

New products for machining technicians

NEW High pressure chuck



HyPower – Rough

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



HyPower – Access 4.5°

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

NEW PSC parting blade holders and square shank holders with DirectCooling



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

NEW HyPower – Complus



We have expanded our line to include CAT taper high pressure hydraulic milling chucks.

NEW Cylindrical shank adapter (Weldon)



We have expanded our line to include CAT taper weldon shank adapters.

NEW Shell mill adapter



We have expanded our line to include CAT taper shell mill adapters.

NEW Torsional vibration dampers with ABS connection



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



Solid drilling and bore machining	Metric Catalog	HSS drilling	1
	Metric Catalog	Solid carbide drilling	2
		Indexable drilling	3
		Reaming and Countersinking	4
		Indexable Boring	5
Threading	Metric Catalog	Taps and thread formers	6
	Metric Catalog	Circular and Thread Milling	7
	Metric Catalog	Thread turning	8
Turning		Indexable Turning	9
		Multifunction	10
		Parting and Grooving	11
	Metric Catalog	Miniature turning tools	12
Milling	Metric Catalog	HSS Milling Cutters	13
		Solid Milling	14
		Indexable Milling	15
Clamping technology		Adaptors and Accessories	16
	Metric Catalog	Workpiece clamping	17
		Material examples and article no. Index	18

Table of contents

Symbol explanation	4
Toolfinder	
Machine interface	5
Rotating toolholders	6+7
Adapters, stationary	
– HSK-T and PSC tool holders	8+9
– VDI adapters for star turrets	10
– VDI adapters for disc turrets	11
– BMT tool holders	12
Accessories	13
Product program	
Adapters and accessories	14–204
Technical Information	
Technical data – CAT ANSI/ASME B5.50-1994 / ISO 7388-2 / ISO 26623-1	205
Technical data – ISO 12164	206
Technical Information for Polygon Shank Adapters	207
HyPower / HyTens	208–210
Static clamping moments / Centro-P and HDC ER precision collet chucks	211
Technical information – ABS	212
Compensation holder DAH	213

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)



Coolant supply via the flange (Form B)



with eroded cooling ducts



specially matched adapter for ThermoGrip® shrinking process



Coolant supply centrally or via the collar
with eroded cooling channels



Adapter with two additional coolant holes



Coolant supply centrally or via the collar
also additional coolant holes



Central coolant supply or via a coolant nozzle



Direct
Cooling
DC = DirectCooling



Collet description
▲ Type version
▲ Radial run-out accuracy

Toolfinder – Machine interface

CAT – Steep taper holders

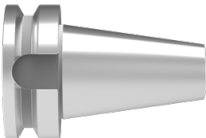


- ▲ CV 40
- ▲ CV 50
- ▲ CV-FC 40
- ▲ CV-FC-50

▶	Toolfinder – Adapters, rotating	6+7
	Product program	14–24

ISO 7388-2 – MAS-BT taper shank

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

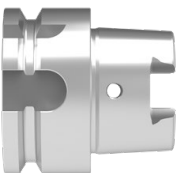


- ▲ BT 30
- ▲ BT 40
- ▲ BT 50
- ▲ BT-FC 30
- ▲ BT-FC 40
- ▲ BT-FC 50

▶	Toolfinder – Adapters, rotating	6+7
	MAS-BT product range	25–65 / 74+75
	MAS-BT-FC product range	66–73

HSK hollow taper adapters with face contact

ISO 12164 – HSK-A / HSK-E



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

▶	Toolfinder – Adapters, rotating	6+7
	HSK-A product range	76–116 / 120
	HSK-E product range	117–119

ISO 12164-3 – HSK-T

- ▲ HSK-T 63
- ▲ HSK-T 100

▶	Toolfinder – Adapters, stationary	8+9
	Product program	158–160

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

PSC, rotating



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

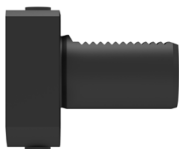
▶	Toolfinder – Adapters, rotating	6+7
	Product program	121–140

PSC, stationary

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

▶	Toolfinder – Adapters, stationary	8+9
	Product program	161–169

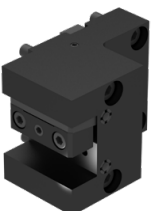
ISO 10889 – VDI tool holders with cylindrical shank



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

▶	Toolfinder – Adapters, stationary	10+11
	Product program	
	Driven Tools	

BMT tool holders



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

▶	Toolfinder – Adapters, stationary – BMT tool holders	12
	Product program	





















Toolfinder – Adaptors, rotating

Holder Type	CAT		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
	CV	CV-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
Accuracy										
Maximum										
ER Precision Collet chuck										
▲ Centro-P			25-27	66	76-78	117+118	121			
▲ HDC			28	67	79					
HyPower – High Pressure Milling Chuck			14	29-32	69	80-83	122			
HyTens – Hydraulic chuck				33+34		84-86		141		172
Heat Shrink Adapter				35-39	68	87-94	119	123-125	142	171
Micro-Precision Collet Chuck										
High										
Cylindrical shank adapter										
▲ Weldon			21-22	40+42	70	95+96	126	143+144		
▲ Whistle Notch				43+44		97	127	145+146		
Indexable insert drill adapter				45		98	128			
Collet Chuck										
▲ Precision Collet chuck – PCC				46		99				
▲ ER Collet chuck				47	71	100+101	129+130	147		
Short drill chuck				48		102	131	148		
Quick change tapping chuck										
▲ With minimum length compensation				49+50		103	132	149		
▲ with length compensation				51		104	133	148		
ABS adapters			15-19	20	52-54	72	105+106	134+135	152-156	84 232 ... 87 232 ...
Compensation holder DAH			The DAH run-out compensation holders are available in our online shop. Here you will find further information. 213							

SK taper tools can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!

Main Application		Finishing		Roughing - Finishing		Roughing
Extended application						

Toolfinder – Adapters, rotating

Holder Type	CAT		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
	CV	CV-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
Accuracy Medium										
Adapter for milling cutters with threaded end			55		107+108		136			
Face mill adapter										
▲ Combination shell mill adapter				56		109		151		
▲ Shell mill adapter			23+24	57-59	73	110-112	137	150		
▲ Large diameter facemill adapter				60						
Drill chuck adapter										
Taper adapter for Morse taper				61		113	138			
Adapter										
▲ CAT										
▲ MAS-BT				62						
▲ HSK-A				63		114				
▲ PSC				64		115	167+168			
Blank				65		116	139	157		
Test bar				65		116	140			








SK taper tools can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!

Main Application		Finishing		Roughing - Finishing		Roughing
Extended application						


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







Toolholders for negative turning inserts


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


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

	DCMN+ DDMN External	74 600	
	DDUN 93° Internal + External	74 515 + 74 516	
	DDJN 93° Internal + External	74 511 + 74 512	
	DDHN 107.5° Internal + External	74 507 + 74 508	
	DDMN 48° External	74 519	




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


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





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


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



Toolholders for positive turning inserts


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






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


	SDJC 93° Internal + External	74 543 + 74 544	
	SDNC 62.5° Internal + External	74 677	
	SDMC 48° External	74 546	

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

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

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

	SVUC 93° Internal + External	74 557 + 74 558	
	SVJC 93° Internal + External	74 555 + 74 556	
	SVHC 107.5° Internal + External	74 553 + 74 554	
	SVMC 50° External	74 560	

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



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

Holders for grooving and threading inserts

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

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

Toolholders for threading inserts

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

All tool holders for threading inserts can be found in → **Section 8, Thread turning**, in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratzit.com

Boring bars for negative inserts

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

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

Boring bars for positive inserts

Type	Article no.	Illustration
CC.. SCLC 95°	74 563 + 74 564	
DC.. SDUC 93°	74 565 + 74 566	
VC.. SVUC 93°	74 567 + 74 568	
VC.. SVQC 107.5°	70 748 + 70 749	

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

Basic holder

Type	Illustration	Direct Cooling	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°			159	161 163
Square shank holder 45°			159	162 164
Square shank holder 90°			159	162 163
Square shank holder 2 face 0°				164
Square shank holder 3 face 0°			160	164
Boring bar holder			160	165

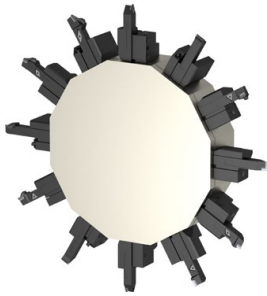
Parting blade holders

Type	Illustration	Direct Cooling	HSK-T ISO 12164	PSC ISO 26623
Parting blade holder 0°			158	161
Parting blade holder 90°			158	161 163

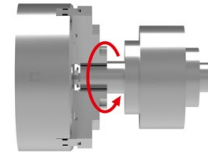
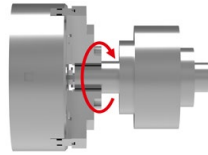
Accessories







Protection plug		169
Hollow nose keys		169







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	B2/B3/B6/B7/C3/C4/D1/D2
	Parting blade holders		double	double – overhead
	Adapter VDI to VDI		Left-hand	Left-hand
	Boring bar holder		Left-hand	Left-hand

Lower turret			Spindle rotation clockwise	Spindle rotation counter clockwise
	Square Shank Adapters		B2/B3/B6/B7/C3/C4/D1/D2	B2/B3/B6/B7/C1/C2/D1/D2
	Parting blade holders		double – overhead	double
	Adapter VDI to VDI		Right-hand	Right-hand
	Boring bar holder		Right-hand	Right-hand

Toolholders below

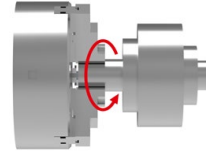
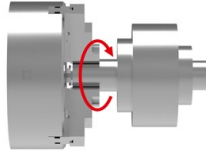
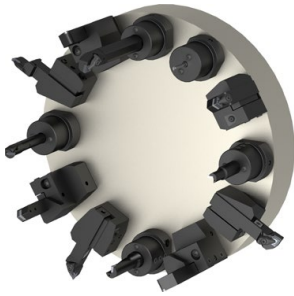
Upper turret			Spindle rotation clockwise	Spindle rotation counter clockwise
	Square Shank Adapters		B2/B3/B6/B7/C3/C4/D1/D2	B2/B3/B6/B7/C1/C2/D1/D2
	Parting blade holders		double	double – overhead
	Adapter VDI to VDI		Right-hand	Right-hand
	Boring bar holder		Right-hand	Right-hand

Lower turret			Spindle rotation clockwise	Spindle rotation counter clockwise
	Square Shank Adapters		B2/B3/B6/B7/C1/C2/D1/D2	B2/B3/B6/B7/C3/C4/D1/D2
	Parting blade holders		double – overhead	double
	Adapter VDI to VDI		Left-hand	Left-hand
	Boring bar holder		Left-hand	Left-hand



These articles can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!

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	B3/B7/C3/C4/D2
	Part Off Holder	Right-hand	Overhead right

Lower turret		Spindle rotation clockwise	Spindle rotation counter clockwise
	Square Shank Adapters	B4/B8/C3/C4/D2	B2/B6/C1/C2/D1
	Part Off Holder	Overhead left	Left-hand

General VDI adapters








	Cylindrical Shank Adapters	E/E1/E2/E3/E4
	Taper Adapters	F1
	Short drill chuck	NC 2010
	ER Collet chuck	
	Hydraulic chuck	
	VDI to PSC adapter	
	VDI to HSK-T adapter	
	VDI adapter with ABS-N connection	84 231 ...








Accessories








	Test arbors
	Tool holders
	Bar pullers
	Gripper accessories
	Protection plug








These articles can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!






Toolfinder – Adapters, stationary – BMT tool holders








Doosan/Spinner – BMT 45			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Combination tool holder	with thru coolant	








Mori/Seiki – BMT 40			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Combination tool holder	with thru coolant	

Doosan – BMT 55			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Boring bar holder	with thru coolant	

Mori/Seiki – BMT 60			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Combination tool holder	with thru coolant	

EMAG – BMT 55			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Boring bar holder	with thru coolant	





























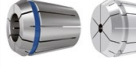





Mazak – BMT 68			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Combination tool holder	with thru coolant	

HAAS/Doosan – BMT 65			
	Axial square section tool holder	Left-hand	
	Square section adapter	Left-hand	
	Square multiple tool holder		
	Combination tool holder	with thru coolant	



These articles can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!

Toolfinder – accessories

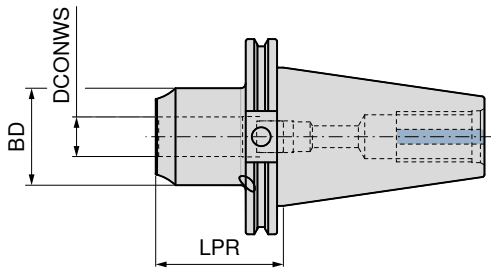
Type		Page No.	Type		Page No.
Pull stud	MAS-BT	 74+75	Spare parts for VDI		
	PSC	140			
Coolant pipe/key	HSK-A	 120	Spare parts driven tools		
	PSC	140			
Drill chuck with internal taper			Quick change applications		195-199
Tap clamping sleeve for Weldon adapters		170	Reduction sleeve and reducing bushings		189+190
Extension for Shell mill arbors		173	3D tester and zero setting device		
Milling adapter ring		174	Cleaning propeller		
Lock nuts ER-Standard and ER-Mini		194	TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		200-204
Y clamping key and ER-Mini clamping key		194	Assembly device for SK, HSK and PSC adapters		
Spare parts Centro-P		192	MultiChange – Holder		
Roll key		193	MultiChange key		
ER collets		175-186	Cool-jet		
Sealing discs		187+188	Taper wiper		



These articles can be found in our Metric Catalog 2024, in the Metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com!

HyPower – Complus

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

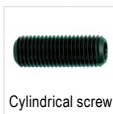


AD/B
G 2.5 n_{max} 25000

87 425 ...

Adapter	DCONWS mm	LPR mm	BD mm	
CAT40	20	64.5	49.00	02052
CAT50	20	64.5	49.00	02053
CAT50	32	81.0	69.85	03253

→ Min. clamping depth, Page 210



83 950 ...



80 397 ...



83 950 ...



83 950 ...

Spare parts

DCONWS								
20	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
32	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424

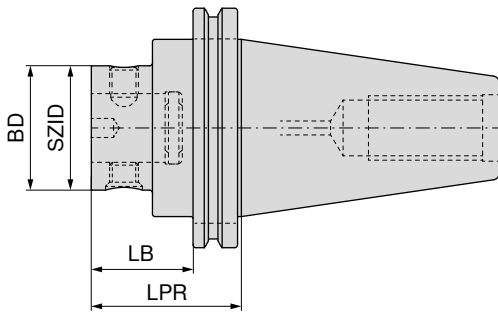


Reduction sleeve

189

Adapter with ABS Connection

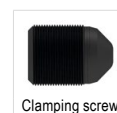
ABS



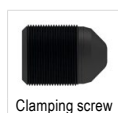
AD

87 201 ...

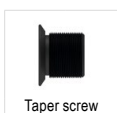
Adapter	SZID	LB inch	LPR inch	BD inch	KOMET no.	
CAT 40	ABS 25	1.610	2.362	0.984	A52 10120	01352
CAT 40	ABS 32	1.610	2.362	1.260	A52 10130	01652
CAT 40	ABS 40	1.610	2.362	1.575	A52 10140	02052
CAT 40	ABS 50	4.764	5.512	1.969	A52 10180	12852
CAT 40	ABS 50	2.205	2.953	1.969	A52 10150	02852
CAT 40	ABS 63	2.791	3.543	2.480	A52 10160	03452
CAT 50	ABS 100	4.169	4.921	3.937	A52 10380	05653
CAT 50	ABS 25	1.610	2.362	0.984	A52 10320	01353
CAT 50	ABS 32	1.610	2.362	1.260	A52 10330	01653
CAT 50	ABS 40	1.610	2.362	1.575	A52 10340	02053
CAT 50	ABS 50	1.610	2.362	1.969	A52 10350	02853
CAT 50	ABS 50	5.547	6.299	1.969	A52 10400	12853
CAT 50	ABS 63	2.402	3.150	2.480	A52 10360	03453
CAT 50	ABS 80	3.185	3.937	3.150	A52 10370	04653



Clamping screw



Clamping screw



Taper screw

62 950 ...

84 950 ...

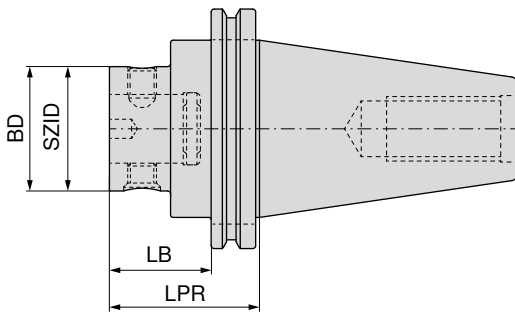
84 950 ...

Spare parts
SZID

ABS 25						
ABS 32			M8x12/SW4	13989		
ABS 40					26900	27200
ABS 50					20300	20400
ABS 63					25500	27300
ABS 80					25600	25100
ABS 100					25700	25200

Adapter with ABS Connection

ABS



B

87 002 ...

Adapter	SZID	LB inch	LPR inch	BD inch	KOMET no.	
CAT 40 / Mori Seiki	ABS 50	2.205	2.953	1.969	A52 50150	02852
CAT 40 / Mori Seiki	ABS 40	1.610	2.362	1.575	A52 50140	02052
CAT 50 / Mori Seiki	ABS 63	2.402	3.150	2.480	A52 50360	03453
CAT 50 / Mori Seiki	ABS 50	1.610	2.362	1.969	A52 50350	02853
CAT 50 / Mori Seiki	ABS 80	3.185	3.937	3.150	A52 50370	04653



Clamping screw

84 950 ...



Taper screw

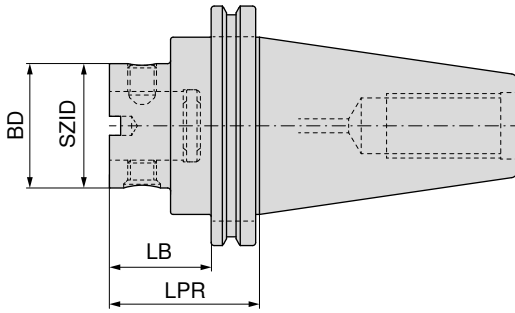
84 950 ...

Spare parts
SZID

ABS 40	26900	27200
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100

Adapter with ABS-N connection


ABS N



AD/B
G 6.3 n_{max} 8000


87 234 ...

Adapter	SZID	LB inch	LPR inch	BD inch	
CAT 50	ABS 50 N	1.612	2.362	1.969	12853
CAT 50	ABS 63 N	2.400	3.150	2.480	13453
CAT 50	ABS 80 N	3.187	3.937	3.150	14653



Clamping screw

84 950 ...



Taper screw

84 950 ...

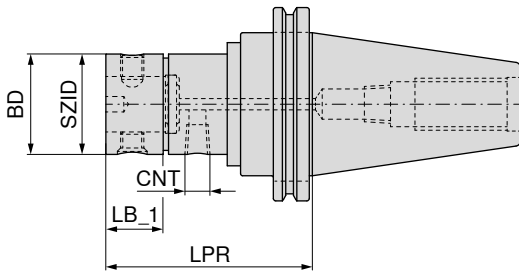
Spare parts

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

Adapter with ABS connection for coolant ring

▲ Adjustment range ± 0.010" on diameter

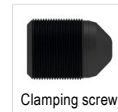
ABS



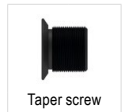
AD

87 233 ...

Adapter	SZID	LB_1 inch	LPR inch	BD inch	CNT	KOMET no.	
CAT 40	ABS 50	0.906	3.740	1.969	NPT 1/8"	A52 10650	02852
CAT 50	ABS 50	1.102	3.937	1.969	NPT 1/8"	A52 10850	02853
CAT 50	ABS 63	1.476	4.331	2.480	NPT 1/8"	A52 10860	03453



84 950 ...



84 950 ...

Spare parts

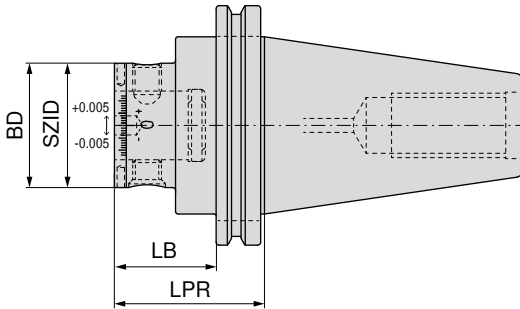
SZID		
ABS 50	20300	20400
ABS 63	25500	27300

Coolant rings must be ordered separately and can be found in our online shop at cuttingtools.ceratizit.com!

Eccentric adjuster with ABS Connection

▲ Adjustment range $\pm 0.010''$ on diameter

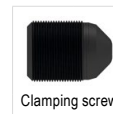
ABS



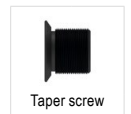
AD/B

87 204 ...

Adapter	SZID	LB inch	LPR inch	BD inch	KOMET no.	
CAT 40	ABS 50	1.890	2.953	1.969	A52 11151	02852
CAT 40	ABS 63	2.480	3.543	2.480	A52 11160	03452
CAT 50	ABS 50	0.866	2.362	1.969	A52 11351	02853
CAT 50	ABS 63	1.693	3.150	2.480	A52 11360	03453



84 950 ...



84 950 ...

Spare parts

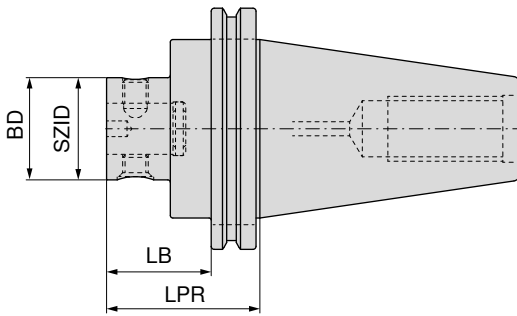
SZID	20300	20400
ABS 50	20300	20400
ABS 63	25500	27300

Adapter with ABS Connection – CAT-FC

▲ with face contact

▲ also available with Balluff chip on request

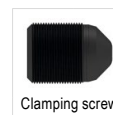
ABS



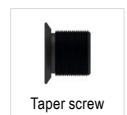
AD
G 6.3 n_{max} 8000

87 213 ...

Adapter	SZID	LB inch	LPR inch	BD inch	
CAT-FC 40	ABS 50	2.203	2.953	1.969	12861
CAT-FC 40	ABS 63	2.793	3.543	2.480	13461
CAT-FC 50	ABS 40	1.612	2.362	1.575	12062
CAT-FC 50	ABS 50	1.612	2.362	1.969	12862
CAT-FC 50	ABS 63	2.400	3.150	2.480	13462
CAT-FC 50	ABS 80	3.187	3.937	3.150	14662
CAT-FC 50	ABS 100	4.171	4.921	3.937	15662



84 950 ...

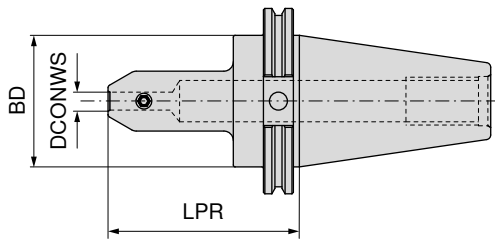


84 950 ...

Spare parts
SZID

ABS 40	26900	27200
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	25100
ABS 100	25700	25200

Cylindrical shank adapter (Weldon)



AD
G 2.5 n_{max} 25000

87 000 ...

Adapter	DCONWS _{H6} inch	BD inch	LPR inch	
CAT 40	0.375	1.000	2.500	10952
CAT 40	0.437	1.380	2.500	11152
CAT 40	0.500	1.750	1.750	11252
CAT 40	0.563	1.620	3.000	11452
CAT 40	0.625	1.750	1.750	11552
CAT 40	0.750	1.750	1.750	11952
CAT 40	1.000	1.750	1.750	12552
CAT 40	1.250	1.750	2.000	13152
CAT 40	1.500	2.750	4.620	23852
CAT 50	0.375	1.000	4.000	20953
CAT 50	0.437	1.380	4.000	21153
CAT 50	0.500	1.380	4.000	21253
CAT 50	0.625	1.620	4.000	21553
CAT 50	0.653	1.620	4.000	21653
CAT 50	0.750	1.750	4.000	21953
CAT 50	1.000	2.250	4.000	22553
CAT 50	1.250	2.500	4.000	23153
CAT 50	1.500	2.750	4.000	23853

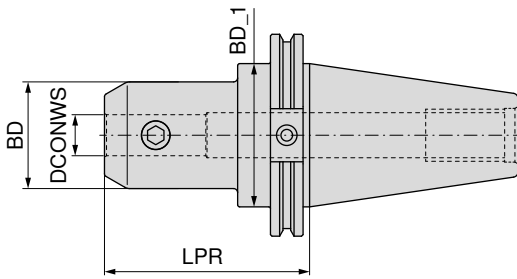


Set Screw

87 950 ...

Spare parts		
DCONWS		
0.375	3/8"-24 UNF	00002
0.437	7/16"-20 UNF	00003
0.500	7/16"-20 UNF	00003
0.563	9/16"-18 UNF	00004
0.625	9/16"-18 UNF	00004
0.653	9/16"-18 UNF	00004
0.750	5/8"-18 UNF	00005
1.000	5/8"-18 UNF	00005
1.000	3/4"-18 UNF	00006
1.250	5/8"-18 UNF	00005
1.250	3/4"-18 UNF	00006
1.500	3/4"-18 UNF	00006

Cylindrical shank adapter (Weldon)



AD
G 2.5 n_{max} 25000

87 216 ...

Adapter	DCONWS _{H6} mm	BD mm	BD_1 mm	LPR mm	
CAT 40	6	25.00	44.45	60	10652
CAT 40	8	28.00	44.45	75	10852
CAT 40	10	35.00	44.45	75	11052
CAT 40	12	42.00	44.45	75	11252
CAT 40	16	44.45		45	11652
CAT 40	20	52.00	44.45	75	12052
CAT 40	25	60.00	44.45	80	12552
CAT 40	32	57.15	57.15	50	13252
CAT 50	6	25.00	69.85	65	30653
CAT 50	8	28.00	69.85	65	30853
CAT 50	10	35.00		50	31053
CAT 50	12	42.00	69.85	100	71253
CAT 50	16	48.00	69.85	100	71653
CAT 50	20	52.00	69.85	100	72053
CAT 50	25	65.00	69.85	100	72553
CAT 50	32	70.00		100	73253



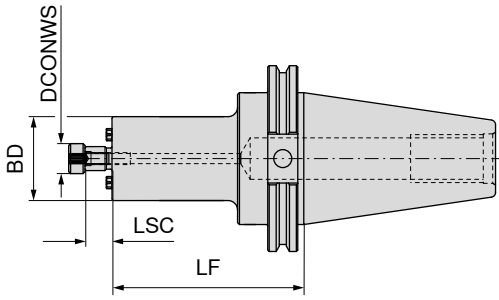
Set Screw

62 950 ...

Spare parts

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

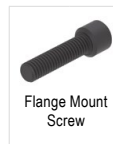
Shell mill adapter



AD
G 2.5 n_{max} 25000

87 001 ...

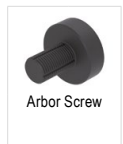
Adapter	DCONWS inch	LF inch	BD inch	
CAT 40	0.500	1.380	1.750	11252
CAT 40	0.750	1.770	1.750	11952
CAT 40	1.000	2.360	2.190	12552
CAT 40	1.250	2.360	2.750	13152
CAT 40	1.500	2.360	3.380	13852
CAT 50	0.500	4.000	1.750	21253
CAT 50	0.750	3.500	1.750	21953
CAT 50	1.000	2.000	2.190	12553
CAT 50	1.250	1.750	2.750	13153
CAT 50	1.500	2.500	3.940	13853
CAT 50	2.000	2.500	4.900	15053
CAT 50	2.500	2.500	4.900	16353



87 950 ...



87 950 ...

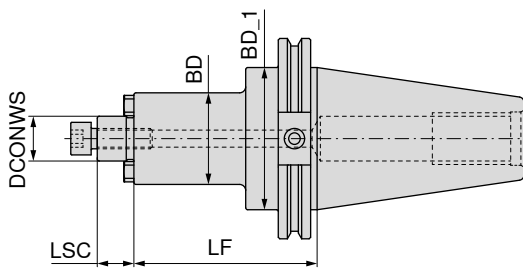


87 950 ...

Spare parts
DCONWS

0.500			1/4"-28 UNF	00011	1/4"-28 UNF	00021
0.750			3/8"-24 UNF	00012	3/8"-24 UNF	00022
0.750			3/8"-24 UNF	00012	3/8"-24 UNF	00022
1.000			1/2"-20 UNF	00013	1/2"-20 UNF	00023
1.250			5/8"-18 UNF	00014	5/8"-18 UNF	00024
1.500			3/4"-16 UNF	00015	3/4"-16 UNF	00025
2.000	5/8"-11 UNC	00030	1"-14 UNF	00016	1"-14 UNF	00026
2.500	5/8"-11 UNC	00030	1"-14 UNF	00017	1"-14 UNF	00027

Shell mill adapter



AD
G 2.5 n_{max} 25000

87 217 ...

Adapter	DCONWS mm	LF mm	BD mm	BD_1 mm	LSC mm	
CAT 40	16	35	34		15	11652
CAT 40	22	100	45		18	42252
CAT 40	22	50	45		18	12252
CAT 40	27	100	60	44.45	20	42752
CAT 40	27	50	60	44.45	20	12752
CAT 40	32	50	80	44.45	22	13252
CAT 50	22	90	45	69.85	18	62253
CAT 50	22	140	45	69.85	18	92253
CAT 50	27	100	70		20	62753
CAT 50	27	60	70		20	32753
CAT 50	32	60	80	69.85	22	33253
CAT 50	40	60	85	69.85	26	34053



87 950 ...

Spare parts
DCONWS

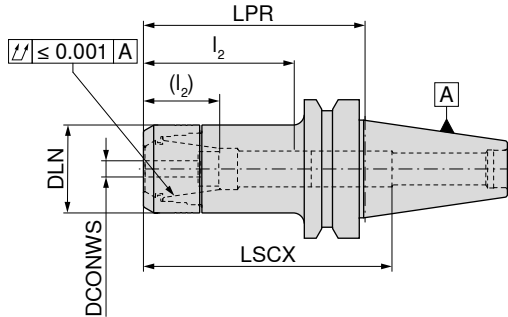
16	M8x25	00036
22	M10x18	00037
27	M12x22	00038
32	M16x26	00039
40	M20x30	00040

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

→ Transmittable torque moments, Page 211

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

Spare parts, ER precision collet chuck – Centro-P

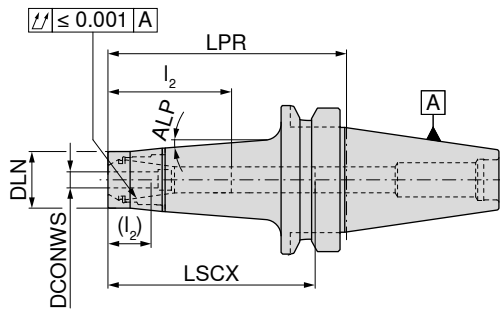
	84 950 ...	84 950 ...		83 950 ...	83 950 ...	
Spare parts for collet						
426E (ER16)	011	001	M11x1 - SW6	341	M11x1 - SW6	337
430E (ER25)	013	003	M18x1.5 - SW6	432	M18x1.5 - SW6	431
470E (ER32)	015	005	M22x1.5 - SW6	402	M22x1.5 - SW6	401
472E (ER40)	017	007			M28x1.5 - SW6	400

ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



AD/B
G 2.5 n_{max} 25000

84 517 ...

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

→ Transmittable torque moments, Page 211



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

	84 950 ...	84 950 ...		83 950 ...	83 950 ...	
Spare parts for collet						
426E (ER16)	033	031	M11x1 - SW6	341	M11x1 - SW6	337

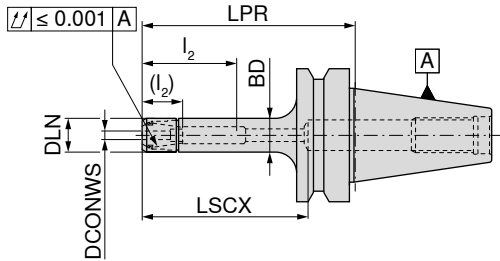
175-182, 186	187	193	193	74-75	

ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



AD
G 2.5 n_{max} 25000

84 507 ...



AD/B
G 2.5 n_{max} 25000

84 508 ...

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

→ Transmittable torque moments, Page 211

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

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

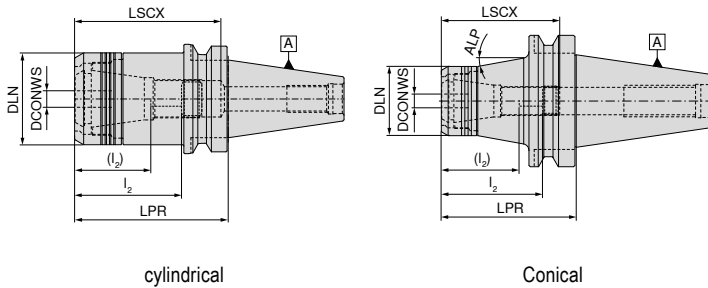
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
175-182, 186	187	192	193	193	74-75	

ER precision collet chuck – HDC

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

Scope of supply:

Base body including lock nut, without backstop screw



AD
G 6.3 n_{max} 18000

cylindrical



AD
G 6.3 n_{max} 18000

conical

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

→ Transmittable torque moments, Page 211



LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

Part	Quantity	Part Number
Lock nut	1	84 950 ...
Stop screw 2	1	83 950 ...
Stop screw 1	1	83 950 ...

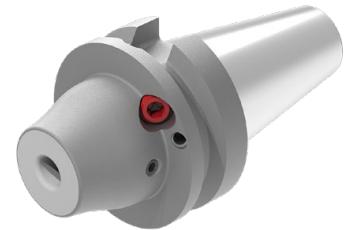
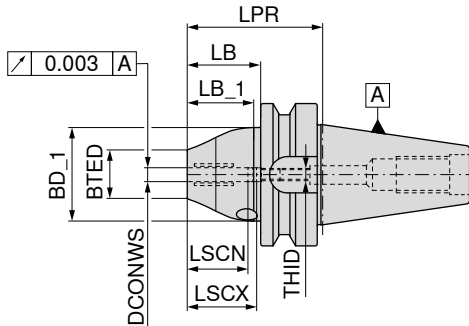
Part	Quantity
ER collet	175-183, 185-186
Roll key	193
Roll key device	193
Pull studs	74-75
Others	

HyPower – Rough

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW

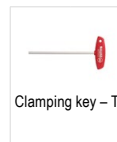


AD/B
G 2.5 n_{max} 25000

84 254 ...

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

→ Min. clamping depth, Page 210



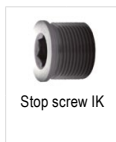
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts

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



Reduction sleeve

189

Pull studs

74-75

Others

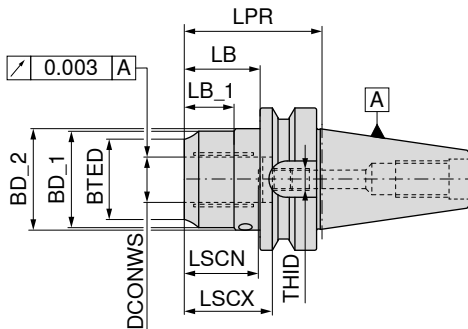


HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw

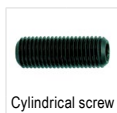


AD/B
G 2.5 n_{max} 25000

83 513 ...

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

→ Min. clamping depth, Page 210



Cylindrical screw

83 950 ...



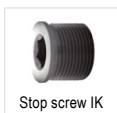
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

83 513 13269	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
83 513 12068	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
83 513 13268	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424



Reduction sleeve

189



Pull studs

74-75



Others

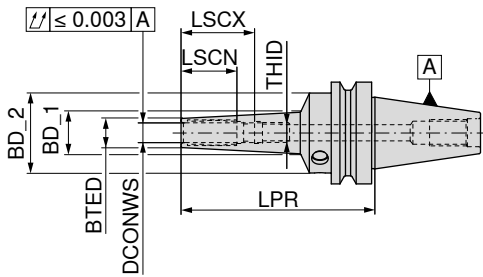


HyPower – Access 3°

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

Scope of supply:

Base body with backstop screw, pressure screw and screw plug



AD/B
G 2.5 n_{max} 25000

83 522 ...

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

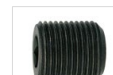
→ Min. clamping depth, Page 210



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

83 950 ...

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

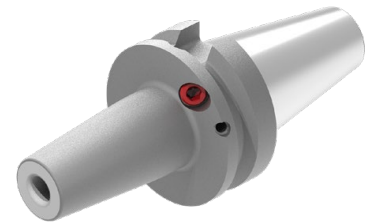
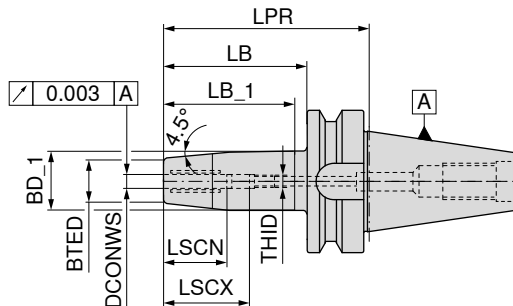
83 522 103	M5x5 - SW2.5	157	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
83 522 104	M5x5 - SW2.5	157	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
83 522 105	M5x5 - SW2.5	157	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
83 522 106	M5x5 - SW2.5	157	SW5	050	M10x1x10	158	M5x12.5 - SW2.5	418
83 522 108	M5x5 - SW2.5	157	SW5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

HyPower – Access 4.5°

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



AD/B
G 2.5 n_{max} 25000

84 255 ...

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

→ Min. clamping depth, Page 210



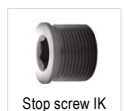
Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts

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



Reduction sleeve

189

Pull studs

74-75

Others

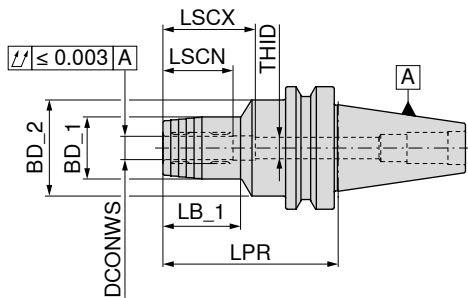


HyTens – Fit

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

Scope of supply:

Base body with backstop screw and pressure screw



AD/B
G 2.5 n_{max} 25000

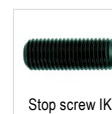
83 521 ...

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

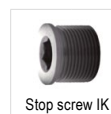
→ Min. clamping depth, Page 210



Pressure screw



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

83 950 ...

Spare parts

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

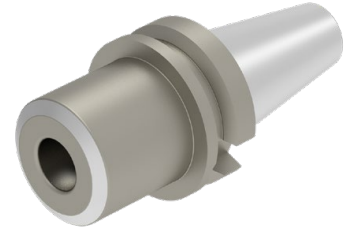
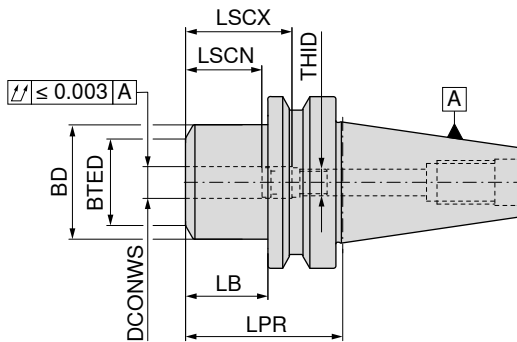
Reduction sleeve	Pull studs	Others
189	74-75	

HyTens – Compact

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2.5 n_{max} 25000

83 430 ...

Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCN mm	LSCX mm	THID	
BT 40	12	58.0	42	32	31.0	36	46	M8x1	01269
BT 40	20	72.5	49	38	45.5	41	51	M16x1	02069
BT 50	20	83.5	49	38	45.5	41	51	M16x1	02068

→ Min. clamping depth, Page 210

**Spare parts
for Article no.**

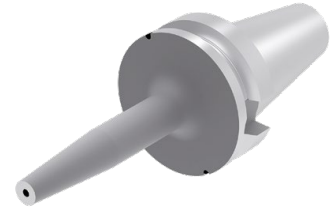
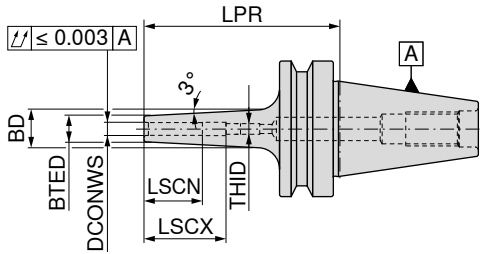
83 430 01269			
83 430 02069			
83 430 02068			

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

Shrink adapter, Slim 3°

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

TG

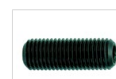


AD/B
G 2.5 n_{max} 25000

84 323 ...

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

→ Min. clamping depth, Page 210



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

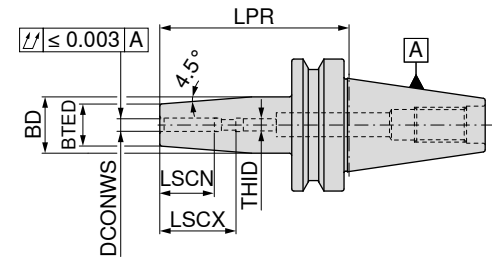
Spare parts
DCONWS

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

Shrink fit adapters 4.5°

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

TG



AD
G 2.5 ρ_{max} 25000

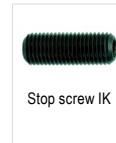


AD/B
G 2.5 ρ_{max} 25000

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

→ Min. clamping depth, Page 210

Spare parts heat shrink adapter 4.5°

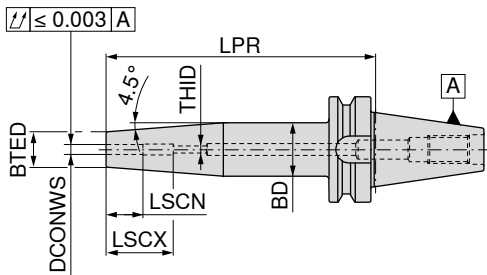


		83 950 ...	83 950 ...
Spare parts			
DCONWS			
3 - 5	M6x14 - SW2	417	
6			M5x12.5 - SW2.5 418
8			M6x12.5 - SW3 419
10			M8x1x13.5 - SW3 420
12 - 14			M10x1x13.5 - SW5 421
16 - 18			M12x1x13.5 - SW5 422
20 - 25			M16x1x13.5 - SW8 424

Shrink fit adapters 4.5°

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

TG



AD/B
G 2.5 n_{max} 25000

82 310 ...

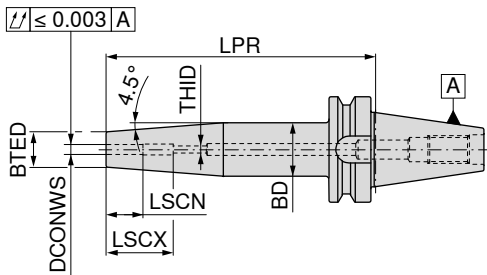
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	BT 40	3	90	11	15				10369
	BT 40	4	90	11	15				10469
	BT 40	5	90	11	15				10569
	BT 40	6	90	21	27	36	26	M5	10669
	BT 40	8	90	21	27	36	26	M6	10869
	BT 40	10	90	24	34	41	31	M8x1	11069
	BT 40	12	90	24	34	46	36	M10x1	11269
	BT 40	14	90	27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

→ Min. clamping depth, Page 210

Shrink fit adapters 4.5°

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

TG

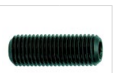


AD/B
G 2.5 n_{max} 25000

82 310 ...

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

→ Min. clamping depth, Page 210



Stop screw IK

82 950 ...

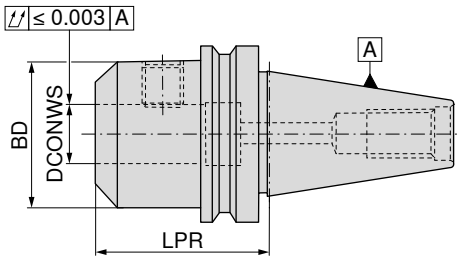
Spare parts

DCONWS

6	M5x16 - SW2.5	30000
8	M6x16 - SW3	30100
10	M8x16 - SW4	30200
12 - 14	M10x16 - SW5	30300
20 - 32	M16x16 - SW8	30500

Cylindrical shank adapter (Weldon)

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



AD
G 2.5 n_{max} 25000

82 741 ...

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

1) Version with two grub screws

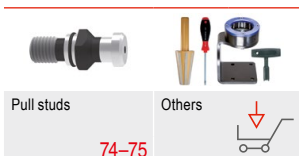


62 950 ...

Spare parts

DCONWS

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



Pull studs

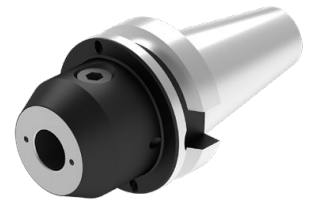
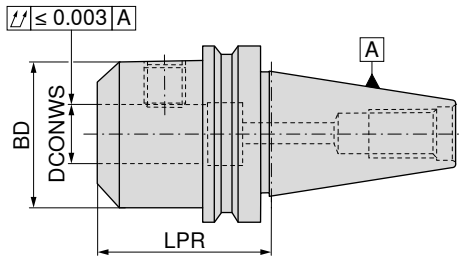
Others

74-75



Cylindrical shank adapter (Weldon)

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



AD/B
G 2.5 n_{max} 25000

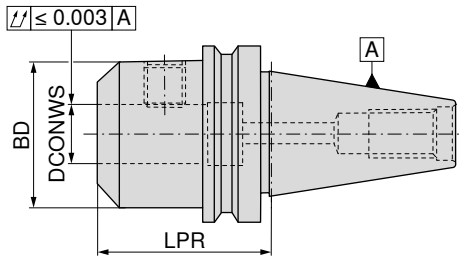
82 740 ...

	Adapter	DCONWS	LPR	BD		
		H4 mm				mm
short	BT 40	6	50	25	10669	
	BT 40	8	50	28	10869	
	BT 40	10	63	35	11069	
	BT 40	12	63	42	11269	
	BT 40	14	63	44	11469	
	BT 40	16	63	48	11669	
	BT 40	18	63	50	11869	
	BT 40	20	63	52	12069	
	BT 40	25	100	65	12569	
	BT 40	32	100	72	13269 ¹⁾	
	BT 40	40	120	80	14069 ¹⁾	
BT 50		6	63	25	10668	
BT 50		8	63	28	10868	
BT 50		10	80	35	11068	
BT 50		12	80	42	11268	
BT 50		14	80	44	11468	
BT 50		16	80	48	11668	
BT 50		18	80	50	11868	
BT 50		20	80	52	12068	
BT 50		25	100	65	12568 ¹⁾	
BT 50		32	105	72	13268 ¹⁾	
BT 50		40	120	80	14068 ¹⁾	
medium length	BT 40	6	100	25	20669	
	BT 40	8	100	28	20869	
	BT 40	10	100	35	21069	
	BT 40	12	100	42	21269	
	BT 40	14	100	44	21469	
	BT 40	16	100	48	21669	
	BT 40	18	100	50	21869	
	BT 40	20	100	52	22069	
	BT 50	6	100	25	20668	
	BT 50	8	100	28	20868	
	BT 50	10	100	35	21068	
BT 50	12	100	42	21268		
BT 50	14	100	44	21468		
BT 50	16	100	48	21668		
BT 50	18	100	50	21868		
BT 50	20	100	52	22068		
BT 50	25	120	65	22568 ¹⁾		

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



AD/B
G 2.5 n_{max} 25000

82 740 ...

	Adapter	DCONWS	LPR	BD	
		mm			
extra-long	BT 40	6	160	25	40669
	BT 40	8	160	28	40869
	BT 40	10	160	35	41069
	BT 40	12	160	42	41269
	BT 40	14	160	44	41469
	BT 40	16	160	48	41669
	BT 40	18	160	50	41869
	BT 40	20	160	52	42069
	BT 40	25	160	65	42569 ¹⁾
	BT 50	6	160	25	40668
	BT 50	8	160	28	40868
	BT 50	10	160	35	41068
	BT 50	12	160	42	41268
	BT 50	14	160	44	41468
	BT 50	16	160	48	41668
	BT 50	18	160	50	41868
	BT 50	20	160	52	42068
	BT 50	25	160	65	42568 ¹⁾
	BT 50	32	160	72	43268 ¹⁾

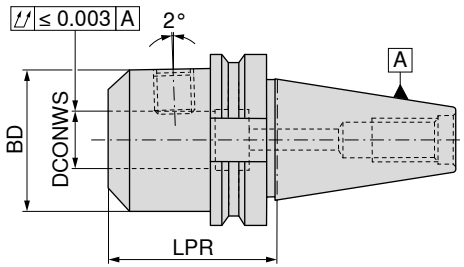
1) Version with two grub screws



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

Cylindrical Shank Adapter (Whistle Notch)

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






AD/B
G 2.5 n_{max} 25000

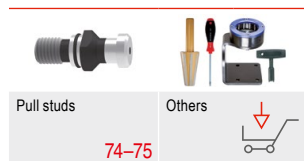
82 742 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	BT 40	6	50	25	10669
	BT 40	8	50	28	10869
	BT 40	10	63	35	11069
	BT 40	12	63	42	11269
	BT 40	14	63	44	11469
	BT 40	16	63	48	11669
	BT 40	18	63	50	11869
	BT 40	20	63	52	12069
	BT 40	25	100	65	12569 ¹⁾
	BT 40	32	100	72	13269 ¹⁾
	BT 40	40	120	80	14069 ¹⁾
	BT 50	6	63	25	10668
	BT 50	8	63	28	10868
	BT 50	10	80	35	11068
BT 50	12	80	42	11268	
BT 50	14	80	44	11468	
BT 50	16	80	48	11668	
BT 50	18	80	50	11868	
BT 50	20	80	52	12068	
BT 50	25	100	65	12568 ¹⁾	
BT 50	32	105	72	13268 ¹⁾	
long	BT 40	6	130	25	30669
	BT 40	8	130	28	30869
	BT 40	10	130	35	31069
	BT 40	12	130	42	31269
	BT 40	16	130	48	31669
	BT 40	20	130	52	32069
	BT 40	25	130	65	32569 ¹⁾
	BT 50	6	130	25	30668
	BT 50	8	130	28	30868
	BT 50	10	130	35	31068
	BT 50	12	130	42	31268
	BT 50	16	130	48	31668
	BT 50	20	130	52	32068
	BT 50	25	130	65	32568 ¹⁾
BT 50	32	130	72	33268 ¹⁾	

1) Version with two grub screws

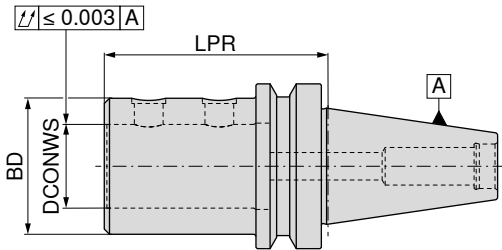
Spare parts cylindrical shank adaptors (Weldon and Whistle Notch)

				
		10 950 ...	62 950 ...	84 950 ...
Spare parts				
DCONWS_{H4}				
6			M6x10	006
8			M8x10	008
10			M10x12	010
12 - 14	M10X20 DIN 913	17500	M12x16	012
16 - 18			M14x16	016
20			M16x16	020
25			M18x2x20	025
32 - 40			M20x2x20	032
				M6x20
				21500



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

▲ also available with Balluff chip on request



NEW



AD/B
G 6.3 n_{max} 15000

82 748 ...

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

1 Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling**, of the metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com

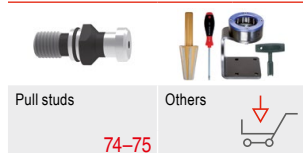


Set Screw

10 950 ...

Spare parts
DCONWS

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



Pull studs

Others

74-75

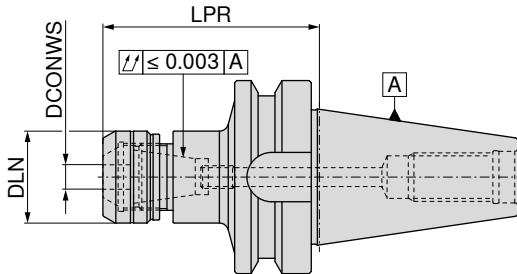


ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



AD/B
G 2.5 n_{max} 25000

82 700 ...

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



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

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

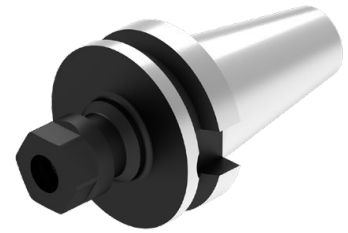
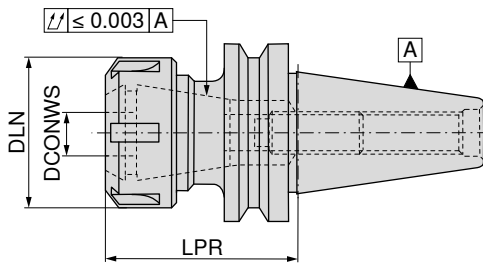


ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2.5 n_{max} 25000

82 743 ...



AD/B
G 2.5 n_{max} 25000

82 743 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet		
short	BT 30	1 - 10	70	28	56	426E (ER16)		
	BT 30	1 - 16	70	42	104	430E (ER25)		11070 ¹⁾
	BT 30	2 - 20	70	50	136	470E (ER32)		11670
								12070
	BT 40	1 - 10	60	22	56	426E (ER16 mini)		
	BT 40	1 - 10	60	28	56	426E (ER16)		11169
	BT 40	1 - 16	70	42	104	430E (ER25)		11069 ¹⁾
	BT 40	2 - 20	70	50	136	470E (ER32)		11669
	BT 40	3 - 26	70	63	176	472E (ER40)		12069
								12669
	BT 50	1 - 10	75	28	56	426E (ER16)		11068 ¹⁾
	BT 50	1 - 16	75	42	104	430E (ER25)		11668
BT 50	2 - 20	75	50	136	470E (ER32)		12068	
BT 50	4 - 26	75	63	176	472E (ER40)		12668	
medium length	BT 30	1 - 10	100	28	56	426E (ER16)		21070 ¹⁾
	BT 30	1 - 16	100	42	104	430E (ER25)		21670
	BT 40	1 - 10	120	22	56	426E (ER16 mini)		
	BT 40	1 - 10	120	28	56	426E (ER16)		21169
	BT 40	1 - 16	120	42	104	430E (ER25)		21069 ¹⁾
	BT 40	2 - 20	120	50	136	470E (ER32)		21669
	BT 40	3 - 26	100	63	176	472E (ER40)		22069
								22669
	BT 50	1 - 10	100	28	56	426E (ER16)		21068 ¹⁾
	BT 50	1 - 16	100	42	104	430E (ER25)		21668
	BT 50	2 - 20	100	50	136	470E (ER32)		22068
	BT 50	3 - 26	100	63	176	472E (ER40)		22668
extra-long	BT 40	1 - 10	160	28	56	426E (ER16)		41069 ¹⁾
	BT 40	1 - 16	160	42	104	430E (ER25)		41669
	BT 40	2 - 20	160	50	136	470E (ER32)		42069
	BT 40	3 - 26	160	63	176	472E (ER40)		42669
	BT 50	1 - 16	160	42	104	430E (ER25)		41668
	BT 50	2 - 20	160	50	136	470E (ER32)		42068

1) with 6 position lock nut

Spare parts for collet

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

Lock nut	Lock nut IK	Lock nut	Y clamping key	Mini lock nut	Mini IK
62 950 ...	83 950 ...	62 950 ...	83 357 ...	62 950 ...	83 950 ...
044	055 056 057	055	125 132 140	066	058

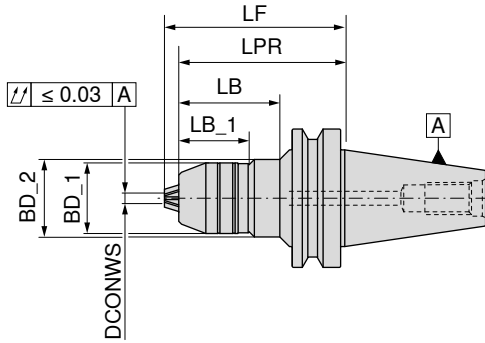
Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thru coolant lock nuts.

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



A
G 6.3 n_{max} 10000

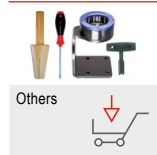
84 509 ...



AD
G 6.3 n_{max} 10000

84 510 ...

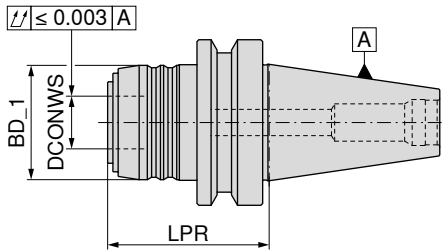
Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm		
BT 40	0.5 - 13	48.5		50.9	80	80	89.0		
BT 40	2.5 - 16	51.0		50.9		80	90.5		
BT 50	2.5 - 16	51.0	56	50.9	73	120	130.5		



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

Synchro tapping chuck with minimum length compensation

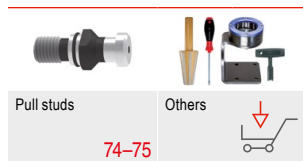
- ▲ For collets according to DIN 6499
- ▲ With length compensation under tension 1.0 mm and under compression 0.2 mm (LZD)
- ▲ $p_{max} = 50$ bar
- ▲ for synchro use
- ▲ also available with Balluff chip **on request**



AD

83 515 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	
BT 40	M3 - M12	1	61	43	20	1.0 / 0.2	012
BT 40	M6 - M20	2	82	60	32	1.0 / 0.2	020
BT 50	M3 - M12	1	72	43	20	1.0 / 0.2	112
BT 50	M6 - M20	2	93	60	32	1.0 / 0.2	120

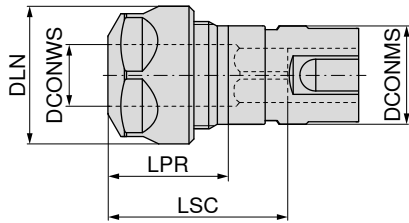


Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

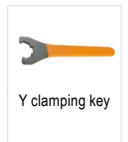
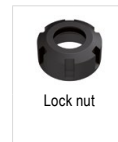
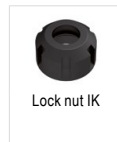
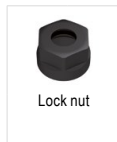
Includes lock nut



83 608 ...

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

1) with 6 position lock nut



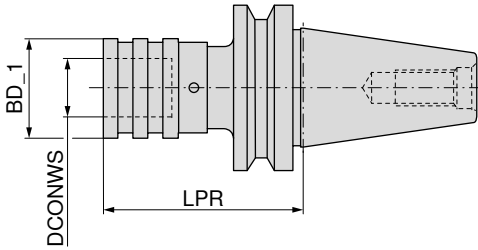
Article no.	62 950 ...	83 950 ...	62 950 ...	83 357 ...			
83 608 012	M22x1.5 - SW25	044	M22x1.5	054	M22x1.5	054	116
83 608 020			M32x1.5	055	M32x1.5	055	125

Spare parts for Article no.

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

Quick change tap chuck with length compensation

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



A

83 528 ...

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

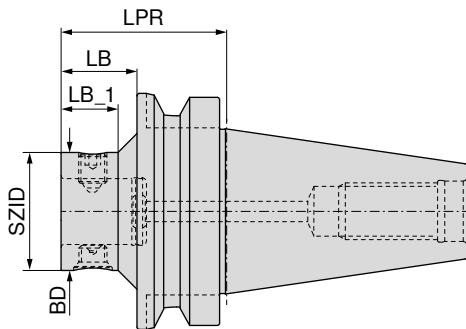
Collet	Pull studs	Others
195, 197-199	74-75	

Adapter with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

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



AD



AD/B

Adapter	KOMET no.	SZID	BD	LPR	LB	LB_1	84 202 ...		84 212 ...	
							inch	inch	inch	inch
BT 40	A55 00120	ABS 25	0.984	2.362	1.299	0.984		04090		
BT 40	A55 00130	ABS 32	1.260	2.362	1.299			04089		
BT 40	A55 00140	ABS 40	1.575	2.362	1.299			04088		
BT 40	A55 55150	ABS 50	1.969	2.362	1.299					04097
BT 40	A55 55160	ABS 63	2.480	2.756						04096
BT 50	A55 00330	ABS 32	1.260	2.756	1.260	0.945		05089		
BT 50	A55 00340	ABS 40	1.575	2.756	1.260	0.945		05088		
BT 50	A55 55350	ABS 50	1.969	2.756	1.260	0.945				05097
BT 50	A55 55360	ABS 63	2.480	3.150	1.654	1.457				05096
BT 50	A55 55370	ABS 80	3.150	3.937	2.441					05092
BT 50	A55 55380	ABS 100	3.937	4.331						05091

Conversion kit – Cooling agent supply



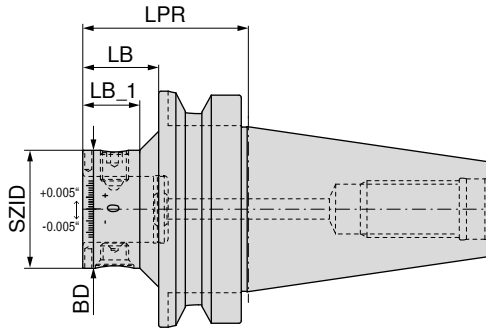
		84 950 ...
for	Adapter	
4 mm	SK 40 / BT 40	23200
6 mm	SK 50 / BT 50	23400

Eccentric adjuster with ABS Connection

- ▲ Adjustment ± 0.010 inch on diameter
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



AD



AD/B

Adapter	KOMET no.	SZID	BD inch	LPR inch	LB inch	LB_1 inch
BT 40	A55 56150	ABS 50	1.969	2.362	1.299	
BT 40	A55 56160	ABS 63	2.480	2.756		
BT 50	A55 56350	ABS 50	1.969	2.756	1.260	0.945
BT 50	A55 56360	ABS 63	2.480	3.150	1.654	1.457

84 205 ...

84 205 ...

04096

04097

05096

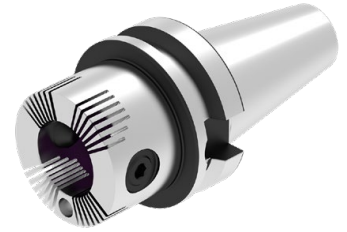
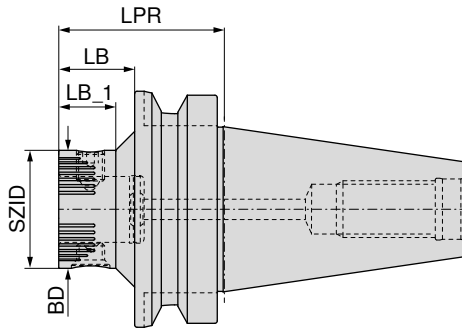
05097

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request

Scope of supply:

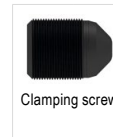
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc



AD/B

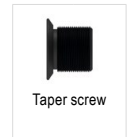
84 208 ...

Adapter	KOMET no.	SZID	BD inch	LPR inch	LB inch	LB_1 inch	
BT 40	A55 02150	ABS 50	1.969	2.362	1.299		04097
BT 40	A55 02160	ABS 63	2.480	2.756			04096
BT 50	A55 02350	ABS 50	1.969	2.756	1.260	0.945	05097
BT 50	A55 02360	ABS 63	2.480	3.150	1.654	1.457	05096



Clamping screw

84 950 ...



Taper screw

84 950 ...

Spare parts

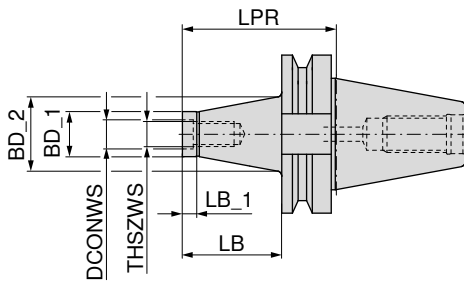
SZID

ABS 50	20300	20400
ABS 63	25500	27300

Pull studs	Extension	Others
74-75	152	

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6.3 n_{max} 18000

56 711 ...

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR
		inch	inch	inch	inch	inch	inch
BT 40	M8	0.335	0.984	0.543	0.591	0.472	2.047
BT 40	M8	0.335	1.969	0.543	0.906	0.472	3.032
BT 40	M8	0.335	2.953	0.543	0.984	0.472	4.016
BT 40	M10	0.413	0.984	0.709	0.906	0.472	2.047
BT 40	M10	0.413	1.969	0.709	0.984	0.472	3.032
BT 40	M10	0.413	2.953	0.709	1.181	0.472	4.016
BT 40	M12	0.492	0.984	0.827	0.945	0.472	2.047
BT 40	M12	0.492	1.969	0.827	1.181	0.472	3.032
BT 40	M12	0.492	2.953	0.827	1.378	0.472	4.016
BT 40	M12	0.492	3.937	0.827	1.496	0.472	5.000
BT 40	M16	0.669	0.984	1.142	1.142	0.472	2.047
BT 40	M16	0.669	1.969	1.142	1.339	0.472	3.032
BT 40	M16	0.669	2.953	1.142	1.378	0.472	4.016
BT 40	M16	0.669	3.937	1.142	1.575	0.472	5.000

081
082
083

101
102
103

121
122
123
124

161
162
163
164



Extension-Reduction set





Pull studs

74-75



Others

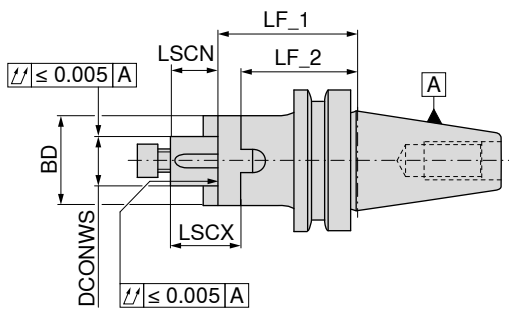


Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



A
G 2.5 n_{max} 25000

82 744 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm		
short	BT 30	16	45	32	27	17	35	11670	
	BT 30	22	47	40	31	19	35	12270	
	BT 30	27	49	46	33	21	37	12770	
	BT 40	16	55	32	27	17	45	11669	
	BT 40	22	55	40	31	19	43	12269	
	BT 40	27	55	48	33	21	43	12769	
	BT 40	32	60	58	38	24	46	13269	
	BT 40	40	60	70	41	27	46	14069 ¹⁾	
	BT 50	16	70	32	27	17	60	11668	
	BT 50	22	70	40	31	19	58	12268	
	BT 50	27	70	48	33	21	58	12768	
	BT 50	32	70	58	38	24	56	13268	
	BT 50	40	70	70	41	27	56	14068 ¹⁾	
	medium length	BT 30	16	80	32	27	17	70	21670
		BT 30	22	80	40	31	19	68	22270
BT 30		27	90	48	33	21	78	22770	
BT 40		16	100	32	27	17	90	21669	
BT 40		22	100	40	31	19	88	22269	
BT 40		27	100	48	33	21	88	22769	
BT 40		32	100	58	38	24	86	23269	
BT 40		40	100	70	41	27	86	24069 ¹⁾	

1) With cross screw



Parallel key



Drive ring



Cross nut key



Cross screw



clamping screw

83 950 ...

83 370 ...

83 368 ...

83 367 ...

83 950 ...

Spare parts

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

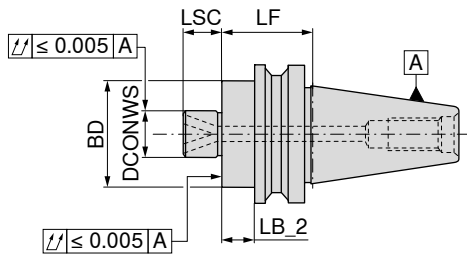
Pull studs	Milling Adapter Rings	Others
74-75	174	

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog

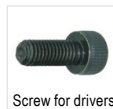


AD
G 2.5 n_{max} 25000

82 315 ...

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

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



Screw for drivers



Driver



clamping screw

83 950 ...

83 950 ...

83 950 ...

Spare parts

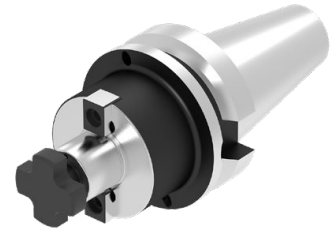
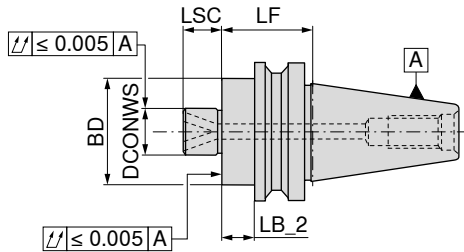
DCONWS						
22	M4x8	51700	10x7x20.5	51500	M10x25	124
27	M5x8	51800	12x9x24.3	51600	M12x30	125

Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



NEW



AD

G 2.5 n_{max} 25000

82 745 ...

NEW



AD/B

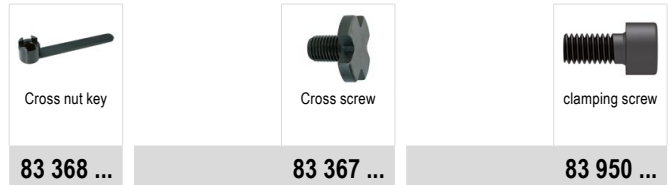
G 2.5 n_{max} 25000

82 745 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	BT 30	16	18	40	38	17		11670
	BT 30	22	18	40	48	19		12270
	BT 30	27	18	50	58	21		12770
	BT 30	32	28	50	78	24		13270
	BT 40	16	25	52	38	17		
	BT 40	22	25	52	48	19		11669
	BT 40	27	25	52	58	21		12269
	BT 40	32	23	50	78	24		12769
	BT 40	40	23	50	88	27		13269
	BT 40							14069 ¹⁾
	BT 50	16	25	63	38	17		11668
	BT 50	22	25	63	48	19		12268
	BT 50	27	25	63	58	21		12768
	BT 50	32	22	60	78	24		13268
	BT 50	40	22	60	88	27		14068 ¹⁾
medium length	BT 40	16	73	100	38	17		
	BT 40	22	73	100	48	19		21669
	BT 40	27	73	100	58	21		22269
	BT 40	32	73	100	78	24		22769
	BT 40	40	73	100	88	27		23269
	BT 40							24069 ¹⁾
	BT 50	16	62	100	38	17		21668
	BT 50	22	62	100	48	19		22268
	BT 50	27	62	100	58	21		22768
	BT 50	32	62	100	78	24		23268
long	BT 40	16	103	130	38	17		
	BT 40	22	103	130	48	19		31669
	BT 40	27	103	130	58	21		32269
	BT 40	32	103	130	78	24		32769
	BT 40	40	103	130	88	27		33269
	BT 40							34069 ¹⁾
	BT 50	16	92	130	38	17		31668
	BT 50	22	92	130	48	19		32268
	BT 50	27	92	130	58	21		32768
	BT 50	32	92	130	78	24		33268
BT 50	40	92	130	88	27		34068 ¹⁾	
extra-long	BT 40	16	133	160	38	17		
	BT 40	22	133	160	48	19		41669
	BT 40	27	133	160	58	21		42269
	BT 40	32	133	160	78	24		42769
	BT 40	40	133	160	88	27		43269
	BT 40							44069 ¹⁾
	BT 50	16	122	160	38	17		41668
	BT 50	22	122	160	48	19		42268
	BT 50	27	122	160	58	21		42768
	BT 50	32	122	160	78	24		43268
BT 50	40	122	160	88	27		44068 ¹⁾	

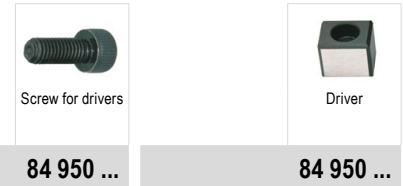
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters



**Spare parts
DCONWS**

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



**Spare parts
DCONWS**

16	M3x12	162	
22	M4x10	163	
27	M4x16	164	
32	M5x16	166	14x14x22.5
40	M5x16	166	16x16x23

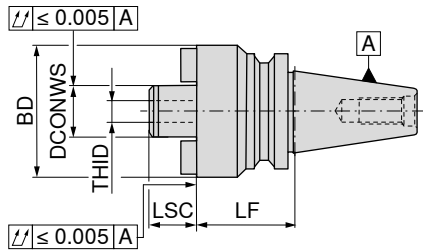


Large diameter facemill adapter

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

Scope of supply:

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



NEW



A
G 6.3 n_{max} 8000

82 432 ...

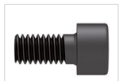
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	
BT 50	40	70	89	30	M20	14068
BT 50	60	80	129	40	M30	16068



Screw for drivers



Driver



clamping screw

84 950 ...

84 950 ...

83 950 ...

Spare parts

DCONWS

40	M5x16	166	16x16x23	161	M12x50	140
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Pull studs

74-75

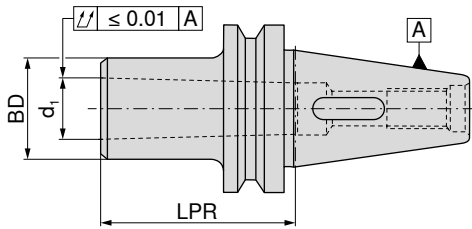


Others



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

▲ also available with Balluff chip on request



NEW



AD

G 6.3 n_{max} 12000

82 746 ...

Adapter	d ₁	LPR	BD	
		inch	inch	
BT 30	MK1	1.969	0.984	11070
BT 30	MK2	2.362	1.260	12070
BT 30	MK3	3.032	1.575	13070
BT 40	MK1	1.969	0.984	11069
BT 40	MK2	1.969	1.260	12069
BT 40	MK3	2.756	1.575	13069
BT 40	MK4	3.740	1.890	14069
BT 50	MK1	1.772	0.984	11068
BT 50	MK2	2.362	1.260	12068
BT 50	MK3	2.559	1.575	13068
BT 50	MK4	3.740	1.890	14068
BT 50	MK5	4.134	2.480	15068



Morse taper adapter sleeve

Pull studs

74-75

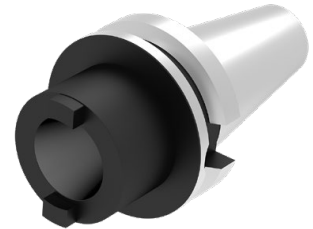
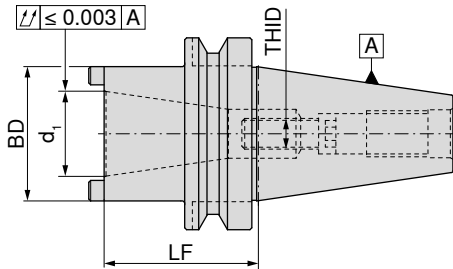
Others

Milling adapter sleeve

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

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



NEW



A
G 6.3 n_{max} 8000

84 040 ...

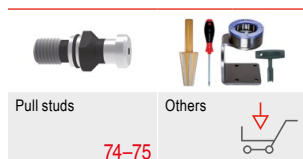
Adapter	d _i	LF inch	BD inch	THID	
BT 40	SK 30	2.362	2.008	M12	13069
BT 40	SK 40	3.937	2.480	M16	14069
BT 50	SK 40	3.150	2.756	M16	14068

			
Clamping screw SK	Hollow key with nose	Threaded ring	clamping screw
83 950 ...	83 359 ...	84 950 ...	83 950 ...
009	017	127	125

Spare parts
for Article no.
84 040 13069
84 040 14068

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

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

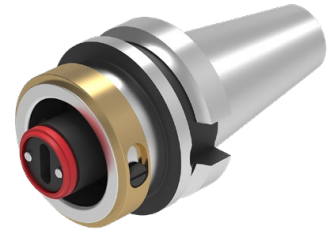
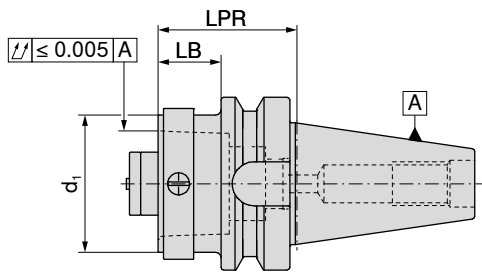


BT/HSK-A adapter

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

Scope of supply:

with clamping cartridge and cover ring



AD

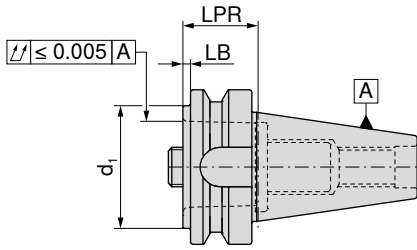
84 016 ...

Adapter	d ₁	LB inch	LPR inch	
BT 40	HSK-A 32	0.512	1.575	04060
BT 40	HSK-A 40	0.512	1.575	04059
BT 40	HSK-A 50	0.906	1.969	04058
BT 40	HSK-A 63	1.693	2.756	04057
BT 50	HSK-A 32	0.472	1.969	05060
BT 50	HSK-A 40	0.472	1.969	05059
BT 50	HSK-A 50	0.866	2.362	05058
BT 50	HSK-A 63	0.866	2.362	05057
BT 50	HSK-A 100	2.047	3.543	05055

BT/PSC adapter

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

Scope of supply:
with tightening screw



AD

84 017 ...

Adapter	d ₁	LB inch	LPR inch	
BT 40	PSC 32	0.118	1.181	04087
BT 40	PSC 40	0.118	1.181	04095
BT 40	PSC 50	0.118	1.181	04094
BT 40	PSC 63	2.283	3.346	04093
BT 50	PSC 32	0.079	1.575	05087
BT 50	PSC 40	0.079	1.575	05095
BT 50	PSC 50	0.079	1.575	05094
BT 50	PSC 63	0.079	1.575	05093
BT 50	PSC 80	1.260	2.756	05086



84 950 ...



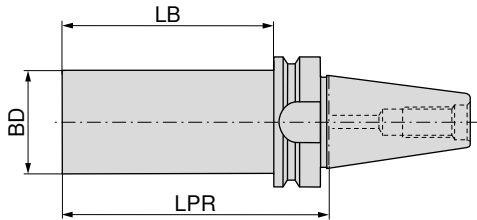
84 950 ...

Spare parts
d₁

PSC 32	127	SW8	122
PSC 40	128	SW8	123
PSC 50	129	SW10	124
PSC 63	130	SW14	126
PSC 80	130	SW14	126

Blank

- ▲ Material: Steel 1.7131
- ▲ for production of special tools
- ▲ Diameter BD turned with 0.5 mm oversize
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



NEW



AD/B

82 747 ...

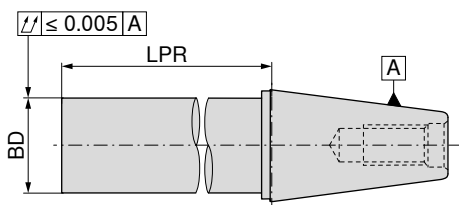
Adapter	BD inch	LPR inch	LB inch
BT 40	2.480	9.843	8.780
BT 50	2.500	11.811	10.315

16369

16368

Test bar

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



NEW

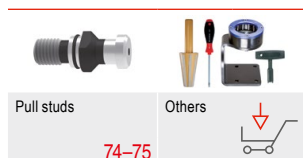


A

81 746 ...

Adapter	BD inch	LPR inch
SK / BT 40	1.575	12.598

14079

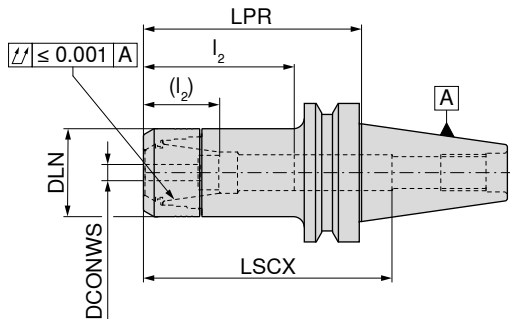


ER Precision Collet chuck – Centro-P – BT-FC

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

Scope of supply:

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



AD
G 2.5 n_{max} 25000

84 525 ...

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

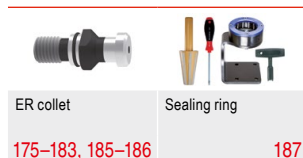
→ Transmittable torque moments, Page 211

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

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

Spare parts for Article no.

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

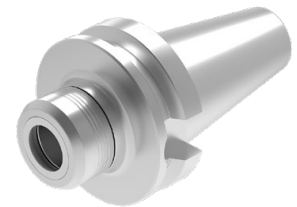
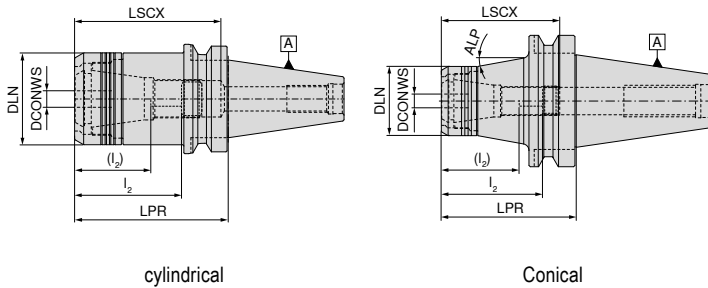


ER precision collet chuck – HDC – BT-FC

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

Scope of supply:

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



AD
G 6.3 n_{max} 18000

cylindrical



AD
G 6.3 n_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)

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

→ Transmittable torque moments, Page 211






LSCX = Clamping depth without backstop screw

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

Spare parts

DCONWS

2 - 20

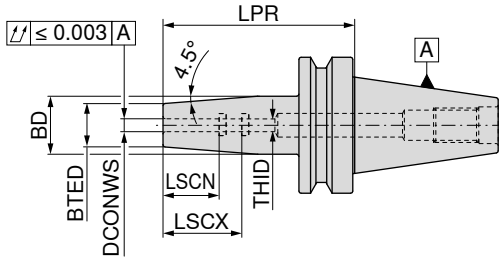
		
Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
30100	402	401

				
ER collet	Roll key	Roll key device	Pull studs	Others
175-183, 185-186	193	193	74-75	

Shrink fit adapters 4.5° – BT-FC

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

TG



AD

G 2.5 n_{max} 25000

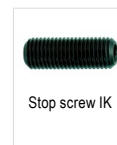


AD/B

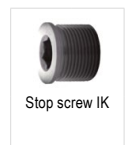
G 2.5 n_{max} 25000

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

→ Min. clamping depth, Page 210



Stop screw IK



Stop screw IK

Spare parts

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

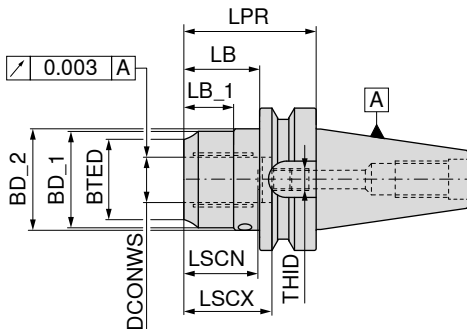
Shrink fit extension	Pull studs	Others	Others
171	74-75		

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2.5 n_{max} 25000

83 527 ...

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

→ Min. clamping depth, Page 210



Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

83 527 120	SW5	050	M10x1x10	158	M8x1x13.5 - SW3	420
83 527 13274	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
83 527 12073	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
83 527 13273	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424



Reduction sleeve

189



Pull studs

74–75

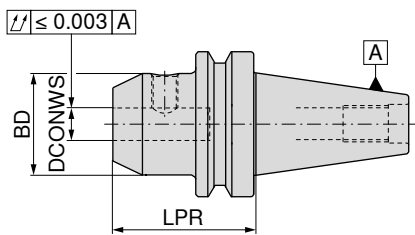


Others



Cylindrical shank adapter (Weldon) – BT-FC

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



AD
G 2.5 n_{max} 25000

84 552 ...

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

1) Version with two grub screws



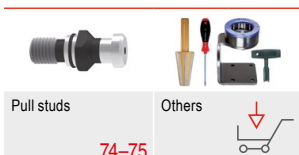
Set Screw

62 950 ...

Spare parts

DCONWS

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



Pull studs

Others

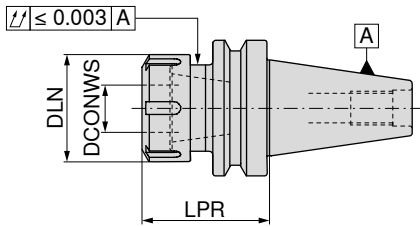
74-75

ER Collet chuck – BT-FC

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

Scope of supply:

Toolholder including nut

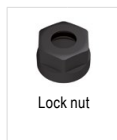


AD
G 2.5 n_{max} 20000

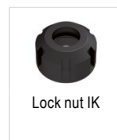
84 557 ...

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

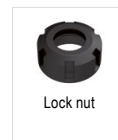
1) with 6 position lock nut



62 950 ...



83 950 ...



62 950 ...



83 357 ...

Spare parts for collet

426E (ER16) / BT30-BT50	M22x1.5 - SW25	044	M22x1.5	054		
430E (ER25) / BT30-BT50			M32x1.5	055	M32x1.5	055
470E (ER32) / BT30-BT50			M40x1.5	056		125
						132

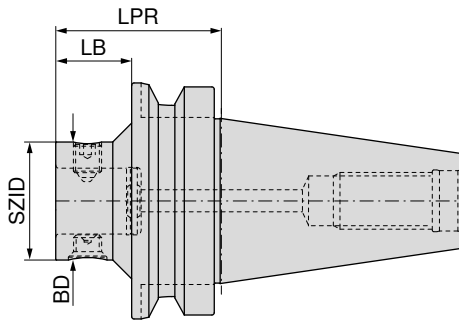
Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thru coolant lock nuts.

ER collet	Pull studs	Others
175-183, 185-186	74-75	

Adapter with ABS Connection – BT-FC

▲ with face contact

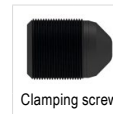
▲ also available with Balluff chip on request



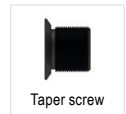
AD

84 264 ...

Adapter	SZID	BD inch	LPR inch	LB inch	
BT-FC 40	ABS 50	1.969	2.362	1.299	05064
BT-FC 40	ABS 63	2.480	2.756		06364
BT-FC 50	ABS 50	1.969	2.756	1.260	05063
BT-FC 50	ABS 63	2.480	3.150	1.654	06363
BT-FC 50	ABS 80	3.150	3.937	2.441	08063
BT-FC 50	ABS 100	3.937	4.331		10063



84 950 ...



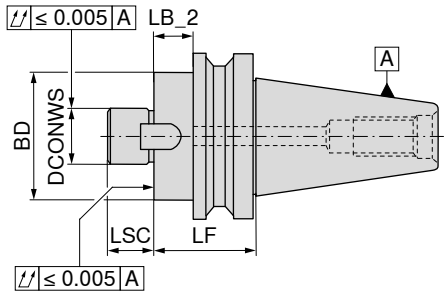
84 950 ...

Spare parts

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

Shell mill adapter – BT-FC

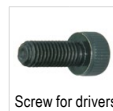
- ▲ with face contact
- ▲ with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- ▲ also available with Balluff chip **on request**



AD
G 6.3 n_{max} 15000

84 562 ...

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



Screw for drivers



Driver



clamping screw

84 950 ...

84 950 ...

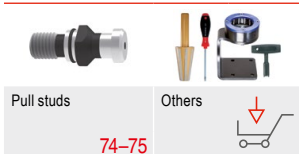
83 950 ...

Spare parts

DCONWS

DCONWS		84 950 ...		84 950 ...		83 950 ...
16	M3x12	162	8x9x11	157	M8x25	113
22	M4x10	163	10x11.2x13	158	M10x25	124
27	M4x16	164	12x12.6x15	159	M12x30	125
32	M5x16	165	14x14x22.5	160	M16x35	126
40	M5x16	166	16x16x23	161	M20x40 - SW17	112

Accessories



Pull studs

Others

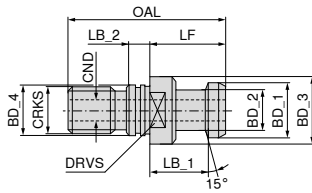
74-75

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:

including O-Ring



83 532 ...

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

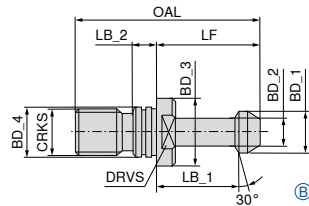
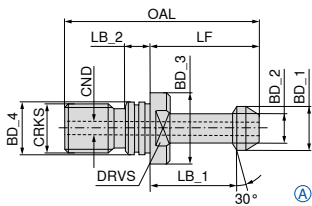
040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:

including O-Ring



82 533 ...

82 531 ...

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

030

040

050

030

040

050



O-Ring

83 476 ...

Spare parts

BD_4

17

BT / SK 40

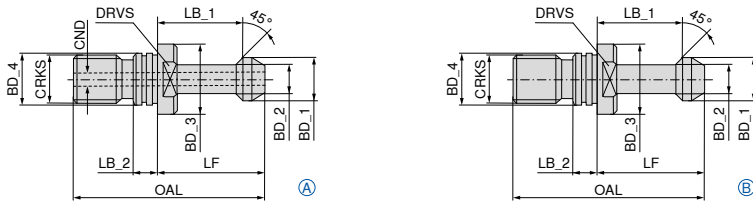
040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:

including O-Ring



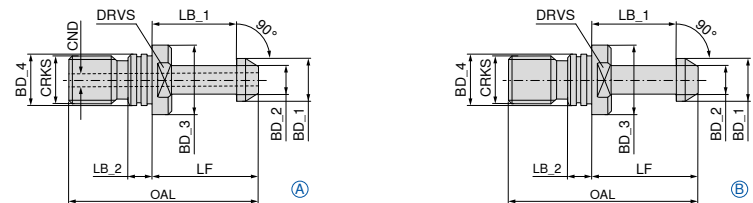
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	20	A				030
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	50	A				040
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	150	A				050
BT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

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:

including O-Ring



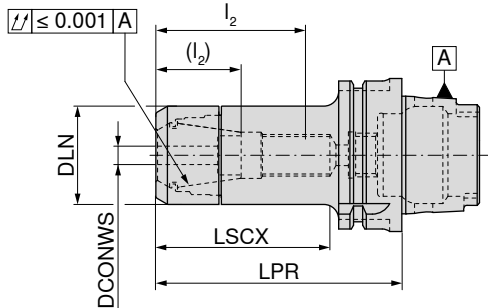
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
BT 40	15	10	23	17	M16	60	35	28	5.5	4	19	50	A				040
BT 50	23	17	38	25	M24	85	45	35	8.0	6	30	150	A				050
BT 40	15	10	23	17	M16	60	35	28	5.5		19	50	B		040		
BT 50	23	17	38	25	M24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

ER precision collet chuck – Centro-P

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

Scope of supply:

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



G 2.5 n_{max} 25000

84 722 ...

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

- 1) Item cannot be combined with backstop screw
- 2) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

→ Transmittable torque moments, Page 211

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

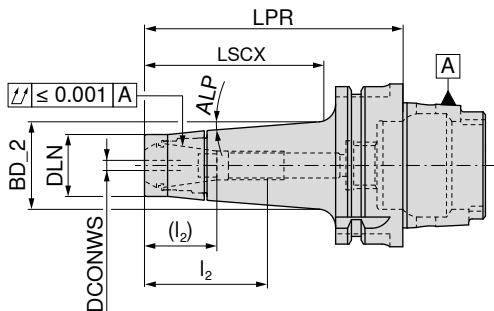
	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
426E (ER16)	011	001		
426E (ER16)	011	001	M11x1 - SW6	341
430E (ER25)	013	003	M18x1.5 - SW6	432
470E (ER32)	015	005	M22x1.5 - SW6	402
472E (ER40)	017	007	M22x1.5 - SW6	401
				400

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2.5 n_{max} 25000

84 721 ...

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

→ Transmittable torque moments, Page 211



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)

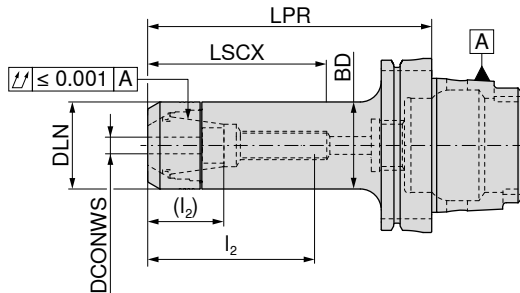
Tapered lock nut IK	Tapered lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...
033	031	341	337

ER precision collet chuck, slim – Centro-P

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

Scope of supply:

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



G 2.5 n_{max} 25000

84 719 ...

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

→ Transmittable torque moments, Page 211

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

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

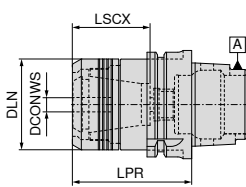
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
175-182, 186	187	192	193	193	120	

ER precision collet chuck – HDC

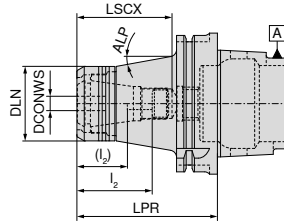
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip on request

Scope of supply:

Base body including lock nut, without backstop screw



cylindrical



Conical



G 6.3 n_{max} 18000

G 6.3 n_{max} 18000

cylindrical

conical

84 400 ...

84 400 ...

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

→ Transmittable torque moments, Page 211



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	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
30100	M22x1.5 - SW6	402
		M22x1.5 - SW6
		401

Spare parts

DCONWS

2 - 20

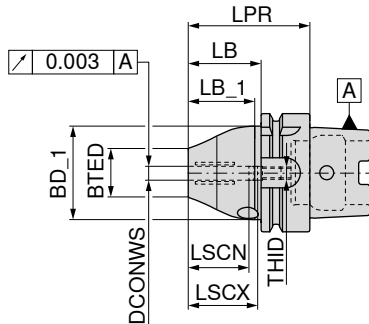
ER collet	Roll key	Roll key device	Others
175-183, 185-186	193	193	

HyPower – Rough

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2.5 n_{max} 25000

84 254 ...

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

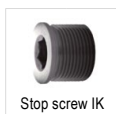
→ Min. clamping depth, Page 210



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS					
6	SW5	050	M10x12	55000	M5x12.5 - SW2.5 418
8	SW5	050	M10x12	55000	M6x12.5 - SW3 419
10	SW5	050	M10x12	55000	M8x1x13.5 - SW3 420
12	SW5	050	M10x12	55000	M8x1x13.5 - SW3 420
16	SW5	050	M10x12	55000	M8x1x13.5 - SW3 420
20	SW5	050	M10x12	55000	M8x1x13.5 - SW3 420

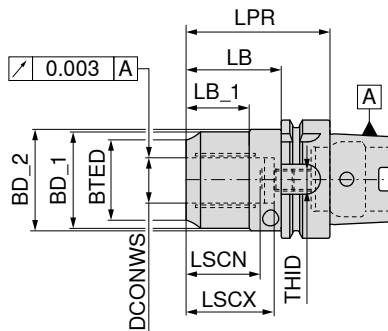
Reduction sleeve	Coolant transfer pipe	Others
189	120	

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



NEW



AD
G 2.5 n_{max} 25000

83 722 ...

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

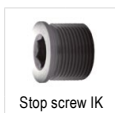
→ Min. clamping depth, Page 210



Clamping key - T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts for Article no.

83 722 120	SW5	050	M10x1x10	158	M8x1x13.5 - SW3	420
83 722 13257	SW5	050	M10x1x10	158	M16x1x13.5 - SW8	424
83 722 12055	SW5	050	M10x1x10	158	M8x1x13.5 - SW3	420
83 722 13255	SW5	050	M10x1x10	158	M8x1x13.5 - SW3	420



Reduction sleeve

189



Coolant transfer pipe

120



Others

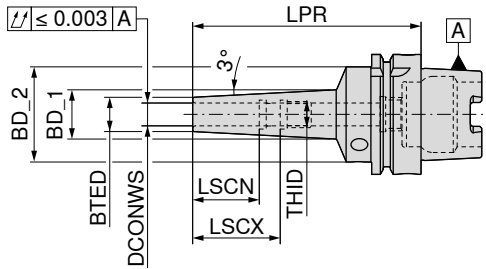


HyPower – Access 3°

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2.5 n_{max} 25000

83 727 ...

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

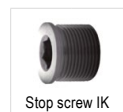
→ Min. clamping depth, Page 210



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

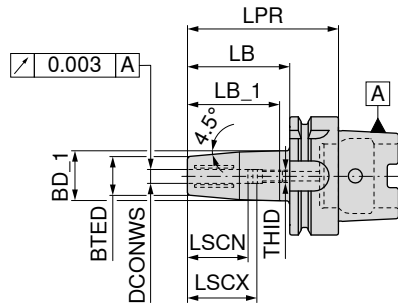
DCONWS						
3	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
4	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
5	SW5	050	M10x1x10	158	M3x20 - SW1.5	172
6	SW5	050	M10x1x10	158	M5x12.5 - SW2.5	418
6	SW5	050	M10x1x10	158	M6x12.5 - SW3	419
8	SW5	050	M10x1x10	158	M6x12.5 - SW3	419
10	SW5	050	M10x1x12	159	M8x1x13.5 - SW3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

HyPower – Access 4.5°

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2.5 n_{max} 25000

84 255 ...

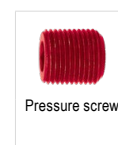
Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID	
HSK-A 63	6	80	21	27	48.9	54	37	27	M5	10657
HSK-A 63	8	80	21	27	48.9	54	37	27	M6	10857
HSK-A 63	10	85	24	32	53.7	59	41	31	M8x1	11057
HSK-A 63	12	90	24	32	58.6	64	46	36	M10x1	11257
HSK-A 63	16	95	27	34	63.1	69	49	39	M12x1	11657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

→ Min. clamping depth, Page 210



Clamping key – T

80 397 ...



Pressure screw

83 950 ...



Stop screw IK

83 950 ...

Spare parts for Article no.

84 255 10657	SW5	050	M10x10	55100	M5x12.5 - SW2.5	418
84 255 10857	SW5	050	M10x10	55100	M6x12.5 - SW3	419
84 255 11057	SW5	050	M10x10	55100	M8x1x13.5 - SW3	420
84 255 11257	SW5	050	M10x10	55100	M10x1x13.5 - SW5	421
84 255 11657	SW5	050	M10x10	55100	M12x1x13.5 - SW5	422
84 255 12057	SW5	050	M10x10	55100	M16x1x13.5 - SW5	423
84 255 10655	SW5	050	M10x10	55100	M5x12.5 - SW2.5	418
84 255 10855	SW5	050	M10x12	55000	M6x12.5 - SW3	419
84 255 11055	SW5	050	M10x12	55000	M8x1x13.5 - SW3	420
84 255 11255	SW5	050	M10x12	55000	M10x1x13.5 - SW5	421
84 255 11655	SW5	050	M10x12	55000	M12x1x13.5 - SW5	422
84 255 12055	SW5	050	M10x12	55000	M16x1x13.5 - SW5	423

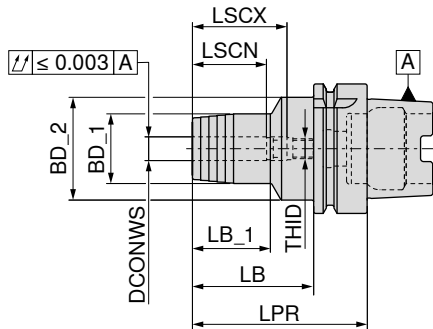
Reduction sleeve	Coolant transfer pipe	Others
189	120	

HyTens – Fit

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2.5 n_{max} 25000

83 726 ...

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

→ Min. clamping depth, Page 210

Version for MMS hydraulic chuck – 1 and 2-channel



83 432 HSK-63 1-channel

83 432 HSK-100 1-channel



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



83 433 HSK-63 2-channel

83 433 HSK-100 2-channel



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

Spare parts HyTens – Fit



Pressure screw



Stop screw IK

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



Reduction sleeve

189



Coolant transfer pipe

120



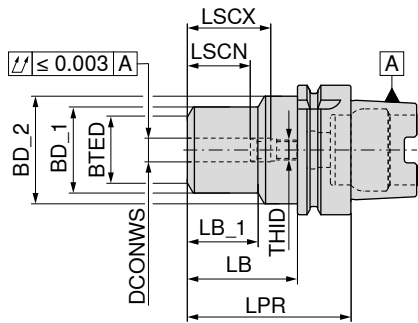
Others

HyTens – Compact

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2.5 n_{max} 25000

83 430 ...

Adapter	DCONWS	LPR	BD_1	BD_2	BTED	LB	LB_1	LSCN	LSCX	THID	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
HSK-A 63	12	80	42	52.5	32	54	34	36	46	M8x1	01257
HSK-A 63	20	80	49	52.5	38	54	36	41	51	M8x1	02057
HSK-A 100	12	85	42	52.5	32	51	34	36	46	M8x1	01255
HSK-A 100	20	85	49	52.5	38	51	36	41	51	M8x1	02055

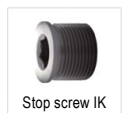
→ Min. clamping depth, Page 210



Clamping key – T



Pressure screw



Stop screw IK

80 397 ...

83 950 ...

83 950 ...

Spare parts

DCONWS

12 - 20

SW5

050

M10x1x12

440

M8x1x13.5 - SW3

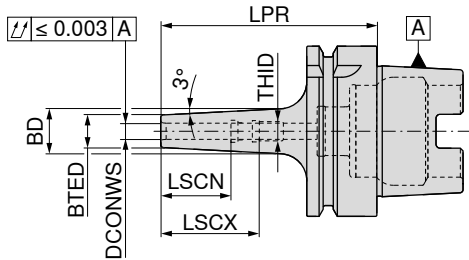
420

Reduction sleeve	Coolant transfer pipe	Others
189	120	

Shrink adapter, slim 3°

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

TG

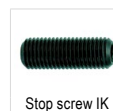


G 2.5 n_{max} 25000

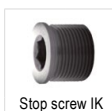
84 324 ...

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

→ Min. clamping depth, Page 210



Stop screw IK



Stop screw IK

83 950 ...

83 950 ...

Spare parts

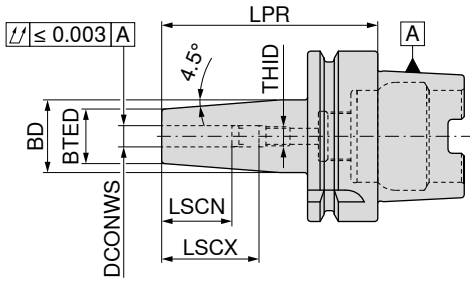
DCONWS

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

Shrink fit adapters 4.5°

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

TG



G 2.5 n_{max} 25000

84 304 ...

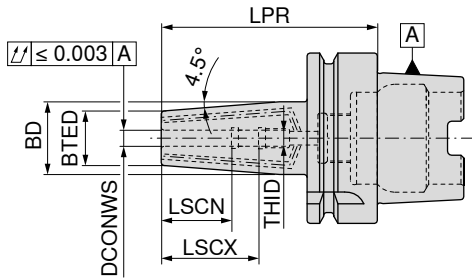
	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	
		mm	mm	mm	mm	mm	mm		
short	HSK-A 63	3	80	10	15	22	12	M6	103
	HSK-A 63	4	80	15	22	26	16	M6	104
	HSK-A 63	5	80	15	22	30	20	M6	105
	HSK-A 63	6	80	21	27	36	26	M5	106
	HSK-A 63	8	80	21	27	36	26	M6	108
	HSK-A 63	10	85	24	32	41	31	M8x1	110
	HSK-A 63	12	90	24	32	47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

→ Min. clamping depth, Page 210

Shrink fit adapters 4.5°

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

TG

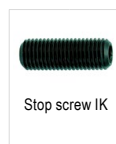


G 2.5 n_{max} 25000

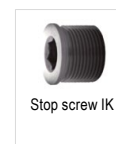
84 316 ...

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

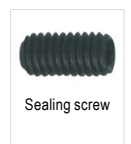
→ Min. clamping depth, Page 210



Stop screw IK



Stop screw IK



Sealing screw

83 950 ...

83 950 ...

83 950 ...

Spare parts

DCONWS

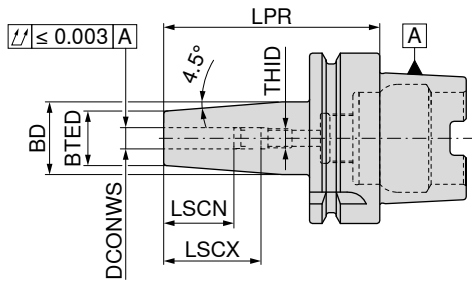
3 - 5	M6x14 - SW2	417	M2x6	512
6			M5x12.5 - SW2.5	418
8			M6x12.5 - SW3	419
10			M8x1x13.5 - SW3	420
12 - 14			M10x1x13.5 - SW5	421
16 - 18	M12x1 - SW5	510	M2x6	512
20 - 32	M16x1 - SW5	511	M2x6	512

Shrink fit extension	Coolant transfer pipe	Others
171	120	

Shrink fit adapters 4.5°

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

TG



G 2.5 n_{max} 25000

84 305 ...

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

→ Min. clamping depth, Page 210

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



TG

84 318

HSK-63

1-channel



84 318

HSK-100

1-channel



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



TG

84 319

HSK-63

2-channel



84 319

HSK-100

2-channel



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

Spare parts heat shrink adapter 4.5°



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

		
Shrink fit extension	Coolant transfer pipe	Others
171	120	

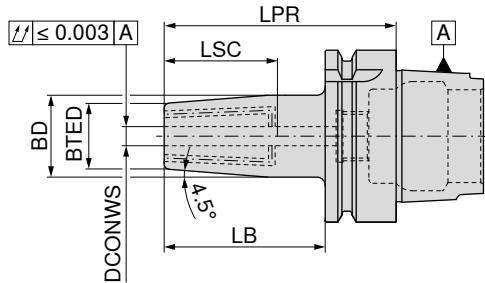
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



G 2.5 n_{max} 25000

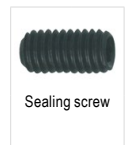
84 717 ...

	Adapter	Dimensions (mm)						Part No.
		DCONWS	LPR	BTED	BD	LB	LSC	
short	HSK-A 63	6	80	21	26	54	36.5	606
	HSK-A 63	8	80	21	26	54	36.5	608
	HSK-A 63	10	85	24	30	59	41.5	610
	HSK-A 63	12	90	24	30	64	46.5	612
	HSK-A 63	14	90	27	34	64	46.5	614
	HSK-A 63	16	95	27	34	69	49.5	616
	HSK-A 63	18	95	33	41	69	49.5	618
	HSK-A 63	20	100	33	41	74	51.5	620
	HSK-A 63	25	115	44	52	89	57.5	625
	HSK-A 63	32	120	44	52	94	61.5	632
	HSK-A 100	6	85	21	26	56	36.5	106
	HSK-A 100	8	85	21	26	56	36.5	108
	HSK-A 100	10	90	24	30	56	41.5	110
	HSK-A 100	12	95	24	30	66	46.5	112
	HSK-A 100	14	95	27	34	66	46.5	114
	HSK-A 100	16	100	27	34	71	49.5	116
	HSK-A 100	18	100	33	42	71	49.5	118
	HSK-A 100	20	105	33	42	76	51.5	120
	HSK-A 100	25	115	44	53	86	57.5	125
	HSK-A 100	32	120	44	53	91	61.5	132

→ Min. clamping depth, Page 210



Stop screw IK



Sealing screw

62 950 ...

62 950 ...

Spare parts

DCONWS

DCONWS	Thread	Part No.	Thread	Part No.
6	M5x0.8x14	402	M3x6	411
8	M6x1x16	403	M3x6	411
10	M8x1x20	404	M3x6	411
12 - 18	M10x1x20	405	M3x6	411
20 - 32	M12x1x20	406	M4x8	412

Sealing screw for closing of two additional coolant holes.

Shrink fit extension	Coolant transfer pipe	Others
171	120	

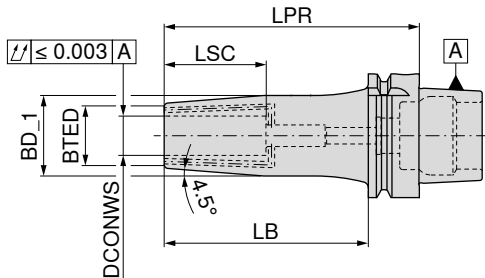
Shrink fit adapters 4.5°

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

Scope of supply:

Holder with adjustable back stop

TG



G 2.5 n_{max} 25000

G 2.5 n_{max} 25000

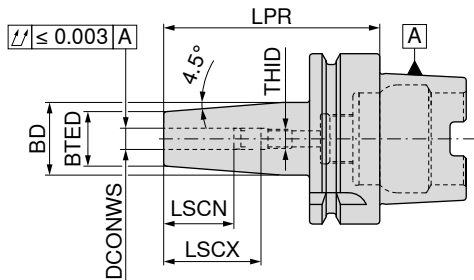
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2.5 n _{max} 25000	
								84 720 ...	84 723 ...
long	HSK-A 63	6	130	21	27	104	36.5	606	
	HSK-A 63	8	130	21	27	104	36.5	608	
	HSK-A 63	10	130	24	32	104	41.5	610	
	HSK-A 63	12	130	24	32	104	46.5	612	
	HSK-A 63	14	130	27	34	104	46.5	614	
	HSK-A 63	16	130	27	34	104	49.5	616	
	HSK-A 63	18	130	33	41	104	49.5	618	
	HSK-A 63	20	130	33	41	104	51.5	620	
	HSK-A 100	6	130	21	27	101	36.5	106	
	HSK-A 100	8	130	21	27	101	36.5	108	
	HSK-A 100	10	130	24	32	101	41.5	110	
	HSK-A 100	12	130	24	32	101	46.5	112	
	HSK-A 100	14	130	27	34	101	46.5	114	
	HSK-A 100	16	130	27	34	101	49.5	116	
	HSK-A 100	18	130	33	41	101	49.5	118	
	HSK-A 100	20	130	33	41	101	51.5	120	
extra-long	HSK-A 63	6	160	21	27	134	36.5		606
	HSK-A 63	8	160	21	27	134	36.5		608
	HSK-A 63	10	160	24	32	134	41.5		610
	HSK-A 63	12	160	24	32	134	46.5		612
	HSK-A 63	14	160	27	34	134	46.5		614
	HSK-A 63	16	160	27	34	134	49.5		616
	HSK-A 63	18	160	33	41	134	49.5		618
	HSK-A 63	20	160	33	41	134	51.5		620
	HSK-A 63	25	160	44	52	134	57.5		625
	HSK-A 100	6	160	21	27	131	36.5		106
	HSK-A 100	8	160	21	27	131	36.5		108
	HSK-A 100	10	160	24	32	131	41.5		110
	HSK-A 100	12	160	24	32	131	46.5		112
	HSK-A 100	14	160	27	34	131	46.5		114
	HSK-A 100	16	160	27	34	131	49.5		116
	HSK-A 100	18	160	33	41	131	49.5		118
HSK-A 100	20	160	33	41	131	51.5		120	
HSK-A 100	25	160	44	53	131	57.5		125	
HSK-A 100	32	160	44	53	131	61.5		132	

→ Min. clamping depth, Page 210

Shrink fit adapters 4.5°

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

TG



G 2.5 n_{max} 25000

82 310 ...

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

→ Min. clamping depth, Page 210



82 950 ...

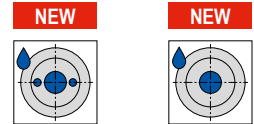
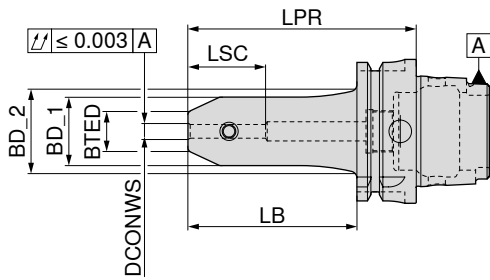
Spare parts

DCONWS

3 - 5	M6x16 - SW3	30100
6	M5x16 - SW2.5	30000
8	M6x16 - SW3	30100
10	M8x1x16 - SW4	30200
12 - 14	M10x1x16 - SW5	30300
20 - 32	M16x1x16 - SW8	30500

Cylindrical shank adapter (Weldon)

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



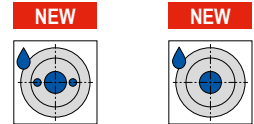
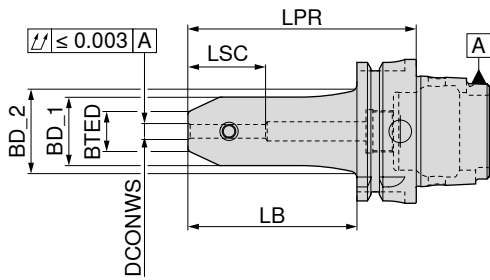
G 2.5 n_{max} 25000 G 2.5 n_{max} 25000

	Adapter	DCONWS _{H5}		LPR	BTED	BD_1	BD_2	LB	LSC	82 740 ...		82 741 ...	
		mm	mm										
short	HSK-A 63	6	65	17	30			39	34	10657		10657	
	HSK-A 63	8	65	20	32			39	34			10857	
	HSK-A 63	8	65	20	32			39	34	10857			
	HSK-A 63	10	65	25	35			39	39	11057		11057	
	HSK-A 63	12	80	30	42			54	44	11257		11257	
	HSK-A 63	14	80	32	45			54	44	11457		11457	
	HSK-A 63	16	80	36	48			54	47	11657		11657	
	HSK-A 63	18	80	38	48			54	47	11857		11857	
	HSK-A 63	20	80	40	52			54	49	12057		12057	
	HSK-A 63	25	110	45	63			84	54	12557 ¹⁾		12557 ¹⁾	
	HSK-A 63	32	110	52	72			84	58	13257 ¹⁾		13257 ¹⁾	
	HSK-A 100	6	80	17	30			51	34	10655		10655	
	HSK-A 100	8	80	20	32			51	34	10855		10855	
	HSK-A 100	10	80	25	35			51	39	11055		11055	
	HSK-A 100	12	80	30	42			51	44	11255		11255	
	HSK-A 100	14	80	32	45			51	44	11455		11455	
	HSK-A 100	16	100	36	48			71	47	11655		11655	
	HSK-A 100	18	100	38	48			71	47	11855		11855	
	HSK-A 100	20	100	40	52			71	49	12055		12055	
	HSK-A 100	25	100	45	65			71	54	12555 ¹⁾		12555 ¹⁾	
	HSK-A 100	32	100	52	72			71	58	13255 ¹⁾		13255 ¹⁾	
	HSK-A 100	40	110	60	80			81	68	14055 ¹⁾		14055 ¹⁾	
medium length	HSK-A 63	6	100	17	30	36.2		74	34	20657		20657	
	HSK-A 63	8	100	20	32	38.2		74	34	20857		20857	
	HSK-A 63	10	100	25	35	41.2		74	39	21057		21057	
	HSK-A 63	12	100	30	42			74	44	21257		21257	
	HSK-A 63	14	100	32	45			74	44	21457		21457	
	HSK-A 63	16	100	36	48			74	47	21657		21657	
	HSK-A 63	18	100	38	48			74	47	21857		21857	
	HSK-A 63	20	100	40	52			74	49	22057		22057	
long	HSK-A 63	6	130	17	30	36.2		104	34	30657		30657	
	HSK-A 63	8	130	20	32	38.2		104	34	30857		30857	
	HSK-A 63	10	130	25	35	41.2		104	39	31057		31057	
	HSK-A 63	12	130	30	42	48.2		104	44	31257		31257	
	HSK-A 63	14	130	32	45	50.5		104	44	31457		31457	
	HSK-A 63	16	130	36	48	50.1		104	47	31657		31657	
	HSK-A 63	18	130	38	48	50.1		104	47	31857		31857	
	HSK-A 63	20	130	40	52			104	49	32057		32057	
	HSK-A 63	25	130	45	63			104	54	32557 ¹⁾		32557 ¹⁾	
	HSK-A 63	32	130	52	72			104	58	33257 ¹⁾		33257 ¹⁾	

1) Version with two grub screws

Cylindrical shank adapter (Weldon)

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



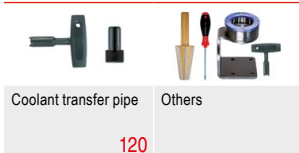
G 2.5 n_{max} 25000 G 2.5 n_{max} 25000

	Adapter	DCONWS _{H5}		LPR	BTED	BD_1	BD_2	LB	LSC	G 2.5 n _{max} 25000	
		mm	mm							82 740 ...	82 741 ...
extra-long	HSK-A 63	6	160	17	30	36.2	134	34		40657	40657
	HSK-A 63	8	160	20	32	38.2	134	34		40857	40857
	HSK-A 63	10	160	25	35	41.2	134	39		41057	41057
	HSK-A 63	12	160	30	42	48.2	134	44		41257	41257
	HSK-A 63	14	160	32	45	50.5	134	44		41457	41457
	HSK-A 63	16	160	36	48	50.1	134	47		41657	41657
	HSK-A 63	18	160	38	48	50.1	134	47		41857	41857
	HSK-A 63	20	160	40	52		134	49		42057	42057
	HSK-A 63	25	160	45	63		134	54		42557 ¹⁾	42557 ¹⁾
	HSK-A 100	6	160	17	30	38.2	131	34		40655	40655
	HSK-A 100	8	160	20	32	40.2	131	34		40855	40855
	HSK-A 100	10	160	25	35	43.2	131	39		41055	41055
	HSK-A 100	12	160	30	42	50.2	131	44		41255	41255
	HSK-A 100	14	160	32	45	53.2	131	44		41455	41455
	HSK-A 100	16	160	36	48	56.2	131	47		41655	41655
	HSK-A 100	18	160	38	48	56.2	131	47		41855	41855
	HSK-A 100	20	160	40	52	60.2	131	49		42055	42055
	HSK-A 100	25	160	45	65	73.2	131	54		42555 ¹⁾	42555 ¹⁾
	HSK-A 100	32	160	52	72	79.5	134	58		43255 ¹⁾	43255 ¹⁾

1) Version with two grub screws

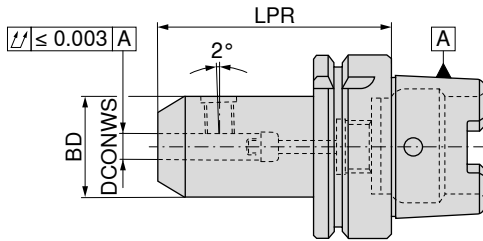


The M3 screws with WAF 1.5 mm supplied can be used to seal the two additional coolant holes.



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 2.5 n_{max} 25000

82 742 ...

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

1) Version with two grub screws



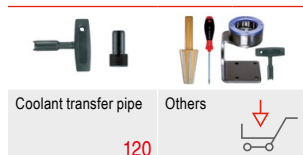
Set Screw

62 950 ...

Spare parts

DCONWS

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



Coolant transfer pipe

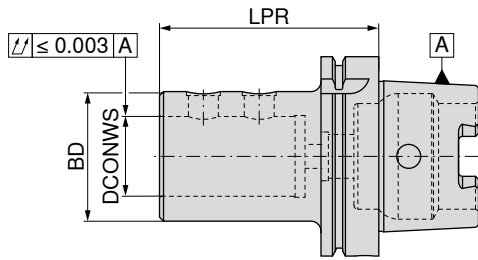
Others

120



Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip on request



G 6.3 n_{max} 15000

10 842 ...

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

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling**, of the metric eCatalog 2024 and in the online shop at cuttingtools.ceratizit.com



Set Screw

10 950 ...

Spare parts

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

Accessories

Coolant transfer pipe

Others

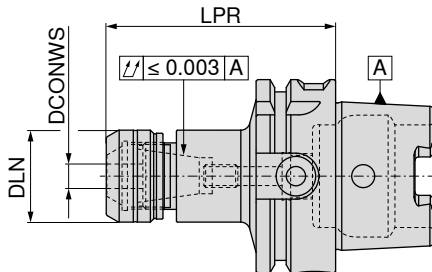
120

ER Precision Collet chuck – PCC

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

Scope of supply:

Base body with lock nut and backstop screw



G 2.5 n_{max} 25000

82 700 ...

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



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

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

Accessories

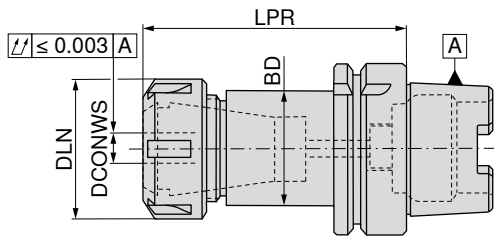
ER collet	Sealing ring	Roll key
175–183, 185–186	188	193

ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2.5 n_{max} 25000

82 743 ...

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



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

Spare parts ER collet chucks

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

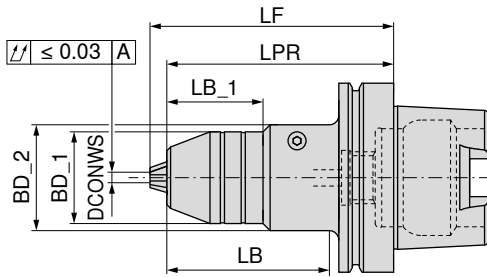
ER collet	Coolant transfer pipe	Others
175–183, 186	120	

Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4



G 6.3 n_{max} 10000

84 716 ...

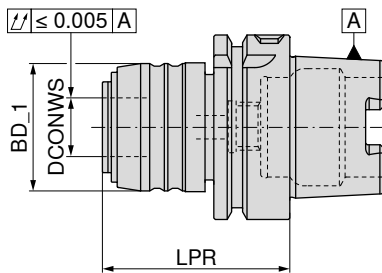
Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	
HSK-A 63	0.5 - 13	48.5	56	50.9		126.0	116.9	613
HSK-A 63	2.5 - 16	51.0	56	50.9		127.5	116.9	616
HSK-A 100	0.5 - 13	48.5	56	50.9	86	129.0	120.0	113
HSK-A 100	2.5 - 16	51.0	56	50.9	86	130.5	120.0	116

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



Synchro tapping chuck with minimum length compensation

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



83 724 ...

Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm
HSK-A 63	M3 - M12	1	20	64	43	1.0 / 0.2
HSK-A 63	M6 - M20	2	32	97	60	1.0 / 0.2
HSK-A 100	M3 - M12	1	20	70	43	1.0 / 0.2
HSK-A 100	M6 - M20	2	32	91	60	1.0 / 0.2

612

620

112

120

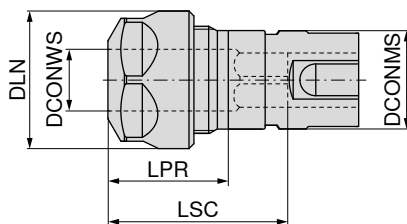


Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

012 ¹⁾

020

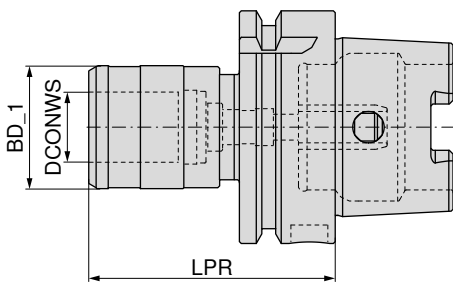
1) with 6 position lock nut

Spare parts for synchronous tapping chucks

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

Quick change tap chuck with length compensation

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

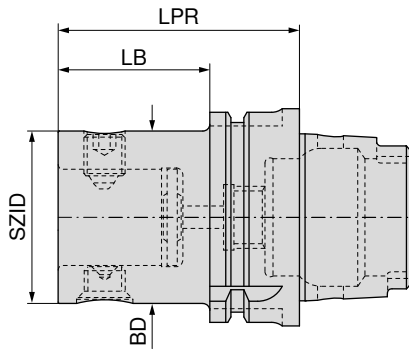


Adapter	SZID	LPR	BD_1	DCONWS	LZD±	83 712 ...
		mm	mm	mm	mm	
HSK-A 63	01	72	41	19	7.5	612
HSK-A 63	02	110	60	31	10	620
HSK-A 100	01	80	41	19	7.5	112
HSK-A 100	02	100	60	31	10	120

Collet	Coolant transfer pipe	Others
195, 197-199		120

Adapter with ABS Connection

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



G 6.3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	
			inch	inch	inch	
HSK-A 63	A06 30120	ABS 25	0.984	1.969	0.945	06390
HSK-A 63	A06 30130	ABS 32	1.260	1.969	0.945	06389
HSK-A 63	A06 30140	ABS 40	1.575	2.362	1.339	06388
HSK-A 63	A06 30150	ABS 50	1.969	2.756	1.732	06397
HSK-A 63	A06 30160	ABS 63	2.480	3.150	2.126	06396
HSK-A 63	A06 30170	ABS 80	3.150	3.937	2.913	06392
HSK-A 100	A06 50120	ABS 25	0.984	2.362	1.220	10090
HSK-A 100	A06 50130	ABS 32	1.260	2.362	1.220	10089
HSK-A 100	A06 50140	ABS 40	1.575	3.150	2.008	10088
HSK-A 100	A06 50150	ABS 50	1.969	3.150	2.008	10097
HSK-A 100	A06 50160	ABS 63	2.480	3.150	2.008	10096
HSK-A 100	A06 50170	ABS 80	3.150	3.543	2.402	10092
HSK-A 100	A06 50180	ABS 100	3.937	3.937	2.795	10091

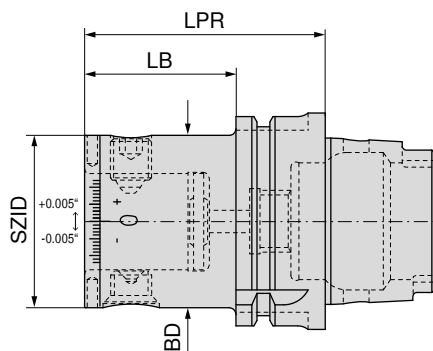
Eccentric adjuster with ABS Connection

▲ Adjustment ±0.010 inch on diameter

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

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm

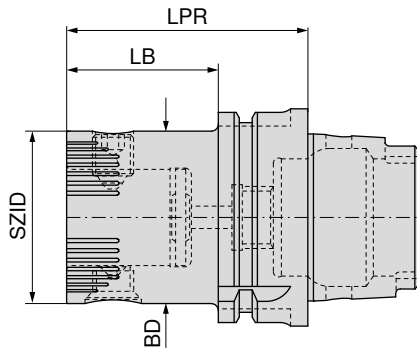


84 203 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	
			inch	inch	inch	
HSK-A 63	A06 36730	ABS 50	1.969	2.756	1.555	06397
HSK-A 100	A06 56730	ABS 50	1.969	2.972	1.831	10097
HSK-A 100	A06 56740	ABS 63	2.480	3.150	2.008	10096

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip on request



Adapter	KOMET no.	SZID	BD	LPR	LB
			inch	inch	inch
HSK-A 63	A06 30251	ABS 50	1.969	2.756	1.732
HSK-A 63	A06 30261	ABS 63	2.480	3.150	2.126
HSK-A 63	A06 30270	ABS 80	3.150	3.937	2.913
HSK-A 100	A06 50251	ABS 50	1.969	3.150	2.008
HSK-A 100	A06 50261	ABS 63	2.480	3.150	2.008
HSK-A 100	A06 50270	ABS 80	3.150	3.543	2.402

84 206 ...

06397
06396
06392

10097
10096
10092

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

Spare parts

SZID

ABS 50
ABS 63
ABS 80



Coolant transfer pipe

Extension

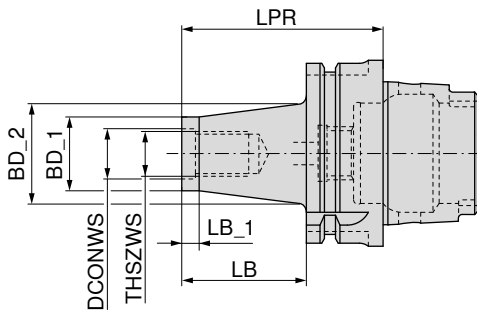
Others

120

152

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2.5 n_{max} 30000

56 714 ...

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



Extension-Reduction set

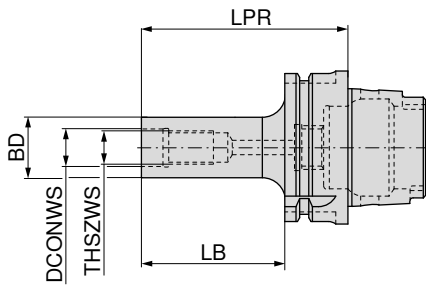
Coolant transfer pipe

Others

120

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2.5 n_{max} 25000

56 719 ...

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



Extension-Reduction set



Coolant transfer pipe



Others



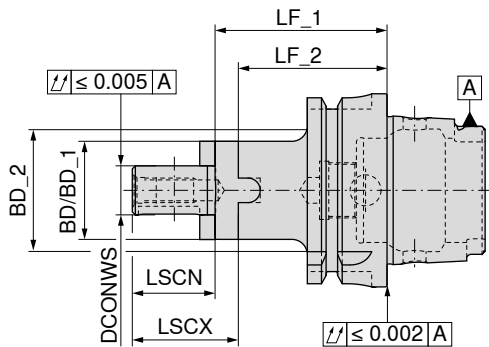
120

Combination shell mill adapter

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

Scope of supply:

Toolholder with clamping screw, driving ring and dowel spring



G 2.5 n_{max} 25000

82 744 ...

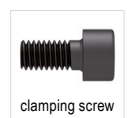
	Adapter	DCONWS	LF_1	LF_2	BD	BD_1	BD_2	LSCX	LSCN	BHTA	
		mm	mm	mm	mm	mm	mm	mm	mm		
short	HSK-A 63	16	60	50	32			27	17		11657
	HSK-A 63	22	60	48	40			31	19		12257
	HSK-A 63	27	60	48	48			33	21		12757
	HSK-A 63	32	60	46	58			38	24		13257
	HSK-A 63	40	70	56	70			41	27		14057
	HSK-A 100	16	60	50	32			27	17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



Parallel key



Drive ring



clamping screw

83 950 ...

83 370 ...

83 950 ...

Spare parts

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

Milling Adapter Rings
174

Coolant transfer pipe
120

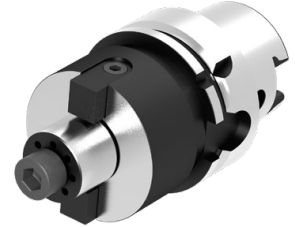
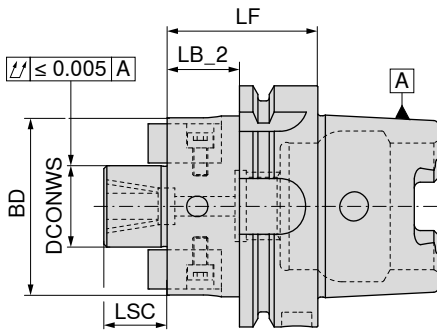
Others

Shell mill adapter with reduced flange diameter

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

Scope of supply:

Base body with retaining screw and drive dog

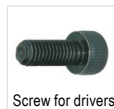


G 2.5 n_{max} 25000

82 315 ...

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

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



Screw for drivers



Driver



clamping screw

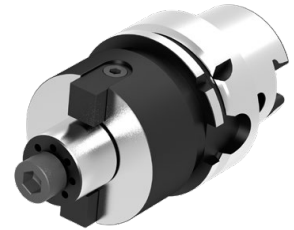
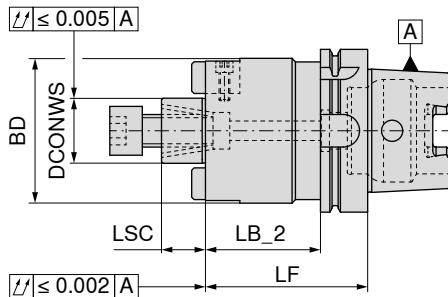
Spare parts			83 950 ...		83 950 ...		83 950 ...
DCONWS							
22	M4x8	51700	10x7x20.5	51500	M10x25	124	
27	M5x8	51800	12x9x24.3	51600	M12x30	125	

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw and drive dogs








G 2.5 n_{max} 25000

82 745 ...

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm	
short	HSK-A 63	16	34	60	38			17	11657
	HSK-A 63	22	34	60	48			19	12257
	HSK-A 63	27	34	60	58			21	12757
	HSK-A 63	32	34	60	78			24	13257
	HSK-A 63	40	34	70	88			27	14057 ¹⁾
	HSK-A 100	16	31	60	38			17	11655
	HSK-A 100	22	31	60	48			19	12255
	HSK-A 100	27	31	60	58			21	12755
	HSK-A 100	32	31	60	78			24	13255
	HSK-A 100	40	41	70	88			27	14055 ¹⁾
medium length	HSK-A 63	16	74	100		38	44.3	17	21657
	HSK-A 63	22	74	100		48	50.3	19	22257
	HSK-A 63	27	74	100	58			21	22757
	HSK-A 63	32	74	100	78			24	23257
	HSK-A 63	40	74	100	88			27	24057 ¹⁾
	HSK-A 100	16	71	100		38	46.3	17	21655
	HSK-A 100	22	71	100		48	56.3	19	22255
	HSK-A 100	27	71	100		58	66.3	21	22755
	HSK-A 100	32	71	100		78	80.3	24	23255
	HSK-A 100	40	71	100	88			27	24055 ¹⁾
long	HSK-A 63	16	104	130		38	44.3	17	31657
	HSK-A 63	22	104	130		48	50.3	19	32257
	HSK-A 63	27	104	130	58			21	32757
	HSK-A 63	32	104	130	78			24	33257
	HSK-A 63	40	104	130	88			27	34057 ¹⁾
	HSK-A 100	16	101	130		38	46.3	17	31655
	HSK-A 100	22	101	130		48	56.3	19	32255
	HSK-A 100	27	101	130		58	66.3	21	32755
	HSK-A 100	32	101	130		78	80.3	24	33255
	HSK-A 100	40	101	130	88			27	34055 ¹⁾
extra-long	HSK-A 63	16	134	160		38	44.3	17	41657
	HSK-A 63	22	134	160		48	50.3	19	42257
	HSK-A 63	27	134	160	58			21	42757
	HSK-A 63	32	134	160	78			24	43257
	HSK-A 63	40	134	160	88			27	44057 ¹⁾
	HSK-A 100	16	131	160		38	46.3	17	41655
	HSK-A 100	22	131	160		48	56.3	19	42255
	HSK-A 100	27	131	160		58	66.3	21	42755
	HSK-A 100	32	131	160		78	80.3	24	43255
	HSK-A 100	40	131	160	88			27	44055 ¹⁾

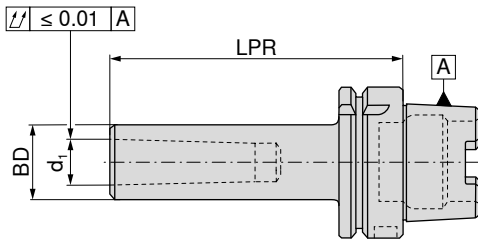
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

			
	83 368 ...	83 367 ...	83 950 ...
Spare parts			
DCONWS			
16	116 M8	016 M8x25	113
22	122 M10	022 M10x25	124
27	127 M12	027 M12x30	125
32	132 M16	032 M16x35	126
40	140 M20	040 M20x40 - SW17	112
			
		83 950 ...	83 950 ...
Spare parts			
DCONWS			
16	M3x8	296 8x9x17.5	120
22	M4x12	297 10x11x20.5	121
27	M5x12	136 12x13x24.3	122
32	M5x20	137 14x21x21.2	123
40	M6x16	138 15.9x16.3x19.5	295

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

▲ also available with Balluff chip on request



G 6.3 n_{max} 8000

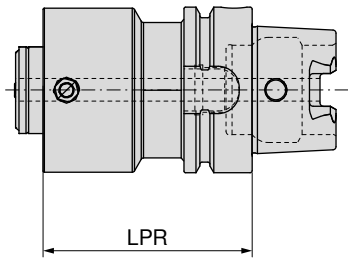
82 746 ...

Adapter	d ₁	LPR	BD	
		inch	inch	
HSK-A 63	MK1	3.937	0.984	01057
HSK-A 63	MK2	4.724	1.260	02057
HSK-A 63	MK3	5.512	1.575	03057
HSK-A 63	MK4	6.299	1.890	04057
HSK-A 100	MK2	4.724	1.260	02055
HSK-A 100	MK3	5.906	1.575	03055
HSK-A 100	MK4	6.693	1.890	04055



HSK-T extension

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



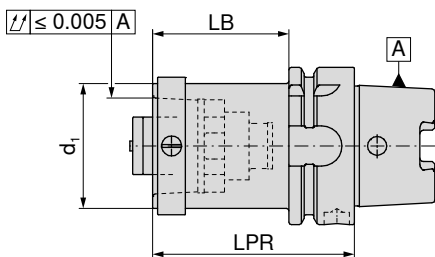
Adapter	LPR inch	84 621 ...
HSK-T 63	3.150	08037
HSK-T 63	4.724	12037
HSK-T 100	4.921	12535
HSK-T 100	6.299	16035
HSK-T 100	7.874	20035

HSK-A reduction

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

Scope of supply:

with clamping cartridge and cover ring

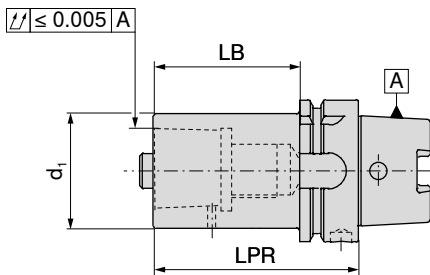


Adapter	d ₁	LB inch	LPR inch	84 040 ...
HSK-A 63	HSK-A 40	2.126	3.150	06359
HSK-A 63	HSK-A 50	2.126	3.150	06358
HSK-A 100	HSK-A 50	2.008	3.150	10058
HSK-A 100	HSK-A 63	2.795	3.937	10057

HSK-A/PSC adapter

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

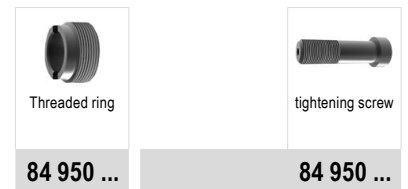
Scope of supply:
with tightening screw



Adapter	d ₁	LB inch	LPR inch	84 013 ...
HSK-A 63	PSC 32	1.929	2.953	06387
HSK-A 63	PSC 40	2.126	3.150	06395
HSK-A 63	PSC 50	2.520	3.543	06394
HSK-A 100	PSC 32	2.008	3.150	10087
HSK-A 100	PSC 40	2.402	3.543	10095
HSK-A 100	PSC 50	2.795	3.937	10094
HSK-A 100	PSC 63	3.189	4.331	10093
HSK-A 100	PSC 80	3.583	4.724	10086

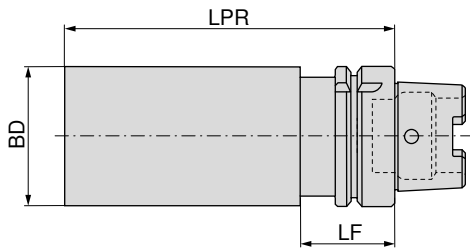
Spare parts

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



Blank

- ▲ Material: 1.7131
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 27^{±1} HRC
- ▲ also available with Balluff chip **on request**

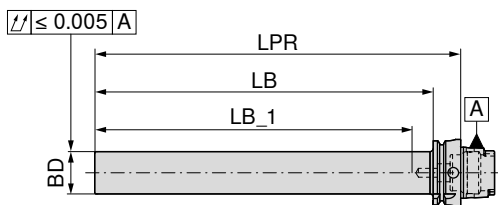


82 747 ...

Adapter	BD inch	LPR inch	LF inch	
HSK-A 63	2.480	7.874	1.654	16357
HSK-A 63	3.150	9.843	1.654	18057
HSK-A 100	2.480	7.874		16355
HSK-A 100	3.150	9.843		18055
HSK-A 100	3.839	9.843	1.772	19755

Test arbor

Scope of supply:
in wooden box



81 746 ...

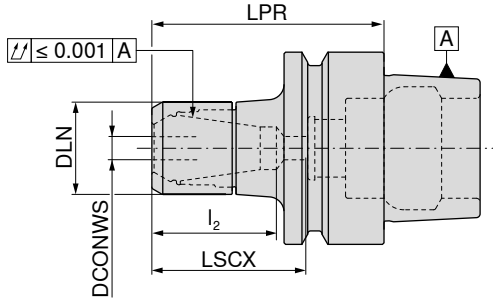
Adapter	BD inch	LPR inch	LB_1 inch	LB inch	
HSK-A 63	1.575	13.622	11.811	12.598	063
HSK-A 100	1.575	13.740	11.811	12.598	100

ER precision collet chuck – Centro-P

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

Scope of supply:

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



G 2.5 n_{max} 30000

84 776 ...

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

→ Transmittable torque moments, Page 211

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

Lock nut IK	Lock nut
84 950 ...	84 950 ...
013	003

**Spare parts
for collet
430E (ER25)**

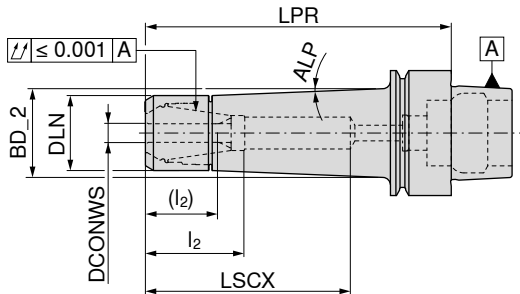
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
175-183, 186	187	193	193	120	

ER precision collet chuck, tapered – Centro-P

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

Scope of supply:

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



G 2.5 n_{max} 30000

84 774 ...

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

→ Transmittable torque moments, Page 211



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)

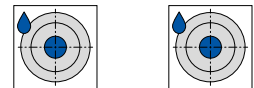
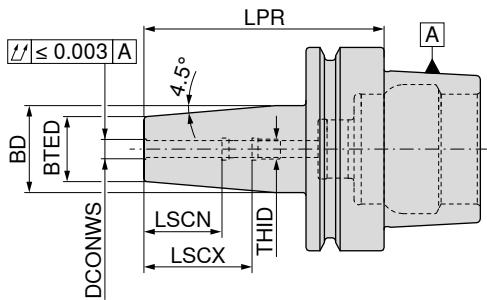
Mini lock nut IK	Mini lock nut	Stop screw 2	Stop screw 1
84 950 ...	84 950 ...	83 950 ...	83 950 ...
035	034	340 341	336 337

175-182, 186	187	192	193	193	120	

Shrink fit adapters

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

TG



G 2.5 n_{max} 25000 G 2.5 n_{max} 25000

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

→ Min. clamping depth, Page 210

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

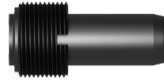
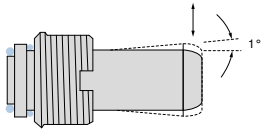
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:

complete, including seals

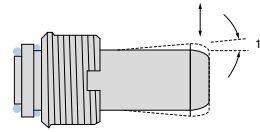


Coolant transfer pipe with strainer – HSK

▲ 75 µ filter screen, usable up to 80 bar

Scope of supply:

Complete, including sealing rings and filter screen



Adapter		THOD	83 760 ...
HSK 32	M10 x 1		032
HSK 40	M12 x 1		040
HSK 50	M16 x 1		050
HSK 63	M18 x 1		063
HSK 80	M20 x 1.5		080
HSK 100	M24 x 1.5		100

Adapter		THOD	83 760 ...
HSK 63	M18 x 1		16300
HSK 100	M24 x 1.5		20000

NEW



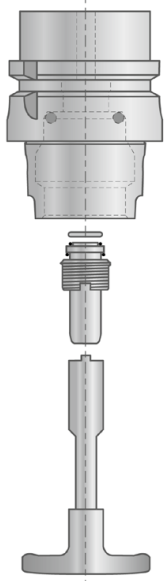
For usage with micro tools with thru coolant, improved tool life due to reduced contamination of the coolant hole.

Key – HSK

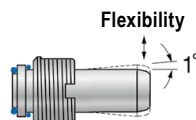


Adapter	83 758 ...
HSK 32	032
HSK 40	040
HSK 50	050
HSK 63	063
HSK 80	080
HSK 100	100

Coolant pipe for HSK tools



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

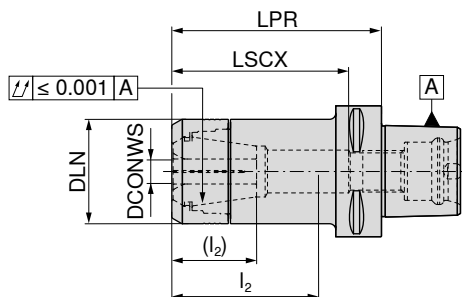


ER precision collet chuck – Centro-P

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

Scope of supply:

Holder **without nut, without backstop**



G 2.5 n_{max} 25000

84 112 ...

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

→ Transmittable torque moments, Page 211



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

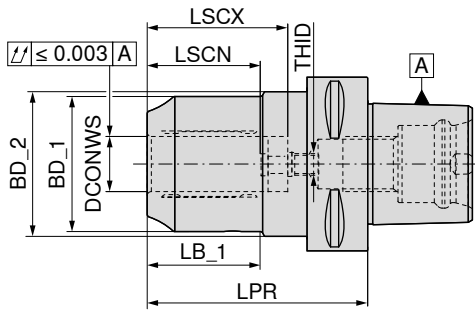
	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
	84 950 ...	84 950 ...	83 950 ...	83 950 ...
Spare parts for collet				
426E (ER16)	011	001	M11x1 - SW6 341	M11x1 - SW6 337
430E (ER25)	013	003	M18x1.5 - SW6 432	M18x1.5 - SW6 431
470E (ER32)	015	005	M22x1.5 - SW6 402	M22x1.5 - SW6 401
472E (ER40)	017	007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

HyPower – Complus

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

Scope of supply:

Base body with backstop screw and pressure screw



G 2.5 n_{max} 25000

84 108 ...

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

62000

→ Min. clamping depth, Page 210



83 950 ...



80 397 ...



83 950 ...



83 950 ...

Spare parts for Article no.

84 108 62000	M5x5 - SW2.5	157	SW5	050	M10x1x14	429	M16x1x13.5 - SW8	424
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Reduction sleeve	Coolant transfer pipe	Others
189-190	140	

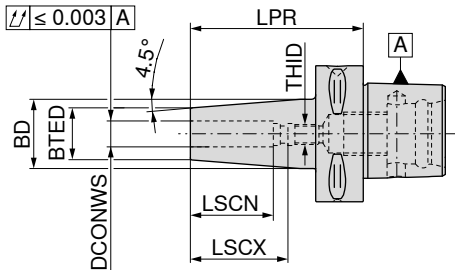
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



G 6.3 n_{max} 15000

84 104 ...

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

→ Min. clamping depth, Page 210

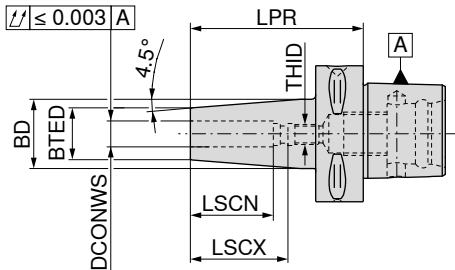
Shrink adapters

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

Scope of supply:

Holder **without** IK back stop screw

TG



G 6.3 n_{max} 15000 G 6.3 n_{max} 15000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	G 6.3 n _{max} 15000	
									84 105 ...	84 106 ...
medium length	PSC 50	120	6	21	32	36	26	M5	506	
	PSC 50	120	8	21	32	36	26	M6	508	
	PSC 50	120	10	24	34	41	31	M8x1	510	
	PSC 50	120	12	24	34	47	37	M10x1	512	
	PSC 50	120	14	27	36	47	37	M10x1	514	
	PSC 50	120	16	27	36	50	40	M12x1	516	
	PSC 50	120	18	33	42	50	40	M12x1	518	
	PSC 50	120	20	33	42	52	42	M16x1	520	
	PSC 50	120	25	44	53	58	48	M16x1	525	
	PSC 63	120	6	21	32	36	26	M5	606	
	PSC 63	120	8	21	32	36	26	M6	608	
	PSC 63	120	10	24	32	41	31	M8x1	610	
	PSC 63	120	12	24	32	47	37	M10x1	612	
	PSC 63	120	14	27	36	47	37	M10x1	614	
	PSC 63	120	16	27	36	50	40	M12x1	616	
	PSC 63	120	18	33	44	50	40	M12x1	618	
PSC 63	120	20	33	44	52	42	M16x1	620		
PSC 63	120	25	44	53	58	48	M16x1	625		
PSC 63	120	32	44	53	61	51	M16x1	632		
	PSC 80	120	6	21	32	36	26	M5	806	
	PSC 80	120	8	21	32	36	26	M6	808	
	PSC 80	120	10	24	34	41	31	M8x1	810	
	PSC 80	120	12	24	34	47	37	M10x1	812	
	PSC 80	120	14	27	36	47	37	M10x1	814	
	PSC 80	120	16	27	36	50	40	M12x1	816	
	PSC 80	120	18	33	44	50	40	M12x1	818	
	PSC 80	120	20	33	44	52	42	M16x1	820	
	PSC 80	120	25	44	53	58	48	M16x1	825	
	PSC 80	120	32	44	53	61	51	M16x1	832	
extra-long	PSC 63	160	6	21	32	36	26	M5		606
	PSC 63	160	8	21	32	36	26	M6		608
	PSC 63	160	10	24	34	41	31	M8x1		610
	PSC 63	160	12	24	34	47	37	M10x1		612
	PSC 63	160	14	27	36	47	37	M10x1		614
	PSC 63	160	16	27	36	50	40	M12x1		616
	PSC 63	160	18	33	44	50	40	M12x1		618
	PSC 63	160	20	33	44	52	42	M16x1		620
	PSC 63	160	25	44	53	58	48	M16x1		625
	PSC 63	160	32	44	53	61	51	M16x1		632

→ Min. clamping depth, Page 210

Spare parts heat shrink adapter



Backstop screw IK

84 950 ...

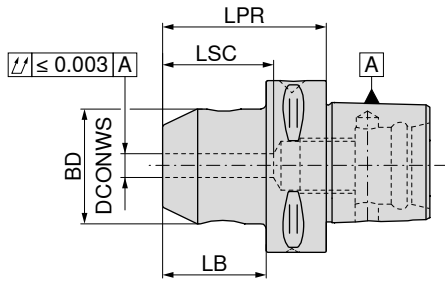
Spare parts

DCONWS

6	140
8	141
10	142
12 - 14	143
16 - 18	144
20 - 32	145

Cylindrical shank adapter (Weldon)

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



G 6.3 n_{max} 15000

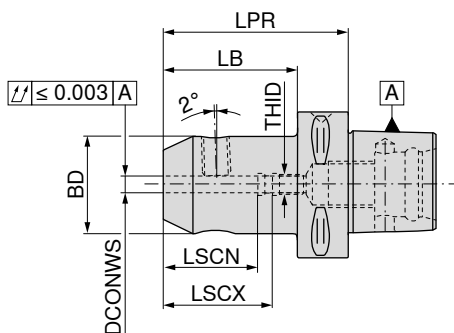
84 100 ...

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

1) Version with two grub screws

Cylindrical Shank Adapter (Whistle Notch)

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



G 6.3 n_{max} 15000

84 102 ...

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

1) Version with two grub screws



Set Screw



Backstop screw IK

62 950 ...

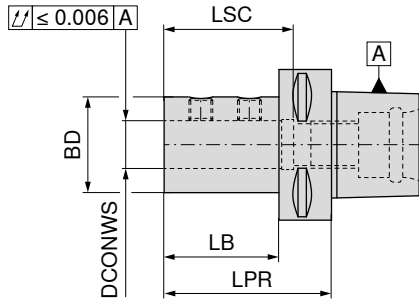
84 950 ...

Spare parts

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

Indexable insert drill adapter ISO 26623-1 PSC

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



84 128 ...

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



83 950 ...

Spare parts

DCONWS

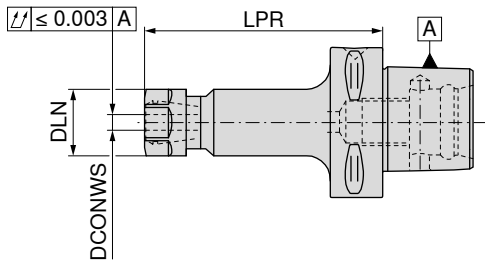
16 - 20

M10x1x10

180

ER Collet chuck

▲ also available with Balluff chip on request



G 6.3 n_{max} 15000

84 114 ...

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



Lock nut

62 950 ...

Spare parts for collet

426E (ER16)

M22x1.5 - SW25

044

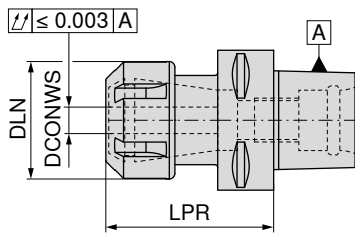


ER collet

175-182, 186

ER Collet chuck

▲ also available with Balluff chip on request



G 6.3 n_{max} 15000

84 115 ...

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

1) with 6 position lock nut

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

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

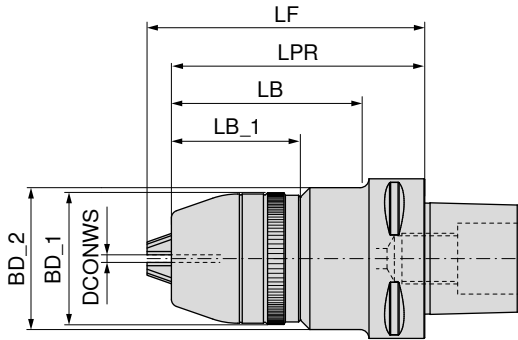


Short drill chuck – NC 2010

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

Scope of supply:

Toolholder including clamping key SW4

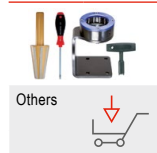


G 2.5 n_{max} 12000

84 111 ...

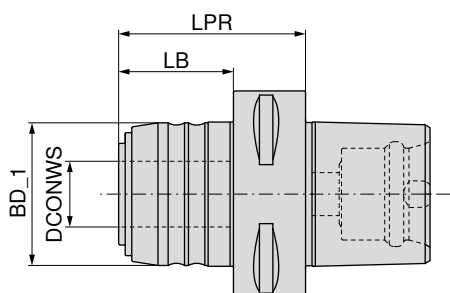
Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	
PSC 40	0.5 - 13	48.5	56	50.90	78.0	100	109.0	01395
PSC 40	2.5 - 16	51.0	56	52.15	78.0	100	110.5	01695
PSC 50	0.5 - 13	48.5	56	50.90	77.0	100	109.0	01394
PSC 50	2.5 - 16	51.0	56	52.15	77.0	100	110.5	01694
PSC 63	0.5 - 13	48.5	56	50.90	74.5	100	109.0	01393
PSC 63	2.5 - 16	51.0	56	52.15	74.5	100	110.5	01693

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



Synchronised quick change tap chuck with minimal length compensation

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



84 140 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm
PSC 63	M3 - M12	1	57	43	20	35	1.0 / 0.2
PSC 63	M6 - M20	2	77	60	32	55	1.0 / 0.2

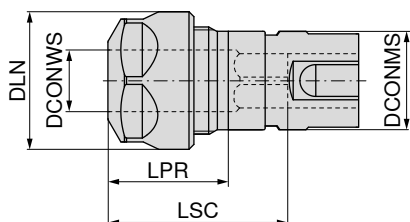
612
620

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

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

012 ¹⁾
020

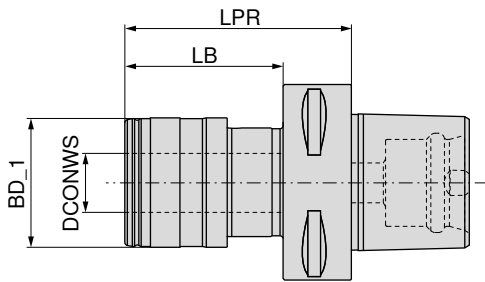
1) with 6 position lock nut

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

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

Quick change tap chuck with length compensation

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

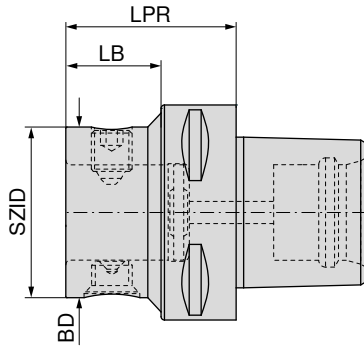


Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LB	LZD±	84 142 ...
			mm	mm	mm	mm	mm	
PSC 63	M3 - M12	01	73	41	19	51	7.5	612
PSC 63	M6 - M20	02	97	60	31	75	10	620




Adapter with ABS Connection

▲ also available with Balluff chip on request



84 215 ...

Adapter	KOMET no.	SZID	BD	LPR	LB	
			inch	inch	inch	
PSC 40	A69 04050	ABS 50	1.969	1.969	1.181	04097
PSC 50	A69 05050	ABS 50	1.969	1.969	1.181	05097
PSC 63	A69 06050	ABS 50	1.969	1.969	1.102	06397
PSC 63	A69 06060	ABS 63	2.480	2.362	1.417	06396
PSC 80	A69 08050	ABS 50	1.969	1.969	0.906	08097
PSC 80	A69 08060	ABS 63	2.480	2.362	1.181	08096
PSC 80	A69 08070	ABS 80	3.150	3.150	1.969	08092



Clamping screw

84 950 ...



Taper screw

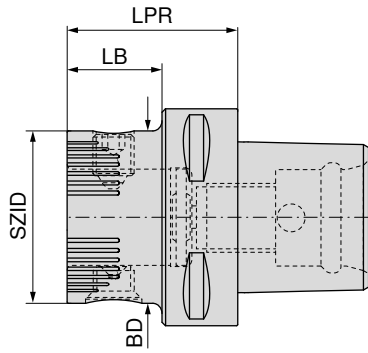
84 950 ...

Spare parts

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

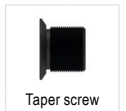
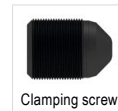
Torsional vibration damper with ABS connection

▲ also available with Balluff chip on request



84 206 ...

Adapter	KOMET no.	SZID	BD inch	LPR inch	LB inch	
PSC 50	A69 05060	ABS 50	1.969	1.969	1.181	05094
PSC 63	A69 06070	ABS 50	1.969	1.969	1.102	05093
PSC 63	A69 06080	ABS 63	2.480	2.362	1.496	06393
PSC 80	A69 08090	ABS 50	1.969	1.969	0.906	05086
PSC 80	A69 08100	ABS 63	2.480	2.362	1.181	06386
PSC 80	A69 08110	ABS 80	3.150	3.150	1.969	08086



84 950 ...

84 950 ...

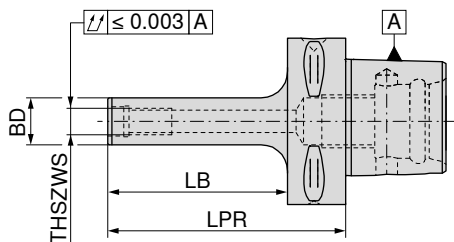
Spare parts

SZID		
ABS 50	20300	20400
ABS 63	25500	27300
ABS 80	25600	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	
PSC 32	M8	60	13	45	302
PSC 32	M10	70	18	55	306
PSC 40	M8	70	13	50	402
PSC 40	M10	80	18	60	405
PSC 40	M12	80	21	60	408
PSC 50	M8	70	13	50	502
PSC 50	M10	80	18	60	505
PSC 50	M12	80	21	60	508
PSC 50	M16	80	29	60	512
PSC 63	M8	70	13	48	602
PSC 63	M10	90	18	68	605
PSC 63	M12	100	21	78	608
PSC 63	M16	100	29	78	612



Coolant transfer pipe

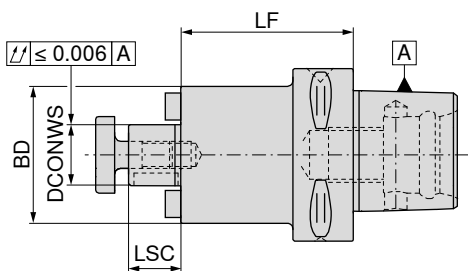
140

Shell mill adapters

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

Scope of supply:

Holder with clamping screw and drive key



G 6.3 n_{max} 15000

84 122 ...

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

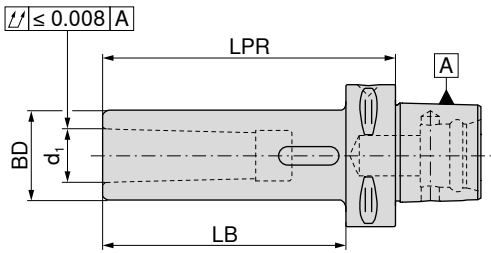
drive key	drive dog	Cross nut key	Cross screw	clamping screw
84 950 ...	84 950 ...	83 368 ...	83 367 ...	83 950 ...

Spare parts

DCONWS	108	113	116	M8	016	M8x25	113
16	108	113	116	M8	016	M8x25	113
22	109	114	122	M10	022	M10x25	124
27	110	115	127	M12	027	M12x30	125
32	111	116	132	M16	032	M16x35	126
40	112	117	140	M20	040	M20x40 - SW17	112

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

▲ also available with Balluff chip on request

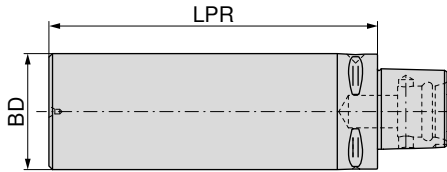


84 126 ...

Adapter	d ₁	LPR	BD	LB	
		inch	inch	inch	
PSC 40	MK2	4.331	1.260	3.543	402
PSC 40	MK3	5.118	1.575	4.685	403
PSC 50	MK2	4.331	1.260	3.543	502
PSC 50	MK3	5.118	1.575	4.331	503
PSC 50	MK4	5.906	1.890	5.197	504
PSC 63	MK2	4.331	1.260	3.465	602
PSC 63	MK3	5.118	1.575	4.252	603
PSC 63	MK4	5.906	1.890	5.039	604
PSC 80	MK2	4.724	1.260	3.543	802
PSC 80	MK3	5.512	1.575	4.331	803
PSC 80	MK4	6.299	1.890	5.118	804

Blank

- ▲ Material: 1.7218
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**

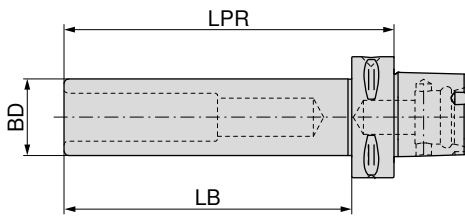


84 134 ...

Adapter	BD inch	LPR inch	
PSC 40	1.575	3.740	402
PSC 40	1.575	4.724	403
PSC 40	2.362	6.496	404
PSC 40	3.150	2.953	405
PSC 40	3.150	4.724	406
PSC 40	3.937	3.346	408
PSC 50	1.969	4.921	502
PSC 50	1.969	5.906	503
PSC 50	2.953	6.890	504
PSC 50	3.543	3.150	506
PSC 50	3.740	5.906	508
PSC 50	4.331	3.543	510
PSC 63	2.480	7.087	602
PSC 63	2.953	7.677	604
PSC 63	4.331	3.346	606
PSC 63	4.724	7.087	608
PSC 63	5.118	3.740	610
PSC 80	3.150	7.874	802
PSC 80	4.724	6.299	804
PSC 80	5.118	3.543	806
PSC 80	5.709	7.874	808

Test bar

▲ also available with Balluff chip on request



84 136 ...

Adapter	LPR	BD	LB
	inch	inch	inch
PSC 32	6.890	0.984	6.299
PSC 40	7.087	0.984	6.299
PSC 50	9.252	1.260	8.465
PSC 63	12.677	1.575	11.811
PSC 80	12.992	1.575	11.811

030
040
050
060
080

Coolant pipe – PSC

Scope of supply:
complete, including seals



84 116 ...

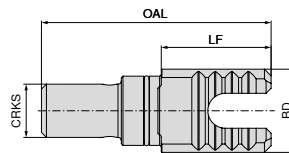
Adapter	THOD
PSC 40	M14 x 1.5
PSC 50	M16 x 1.5
PSC 63	M20 x 2.0
PSC 80	M20 x 2.0

04000
05000
06300
08000

Pull stud for PSC adapter

▲ for front clamping

Scope of supply:
including O-Ring



NEW

83 235 ...

Adapter	LF	OAL	BD	CRKS
	mm	mm	mm	
PSC 40	26.3	56	20	M14x1.5
PSC 50	33.0	69	25	M16x1.5
PSC 63	33.0	79	31	M20x2

04000
05000
06300

Key – PSC



84 117 ...

Adapter
PSC 40
PSC 50
PSC 63
PSC 80

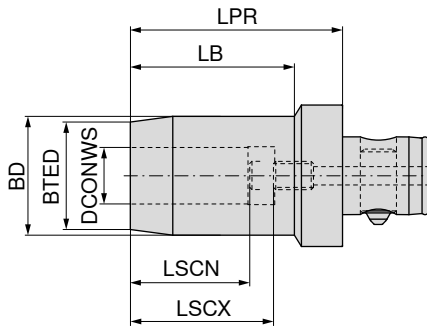
04000
05000
06300
08000

HyTens – Fit

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

Scope of supply:

Base body including backstop screw



84 253 ...

Adapter	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm	
ABS 40	6	22	26	55	36.5	37	27	00688
ABS 40	8	24	28	60	42.0	37	27	00888
ABS 40	10	26	30	65	47.5	41	31	01088
ABS 40	12	28	32	65	48.0	46	36	01288
ABS 50	6	22	26	55	33.5	37	27	00697
ABS 50	8	24	28	55	34.0	37	27	00897
ABS 50	10	26	30	65	45.0	41	31	01097
ABS 50	12	28	32	65	45.5	46	36	01297
ABS 50	14	30	34	65	46.0	46	36	01497
ABS 50	16	34	38	70	52.0	49	39	01697
ABS 50	18	36	40	70	52.5	49	39	01897
ABS 50	20	38	42	75	58.0	51	41	02097
ABS 63	20	38	42	78	56.0	51	41	02096
ABS 63	25	53	57	85	60.0	57	47	02596
ABS 63	32	60	64	90	61.0	61	51	03296



83 950 ...

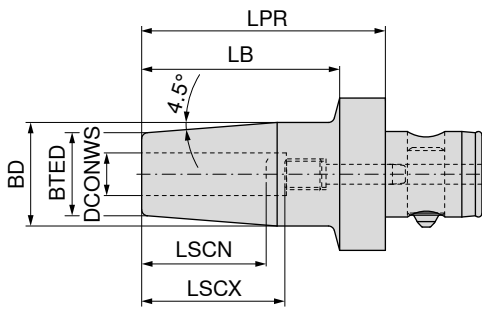
Spare parts
DCONWS

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

For an overview of the ABS spare parts, take a look at **page 212**.

Heat shrink adapter 4.5° with ABS connection

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



G 6.3 n_{max} 15000

84 222 ...

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



Backstop screw

84 950 ...

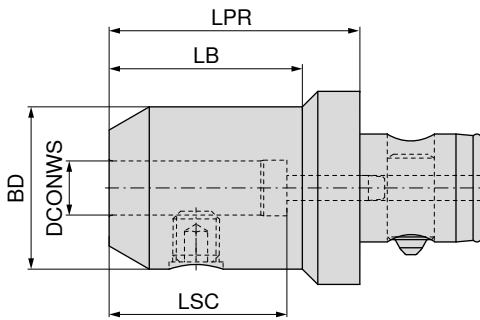
Spare parts

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

1 For an overview of the ABS spare parts, take a look at **page 212**.

Cylindrical shank adapter (Weldon) with ABS connection

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



84 221 ...

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

1) Version with two grub screws



62 950 ...

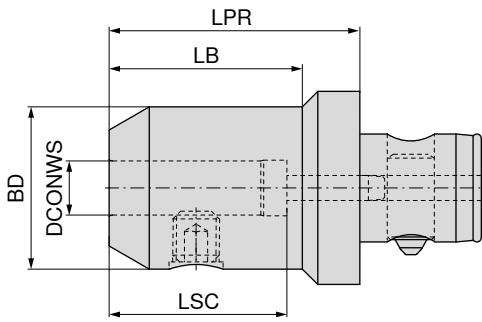
Spare parts

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

For an overview of the ABS spare parts, take a look at **page 212**.

Cylindrical shank adapter (Weldon) with ABS connection

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



87 221 ...

Adapter	DCONWS inch	LPR inch	BD inch	LB inch	LSC inch	
ABS 50	0.375	2.000	1.130	1.250	1.810	10997
ABS 50	0.500	2.000	1.130	1.486	1.900	11297
ABS 50	0.625	2.630	1.970		2.190	11597
ABS 50	0.750	2.630	1.970		2.310	11997
ABS 50	0.875	2.630	1.970		2.310	12297
ABS 63	1.000	3.000	2.480		2.560	12596
ABS 63	1.250	3.000	2.480		2.560	13196
ABS 80	1.500	3.600	2.480	2.581	2.900	13892



Set Screw

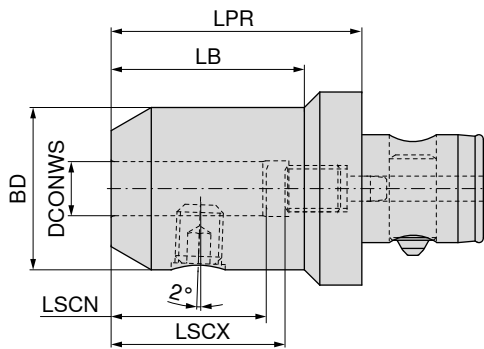
87 950 ...

DCONWS		
0.375	3/8"-16 UNC	00031
0.500	7/16"-14 UNC	00032
0.625	9/16"-12 UNC	00033
0.750	5/8"-11 UNC	00034
0.875	5/8"-11 UNC	00034
1.000	3/4"-10 UNC	00035
1.250	3/4"-10 UNC	00035
1.500	3/4"-10 UNC	00035

For an overview of the ABS spare parts, take a look at **page 212**.

Cylindrical shank adapter (Whistle Notch) with ABS connection

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



84 220 ...

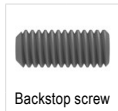
Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	
ABS 25	A30 10601	6	55	40	24.9	36	26	00690
ABS 25	A30 10801	8	55	40	28.0	36	26	00890
ABS 25	A30 11001	10	60	45	35.0	40	30	01090
ABS 32	A30 20601	6	55	40	25.0	36	26	00689
ABS 32	A30 20801	8	55	40	28.0	36	26	00889
ABS 32	A30 20901	9	55	40	28.0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

1) Version with two grub screws

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



Set Screw



Backstop screw

62 950 ...

84 950 ...

Spare parts

DCONWS

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

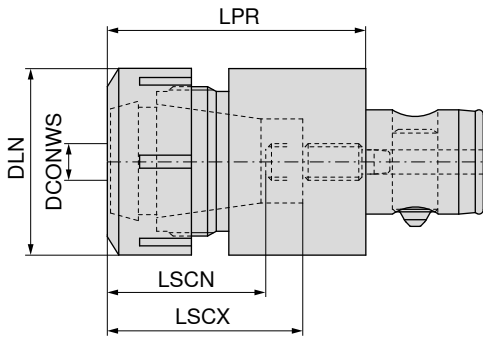


For an overview of the ABS spare parts, take a look at **page 212**.

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



84 224 ...

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

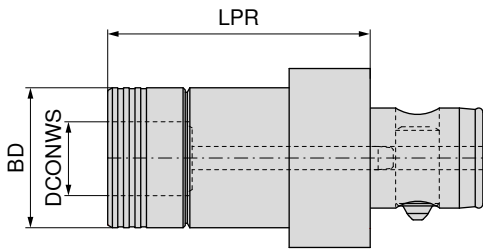
1) with 6 position lock nut

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

For an overview of the ABS spare parts, take a look at **page 212**.

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)



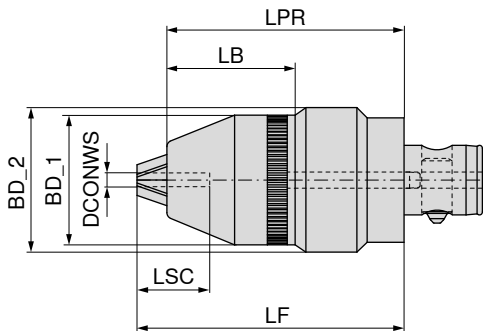
84 225 ...

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

Short drill chuck

Scope of supply:

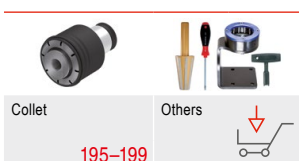
Toolholder including clamping key SW4



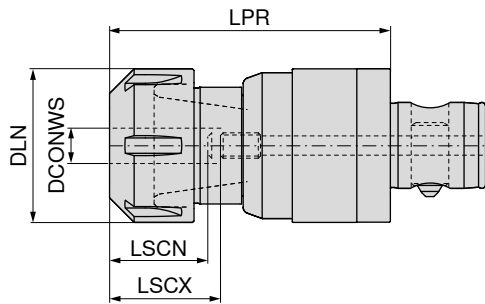
G 6.3 n_{max} 10000

84 247 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	LSC mm	LF mm	LB mm	
ABS 50	0.5 - 13	49	57.5	95	29	104.0	51.5	01397
ABS 50	2.5 - 16	52	57.5	95	29	105.5	52.0	01697




Synchro tapping chuck with ABS connection



84 226 ...

Adapter	KOMET no.	for collet	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	
ABS 32	50795131002000	ER 20	1 - 13	78.0	34	42	29	02089
ABS 50	50795135002000	ER 20	1 - 13	85.0	34	42	29	02097
ABS 50	50795135003200	ER 32	2 - 20	90.5	50	45	31	03297

 For an overview of the ABS spare parts, take a look at **page 212**.



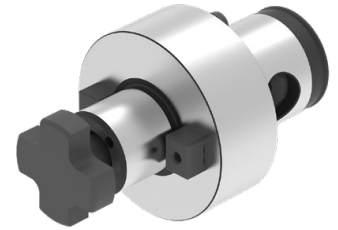
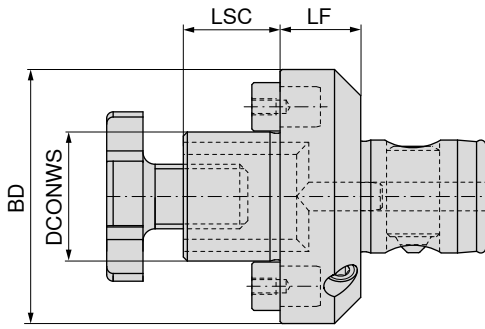
ER collet

175-183, 185-186

Shell mill adapter with ABS connection

Scope of supply:

Base body including drive dogs and retaining screw



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

Part Name	84 950 ...	83 950 ...	83 367 ...
Drive dog			
Driver			
Cross screw			
DCONWS			
16			016
22	22900		022
27	23000		027
32	23100		032
40			040
40		295	
60		298	

Spare parts

DCONWS

- 16
- 22
- 27
- 32
- 40
- 40
- 60

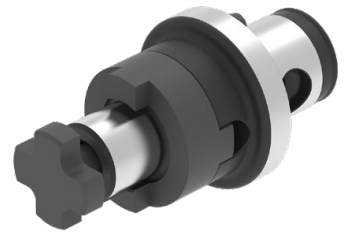
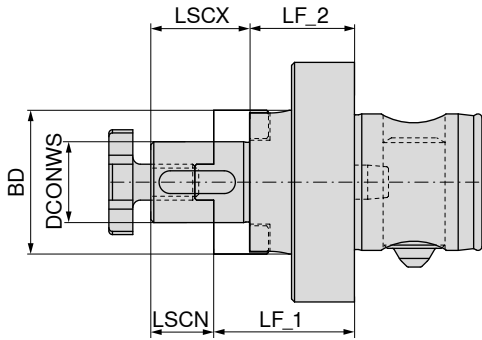
For an overview of the ABS spare parts, take a look at **page 212**.

Combination shell mill adapter with ABS connection

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

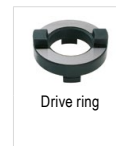
Scope of supply:

Base body including retaining screw, drive ring and drive key



84 229 ...

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



83 950 ...

83 370 ...

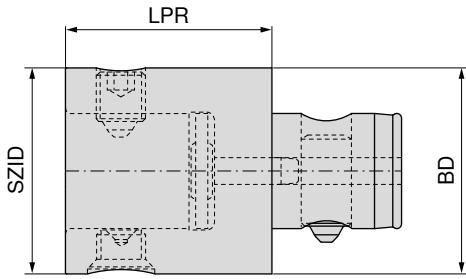
83 367 ...

Spare parts

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

For an overview of the ABS spare parts, take a look at **page 212**.

Extension with ABS Connection



84 209 ...

Adapter	KOMET no.	SZID	BD inch	LPR inch	
ABS 25	A20 00020	ABS 25	0.984	1.772	04590
ABS 25	A20 00220	ABS 25	0.984	2.362	06090
ABS 32	A20 00530	ABS 32	1.260	1.378	03589
ABS 32	A20 00030	ABS 32	1.260	1.969	05089
ABS 32	A20 00230	ABS 32	1.260	2.756	07089
ABS 40	A20 00540	ABS 40	1.575	1.575	04088
ABS 40	A20 00040	ABS 40	1.575	2.362	06088
ABS 40	A20 00240	ABS 40	1.575	3.543	09088
ABS 50	A20 00550	ABS 50	1.969	1.969	05097
ABS 50	A20 00050	ABS 50	1.969	2.559	06597
ABS 50	A20 00250	ABS 50	1.969	3.937	10097
ABS 50	A20 00150	ABS 50	1.969	5.906	15097
ABS 63	A20 00560	ABS 63	2.480	2.362	06096
ABS 63	A20 00060	ABS 63	2.480	3.346	08596
ABS 63	A20 00260	ABS 63	2.480	4.921	12596
ABS 63	A20 00160	ABS 63	2.480	7.480	19096
ABS 80	A20 00570	ABS 80	3.150	2.756	07092
ABS 80	A20 00070	ABS 80	3.150	3.346	08592
ABS 80	A20 00270	ABS 80	3.150	4.921	12592
ABS 80	A20 00170	ABS 80	3.150	9.449	24092
ABS 100	A20 00580	ABS 100	3.937	3.346	08591
ABS 100	A20 00080	ABS 100	3.937	4.921	12591
ABS 100	A20 00280	ABS 100	3.937	6.299	16091
ABS 125	A20 00090	ABS 125	4.921	6.299	16085
ABS 125	A20 00290	ABS 125	4.921	7.874	20085

Spare parts

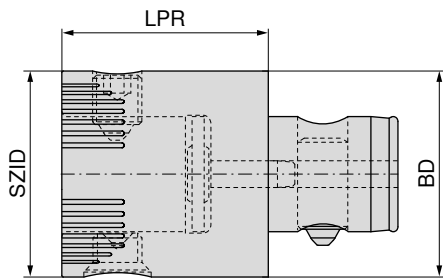
Adapter	Clamping screw	Clamping screw	Positioning pin	Pendulum bolt	Coolant pipe	Taper screw
ABS 25	62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
ABS 32	13989	26800	23600	26000	24400	27000
ABS 40		26900	23700	26100	24500	27100
ABS 50		20300	23800	26200	24600	27200
ABS 63		25500	20200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

For an overview of the ABS spare parts, take a look at **page 212**.

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



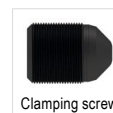
84 216 ...

Adapter	KOMET no.	SZID	BD	LPR
ABS 50	A20 00651	ABS 50	1.969 inch	1.969 inch
ABS 63	A20 00661	ABS 63	2.480	2.362
ABS 80	A20 00670	ABS 80	3.150	2.756

05097

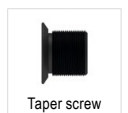
06096

07092



Clamping screw

84 950 ...



Taper screw

84 950 ...

Spare parts

Adapter

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

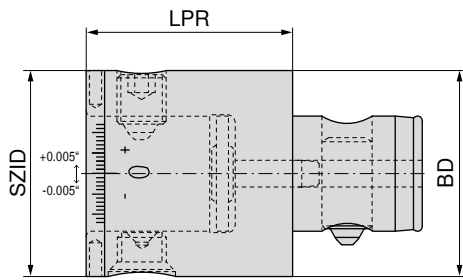
 For an overview of the ABS spare parts, take a look at **page 212**.

Eccentric adjuster with ABS Connection

▲ Adjustment ±0.010 inch on diameter

Scope of supply:

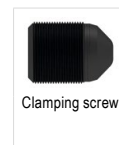
Eccentric adjuster with adjuster key Ø 2.8 mm



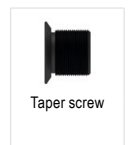
84 217 ...

Adapter	KOMET no.	SZID	BD inch	LPR inch
ABS 50	A20 00620	ABS 50	1.969	1.969
ABS 63	A20 00630	ABS 63	2.480	2.362

05097
06096



84 950 ...



84 950 ...

Spare parts

Adapter

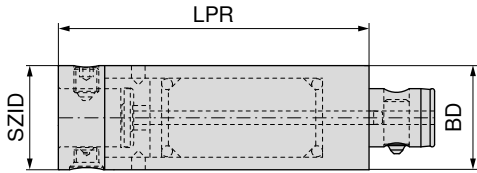
ABS 50	20300	20400
ABS 63	25500	27300



For an overview of the ABS spare parts, take a look at **page 212**.

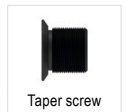
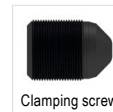
Damping element with ABS connection

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



84 218 ...

Adapter	KOMET no.	SZID	BD inch	LPR inch	RPMX 1/min.	
ABS 40	A20 01240	ABS 40	1.575	4.724	8000	12088
ABS 50	A20 01250	ABS 50	1.969	5.906	6300	15097
ABS 63	A20 01260	ABS 63	2.480	7.480	5000	19096
ABS 80	A20 01270	ABS 80	3.150	9.449	4000	24092



84 950 ...

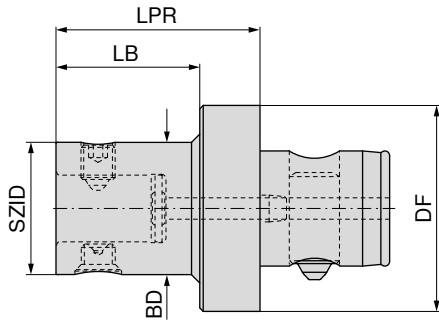
84 950 ...

Spare parts

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

 For an overview of the ABS spare parts, take a look at **page 212**.

Reduction with ABS connection



84 219 ...

Adapter	KOMET no.	SZID	BD	DF	LPR	LB	
			inch	inch	inch	inch	
ABS 32	A20 10120	ABS 25	0.984	1.260	1.575	1.181	03290
ABS 40	A20 10220	ABS 25	0.984	1.575	1.575	1.102	04090
ABS 40	A20 10230	ABS 32	1.260	1.575	1.575	1.102	04089
ABS 50	A20 10320	ABS 25	0.984	1.969	1.969	1.378	05090
ABS 50	A20 10330	ABS 32	1.260	1.969	1.969	1.378	05089
ABS 50	A20 10340	ABS 40	1.575	1.969	1.969	1.378	05088
ABS 63	A20 10420	ABS 25	0.984	2.480	2.362	1.575	06390
ABS 63	A20 10430	ABS 32	1.260	2.480	2.362	1.575	06389
ABS 63	A20 10440	ABS 40	1.575	2.480	2.362	1.575	06388
ABS 63	A20 10450	ABS 50	1.969	2.480	2.362	1.575	06397
ABS 80	A20 10530	ABS 32	1.260	3.150	2.362	1.378	08089
ABS 80	A20 10540	ABS 40	1.575	3.150	2.362	1.378	08088
ABS 80	A20 10550	ABS 50	1.969	3.150	2.362	1.378	08097
ABS 80	A20 10560	ABS 63	2.480	3.150	2.362	1.378	08096
ABS 100	A20 10650	ABS 50	1.969	3.937	3.150	1.969	10097
ABS 100	A20 10660	ABS 63	2.480	3.937	3.150	1.969	10096
ABS 100	A20 10670	ABS 80	3.150	3.937	3.150	1.969	10092
ABS 125	A20 10770	ABS 80	3.150	4.921	3.937	1.969	12592
ABS 125	A20 10780	ABS 100	3.937	4.921	3.937	1.969	12591

Spare parts

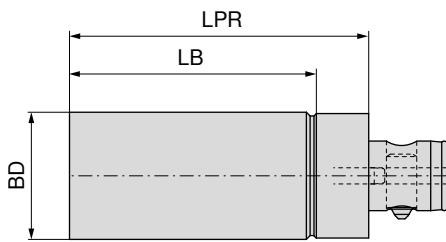
SZID	62 950 ...	84 950 ...	84 950 ...
ABS 25		26800	27000
ABS 32	13989	27100	
ABS 40		26900	27200
ABS 50		20300	20400
ABS 63		25500	27300
ABS 80		25600	25100
ABS 100		25700	25200

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

For an overview of the ABS spare parts, take a look at **page 212**.

Blank with ABS connection

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



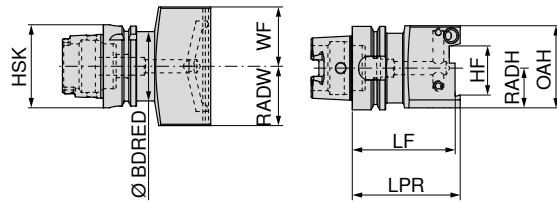
84 230 ...

Adapter	KOMET no.	LPR inch	BD inch	LB inch	
ABS 25	B10 01011	2.756	1.024	2.165	02690
ABS 32	B10 02011	3.150	1.299	2.559	03389
ABS 40	B10 03011	3.937	1.614	3.228	04188
ABS 50	B10 04011	4.724	2.008	3.898	05197
ABS 63	B10 05011	5.906	2.520	4.882	06496
ABS 80	B10 06011	7.087	3.189	5.709	08192
ABS 100	B10 07011	7.874	3.976	6.220	10191



For an overview of the ABS spare parts, take a look at **page 212**.

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

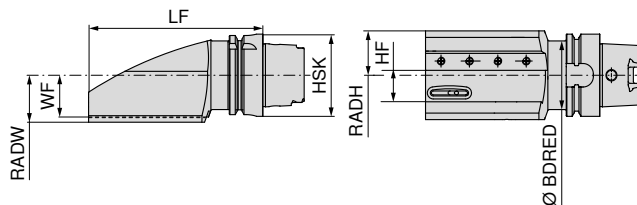


radial

74 586 ...

Adapter	LPR mm	LF mm	BDRED mm	WF mm	HF mm	OAH mm	RADW mm	RADH mm	for parting blades	
HSK-T 63	84.0	80	52.6	45	26	62	45	30	XLCF N 26...	02637
HSK-T 63	85.5	80	52.6	45	32	68	45	34	XLCF N 32...	03237

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



Illustrations show right-hand versions



Left-hand

74 585 ...



Right-hand

74 584 ...

Adapter	LF mm	BDRED mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades		
HSK-T 63	155	52.6	32	26	36.0	34	XLCF R/L 26...	02637	02637
HSK-T 63	155	52.6	32	32	37.5	35	XLCF R/L 32...	03237	03237



70 950 ...



70 950 ...



70 950 ...



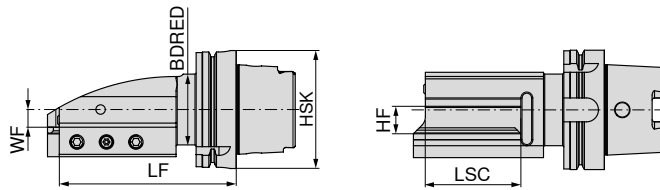
70 950 ...

Spare parts for parting blades

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

HSK-T square shank holder 0° with DirectCooling

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



Illustrations show right-hand versions



NEW



Left-hand

74 571 ...

NEW



Right-hand

74 570 ...

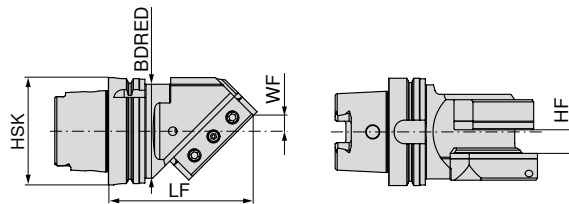
Adapter	LF mm	BDRED mm	WF mm	LSC mm	HF mm
HSK-T 63	145	52.6	15	80	20 / 25 / 32
HSK-T 100	150	60.0	15	80	20 / 25 / 32

02537
02535

02537
02535

HSK-T square shank holder 45° with DirectCooling

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



Illustrations show right-hand versions



NEW



Left-hand

74 573 ...

NEW



Right-hand

74 572 ...

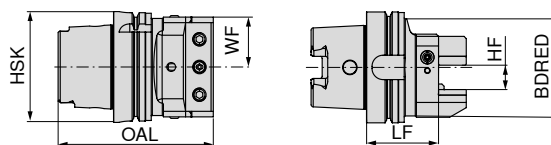
Adapter	LF mm	BDRED mm	WF mm	HF mm
HSK-T 63	130	52.6	14.6	20 / 25 / 32
HSK-T 100	135	87.6	14.6	20 / 25 / 32

02537
02535

02537
02535

HSK-T square shank holder 90° with DirectCooling

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



NEW



Neutral

74 575 ...

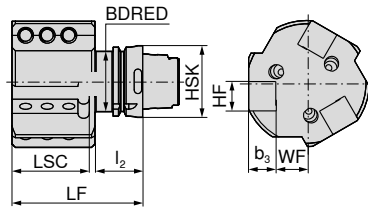
Adapter	LF mm	BDRED mm	WF mm	OAL mm	HF mm
HSK-T 63	60	52.6	45	117	20 / 25 / 32
HSK-T 100	65	87.6	45	140	20 / 25 / 32

02537
02535

Spare parts HSK-T square shank holders with DirectCooling

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





HSK-T square shank adapter 3-face 0°



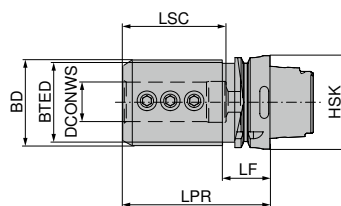
Left-hand

74 576 ...

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

				
	70 950 ...	70 950 ...	70 950 ...	70 950 ...
Spare parts				
Adapter				
HSK-T 63		UNJF 7/16"-20	05600	UNJF 7/16"-20 05500 05700 M12x1.75x25 851
HSK-T 100		UNJF 7/16"-20	05600	UNJF 7/16"-20 05500 05700 M12x1.75x25 851

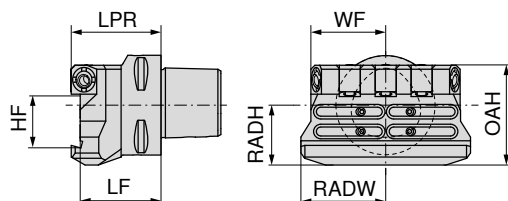
HSK-T Boring bar holder



74 577 ...

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			508
HSK T63 BH10 80	HSK-T 63	80	10	40	41			510
HSK T63 BH12 80	HSK-T 63	80	12	40	41			512
HSK T63 BH16 80	HSK-T 63	80	16	40	51			516
HSK T63 BH20 80	HSK-T 63	80	20	50	51			520
HSK T63 BH25 90	HSK-T 63	90	25	53	61			525
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53	532
HSK T100 BH20 90	HSK-T 100	90	20	55	56			720
HSK T100 BH25 95	HSK-T 100	95	25	55	61			725
HSK T100 BH32 110	HSK-T 100	110	32	68	61			732
HSK T100 BH40 120	HSK-T 100	120	40	83	81			740
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88	750

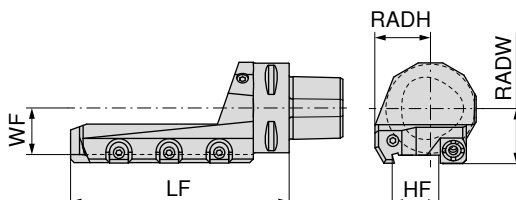
MonoClamp – PSC parting blade holder GX/LX/FX/SX with DirectCooling



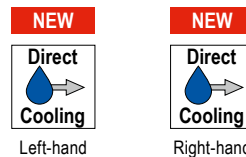
radial	84 617 ...
PSC 40	62695
PSC 50	62694
PSC 63	63293

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

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



Diagrams show right hand versions

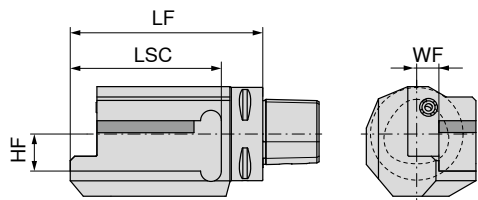


Adapter	LF mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades	Left-hand	Right-hand
PSC 40	122	21	26	25.5	31	XLCF N 26...	32695	22695
PSC 50	122	26	26	30.5	31	XLCF N 26...	32694	22694
PSC 63	160	32	32	36.5	37	XLCF N 32...	33293	23293

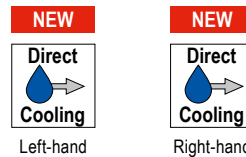
PSC square shank holder 0° with DirectCooling

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

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



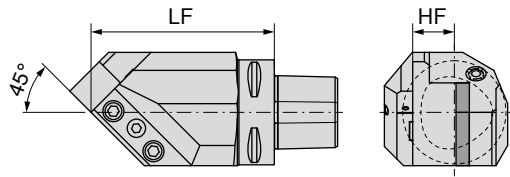
Diagrams show right hand versions



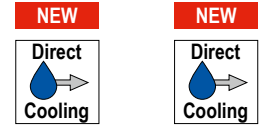
Adapter	LF mm	WF mm	LSC mm	HF mm	Left-hand	Right-hand
PSC 63	130	15	102	20 / 25	32593	22593
PSC 80	130	20	102	25	32586	22586

PSC square shank holder 45° with DirectCooling

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



Diagrams show right hand versions



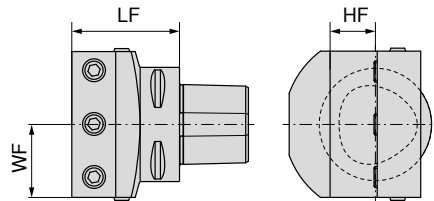
Left-hand Right-hand

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

NEW	NEW
84 616 ...	84 616 ...
12094	02094
12593	02593

PSC square shank holder 90° with DirectCooling

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

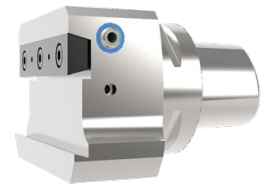
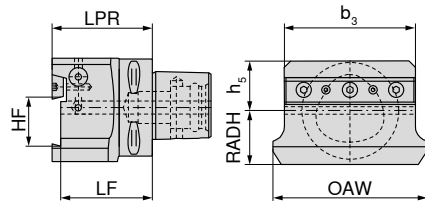


Neutral

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

NEW
84 616 ...
62095
62593

Radial parting blade holder, right / left

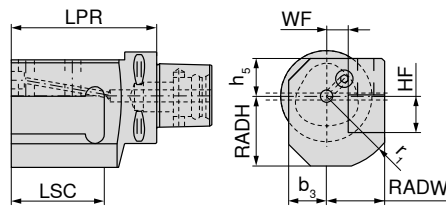


Neutral

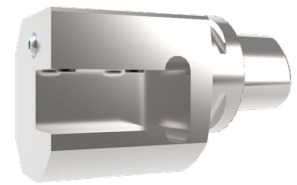
84 132 ...

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

Square section adapter, single face

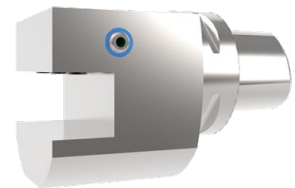
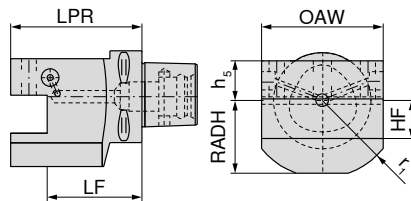


Illustrations show right-hand versions



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 ...
PSC 50	20	80	26	35	45	15	26	43	53	520	520
PSC 50	25	90	26	40	51	15	26	48	64	525	525
PSC 50	32	115	26	47	61	15	26	55	90	532	532
PSC 63	20	90	26	35	45	15	26	43	53	620	620
PSC 63	25	100	26	40	51	15	26	48	64	625	625
PSC 63	32	125	26	47	61	15	26	55	90	632	632
PSC 80	20	90	26	35	45	15	26	43	53	820	820
PSC 80	25	100	26	40	51	15	26	48	64	825	825
PSC 80	32	125	26	47	61	15	26	55	90	832	832

Radial square section tool holders 90°

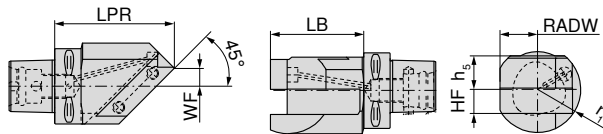


Neutral

84 602 ...

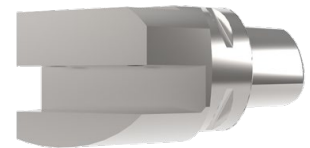
Adapter	HF mm	LPR mm	OAW mm	r ₁ mm	RADH mm	h ₅ mm	LF mm	
PSC 50	20	70	70	45	43	26	50	520
PSC 50	25	80	80	51	48	26	55	525
PSC 50	32	90	90	61	55	26	58	532
PSC 63	20	80	70	45	43	26	60	620
PSC 63	25	90	80	51	48	26	65	625
PSC 63	32	100	90	61	55	26	68	632
PSC 80	20	80	70	45	43	26	60	820
PSC 80	25	90	80	51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

Square section adapter 45°



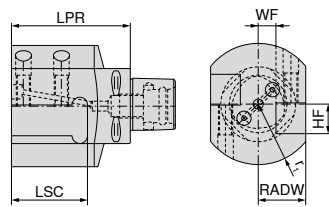
Illustrations show right-hand versions

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



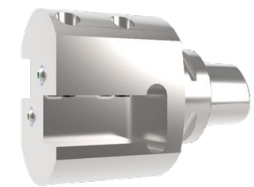
Left-hand	Right-hand
84 605 ...	84 604 ...
520	520
620	620
832	832

Square section adapter, double face



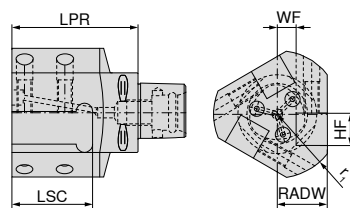
Illustrations show right-hand versions

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



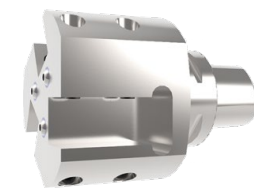
Left-hand	Right-hand
84 613 ...	84 612 ...
520	520
525	525
532	532
620	620
625	625
632	632
820	820
825	825
832	832

Square section adapter, triple face



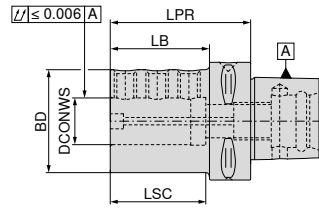
Illustrations show right-hand versions

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



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

Boring bar holder



84 130 ...

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

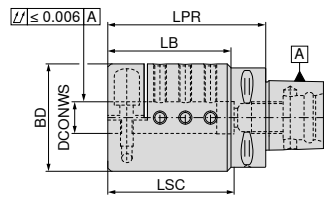


84 950 ...

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

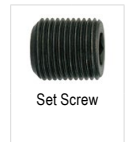
Boring bar adapter, split version

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



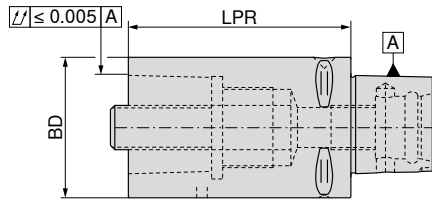
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ...
PSC 63	6	80	40	58	60	606
PSC 63	8	85	45	63	65	608
PSC 63	10	85	50	63	65	610
PSC 63	12	100	63	78	80	612
PSC 63	16	100	63	78	80	616
PSC 63	20	100	68	78	80	620
PSC 63	25	100	68	78	80	625
PSC 63	32	100	72	78	80	632

Spare parts	83 950 ...	84 950 ...
DCONWS		
10		
12 - 20	M8x20	M6x16
25	M8x25	



Extension, axial clamping

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



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

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

Spare parts

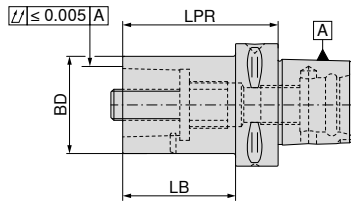
Adapter	127	SW8	122
PSC 32	127	SW8	122
PSC 40	128	SW8	123
PSC 50	129	SW10	124
PSC 63	130	SW14	126
PSC 80	130	SW14	126

Accessories



Cylindrical reduction

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

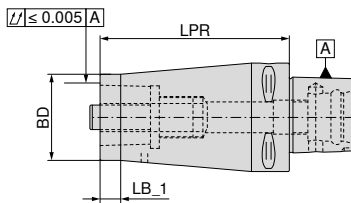


Adapter	BD mm	LPR mm	LB mm	84 624 ...
PSC 40	32	55	35	403
PSC 50	32	60	40	503
PSC 50	40	65	45	504
PSC 63	32	70	48	603
PSC 63	40	80	58	604
PSC 63	50	80	58	605
PSC 80	32	60	30	803
PSC 80	40	70	40	804
PSC 80	50	80	50	805
PSC 80	63	80	50	806
PSC 80X	63	80	48	816 ¹⁾
PSC 80X	80	100	68	818 ¹⁾

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

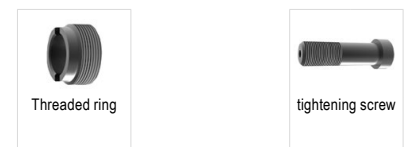
Tapered reduction

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



Adapter	BD mm	LPR mm	LB_1 mm	84 625 ...
PSC 40	32	70	12	403
PSC 50	40	85	12	504
PSC 63	50	110	12	605
PSC 80	63	120	12	806
PSC 80X	80	150	12	818 ¹⁾

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



84 950 ... 84 950 ...

Spare parts

Adapter	128	129	130	130	130	123	124	126	126	126
PSC 40										
PSC 50										
PSC 63										
PSC 80										
PSC 80X										

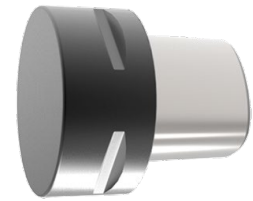
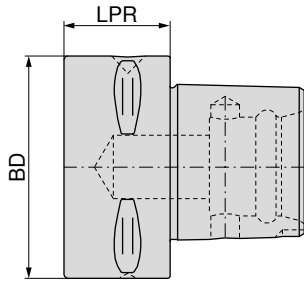
Accessories



Hollow nose keys

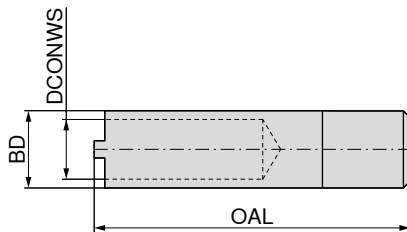
169

Sealing plugs



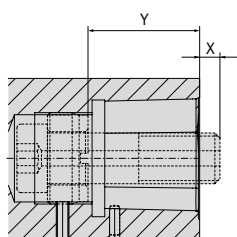
Adapter	BD mm	LPR mm	84 135 ...
PSC 40	40	28	040
PSC 50	50	28	050
PSC 63	63	30	060
PSC 80	80	38	080

Hollow nose key for clamping screw for PSC extensions and reductions



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

Installation instructions: clamping screw for PSC extensions and reductions



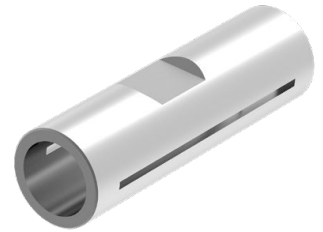
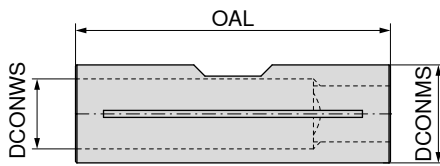
X = Screw leading edge
Y = Threaded ring insertion depth

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

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

Clamping sleeve for taps in Weldon chucks

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

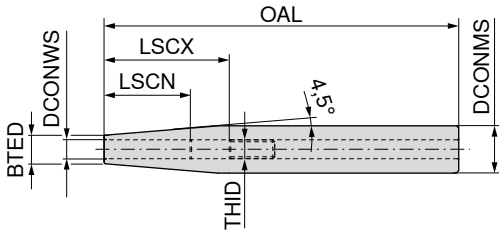


DCONWS _{H7}	DCONMS _{H6}	OAL	80 699 ...
mm	mm	mm	
3.5	6	26	03500
4.0	8	32	04000
4.5	8	26	04500
6.0	10	30	06000
7.0	10	31	07000
8.0	12	38	08000
9.0	12	38	09000
10.0	14	42	10000
11.0	14	42	11000
12.0	16	44	12000
14.0	18	45	14000
16.0	20	46	16000

Shrink fit extension


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

TG



84 310 ...

DCONMS _{h6}	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS	
mm	mm	mm	mm	mm	mm	mm	mm	
12	3	8	150					003
12	4	8	150					004
12	5	10	150					005
12	6	10	150	36	26	M5	2.5	006
16	3	10	150					103
16	4	10	150					104
16	5	10	150					105
16	6	10	150	36	26	M5	2.5	106
16	8	12	150	36	26	M6	3.0	108
20	3	10	150					203
20	4	10	150					204
20	5	10	150					205
20	6	10	150	36	26	M5	2.5	206
20	8	12	150	36	26	M6	3.0	208
20	10	14	150	42	32	M8x1	3.0	210
20	12	16	150	47	37	M10x1	5.0	212
25	3	10	150					303
25	4	10	150					304
25	5	15	150					305
25	6	20	150	36	26	M5	2.5	306
25	8	20	150	36	26	M6	3.0	308
25	10	20	150	42	32	M8x1	3.0	310
25	12	20	150	47	37	M10x1	5.0	312
25	14	20	150	47	37	M10x1	5.0	314
25	16	22	150	50	40	M10x1	5.0	316
32	6	20	150	36	26	M5	2.5	406
32	8	20	150	36	26	M6	3.0	408
32	10	24	150	42	32	M8x1	3.0	410
32	12	24	150	47	37	M10x1	5.0	412
32	14	27	150	47	37	M10x1	5.0	414
32	16	27	150	50	40	M10x1	5.0	416
32	18	27	150	50	40	M10x1	5.0	418
32	20	27	150	52	42	M10x1	5.0	420

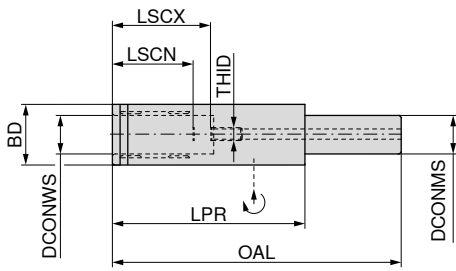
 Observe the minimum clamping depth on → Page 210.

Hydraulic expansion extension especially for Hydraulic Chucks

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

Scope of supply:


Base body with backstop screw and pressure screw



G 2.5 n_{max} 25000

84 313 ...

DCONMS	DCONWS	BD	LPR	OAL	LSCX	LSCN	THID	
mm	mm	mm	mm	mm	mm	mm		
20	12	25.0	100	150	46	36	M6	112
20	20	31.5	100	150	51	41	M10x1	120
32	20	31.5	90	150	51	41	M10x1	132
32	20	31.5	90	200	51	41	M10x1	232

 Observe the minimum clamping depth on → **Page 210.**



Stop screw IK

83 950 ...

Spare parts for Article no.

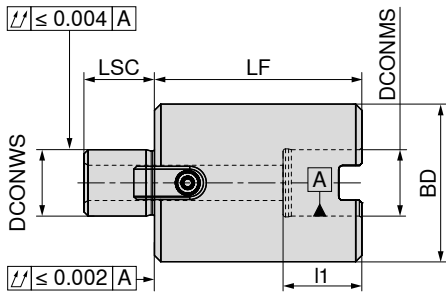
84 313 112	M6x12.5 - SW3	419
84 313 120	M10x1x13.5 - SW5	421
84 313 132	M10x1x13.5 - SW5	421
84 313 232	M10x1x13.5 - SW5	421

Extension for Shell mill arbors

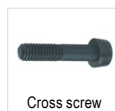
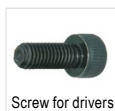
▲ Variable applications through usage of one or two extensions (max. 2 x 50 mm possible)

Scope of supply:

Holder without clamping screw



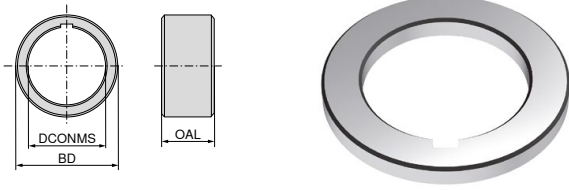
						82 648 ...
DCONWS _{H5}	DCONMS _{H5}	LF	BD	LSC	I ₁	
mm	mm	mm	mm	mm	mm	
16	16	50	38	17	19	050
16	16	75	38	17	19	075
22	22	50	48	19	21	150
22	22	75	48	19	21	175
27	27	50	58	21	23	250
27	27	75	58	21	23	275
32	32	50	78	24	26	350
32	32	75	78	24	26	375
40	40	50	88	27	29	450
40	40	75	88	27	29	475



		83 950 ...			83 950 ...			82 649 ...			82 649 ...
Spare parts for Article no.											
82 648 050	M3x8	296	8x9x17.5	120	M8x125	001	M8x80	050			
82 648 075	M3x8	296	8x9x17.5	120			M8x100	075			
82 648 150	M4x12	297	10x11x20.5	121	M10x125	100	M10x80	150			
82 648 175	M4x12	297	10x11x20.5	121			M10x100	175			
82 648 250	M5x12	136	12x13x24.3	122	M12x125	200	M12x80	250			
82 648 275	M5x12	136	12x13x24.3	122			M12x100	275			
82 648 350	M5x20	137	14x21x21.2	123	M16x125	300	M16x80	350			
82 648 375	M5x20	137	14x21x21.2	123			M16x100	375			
82 648 450	M6x16	138	15.9x16.3x19.5	295							
82 648 475	M6x16	138	15.9x16.3x19.5	295							

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

Milling Adapter Rings DIN 2084 Form B



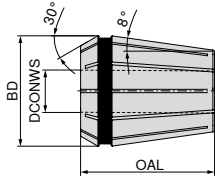
83 385 ...

DCONMS mm	BD mm	OAL mm	
13	22	2	013
	22	3	113
	22	4	213
	22	5	313
	22	6	413
	22	10	513
16	26	2	016
	26	3	116
	26	4	216
	26	5	316
	26	6	416
	26	10	516
	26	20	616
	26	30	716
22	34	2	022
	34	3	122
	34	4	222
	34	5	322
	34	6	422
	34	10	522
	34	20	622
	34	30	722
27	41	2	027
	41	3	127
	41	4	227
	41	5	327
	41	6	427
	41	10	527
	41	20	627
	41	30	727
32	47	2	032
	47	3	132
	47	4	232
	47	5	332
	47	6	432
	47	10	532
	47	20	632
	47	30	732
40	55	2	040
	55	3	140
	55	4	240
	55	5	340
	55	6	440
	55	10	540
	55	20	640
	55	30	740

ER precision collet for precision collet chucks – Centro-P

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

ER-B
2 µm



DCONWS mm	BD = 8.5 OAL = 13.6 4004 E / ER08	BD = 11.5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27.5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	84 577 ...	84 585 ...	84 596 ...	84 597 ...	84 598 ...	84 599 ...
1.0	010	010	010			
1.1			011			
1.2			012			
1.4			014			
1.5	015	015	015			
1.6			016			
1.8			018			
2.0	020	020	020	020	020	
2.2			022			
2.4			024			
2.5	025	025	025	025		
2.6			026			
2.8			028			
3.0	030	030	030 ¹⁾	030	030	030
3.2			032			
3.4			034			
3.5	035	035	035	035		
3.6			036			
3.8			038			
4.0	040	040	040 ¹⁾	040	040 ¹⁾	040
4.5	045	045	045	045		
5.0	050	050	050 ¹⁾	050	050	050
5.5		055	055	055		
5.6			056			
6.0		060	060 ¹⁾	060 ¹⁾	060 ¹⁾	060
6.3			063			
6.5		065	065	065		
7.0		070	070	070	070	070
7.1			071			
7.5			075	075		
8.0			080 ¹⁾	080 ¹⁾	080 ¹⁾	080
8.5			085	085		
9.0			090	090	090	090
9.5			095	095		
10.0			100 ¹⁾	100 ¹⁾	100 ¹⁾	100
10.5			105	105		
11.0			110	110	110	110
11.5			115	115		
12.0			120 ¹⁾	120 ¹⁾	120 ¹⁾	120
12.5			125	125		
13.0			130	130	130	130
13.5			135	135		
14.0			140 ¹⁾	140 ¹⁾	140 ¹⁾	140
14.5			145	145		
15.0			150	150	150	150
15.5			155	155		
16.0			160 ¹⁾	160 ¹⁾	160 ¹⁾	160
17.0				170	170	170
18.0				180	180	180
19.0				190	190	190
20.0				200 ¹⁾	200 ¹⁾	200
21.0						210
22.0						220
23.0						230
24.0						240
25.0						250
26.0						260
Set in wooden box			999	999	999	

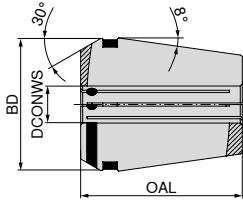
1) Included in the set

Clamping range covered: H10 corresponding to shank Ø DCONWS

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

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

ER-B
2 µm

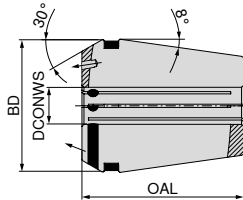


DCONWS mm	BD = 11.3 OAL = 18 425 E / ER11	BD = 16.7 OAL = 27.5 425 E / ER16	BD = 25.7 OAL = 34 429 E / ER25	BD = 32.7 OAL = 40 469 E / ER32	BD = 40.7 OAL = 46 471 E / ER40
	84 536 ...	84 537 ...	84 538 ...	84 539 ...	84 540 ...
3	030	030	030	030	
4	040	040	040	040	
5	050	050	050	050	
6	060	060	060	060	060
7		070	070	070	
8		080	080	080	080
9		090	090	090	
10		100	100	100	100
11			110	110	
12			120	120	120
13			130	130	
14			140	140	140
15			150	150	
16			160	160	160
17				170	
18				180	180
19				190	
20				200	200
22					220
25					250

ER precision collet, sealed with coolant holes, for precision collet chucks – Centro-P

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

ER-A
2 µm

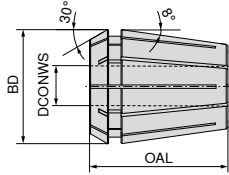


DCONWS mm	BD = 11.3 OAL = 18 4012 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	84 547 ...		84 548 ...		84 549 ...		84 550 ...		84 551 ...	
3	03000	03000								
4	04000	040			040		040			
6	06000	060			060		060		06000	
8		080			080		080		08000	
10		10000			100		100		100	
12					120		120		120	
14					140		140		140	
16					16000		160		160	
18							180			
20							200		200	
25									250	

ER precision collet

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

ER-B
5 µm



	BD = 11.5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27.5 426 E / ER16	BD = 21 OAL = 31.5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	84 576 ...	84 578 ...	84 579 ...	84 580 ...	84 581 ...	84 582 ...
DCONWS mm						
1.0	010	010	010 ¹⁾	010 ¹⁾		
1.5	015	015 ¹⁾	015 ¹⁾	015 ¹⁾		
2.0	020	020	020	020	020 ¹⁾	
2.5	025	025 ¹⁾	025 ¹⁾	025 ¹⁾	025 ¹⁾	
3.0	030	030	030	030	030	030 ¹⁾
3.5	035					
4.0	040	040	040	040	040	040
4.5	045					
5.0	050	050	050	050	050	050
5.5	055					
6.0	060	060	060	060	060	060
6.5	065					
7.0	070	070	070	070	070	070
8.0		080	080	080	080	080
9.0		090	090	090	090	090
10.0		100	100	100	100	100
11.0			110	110	110	110
12.0			120	120	120	120
13.0			130	130	130	130
14.0				140	140	140
15.0				150	150	150
16.0				160	160	160
17.0					170	170
18.0					180	180
19.0					190	190
20.0					200	200
21.0						210
22.0						220
23.0						230
24.0						240
25.0						250
26.0						260
Set in wooden box	999	999	999	999	999	999

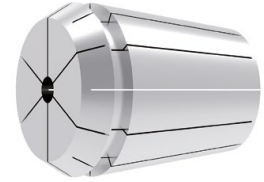
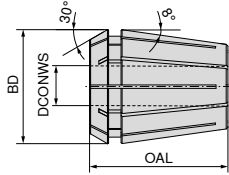
1) not included in the set

Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- ▲ DIN ISO 15488-B (alt DIN 6499-B)
- ▲ 16 times slotted
- ▲ Double taper clamping

ER-B
10 µm



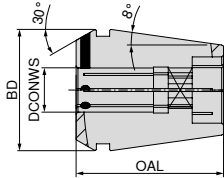
DCONWS mm	NEW	NEW	NEW	NEW
	BD = 8.5 OAL = 13.6 4004 E / ER08	BD = 17 OAL = 27.5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32
	82 683 ...	82 684 ...	82 685 ...	82 686 ...
1.0	01000	01000		
1.5	01500			
2.0	02000	02000	02000	
2.5	02500			
3.0	03000	03000	03000	03000
3.5	03500			
4.0	04000	04000	04000	04000
4.5	04500			
5.0	05000	05000	05000	05000
6.0		06000	06000	06000
7.0		07000	07000	07000
8.0		08000	08000	08000
9.0		09000	09000	09000
10.0		10000	10000	10000
11.0			11000	11000
12.0			12000	12000
13.0			13000	13000
14.0			14000	14000
15.0			15000	15000
16.0			16000	16000
17.0				17000
18.0				18000
19.0				19000
20.0				20000
Set in plastic case	99900	99900	99900	99900

Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER precision tap collet

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ $p_{max.} = 60$ bar
- ▲ Coated collet

ER-A
10 μ m



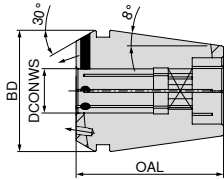
BD = 16.7 OAL = 27.5 4031 E / ER16	BD = 25.7 OAL = 34 4282 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
--	--	--

DCONWS mm	84 531 ...	84 533 ...	84 534 ...
	2.8	028	
3.5	035	035	
4.0	040	040	040
4.5	045	045	045
6.0	060	060	060
7.0	070	070	070
8.0	080	080	080
9.0	090	090	090
10.0		100	100
11.0		110	110
12.0		120	120
14.0		140	140
16.0		160	160
18.0			180
20.0			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



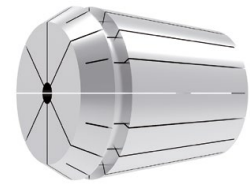
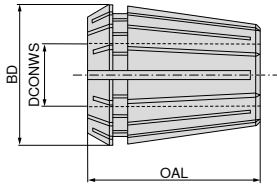
	BD = 16.7 OAL = 27.5 4537 E / ER16	BD = 25.7 OAL = 34 4537 E / ER25	BD = 32.7 OAL = 40 4537 E / ER32
	84 567 ...	84 568 ...	84 569 ...
DCONWS			
mm			
3.5	035		
4.5	045	045	045
6.0	060	060	060
7.0	070	070	070
8.0	080	080	080
9.0	09000	090	090
10.0		100	100
11.0		110	110
12.0		120	120
14.0		140	140
16.0		16000	160
18.0			180
20.0			200

DCONWS
mm
3.5
4.5
6.0
7.0
8.0
9.0
10.0
11.0
12.0
14.0
16.0
18.0
20.0


ER precision collet

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

ER-B
20 µm



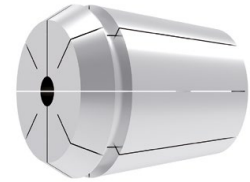
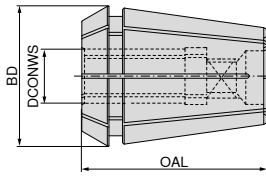
DCONWS mm	NEW		NEW		NEW		NEW		NEW	
	BD = 17 OAL = 27.5 426 E / ER16	BD = 21 OAL = 31.5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40					
	82 687 ...	82 688 ...	82 689 ...	82 690 ...	82 691 ...					
1	01000	01000								
2	02000	02000	02000							
3	03000	03000	03000							
4	04000	04000	04000							
5	05000	05000	05000							
6	06000	06000	06000							
7	07000	07000	07000							
8	08000	08000	08000							
9	09000	09000	09000							
10	10000	10000	10000							
11		11000	11000							
12		12000	12000							
13		13000	13000							
14			14000							
15			15000							
16			16000							
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
Set in plastic case	99900	99900	99900	99900	99900					

 Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet with internal square

- ▲ Similar DIN ISO 15488-A (old DIN 6499-A)
- ▲ 8 times slotted
- ▲ Double taper collets for holding taps on synchronized spindle machines, without compensating lengths

ER-A
15 µm



NEW

BD = 25.7
OAL = 34
430 E / ER25

82 692 ...

NEW

BD = 32.7
OAL = 40
470 E / ER32

82 693 ...

NEW

BD = 40.7
OAL = 46
472 E / ER40

82 694 ...

DCONWS mm	NEW 82 692 ...	NEW 82 693 ...	NEW 82 694 ...
4.5	04500	04500	
5.5	05500	05500	
6.0	06000	06000	
7.0	07000	07000	07000
8.0	08000	08000	08000
9.0	09000	09000	09000
10.0	10000	10000	10000
11.0	11000	11000	11000
12.0	12000	12000	12000
14.0		14000	14000
16.0		16000	16000
18.0			18000
20.0			20000

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box



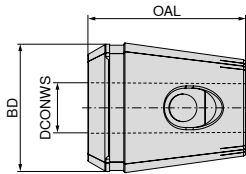
83 689 ...

for collet	capacity	
4004E (ER08)	9	008
426E (ER16)	10	116
428E (ER20)	11	020
4008E (ER11)	13	011
430E (ER25)	14	025
470E (ER32)	18	032
472E (ER40)	24	040

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

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

ER
5 μm



BD = 32.7
OAL = 40
ER 32

83 629 ...

DCONWS mm	
12	120
16	160



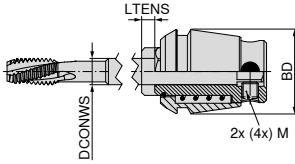
83 950 ...

Spare parts DCONWS		
12	CP 32	455
16	CP 32	455

Tapping Collet Form ET (ER) with length compensation

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

ER
10 µm



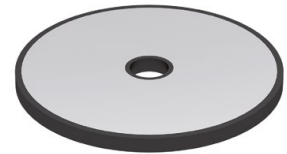
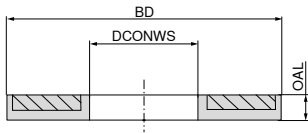
DCONWS mm	BD = 17 LTENS = 7 426 E / ER16	BD = 21 LTENS = 7 428 E / ER20	BD = 26 LTENS = 8 430 E / ER25	BD = 33 LTENS = 10 470 E / ER32	BD = 41 LTENS = 13 472 E / ER40
	80 661 ...	80 662 ...	80 663 ...	80 664 ...	80 665 ...
2.2	022	022			
2.5	025	025	025		
2.8	028	028	028		
3.0	030	030	030		
3.5	035	035	035		
4.0	040	040	040		
4.5	045	045	045	045	
5.0				050	
5.5	055	055	055	055	
6.0	060	060	060	060	060
7.0		070	070	070	070
8.0			080	080	080
9.0			090	090	090
10.0			100	100	100
11.0				110	110
12.0				120	120
14.0					140
16.0					160



When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

Sealing discs for precision collet chucks – Centro-P, ER-Standard and ER-Mini with thru coolant

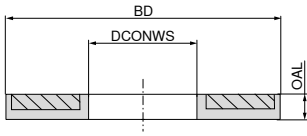
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0.1 mm / +0.4 mm
- ▲ Can be applied up to 80 bar



DCONWS mm	BD = 12.6 OAL = 2 426E (ER16)	BD = 15.8 OAL = 2 428E (ER20)	BD = 20.2 OAL = 2 430E (ER25)	BD = 26.2 OAL = 2 444E / OZ (ER32)	BD = 34.2 OAL = 2 472E (ER40)
	83 690 ...	83 694 ...	83 691 ...	83 692 ...	83 693 ...
1.0	010				
1.5	015				
2.0	020				
2.5	025				
3.0	030	020	020	020	030
3.5	035	030	030	030	035
4.0	040	035	035	035	040
4.5	045	040	040	040	045
5.0	050	045	045	045	050
5.5	055	050	050	050	055
6.0	060	055	055	055	060
6.5	065	060	060	060	065
7.0	070	065	065	065	070
7.5	075	070	070	070	075
8.0	080	075	075	075	080
8.5	085	080	080	080	085
9.0	090	085	085	085	090
9.5	095	090	090	090	095
10.0	100	095	095	095	100
10.5		100	100	100	105
11.0		105	105	105	110
11.5		110	110	110	115
12.0		115	115	115	120
12.5		120	120	120	125
13.0		125	125	125	130
13.5		130	130	130	135
14.0			135	135	140
14.5			140	140	145
15.0			145	145	150
15.5			150	150	155
16.0			155	155	160
16.5			160	160	165
17.0				165	170
17.5				170	175
18.0				175	180
18.5				180	185
19.0				185	190
19.5				190	195
20.0				195	200
20.5				200	205
21.0					210
21.5					215
22.0					220
22.5					225
23.0					230
23.5					235
24.0					240
24.5					245
25.0					250
25.5					255
26.0					260

Sealing rings for precision collet chucks – PCC

- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0.1 mm / +0.4 mm
- ▲ Can be applied up to 100 bar



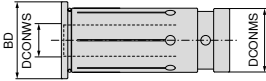
DCONWS mm	BD = 13 OAL = 4 426E (ER16)	BD = 21 OAL = 4 430E (ER25)	BD = 27 OAL = 4 470E (ER32)
	82 630 ...	82 631 ...	82 632 ...
3.0	03000	03000	03000
3.5	03500	03500	03500
4.0	04000	04000	04000
4.5	04500	04500	04500
5.0	05000	05000	05000
5.5	05500	05500	05500
6.0	06000	06000	06000
6.5	06500	06500	06500
7.0	07000	07000	07000
7.5	07500	07500	07500
8.0	08000	08000	08000
8.5	08500	08500	08500
9.0	09000	09000	09000
9.5	09500	09500	09500
10.0	10000	10000	10000
10.5		10500	10500
11.0		11000	11000
11.5		11500	11500
12.0		12000	12000
12.5		12500	12500
13.0		13000	13000
13.5		13500	13500
14.0		14000	14000
14.5		14500	14500
15.0		15000	15000
15.5		15500	15500
16.0		16000	16000
16.5			16500
17.0			17000
17.5			17500
18.0			18000
18.5			18500
19.0			19000
19.5			19500
20.0			20000

Reducing sleeves for hydraulic and high pressure chucks – Metric to Inch

▲ Thru coolant to 69 bar (1.000 psi)

Scope of supply:

Reduction Collets are supplied with Rubber and Aluminum Coolant seals that are removable but not desired

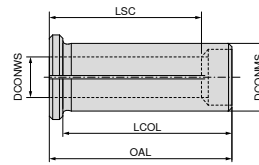


87 609 ...

DCONMS	DCONMS	DCONWS	OAL	LCOL	LSC	
inch	mm	inch	inch	inch	inch	
0.787	20	0.125	2.065	1.988	0.720	12500
0.787	20	0.187	2.065	1.988	0.980	18700
0.787	20	0.250	2.065	1.988	1.180	25000
0.787	20	0.312	2.065	1.988	1.420	31200
0.787	20	0.364	2.065	1.988	1.420	37500
0.787	20	0.437	2.065	1.988	1.420	43700
0.787	20	0.500	2.065	1.988	1.420	50000
0.787	20	0.562	2.065	1.988	1.420	56200
0.787	20	0.625	2.065	1.988	1.420	62500
1.260	32	0.875	2.510	2.382	1.870	87500
1.260	32	1.000	2.510	2.382	1.870	99900

Reducing sleeves for hydraulic and high pressure chucks

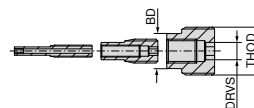
▲ Thru coolant to 80 bar



83 609 ...

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

Stop screw for use with reducing sleeves in hydraulic chuck

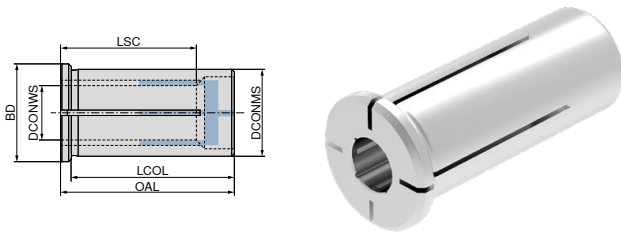


83 950 ...

THOD	BD	DRVS	
	mm	mm	
M4x0.5x26	2.8	2	425
M8x1x19	5.8	2.5	428
M10x1x16	5.8	3	426
M16x1x16	11.7	5	427

Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



83 611 ...

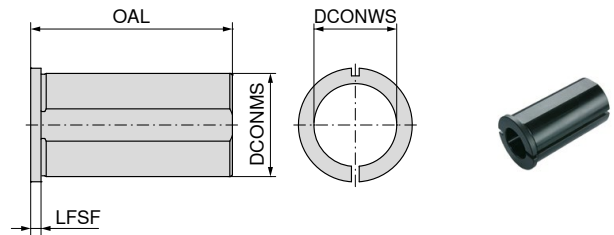
DCONMS mm	DCONWS mm	BD mm	OAL mm	LCOL mm	LSC mm	
12	3	16	44	40	29	10300
12	4	16	44	40	29	10400
12	5	16	44	40	29	10500
12	6	16	44	40	36	10600
12	8	16	44	40	37	10800
20	3	25	54	50	28	20300
20	4	25	54	50	28	20400
20	5	25	54	50	28	20500
20	6	25	54	50	36	20600
20	8	25	54	50	37	20800
20	10	25	54	50	40	21000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

Adaptation for the use of stop screws for reducing sleeves

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

Slotted reduction sleeves

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

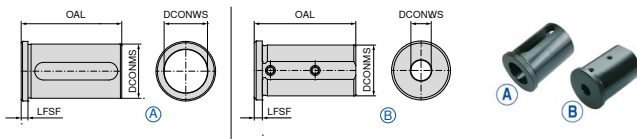


83 271 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	
20	6	30	4	206
20	8	30	4	208
20	10	30	4	210
20	12	30	4	212
20	15	30	4	215
20	16	30	4	216
25	6	40	4	256
25	8	40	4	258
25	10	40	4	260
25	12	40	4	262
25	15	40	4	265
25	16	40	4	266
25	20	40	4	270
32	6	50	4	326
32	8	50	4	328
32	10	50	4	330
32	12	50	4	332
32	15	50	4	335
32	16	50	4	336
32	20	50	4	340
40	10	78	4	410
40	12	78	4	412
40	15	78	4	415
40	16	78	4	416
40	20	78	4	420
40	25	78	4	425
40	32	78	4	432
50	20	88	4	520
50	25	88	4	525
50	32	88	4	532
50	40	88	4	540

Reduction sleeves for direct clamping

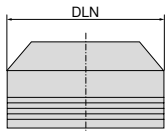
▲ For tools with cylindrical shank



83 272 ...

DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	
25	6	50	4	B	256
25	8	50	4	B	258
25	10	50	4	B	260
25	12	50	4	B	262
25	14	50	4	A	264
25	16	50	4	A	266
25	20	50	4	A	270
32	6	58	5	B	326
32	8	58	5	B	328
32	10	58	5	B	330
32	12	58	5	B	332
32	16	58	5	A	336
32	20	58	5	A	340
32	25	58	5	A	345
40	8	58	5	B	408
40	10	58	5	B	410
40	12	58	5	B	412
40	16	58	5	A	416
40	20	58	5	A	420
40	25	58	5	A	425
40	32	58	5	A	432
50	12	75	5	B	512
50	16	75	5	A	516
50	20	75	5	A	520
50	25	75	5	A	525
50	32	75	5	A	532
50	40	75	5	A	540

ER standard lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
426E (ER16)	1 - 10	30	80	001	011
430E (ER25)	2 - 16	40	90	003	013
470E (ER32)	2 - 20	50	180	005	015
472E (ER40)	3 - 26	63	200	007	017

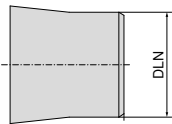
Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



84 950 ...

for collet	84 950 ...
4004E (ER08)	070
4008E (ER11)	072

Tapered lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
426E (ER16)	1 - 10	24	80	031	033

Mini lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...	84 950 ...
4008E (ER11)	Ø 3.0	16	10	042 ¹⁾	
4008E (ER11)	Ø 4.0	16	10	043 ¹⁾	
4008E (ER11)	Ø 5.0	16	10	044 ¹⁾	
4008E (ER11)	Ø 6.0	16	10	045 ¹⁾	
4008E (ER11)	Ø 7.0	16	10	046 ¹⁾	
426E (ER16)	1 - 10	22	30	034	
426E (ER16)	1 - 10	22	28		035

1) directly sealed

Roll key

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



84 950 ...

for lock nut	DLN mm	
4004E / ER08 CP mini	10	050 ¹⁾
4008E / ER 11 CP mini	16	080 ¹⁾
426E / ER 16 CP / ER 16 mini	22	026 ¹⁾
426E / ER 16 CP Conical	24	082 ²⁾
426E / ER 16 CP	30	027
426E / ER 16 STD	32	028
430E / ER 25 CP	40	054
470E / ER 32 CP + STD	50	056
470E / ER 32 HDC	53	30200
472E / ER 40 CP + STD	63	057

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

Torque key



84 435 ...

TQX Nm	Square mm	
5 - 30	9 x 12	030
10 - 80	9 x 12	080
20 - 200	14 x 18	200

Additional roll key device for torque key

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

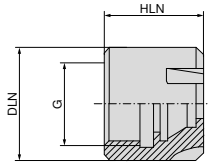


84 950 ...

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

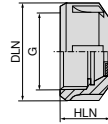
- 1) For mini lock nuts
- 2) For tapered lock nuts

Mini ER lock nut



for collet	THSZMS	DLN mm	HLN mm	TQX Nm	62 950 ...
426E (ER16)	M19x1	22	18	28	066

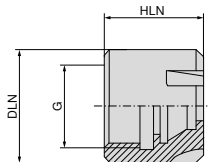
ER Lock nut



for seals

for collet	THSZMS	DLN mm	HLN mm	62 950 ...	83 950 ...
426E (ER16)	M22x1.5	32	17.0	054	
426E (ER16)	M22x1.5	32	22.0		054
428E (ER20)	M25x1.5	35	23.2	055	053
430E (ER25)	M32x1.5	42	20.0		055
430E (ER25)	M32x1.5	42	24.7		055
470E (ER32)	M40x1.5	50	27.0		056
472E (ER40)	M50x1.5	63	30.7		057

Mini ER lock nut for sealing rings



for seals

for collet	THSZMS	DLN mm	HLN mm	TQX Nm	83 950 ...
426E (ER16-DS)	M19x1	22	22.0	28	058
428E (ER20-DS)	M24x1	28	23.2	35	059
430E (ER25-DS)	M30x1	35	24.7	40	060

Y clamping key



for lock nut	83 357 ...
ER 16	116
ER 20	12000
ER 25	125
ER 32	132
ER 40	140

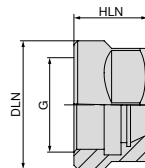
ER Mini clamping key



for collet	83 950 ...
430E (ER25)	103

ER Lock nut

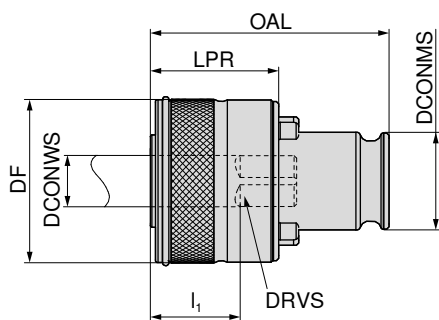
▲ DRVS = Drive size



for collet	THSZMS	DRVS mm	DLN mm	HLN mm	62 950 ...
426E (ER16)	M22x1.5	25	28	18.0	044
428E (ER20)	M25x1.5	30	34	19.5	045

Quick change tap adapter with overload clutch

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

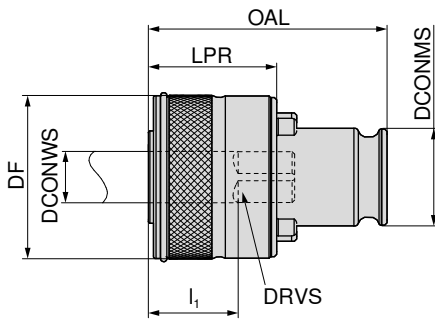


83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	l ₁	LPR	
	mm	mm			mm	mm	mm	mm	mm	
01	2.8	2.1	M2		33	19	46.5	17	25	100
01	2.8	2.1	M2.5		33	19	46.5	17	25	101
01	3.5	2.7	M3		33	19	46.5	17	25	102
01	4.0	3.0	M3.5		33	19	46.5	17	25	103
01	4.5	3.4	M4		33	19	46.5	17	25	104
01	6.0	4.9	M4.5		33	19	46.5	17	25	105
01	6.0	4.9	M5		33	19	46.5	17	25	106
01	4.5	3.4		M6	33	19	46.5	17	25	107
01	6.0	4.9	M6		33	19	46.5	17	25	108
01	5.5	4.3		M7	33	19	46.5	17	25	109
01	7.0	5.5	M7		33	19	46.5	17	25	110
01	6.0	4.9		M8	33	19	46.5	17	25	111
01	8.0	6.2	M8		33	19	46.5	17	25	112
01	9.0	7.0	M9		33	19	46.5	17	25	113
01	7.0	5.5		M10	33	19	46.5	17	25	114
01	10.0	8.0	M10		33	19	46.5	17	25	115
01	8.0	6.2		M11	33	19	46.5	17	25	116
01	9.0	7.0		M12	33	19	46.5	17	25	117
02	6.0	4.9	M4.5 - M6		50	31	69.0	30	34	200
02	6.0	4.9	M7 (DIN 352)		50	31	69.0	30	34	201
02	7.0	5.5	M7		50	31	69.0	30	34	202
02	6.0	4.9		M8	50	31	69.0	30	34	203
02	8.0	6.2	M8		50	31	69.0	30	34	204
02	9.0	7.0	M9		50	31	69.0	30	34	205
02	7.0	5.5		M10	50	31	69.0	30	34	206
02	10.0	8.0	M10		50	31	69.0	30	34	207
02	8.0	6.2		M11	50	31	69.0	30	34	208
02	9.0	7.0		M12	50	31	69.0	30	34	209
02	11.0	9.0		M14	50	31	69.0	30	34	210
02	12.0	9.0		M16	50	31	69.0	30	34	211
02	14.0	11.0		M18	50	31	69.0	30	34	212
02	16.0	12.0		M20	50	31	69.0	30	34	213

Quick change tap adapter with overload clutch, with through coolant

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

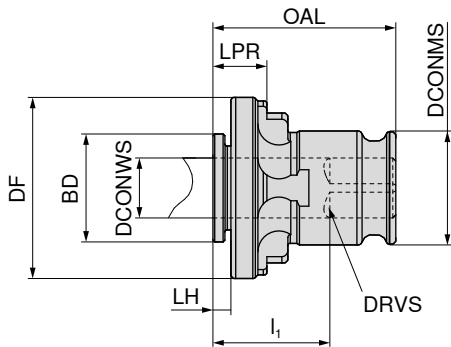


83 616 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR	
	mm	mm			mm	mm	mm	mm	mm	
01	3.5	2.7	M3	M4.5 - M5	33	19	46.5	17	25	100
01	4.5	3.4	M4	M6	33	19	46.5	17	25	102
01	5.5	4.3		M7	33	19	46.5	17	25	104
01	6.0	4.9	M4.5 - M6	M8	33	19	46.5	17	25	106
01	7.0	5.5	M7	M10	33	19	46.5	17	25	108
01	8.0	6.2	M8	M11	33	19	46.5	17	25	110
01	9.0	7.0	M9	M12	33	19	46.5	17	25	112
01	10.0	8.0	M10		33	19	46.5	17	25	114
01	11.0	9.0		M14	33	19	46.5	17	25	116
02	6.0	4.9	M4.5 - M6	M8	50	31	69.0	30	34	200
02	7.0	5.5	M7	M10	50	31	69.0	30	34	202
02	8.0	6.2	M8	M11	50	31	69.0	30	34	204
02	9.0	7.0	M9	M12	50	31	69.0	30	34	206
02	10.0	8.0	M10		50	31	69.0	30	34	208
02	11.0	9.0		M14	50	31	69.0	30	34	210
02	12.0	9.0	M12	M16	50	31	69.0	30	34	212
02	14.0	11.0		M18	50	31	69.0	30	34	214
02	16.0	12.0		M20	50	31	69.0	30	34	216

Quick change tap adapter

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

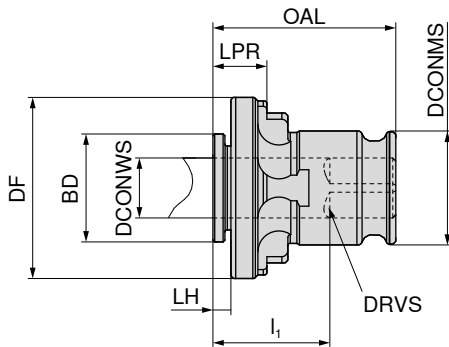


83 610 ...

SZID	DCONWS mm	BD mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LH mm	I ₁ mm	LPR mm	
01	3.5	18	2.7	M3		30.2	19	31	3.5	17	9.5	100
01	4.5	18	3.4	M4		30.2	19	31	3.5	17	9.5	101
01	4.0	18	3.0	M3.5		30.2	19	31	3.5	17	9.5	102
01	2.8	18	2.1	M2 - M2.6		30.2	19	31	3.5	17	9.5	103
01	5.5	18	4.3		M7	30.2	19	31	3.5	17	9.5	104
01	6.0	18	4.9	M4.5 - M6	M8	30.2	19	31	3.5	17	9.5	105
01	7.0	18	5.5	M7	M10	30.2	19	31	3.5	17	9.5	106
01	8.0	18	6.2	M8	M11	30.2	19	31	3.5	17	9.5	107
01	9.0	18	7.0	M9	M12	30.2	19	31	3.5	17	9.5	108
01	10.0	18	8.0	M10		30.2	19	31	3.5	17	9.5	109
01	11.0	18	9.0		M14	30.2	19	31	3.5	17	9.5	110
02	6.0	26	4.9	M4.5 - M6		46.3	31	46	2.5	30	11.0	200
02	7.0	26	5.5	M7		46.3	31	46	2.5	30	11.0	201
02	8.0	26	6.2	M8		46.3	31	46	2.5	30	11.0	202
02	9.0	26	7.0	M9		46.3	31	46	2.5	30	11.0	203
02	10.0	26	8.0	M10		46.3	31	46	2.5	30	11.0	204
02	11.0	26	9.0		M14	46.3	31	46	2.5	30	11.0	205
02	12.0	26	9.0		M16	46.3	31	46	2.5	30	11.0	206
02	14.0	26	11.0		M18	46.3	31	46	2.5	30	11.0	207
02	16.0	26	12.0		M20	46.3	31	46	2.5	30	11.0	208
02	18.0	26	14.5		M22 - M24	46.3	31	46	2.5	30	11.0	209

Quick change tap adapter, with through coolant

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

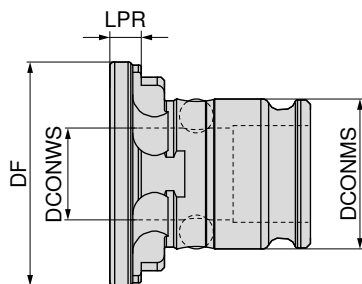


83 614 ...

SZID	DCONWS	BD	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LH	I ₁	LPR	
	mm	mm	mm			mm	mm	mm	mm	mm	mm	
01	3.5	18	2.7		M4.5 - M5	30.2	19	31	3.5	17	9.5	100
01	4.5	18	3.4	M4	M6	30.2	19	31	3.5	17	9.5	102
01	5.5	18	4.3		M7	30.2	19	31	3.5	17	9.5	104
01	6.0	18	4.9	M4.5 - M6	M8	30.2	19	31	3.5	17	9.5	106
01	7.0	18	5.5	M7	M10	30.2	19	31	3.5	17	9.5	108
01	8.0	18	6.2	M8	M11	30.2	19	31	3.5	17	9.5	110
01	9.0	18	7.0	M9	M12	30.2	19	31	3.5	17	9.5	112
01	10.0	18	8.0	M10		30.2	19	31	3.5	17	9.5	114
02	6.0	26	4.9	M4.5 - M6	M8	46.3	31	46	2.5	30	11.0	200
02	7.0	26	5.5	M7	M10	46.3	31	46	2.5	30	11.0	202
02	8.0	26	6.2	M8	M11	46.3	31	46	2.5	30	11.0	204
02	9.0	26	7.0	M9	M12	46.3	31	46	2.5	30	11.0	206
02	10.0	26	8.0	M10		46.3	31	46	2.5	30	11.0	208
02	11.0	26	9.0		M14	46.3	31	46	2.5	30	11.0	210
02	12.0	26	9.0	M12	M16	46.3	31	46	2.5	30	11.0	212
02	14.0	26	11.0		M18	46.3	31	46	2.5	30	11.0	214
02	16.0	26	12.0		M20	46.3	31	46	2.5	30	11.0	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.

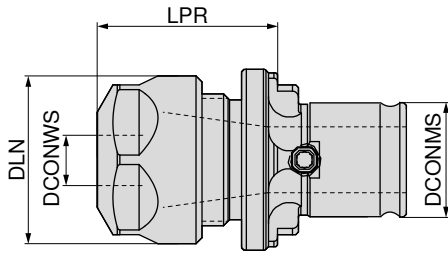


83 624 ...

SZID	DF	DCONMS	DCONWS	LPR	
	mm	mm	mm	mm	
02	46	31	19	8.5	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



83 618 ...

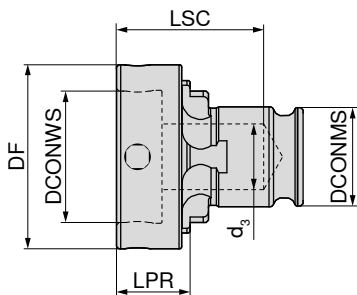
SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet
01	1 - 10	28	19	29.5	ER 16
02	2 - 16	42	31	38.5	ER 25

010 ¹⁾
016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



83 622 ...

SZID	for size	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
01	16 x 5	25	19	16	9	12.5	23
01	20 x 5	30	19	20	9	12.5	23
01	20 x 7	30	19	20	11	12.5	25
01	25 x 9	35	19	25	14	12.5	28
01	38 x 10	48	19	38	15	14.2	29
01	30 x 11	40	19	30	16	12.5	30
01	38 x 14	48	19	38	19	14.2	33
02	20 x 5	30	31	20	22	15.0	57
02	20 x 7	30	31	20	22	15.0	57
02	25 x 9	35	31	35	22	15.0	57
02	38 x 10	48	31	38	22	22.0	57
02	30 x 11	40	31	30	22	22.0	57
02	38 x 14	48	31	38	25	22.0	60
02	45 x 14	57	31	45	29	22.0	64
02	45 x 18	57	31	45	29	22.0	64

116
120
121
125
138
130
139
220
221
225
238
230
239
245
246

TORX® Screwdriver



80 950 ...

Size	LB mm	TQX Nm	
T05	35	0.5	082
T06	35	0.9	083
T07	35	1.7	084
T08	40	2.6	085
T09	40	3.4	086
T10	40	4.5	087
T15	45	7.7	088
T20	45	12.7	089

TORX® Screwdriver sets



80 950 ...

Size	
T06, T07, T08, T09, T10, T15, T20	090

TORX PLUS® Screwdriver



80 950 ...

Size	LB mm	TQX Nm	
T05-IP	35	0.5	057
T06-IP	35	0.9	058
T07-IP	35	1.7	059
T08-IP	40	2.6	060
T09-IP	40	3.4	061
T10-IP	40	4.5	062
T15-IP	45	7.7	063
T20-IP	45	12.7	064

TORX PLUS® Screwdriver sets



80 950 ...

Size	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	091

Allen key with cross handle



80 397 ...

DRVS mm	TQX Nm	
2	1.9	020
2.5	3.8	025
3	6.6	030
4	16	040
5	30	050
6	52	060
8	120	080
10	220	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



80 397 ...

Size	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	99900

TORX® Screwdriver



80 950 ...

Size	LB mm	
T06	60	100
T07	60	101
T08	60	102
T09	60	103
T10	80	104
T15	80	105
T20	100	106
T25	100	107
T30	115	092

TORX PLUS® Screwdriver



80 950 ...

Size	LB mm	
T06-IP	60	116
T07-IP	60	117
T08-IP	60	039
T09-IP	60	118
T10-IP	80	119
T15-IP	80	120
T20-IP	100	121
T25-IP	100	122

TORX® MagicSpring®



80 950 ...

Size	LB mm	
MS T06	60	108
MS T07	60	109
MS T08	60	110
MS T09	60	111
MS T10	80	112
MS T15	80	113
MS T20	100	114
MS T25	100	115
MS T30	100	131

TORX PLUS® MagicSpring®



80 950 ...

Size	LB mm	
MS T06-IP	60	123
MS T07-IP	60	124
MS T08-IP	60	125
MS T09-IP	60	126
MS T10-IP	80	127
MS T15-IP	80	128
MS T20-IP	100	129



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



TorqueFix® Handle

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



80 021 ...

TQX Nm	
0.4	00400
0.5	00500
0.6	006
0.7	007
0.8	008
0.9	00900
1	010
1.1	01100
1.2	012
1.5	01500
1.6	016
2	020
2.5	02500
3	030
3.2	032
3.8	03800
4	040
5	050
5.5	055
6	060
7.2	07200

easyTorque® Handle

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



NEW

80 024 ...

TQX Nm	DRVS mm	BD mm	OAL mm	WT kg	
0.5	4	34	130	0.950	00500
0.6	4	34	130	0.950	00600
0.9	4	34	130	0.940	00900
1.1	4	34	130	0.101	01100
1.2	4	34	130	0.990	01200
1.4	4	34	130	0.101	01400
2.0	4	34	130	0.101	02000
2.5	4	34	130	0.106	02500
3.0	4	34	130	0.104	03000
3.8	4	34	130	0.105	03800
4.0	4	34	130	0.105	04000
4.5	4	34	130	0.105	04500
5.0	4	34	130	0.105	05000

TorqueFix® key

- ▲ With fixed torque
- ▲ Ergonomic key handle, extremely easy to use thanks to compact design
- ▲ Specially designed for difficult to access screws and constricted openings
- ▲ Click signal when the set torque value is reached
- ▲ Standards: DIN EN ISO 6789
- ▲ Accuracy: ± 6%, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



80 392 ...

TQX Nm	DRVS mm	
0.5	4	00500
0.6	4	00600
0.9	4	00900
1.1	4	01100
1.2	4	01200
1.4	4	01400
2.0	4	02000
2.5	4	02500
3.0	4	03000
3.8	4	03800
4.0	4	04000

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



80 950 ...

TQX Nm	
0.4 - 1.0	046
0.5 - 2.0	191
0.8 - 5.0	192
2.0 - 7.0	193

Universal holder for Bits

- ▲ 162 mm long



80 950 ...

for	
DIN3126-C/E 6.3-1/4"	014

Interchangeable blade for hex drive



Size	TQX Nm	short 75 mm	long 175 mm
		80 393 ...	80 950 ...
SW1.5	0.9	01500	151
SW2	1.8	02000	
SW2.5	3.8	02500	153
SW3	5.5	03000	154
SW4	8.0	04000	155

Replaceable Blade for TORX®



Size	TQX Nm	short 75 mm	long 175 mm
		80 394 ...	80 950 ...
T05	0.4		048
T06	0.6	00600	031
T07	0.9	00700	032
T08	1.3	00800	033
T09	2.5	00900	034
T10	3.8	01000	035
T15	5.5	01500	036
T20	8.0	02000	037
T25	8.0	02500	038

Replaceable Blade for TORX PLUS®



Size	TQX Nm	long 175 mm
		80 950 ...
T05-IP	0.5	049
T06-IP	0.8	050
T07-IP	1.3	051
T08-IP	2.0	043
T09-IP	3.0	052
T10-IP	4.5	053
T15-IP	6.6	054
T20-IP	8.0	055
T25-IP	8.0	056



Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ... → **Page 202.**

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 202.**

TORX® short bit (25 mm)

▲ DIN3126-C 6.3 – 1/4"



80 950 ...

Size	TQX Nm	
T06	0.9	015
T07	1.7	016
T08	2.6	017
T09	3.4	018
T10	4.5	019
T15	7.7	020
T20	12.7	021
T25	19	022
T30	37.4	093

TORX® long bit (50 mm)

▲ DIN3126-E 6.3 – 1/4"



80 950 ...

Size	TQX Nm	
T06	0.9	023
T07	1.7	024
T08	2.6	025
T09	3.4	026
T10	4.5	027
T15	7.7	028
T20	12.7	029
T25	19	030
T30	37.4	094

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6.3 – 1/4"



80 950 ...

Size	TQX Nm	
T08-IP	2.6	068
T09-IP	3.4	069
T10-IP	4.5	070
T15-IP	7.7	071
T20-IP	12.7	072
T25-IP	19	073

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6.3 – 1/4"



80 950 ...

Size	TQX Nm	
T08-IP	2.6	040
T09-IP	3.4	077
T10-IP	4.5	078
T15-IP	7.7	079
T20-IP	12.7	080
T25-IP	19	081

Bit – hexagonal (50 mm)

▲ DIN3126-E 6.3 – 1/4"



80 398 ...

Size	
SW1.5	01500
SW2	02000
SW2.5	02500
SW3	03000
SW3.5	03500
SW4	04000
SW4.5	04500
SW5	05000
SW6	06000
SW8	08000

TORX PLUS® Allen key

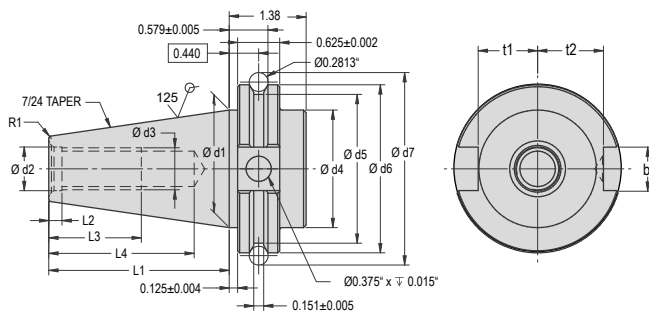


80 951 ...

Size	OAL mm	
T07-IP	44	00700
T08-IP	47	00800
T09-IP	51	00900
T10-IP	54	01000
T15-IP	58	01500
T20-IP	62	02000
T25-IP	67	02500
T27-IP	73	02700
T30-IP	79	03000
T40-IP	88	04000

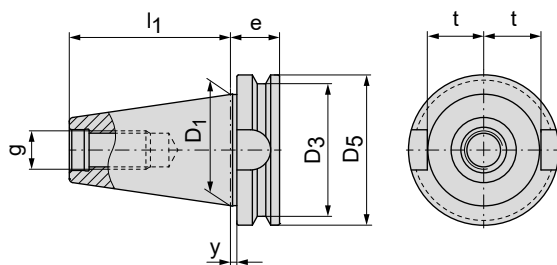
Technical data for steep taper tools

CAT ANSI/ASME B5.50-1994 Shank Details



	Ø d1 ±0.005"	L1±0.005"	L2 ±0.010"	L3 min."	Ø d2 ±0.015"	Ø d3 UNC-2B	Ø d4 max.	Ø d5	Ø d6	Ø d7 ±0.002"	t1 ±0.015"	t2 ±0.015"	b ±0.015"	R1 ±0.010"
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
CAT 30	1.250	1.875	0.188	1.00	0.516	0.500-13	1.812	1.531	1.812	2.176	0.640	0.735	0.645	0.020
CAT 40	1.750	2.687	0.188	1.12	0.641	0.625-11	2.500	2.219	2.500	2.863	0.890	0.985	0.645	0.040
CAT 50	2.750	4.000	0.250	1.75	1.031	1.000-8	3.875	3.594	3.875	4.238	1.390	1.485	1.020	0.040

ISO 7388-2



Maximum recommended rpm for steep taper toolholders:

CAT / BT 30 to 20,000 $\frac{1}{min.}$

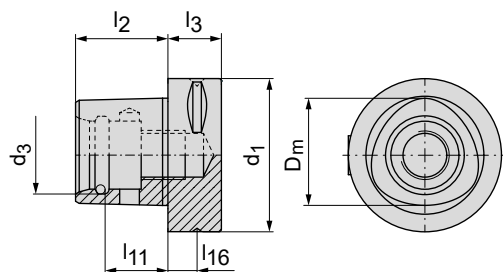
CAT / BT 40 to 20,000 $\frac{1}{min.}$

CAT / BT 50 to 16,000 $\frac{1}{min.}$

	D1 mm	D3 mm	D5 mm	l1 mm	g	e mm	t mm	y mm	b mm
BT 30	31.75	38	46	48.4	M 12	22	16.3	2	16.1
BT 40	44.45	53	63	65.4	M 16	27	22.5	2	16.1
BT 50	69.85	85	100	101.8	M 24	38	35.3	3.2	25.7

Technical Data for Polygon shank adapters

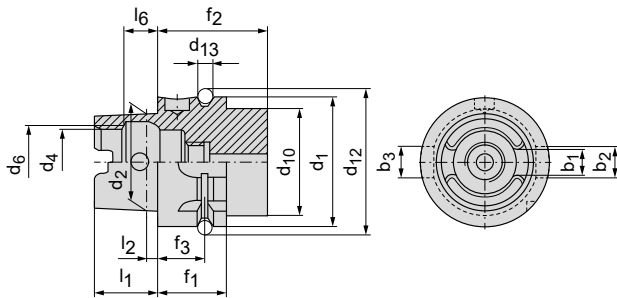
ISO 26623-1



	d1 mm	d3±0.05 mm	l2±0.1 mm	l3 mm	l11±0.1 mm	l16 mm	Dm mm
PSC 32	32	16.5	19	15	13.5	9	22
PSC 40	40	20	24	20	17.5	12	28
PSC 50	50	24	30	20	22	12	35
PSC 63	63	32	38	22	26	12	44
PSC 80	80	38	48	30	34	12	55

Technical Data for HSK Adapters

ISO 12164 – HSK-A / HSK-C



Maximum rpm recommended for HSK adapters:

- HSK-A 32 to 50,000 rpm
- HSK-A 40 to 42,000 rpm
- HSK-A 50 to 30,000 rpm
- HSK-A 63 to 25,000 rpm
- HSK-A 100 to 16,000 rpm

	b ₁ mm	b ₂ mm	b ₃ mm	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₁₀ mm	d ₁₂ mm	d ₁₃ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₆ mm
HSK 32	7.05	7	9	32	24	17	19	26	37	4	20	35	16	16	3.2	8.92
HSK 40	8.05	9	11	40	30	21	23	34	45	4	20	35	16	20	4	11.42
HSK 50	10.54	12	14	50	38	26	29	42	59.3	7	26	42	18	25	5	14.13
HSK 63	12.54	16	18	63	48	34	37	53	72.3	7	26	42	18	32	6.3	18.13
HSK 100	20.02	20	22	100	75	53	58	88	109.75	7	29	45	20	50	10	28.56

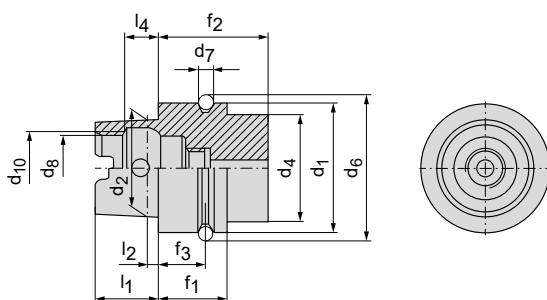
ISO 12164 – HSK-A

- ▲ Applied for machining centers, milling and special machines with automatic tool change
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end
- ▲ 2 grooves on the flange for the tool magazine, positioning notch, bore for data storage medium DIN 69873 in the flange

ISO 12164 – HSK-C

- ▲ Applied for machine spindles without automatic tool change as well as tool extensions and reducers
- ▲ **Central axial coolant supply via the coolant pipe**
- ▲ Torque transmission via 2 driving grooves at the taper end

ISO 12164 – HSK-E



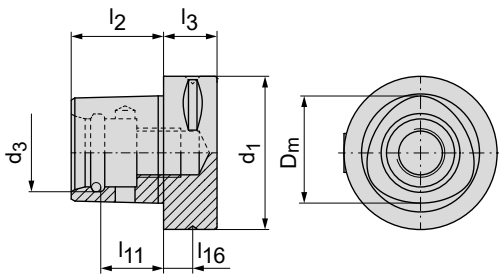
	d ₁ mm	d ₂ mm	d ₄ mm	d ₅ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11.42
HSK 50	50	38	42	59.3	7	26	29	26	42	18	25	5	14.13
HSK 63	63	48	53	72.3	7	34	37	26	42	18	32	6.3	18.13

ISO 12164 – HSK-E

- ▲ Applied for high rpm (HSC) for high speed spindles with automatic tool change
- ▲ Rotation symmetrical, without driving grooves
- ▲ Torque transmission through friction
- ▲ **Possibility of central coolant supply via coolant pipe**

Technical Information for Polygon Shank Adapters

ISO 26623-1



	d_1	$d_{3 \pm 0.05}$	$l_{2 \pm 0.1}$	l_3	$l_{11 \pm 0.1}$	l_{16}	D_m
PSC 32	32	16.5	19	15	13.5	9	22
PSC 40	40	20	24	20	17.5	12	28
PSC 50	50	24	30	20	22	12	35
PSC 63	63	32	38	22	26	12	44
PSC 80	80	38	48	30	34	12	55

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

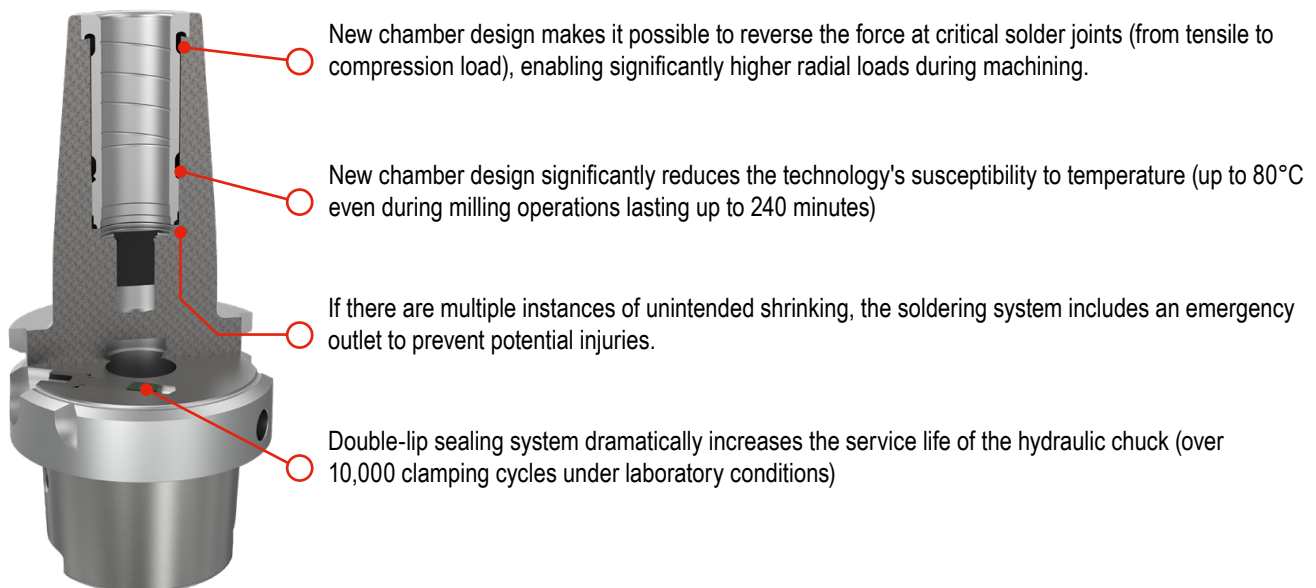
HyPower / HyTens

The right hydraulic chuck for so many different machining scenarios!

Are you looking for higher cutting speeds to enhance productivity and facilitate handling? The entire range of **HyPower** high pressure chucks and the range of **HyTens** hydraulic chucks from CERATIZIT guarantee easy, process-secure tool clamping for every application.

HyPower – High pressure chuck		Application range		
Rough	Milling with strong forces > roughing	▽▽▽	▽	▽
Complus	First choice – general purpose	▽▽▽	▽	▽
Access 3°	Optimum accessibility	▽▽▽		
Access 4.5°	Optimum accessibility thanks to same interference contour as heat shrink adapter, latest technology	▽▽▽	▽	
HyTens – Hydraulic chuck		Application range		
Fit	First choice – general purpose	▽▽▽	▽	
Turn	Perfect for turning operations	▽▽▽	▽	
Compact	affordable all-round alternative	▽▽▽	▽	
Main Application	▽▽▽ Finishing	▽▽ Roughing - Finishing	▽ Roughing	
Extended application	▽▽▽	▽▽	▽	

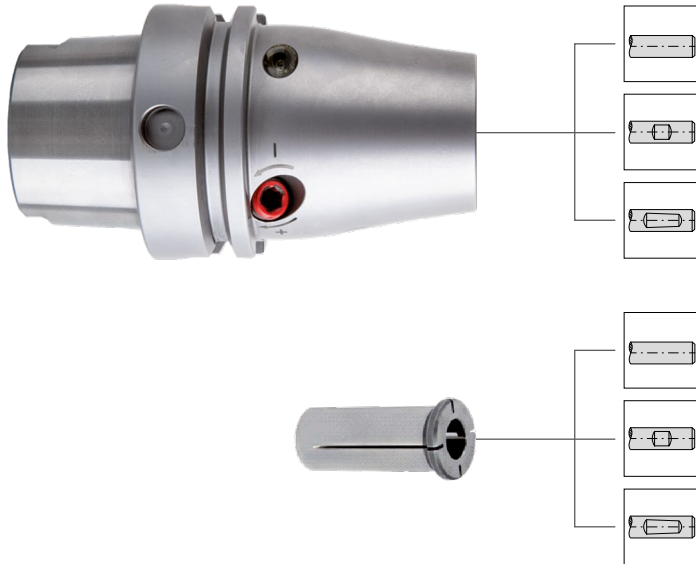
Maximum performance and productivity



HyPower / HyTens

Clamping of shanks with flats possible with or without reduction sleeve

HSS shank DIN1835 and
Solid Carbide shank DIN6535



The main applications for Milling Chuck

- ▲ HPC Milling
- ▲ HSC Milling
- ▲ Hard Machining
- ▲ Drilling
- ▲ Reaming

Clamping Force Comparison with Different Systems

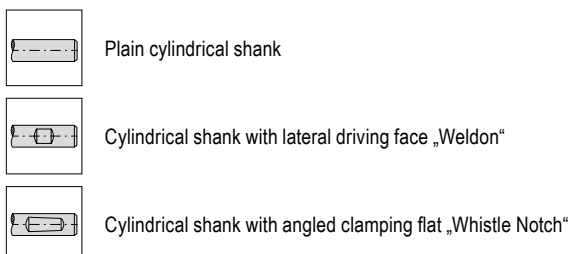
This comparison shows the higher retention forces of the Milling Chuck (**HyPower**). Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder. **HyPower** now offers this process reliability.

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

Shank type & size	16	18	20	25	32	mm
	Maximum transmissible torque with shank tolerance h6					
HyTens – Hydraulic chuck	170	240	330	400	650	Nm
HyPower – High pressure chuck	350	430	520	650–750	800–890	Nm
Heat Shrink Adapter	200	290	450	530	700	Nm

Symbol explanation



Clamping Torque Values (Md) and minimum shank clamping depths for hydraulic- and high pressure chucks



Minimum shank clamping depths

Shank type & size		6	8	10	12	14	16	18	20	25	32	mm
HyTens	Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm
HyPower	Minimum clamping depth						39	39	41	47	51	mm

Clamping Torque Values (Md) for direct clamping

Clamping diameter (d1 h6)		6	8	10	12	14	16	18	20	25	32	mm
HyTens	Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
HyTens	Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm
HyPower	Md with shank at minimum size						280	360	550	650	800	Nm
HyPower	Md with shank at maximum size						380	450	650	750	890	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 32 mm

Clamping diameter (d1 h6)		6	8	10	12	14	16	18	20	25	mm	
HyTens	Md with shank at minimum size		30	45	60	120	120	180	220	250	330	Nm
HyTens	Md with shank at maximum size		45	65	110	170	170	230	300	320	440	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 20 mm

Clamping diameter (d1 h6)		3	4	5	6	8	10	12	14	16	mm	
HyTens	Md with shank at minimum size		6	9	16	30	55	90	120	135	190	Nm
HyTens	Md with shank at maximum size		10	12	22	40	75	120	150	170	260	Nm

Clamping Torque Values (Md) for clamping with reduction sleeve Ø 12 mm

Clamping diameter (d1 h6)		3	4	5	6	8	mm				
HyTens	Md with shank at minimum size					3	4	7	12	18	Nm
HyTens	Md with shank at maximum size					4	8	12	20	26	Nm

For Shrink Fit Adapter

Shank type & size	3	4	5	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	12	16	20	26	26	31	37	37	40	40	42	48	52	mm
permissible torque moment	4	11	17	24	45	82	145	190	200	290	450	530	700	Nm

Static clamping moments

Static clamping moments of the Centro-P and HDC ER precision collet chucks with different tightening torques measured at the lock nut.

Centro-P

Clamping diameter (d1 h6)	2	3	3.5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	mm	
ER 16 torque moment 30 Nm	2	3.5	5																							Nm
ER 16 torque moment 50 Nm				12	20	30	45	60	72	80																Nm
ER 25 torque moment 40 Nm				10	20	40																				Nm
ER 25 torque moment 75 Nm							62	75	85	95																Nm
ER 25 torque moment 90 Nm											122	145	160	175	190	200										Nm
ER 32 torque moment 60 Nm				20	30	40																				Nm
ER 32 torque moment 120 Nm							75	90	110	120	135	150	160	180	190											Nm
ER 32 torque moment 140 Nm																220	240	260	280	300						Nm
ER 40 torque moment 70 Nm				60	75	90	100																			Nm
ER 40 torque moment 110 Nm							110	125	140	150																Nm
ER 40 torque moment 150 Nm											200	220	240	260	300	350										Nm
ER 40 torque moment 200 Nm																			420	440	460	480	515	530		Nm

HDC – Heavy Duty Chuck

Clamping diameter (d1 h6)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	mm						
ER 32 tightening torque 40 Nm			25	37	50																					Nm
ER 32 torque moment 120 Nm						93	112	137	150	168	187	200	225	237												Nm
ER 32 torque moment 140 Nm															275	300	325	350								Nm
ER 32 tightening torque 180 Nm																								375		Nm

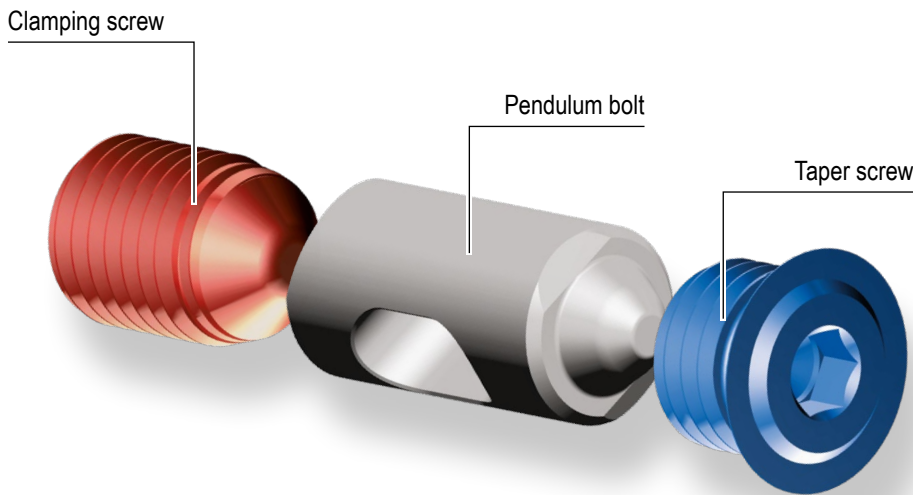


Measurement of the specified clamping forces was performed exclusively statically. The actual clamping forces that arise during machining may deviate due to various influences (vibrations, oscillations, machining situation).

Technical information – ABS

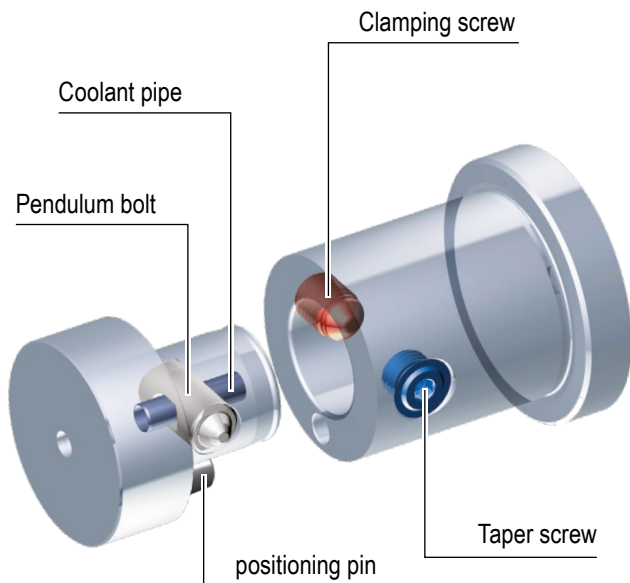
Even better connected

The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. Adapters also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.



Advantages

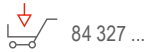
- ▲ Improved force transmission
- ▲ Optimum machining result
- ▲ Higher cutting values possible
- ▲ Less noise pollution in production
- ▲ System fully compatible upwards and downwards
- ▲ Suitable for ABS, ABS N and ABS T



Spare parts ABS								
	Taper screw	Pendulum bolt	Clamping screw	Range 1	Coolant pipe	positioning pin	Range 2	Sealing ring
25	84 950 27000	84 950 26000	84 950 26800	84 950 99700	84 950 24400	84 950 23600	84 950 98900	84 950 30400
32	84 950 27100	84 950 26100	62 950 13989	84 950 99600	84 950 24500	84 950 23700	84 950 98800	84 950 30500
40	84 950 27200	84 950 26200	84 950 26900	84 950 99500	84 950 24600	84 950 23800	84 950 98700	84 950 30600
50	84 950 20400	84 950 20000	84 950 20300	84 950 99800	84 950 20100	84 950 20200	84 950 99900	84 950 30700
63	84 950 27300	84 950 26300	84 950 25500	84 950 99400	84 950 24700	84 950 23900	84 950 98600	84 950 30800
80	84 950 25100	84 950 26400	84 950 25600	84 950 99300	84 950 24800	84 950 24000	84 950 98500	84 950 30900
100	84 950 25200	84 950 26500	84 950 25700	84 950 99200	84 950 24900	84 950 24100	84 950 98400	84 950 31000
125	84 950 25300	84 950 26600	84 950 25800	84 950 99100	84 950 25000	84 950 24200	84 950 98300	
160	84 950 25400	84 950 26700	84 950 25900		84 950 23500	84 950 24300		

DAH compensation holders

- ▲ Compensation systems for μ -precision run-out
- ▲ Simple correction of run-out and axis errors
- ▲ Optimized for high rpm
- ▲ Designed for internal coolant supply
- ▲ Rotary tools provide long tool life



84 327 ...

DAH adapter for tools with ABS adapter



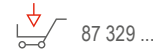
DAH hydraulic expansion adapter for tools with cylindrical shank



84 329 ...

With HSK interface
ISO 12164

With ABS interface



87 329 ...

CAT Taper

BT steep taper per
ISO 7388-2

DAH 50 HS compensation holder for high-speed machining

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision $< 1 \mu$ ensures consistent cutting action
- ▲ Very simple run-out adjustment
- ▲ Compact design
- ▲ Unbeatable vibration damping, meaning outstanding surface quality
- ▲ Flexible clamping range with reduction sleeves
- ▲ Speeds of up to 25,000 rpm
- ▲ Suitable for minimum quantity lubrication (MMS)



84 326 ...

With HSK interface
ISO 12164

87 326 ...

CAT Taper

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A detailed operating manual is available for download in the online shop next to the product.