IP	60	10,51	125
MS T09-IP	60	11,58	126
MS T10-IP	80	11,91	127
MS T15-IP	80	12,25	128
MS T20-IP	100	12,92	129
MS T25-IP	100	14,94	130



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



TorqueFix® Handle

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



NEW

80 021 ...

TQX Nm	EUR Y7	
0,4	100,90	00400
0,5	100,90	00500
0,6	100,90	006
0,7	88,50	007
0,8	90,63	008
0,9	100,90	00900
1	90,63	010
1,1	99,95	01100
1,2	99,95	012
1,5	99,95	01500
1,6	99,95	016
1,8	99,95	018
2	99,95	020
2,5	99,95	02500
3	105,60	030
3,2	105,60	032
3,8	105,60	03800
4	105,60	040
5	105,60	050
5,5	117,90	055
6	117,90	060
7,2	117,90	07200

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



80 950 ...

TQX Nm	EUR Y7	
0,4 - 1,0	131,30	046
0,5 - 2,0	122,50	191
0,8 - 5,0	132,50	192
2,0 - 7,0	135,90	193

Universal holder for Bits

- ▲ 162 mm long



80 950 ...

for	EUR Y7	
DIN3126-C/E 6,3-1/4"	20,01	014

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: $\pm 6\%$, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



NEW

80 392 ...

TQX Nm	DRVS mm	EUR Y7	
0,5	4	40,14	00500
0,6	4	40,14	00600
0,9	4	40,14	00900
1,1	4	40,14	01100
1,2	4	40,14	01200
1,4	4	40,14	01400
2,0	4	40,14	02000
2,5	4	40,14	02500
3,0	4	40,14	03000
3,8	4	40,14	03800
4,0	4	40,14	04000

Interchangeable blade for Hex drive for Micro Precision Chucks



Size	TQX Nm
SW1,5	0,9
SW2	1,8
SW2,5	3,8
SW3	5,5
SW4	8,0

NEW		short 75 mm	long 175 mm
80 393 ...			80 950 ...
EUR		EUR	
Y7		Y7	
3,28	01500	5,77	151
3,28	02000	5,77	152
3,28	02500	5,77	153
3,28	03000	5,77	154
3,28	04000	5,77	155

Replaceable Blade for TORX®



		NEW			
		short 75 mm	long 175 mm		
		80 394 ...	80 950 ...		
Size	TQX Nm	EUR Y7	EUR Y7		
T05	0,4		6,07	048	
T06	0,6	3,28 00600	4,90	031	
T07	0,9	3,28 00700	4,90	032	
T08	1,3	3,28 00800	4,90	033	
T09	2,5	3,28 00900	4,90	034	
T10	3,8	3,28 01000	4,90	035	
T15	5,5	3,28 01500	4,90	036	
T20	8,0	3,28 02000	4,90	037	
T25	8,0	3,28 02500	4,90	038	

Replaceable Blade for TORX PLUS®



		NEW			
		short 75 mm	long 175 mm		
		80 395 ...	80 950 ...		
Size	TQX Nm	EUR Y7	EUR Y7		
T05-IP	0,5		5,42	049	
T06-IP	0,8	3,28 00600	5,42	050	
T07-IP	1,3	3,28 00700	5,42	051	
T08-IP	2,0	3,28 00800	4,90	043	
T09-IP	3,0	3,28 00900	5,42	052	
T10-IP	4,5	3,28 01000	5,42	053	
T15-IP	6,6	3,28 01500	5,42	054	
T20-IP	8,0	3,28 02000	5,42	055	
T25-IP	8,0	3,28 02500	5,42	056	



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → **See Page 285.**

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 285.**

TORX® Bits short (25 mm)

▲ DIN3126-C 6,3 - 1/4"



80 950 ...			
Size	TQX Nm	EUR Y7	
T06	0,9	0,94	015
T07	1,7	0,94	016
T08	2,6	0,94	017
T09	3,4	0,94	018
T10	4,5	0,94	019
T15	7,7	0,94	020
T20	12,7	0,94	021
T25	19	0,94	022
T30	37,4	0,99	093

TORX® Bits long (50 mm)

▲ DIN3126-E 6,3 - 1/4"



80 950 ...			
Size	TQX Nm	EUR Y7	
T06	0,9	3,44	023
T07	1,7	3,44	024
T08	2,6	3,44	025
T09	3,4	3,44	026
T10	4,5	3,44	027
T15	7,7	3,44	028
T20	12,7	3,44	029
T25	19	3,44	030
T30	37,4	4,62	094

TORX PLUS® Bits short (25 mm)

▲ DIN3126-C 6,3 - 1/4"



80 950 ...			
Size	TQX Nm	EUR Y7	
T05-IP	0,5	2,78	065
T06-IP	0,9	2,78	066
T07-IP	1,7	2,78	067
T08-IP	2,6	2,78	068
T09-IP	3,4	2,78	069
T10-IP	4,5	2,78	070
T15-IP	7,7	2,78	071
T20-IP	12,7	2,78	072
T25-IP	19	2,78	073

TORX PLUS® Bits long (50 mm)

▲ DIN3126-E 6,3 - 1/4"



80 950 ...			
Size	TQX Nm	EUR Y7	
T05-IP	0,5	5,62	074
T06-IP	0,9	5,42	075
T07-IP	1,7	5,42	076
T08-IP	2,6	5,07	040
T09-IP	3,4	5,42	077
T10-IP	4,5	5,42	078
T15-IP	7,7	5,42	079
T20-IP	12,7	5,42	080
T25-IP	19	5,42	081

Bit – hexagonal



80 398 ...		
	EUR Y7	
SW1,5-50mm	5,25	01500
SW2,5-50mm	5,25	02500
SW2-50mm	5,25	02000
SW3,5-50mm	5,30	03500
SW3-50mm	4,77	03000
SW4,5-50mm	5,30	04500
SW4-50mm	3,91	04000
SW5-50mm	4,77	05000
SW6-50mm	3,91	06000
SW8-50mm	8,25	08000

TORX® Allen key



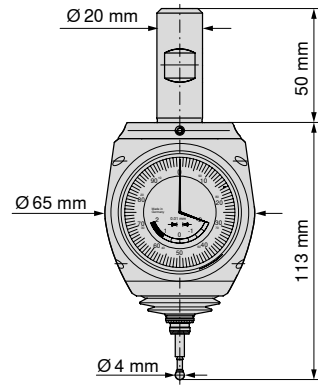
80 951 ...		
Size	OAL mm	EUR Y7
T07-IP	44	6,10
T08-IP	47	6,10
T09-IP	51	6,10
T10-IP	54	6,23
T15-IP	58	6,29
T20-IP	62	6,70
T25-IP	67	7,05
T27-IP	73	7,32
T30-IP	79	7,89
T40-IP	88	9,00

Universal 3D-tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 290 ...

EUR
XX

359,00 100

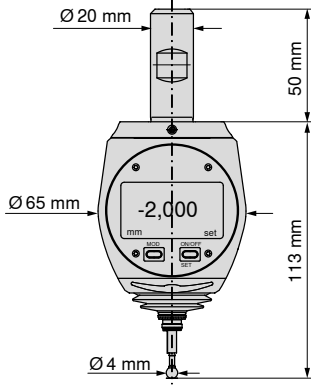
Universal-3D-Tester

Digital 3D-tester

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

Scope of supply:

3D tester including tracer insert and Allen key



85 291 ...

EUR
XX

721,00 100

Digital 3D Tester

Zero height setting gauge

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



85 900 ...

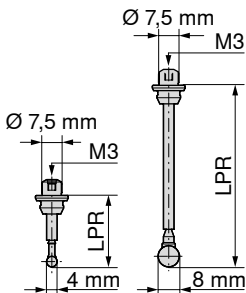
EUR
Y7

135,00 018

OAH
mm
100

Stylus for 3D-tester

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



85 290 ...

EUR
XX

28,00 102

45,20 104

LPR
mm

25

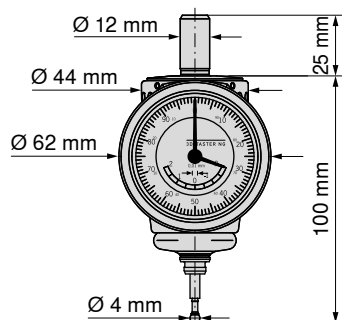
65

Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



85 292 ...

EUR
XX
359,00 100

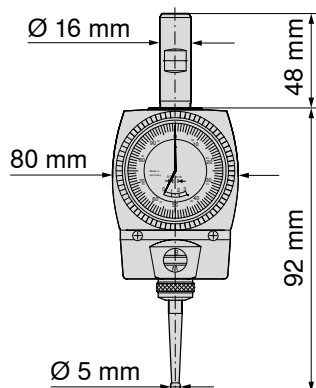
Universal 3D-Tester HQ

Centre finder

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

Scope of supply:

3D-Tester incl. straight stylus and telescopic stop



85 299 ...

EUR
XX
474,90 100

Centre finder



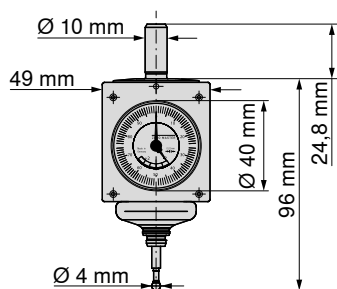
Range with probe tip Ø 5 mm holes
Ø 6-125 mm, shaft Ø 0-125 mm

Universal 3D-Tester Mini

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

Scope of supply:

3D tester including tracer insert and Allen key

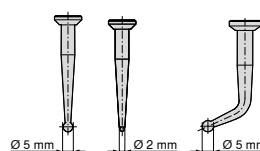


85 295 ...

EUR
XX
359,00 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

EUR
XX
44,10 102
33,10 104
42,70 106

Straight stylus / Ball-Ø 2 mm

Straight stylus / Ball-Ø 5 mm

Curved stylus / Ball Ø 5 mm

Telescopic rod for Centre Finder



85 299 ...

DCONMS mm	OAL mm
6	478

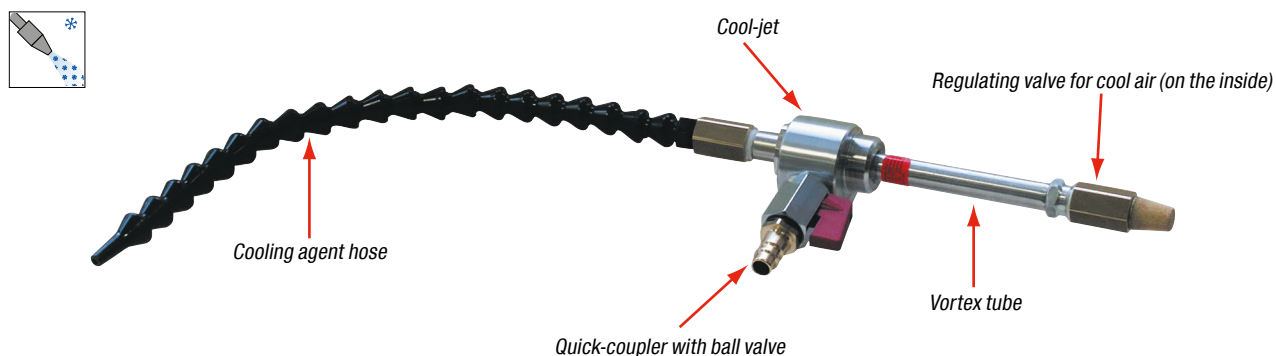
EUR
XX
14,80 111

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100% when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

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



81 900 ...			
Cool-jet			
3–7 bar air pressure, at -46 °C			
	EUR		
	Y7		
	601,60	100	

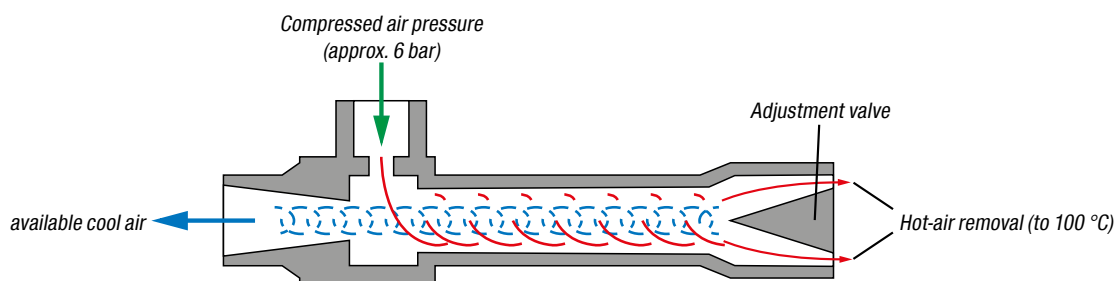
81 900 ...			
Accessories			
	EUR		
	Y7		
Magnetic plate Ø 80 mm without clamping arm	31,96	101	
Spare tube, length 300 mm	31,96	104	
Jet silencer (air filter)	6,22	105	
Clamping arm, length 75 mm	94,50	106	
Complete set (with magnetic set and clamping arm), weight 0,4 kg	123,20	107	

Technical description – operating instruction

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

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

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



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

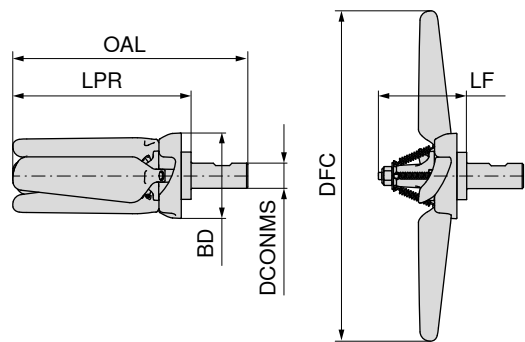
1 Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

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

Cleaning propeller

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



80 399 ...
EUR
Y7
176,70 02000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	186,3	141,3	69,75	254	67,68	5000 - 8000



80 399 ...
EUR
Y7
21,67 30100



80 399 ...
EUR
Y7
83,75 30200

Spare parts
for Article no.
80 399 02000

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- | | | | |
|--------------|-----------|----------------------|-----------------|
| ▲ Sauter | ▲ DIN1809 | ▲ Baruffaldi Toem | milling |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | ▲ BMT (bolt on) |
| ▲ Diplomatic | ▲ DIN5482 | ▲ Spline / tooth | |

Technical Advice

Are you interested in our driven tools ? If so please contact your technical sales engineer who will be glad to assist you. Alternatively, you can contact our office based internal technical sales engineers who can be reached on our freephone number.

Enquiry Form

Should you have questions about driven tools you can find a detailed questionnaire on our website in the download area. Carefully complete the form and send it via e-mail or printed fax → **cuttingtools/en/download**

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options! With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

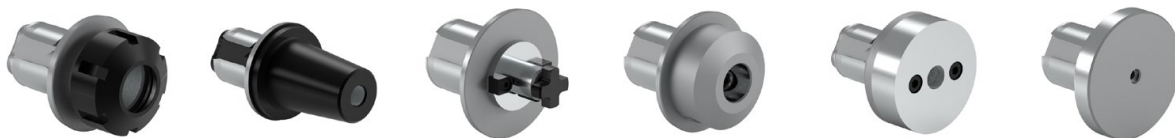
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



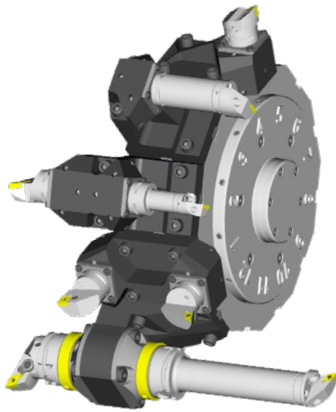
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



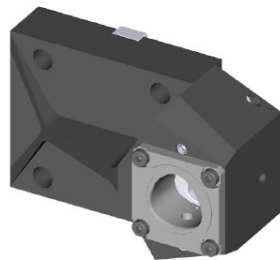
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and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

Quick-Change

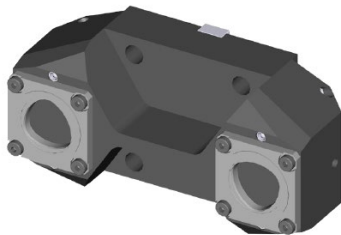


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

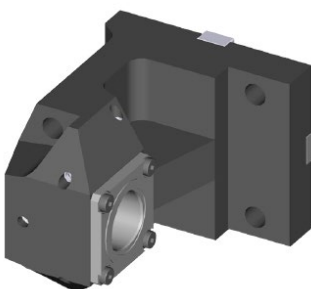
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



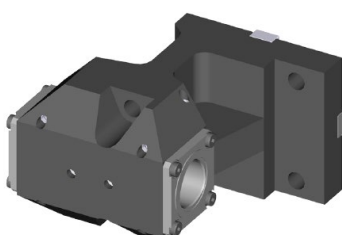
Tool holder single
and straight



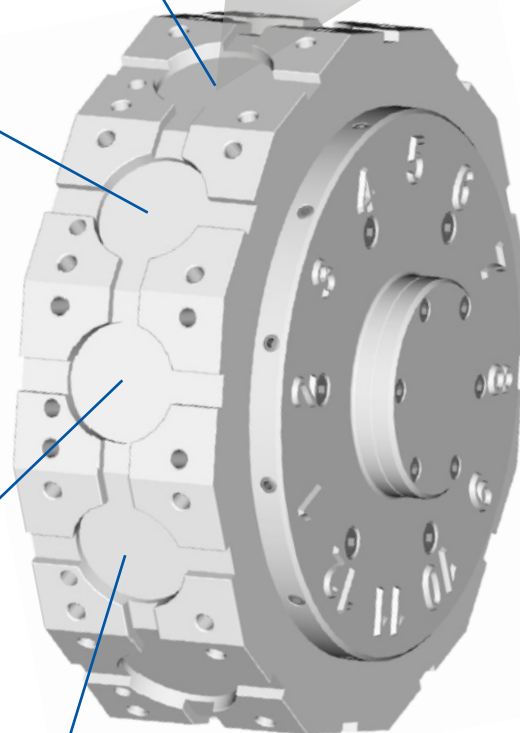
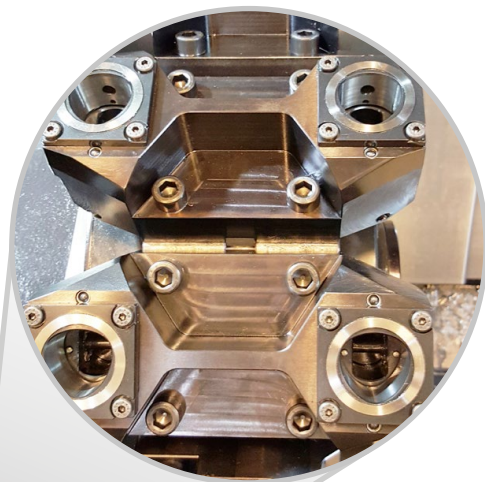
Tool holder double
and straight



Single angle tool holder



Double angle tool holder



Revolverdisk BMT/VDI/...

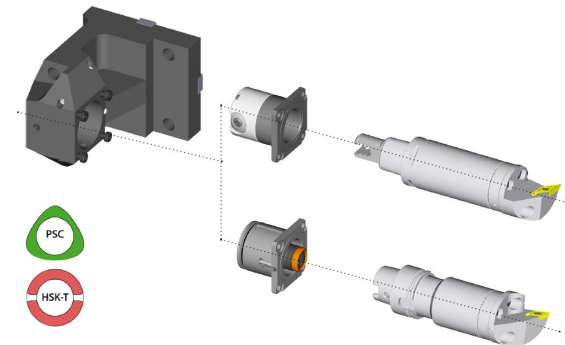
HSK/PSC clamping units



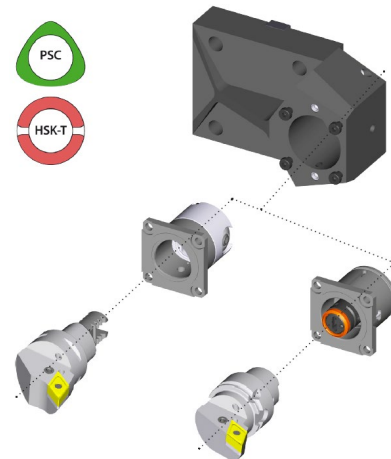
The tool holders are fitted with either an HSK or PSC clamping unit.



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

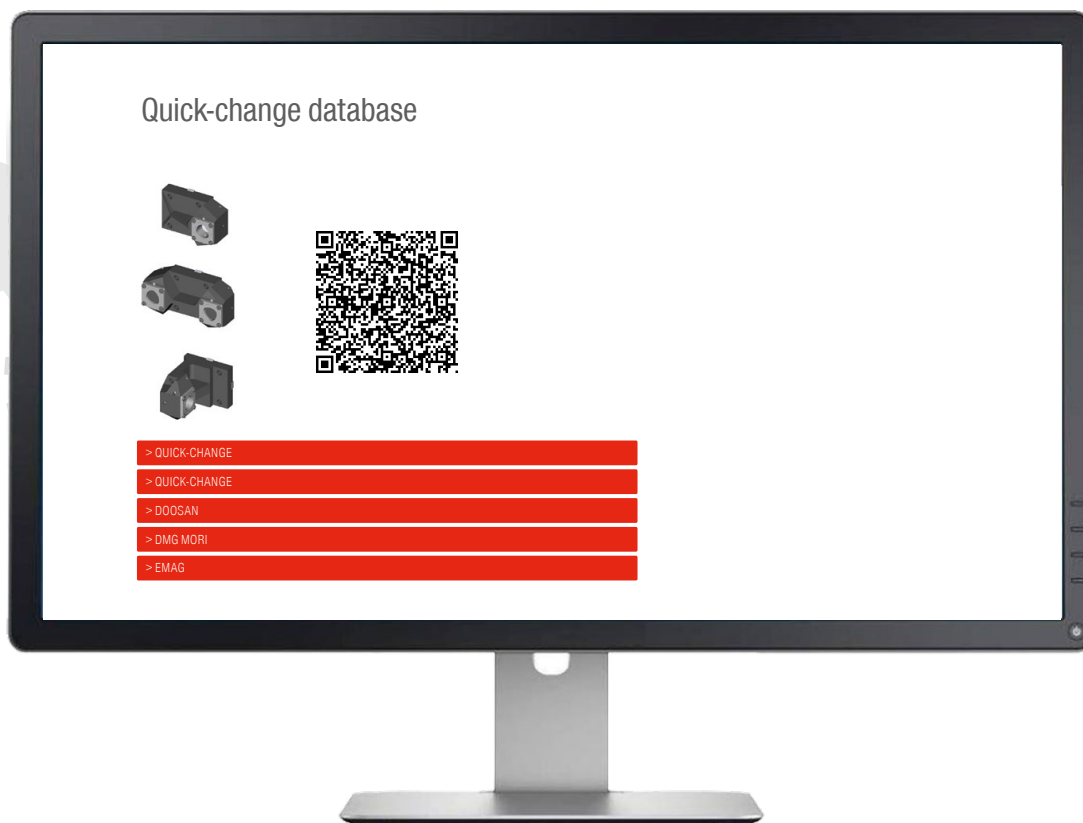


The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



Information on enquiry process

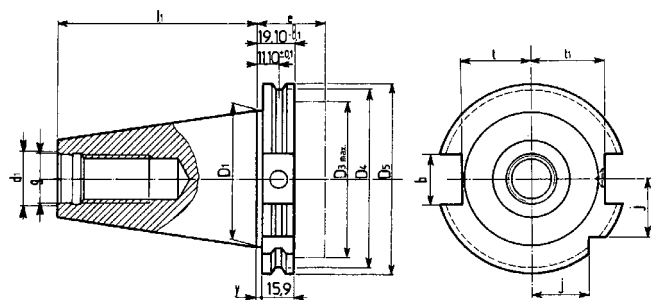
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

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

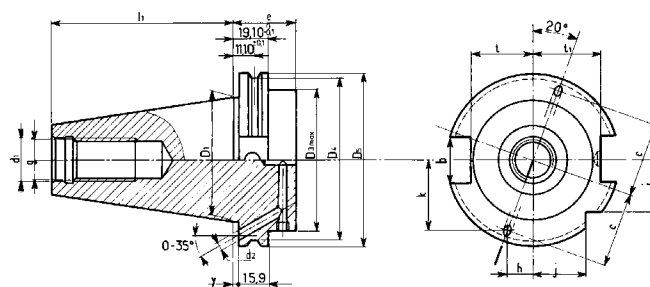
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

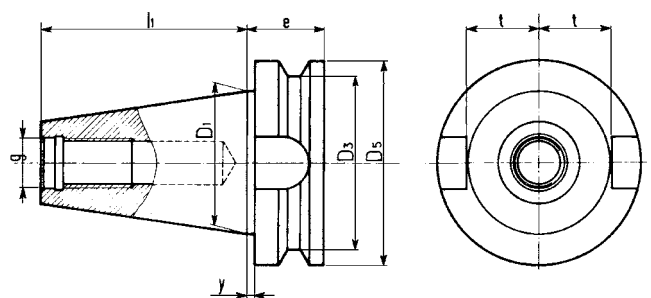


ISO 7388-1 – 871 Form B



	D ₁ mm	D _{3 max} mm	D ₄ mm	D ₅ mm	$l_{1,0}^{+0.2}$ mm	g	d ₁ ^{H7} mm	e mm	y ^{±0.1} mm	t mm	t ₁ mm	j mm	d ₂ mm	h mm	k mm	c mm	b mm
SK 30	31,75	45	44,30	50	47,8	M 12	13	35	3,2	16,4	19	15					16,1
SK 40	44,45	50	56,25	63,55	68,4	M 16	17	35	3,2	22,8	25	18,5	4	9,2	25,4	27	16,1
SK 50	69,85	80	91,25	97,5	101,75	M 24	25	35	3,2	35,5	37,7	30	6	14,4	39,5	42	25,7

ISO 7388-2



Maximum recommended rpm
for steep taper toolholders:

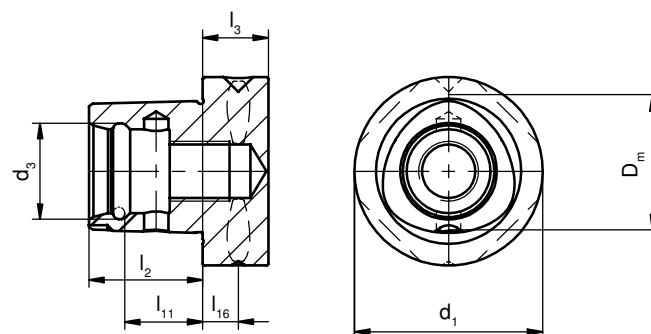
SK / BT 30 to 20,000 1/min.

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

SK / BT 50 to 16,000 1/min.

	D ₁ mm	D ₃ mm	D ₅ mm	l ₁ mm	g	e mm	t mm	y mm	b mm
BT 30	31,75	38	46	48,4	M 12	22	16,3	2	16,1
BT 40	44,45	53	63	65,4	M 16	27	22,5	2	16,1
BT 50	69,85	85	100	101,8	M 24	38	35,3	3,2	25,7

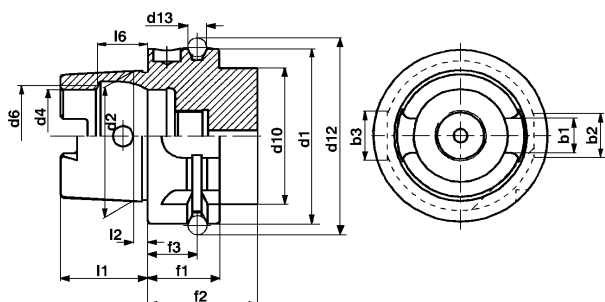
Technical Data for Polygon shank adapters



Shank size	d ₁ mm	d ₃ ^{±0.05} mm	l ₂ ^{±0.1} mm	l ₃ mm	l ₁₁ ^{±0.1} mm	l ₁₆ mm	D _m mm
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Technical Data for HSK Adapters

HSK DIN 69893 A+C



Maximum rpm recommended for HSK adapters:

HSK-A 32 to 50.000 $\frac{1}{\text{min}}$.

HSK-A 40 to 42.000 $\frac{1}{\text{min}}$.

HSK-A 50 to 30.000 $\frac{1}{\text{min}}$.

HSK-A 63 to 25.000 $\frac{1}{\text{min}}$.

HSK-A 100 to 16.000 $\frac{1}{\text{min}}$.

	b ₁ mm	b ₂ mm	b ₃ mm	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₁₀ mm	d ₁₂ mm	d ₁₃ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₆ mm
HSK 32	7,05	7	9	32	24	17	19	26	37	4	20	35	16	16	3,2	8,92
HSK 40	8,05	9	11	40	30	21	23	34	45	4	20	35	16	20	4	11,42
HSK 50	10,54	12	14	50	38	26	29	42	59,3	7	26	42	18	25	5	14,13
HSK 63	12,54	16	18	63	48	34	37	53	72,3	7	26	42	18	32	6,3	18,13
HSK 100	20,02	20	22	100	75	53	58	88	109,75	7	29	45	20	50	10	28,56

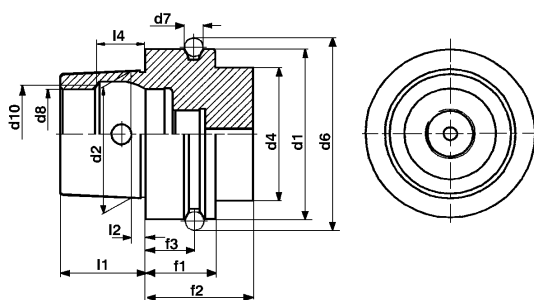
DIN 69893 Form A

- ▲ Applied for machining centres, milling and special machines with automatic tool change
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end
- ▲ 2 grooves on the flange for the tool magazine, positioning notch, bore for data storage medium
DIN 69873 in the flange

DIN 69893 Form C

- ▲ Applied for machine spindles without automatic tool change as well as tool extensions and reducers
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end

HSK DIN 69893 E



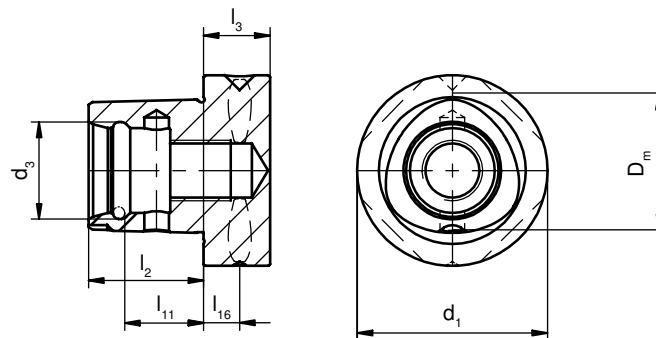
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

DIN 69893 Form E

- ▲ Applied for high rpm (HSC) for high speed spindles with automatic tool change
- ▲ Rotation symmetrical, without driving grooves
- ▲ Torque transmission through friction
- ▲ **Possibility of central coolant supply via coolant pipe**

Technical Information for Polygon Shank Adapters

To dimensions of ISO 26623-1



Shank size	d_1	d_3 $\pm 0,05$	l_2 $\pm 0,1$	l_3	l_{11} $\pm 0,1$	l_{16}	D_m
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

High Pressure Chuck

HPC milling with optimum damping

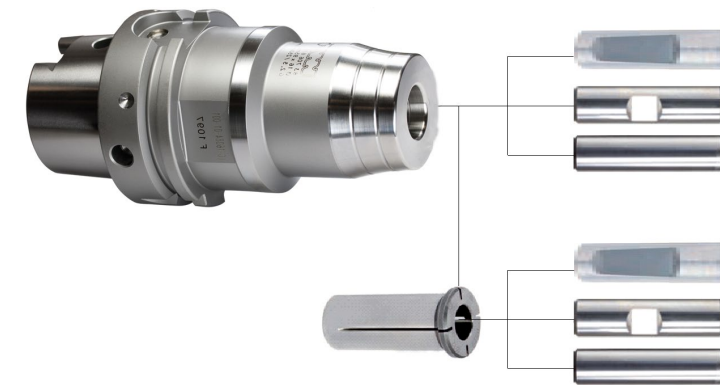
High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration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

The main technical characteristics of the high-pressure Milling Chuck are

- ▲ high damping properties
- ▲ Spindle-friendly
- ▲ maximum stability and strength
- ▲ high holding force and torque transmission
- ▲ 3 µm radial run-out
- ▲ Balanced to G2,5 at n_{max} 25.000 1/min.
- ▲ short tool change time
- ▲ no additional peripherals required
- ▲ MMS suitable
- ▲ maintenance free

Clamping of shanks with flats possible with or without reduction sleeve

HSS shank DIN1835 and
Solid Carbide shank DIN6535



Clamping Force Comparison with Different Systems

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

Shank diameter in mm	16	18	20	25	32
Holder Type	Maximum transmissible torque with shank tolerance h6 in Nm				
Shrink fit adapter	200	290	450	530	700
Standard hydraulic chucks	160	200	330	400	650
High Pressure Milling Chuck	280 - 380	360 - 450	550 - 650	650 - 750	800 - 890

 Minimum clamping depth the same as for hydraulic chucks



The main applications for Milling Chuck

- ▲ HPC Milling
- ▲ HSC Milling
- ▲ Hard Machining
- ▲ Drilling
- ▲ Reaming

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

Transmittable torques and static clamping torques

Static clamping moments of the CentroP collet chuck with different torque values measured at the tightening nut

Clamping diameter (d1 h6)	2	3	3,5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	mm	
ER 16 torque moment 30 Nm	2	3,5	5																							Nm
ER 16 torque moment 50 Nm				12	20	30	45	60	72	80																Nm
ER 25 torque moment 40 Nm				10	20	40																				Nm
ER 25 torque moment 75 Nm							62	75	85	95																Nm
ER 25 torque moment 90 Nm											122	145	160	175	190	200										Nm
ER 32 torque moment 60 Nm				20	30	40																				Nm
ER 32 torque moment 120 Nm							75	90	110	120	135	150	160	180	190											Nm
ER 32 torque moment 140 Nm																220	240	260	280	300						Nm
ER 40 torque moment 70 Nm				60	75	90	100																			Nm
ER 40 torque moment 110 Nm								110	125	140	150															Nm
ER 40 torque moment 150 Nm												200	220	240	260	300	350									Nm
ER 40 torque moment 200 Nm																			420	440	460	480	515	530		Nm
OZ 462 E torque moment 200 Nm				10	35	55	75	95	120	140	160	185	205	230	250	270	295	315	340							Nm

Permissible transmitted torque (Md) for Hydraulic Chucks

For direct clamping

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	32	mm
Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm

For clamping with reduction Ø 32 mm

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	mm
Md with shank at minimum size	30	45	60	120	120	180	220	250	330	Nm
Md with shank at maximum size	45	65	110	170	170	230	300	320	440	Nm

For clamping with reduction Ø 20 mm

Clamping diameter (d1 h6)	3	4	5	6	8	10	12	14	16	mm
Md with shank at minimum size	6	9	16	30	55	90	120	135	190	Nm
Md with shank at maximum size	10	12	22	40	75	120	150	170	260	Nm

For clamping with reduction Ø 12 mm

Clamping diameter (d1 h6)	3	4	5	6	8	mm
Md with shank at minimum size	3	4	7	12	18	Nm
Md with shank at maximum size	4	8	12	20	26	Nm

Minimum shank clamping depths for hydraulic chucks

Shank type & size	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm

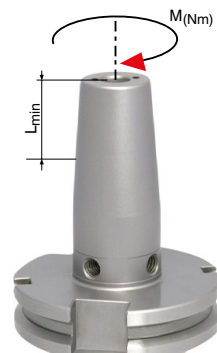
Permissible transmitted torque (Md) for high pressure chuck

Minimum shank clamping depths for high pressure chuck

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

For direct clamping

Clamping diameter (d1 h6)	16	18	20	25	32	mm
Md with shank at minimum size	280	360	550	650	800	Nm
Md with shank at maximum size	380	450	650	750	890	Nm



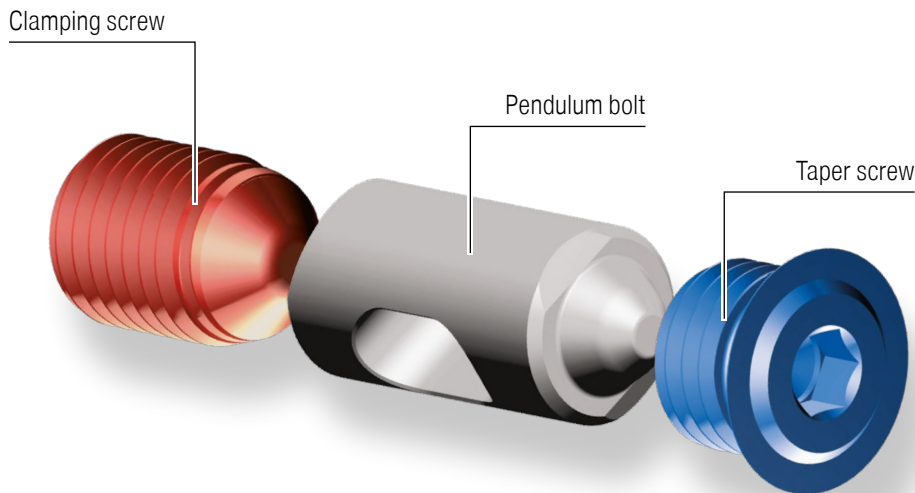
Minimum permissible shank torques and clamping depths for shrink fit holders

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

Technical information – ABS

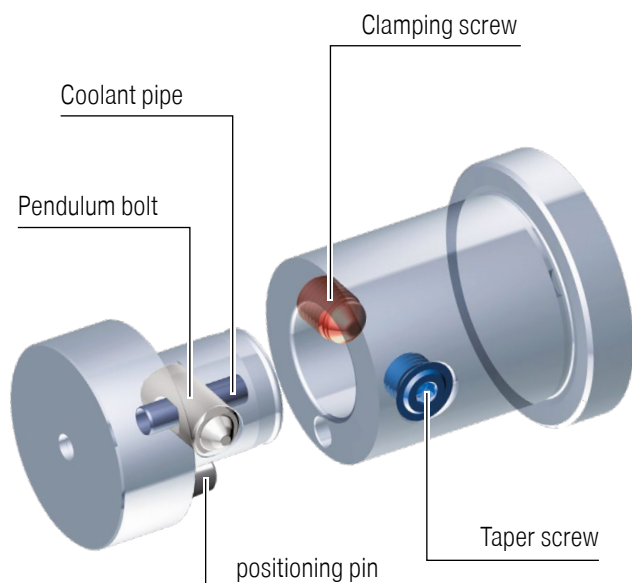
Even better connected

The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. Adapters also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.



Advantages

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



Spare parts ABS								
	Taper screw	Pendulum bolt	Clamping screw	Range 1	Coolant pipe	positioning pin	Range 2	Sealing ring
25	84 950 27000	84 950 26000	84 950 26800	84 950 99700	84 950 24400	84 950 23600	84 950 98900	84 950 30400
32	84 950 27100	84 950 26100	62 950 13989	84 950 99600	84 950 24500	84 950 23700	84 950 98800	84 950 30500
40	84 950 27200	84 950 26200	84 950 26900	84 950 99500	84 950 24600	84 950 23800	84 950 98700	84 950 30600
50	84 950 20400	84 950 20000	84 950 20300	84 950 99800	84 950 20100	84 950 20200	84 950 99900	84 950 30700
63	84 950 27300	84 950 26300	84 950 25500	84 950 99400	84 950 24700	84 950 23900	84 950 98600	84 950 30800
80	84 950 25100	84 950 26400	84 950 25600	84 950 99300	84 950 24800	84 950 24000	84 950 98500	84 950 30900
100	84 950 25200	84 950 26500	84 950 25700	84 950 99200	84 950 24900	84 950 24100	84 950 98400	84 950 31000
125	84 950 25300	84 950 26600	84 950 25800	84 950 99100	84 950 25000	84 950 24200	84 950 98300	
160	84 950 25400	84 950 26700	84 950 25900	84 950 99000	84 950 23500	84 950 24300	84 950 98200	