



Adaptors and Accessories



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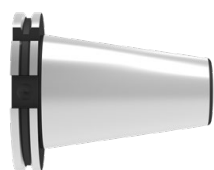
- Toolfinder – Adapters, rotating, maximum accuracy
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Coolant supply version

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

Toolfinder – Machine interface

ISO 7388-1 – SK steep taper holders



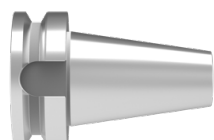
- ▲ SK 30 ▲ SK-FC 50
- ▲ SK 40
- ▲ SK 50

Toolfinder – Adapters, rotating →

Product programme →

ISO 7388-2 – MAS-BT taper shank

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



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

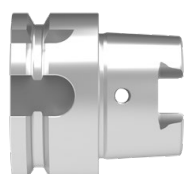
Toolfinder – Adapters, rotating →

MAS-BT product range →

MAS-BT-FC product range →

HSK hollow taper adapters with face contact

ISO 12164 – HSK-A / HSK-E



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

Toolfinder – Adapters, rotating →

HSK-A product range →

HSK-E product range →

ISO 12164-3 – HSK-T

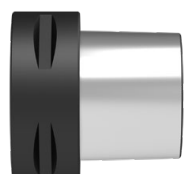
- ▲ HSK-T 63
- ▲ HSK-T 100

Toolfinder – Adapters, stationary →

Product programme →

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

PSC, rotating



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

Toolfinder – Adapters, rotating →

Product programme →

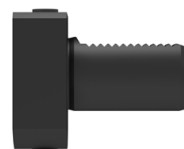
PSC, stationary

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

Toolfinder – Adapters, stationary →

Product programme →

ISO 10889 – VDI tool holders with cylindrical shank



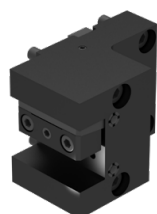
- ▲ VDI 16 ▲ VDI 30
- ▲ VDI 20 ▲ VDI 40
- ▲ VDI 25 ▲ VDI 50

Toolfinder – Adapters, stationary →

Product programme →

Driven Tools →

BMT tool holders

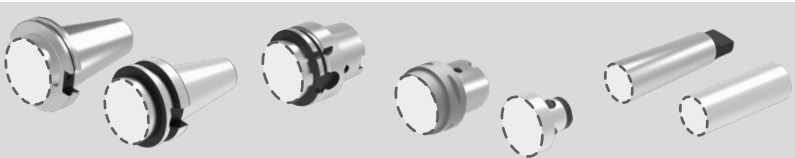


- ▲ Doosan/Spinner – BMT 45
- ▲ Doosan – BMT 55
- ▲ EMAG – BMT 55
- ▲ HAAS/Doosan – BMT 65
- ▲ Mori/Seiki – BMT 40
- ▲ Mori/Seiki – BMT 60
- ▲ Mazak – BMT 68

Toolfinder – Adapters, stationary – BMT tool holders →

Product programme →

Toolfinder – Adapters, rotating

Holder Type	SK	Steep taper adapter ISO 7388-1								
	MAS-BT	Steep taper adapter ISO 7388-2								
	HSK	Adapter ISO 12164								
	PSC	Adapter ISO 26623-1								
	ABS	Adapter								
	MK	Morse taper								
	ZYL	Cylindrical shank								
			SK	BT	HSK-A	HSK-E	PSC	ABS	MK	ZYL
			SK-FC	BT-FC						

Maximum accuracy	ER precision collet chuck – Centro-P		SK	BT	HSK-A	HSK-E	PSC	ZYL
			→	→	→	→	→	→
				BT-FC				
				→				
	ER precision collet chucks – HDC		SK	BT	HSK-A			
			→	→	→			
				BT-FC				
				→				
	High pressure chuck		SK	BT	HSK-A		PSC	ABS
			→	→	→		→	→
				BT-FC				
				→				
	Hydraulic chuck		SK	BT	HSK-A			ZYL
			→	→	→			→
	Heat Shrink Adapter		SK	BT	HSK-A	HSK-E	PSC	ABS
			→	→	→	→	→	→
				BT-FC				
				→				
	Micro-Precision Collet Chuck							ZYL
								→

Main Application



Finishing



Roughing - Finishing

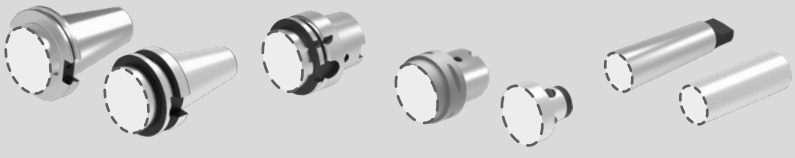


Roughing

Extended application



Toolfinder – Adapters, rotating

Holder Type	SK	Steep taper adapter ISO 7388-1								
	MAS-BT	Steep taper adapter ISO 7388-2								
	HSK	Adapter ISO 12164								
	PSC	Adapter ISO 26623-1								
	ABS	Adapter								
	MK	Morse taper								
	ZYL	Cylindrical shank								
			SK	BT	HSK-A	HSK-E	PSC	ABS	MK	ZYL
			SK-FC	BT-FC						

High accuracy	Weldon Adapter			SK →	BT → BT-FC →	HSK-A →	PSC →	ABS →	ZYL →
	Cylindrical shank adapter, Whistle Notch			SK →	BT →	HSK-A →	PSC →	ABS →	
	Indexable insert drill adapter			SK →	BT →	HSK-A →	PSC →		
	ER precision collet chuck – PCC			SK →	BT →	HSK-A →			
	ER collet chuck			SK →	BT → BT-FC →	HSK-A →	PSC →	ABS →	ZYL →
	Short drill chuck			SK →	BT →	HSK-A →	PSC →	ABS →	MK → ZYL →
	Quick change tapping chuck with minimum length compensation			SK →	BT →	HSK-A →	PSC →	ABS →	ZYL →
	Quick change tap chuck with length compensation			SK →	BT →	HSK-A →	PSC →	ABS →	MK → ZYL →
	ABS adapters			SK → SK-FC →	BT → BT-FC →	HSK-A →	PSC →	ABS →	ZYL →
	DAH compensation holder			SK →	BT →	HSK-A →		ABS →	

Main Application



Finishing



Roughing - Finishing

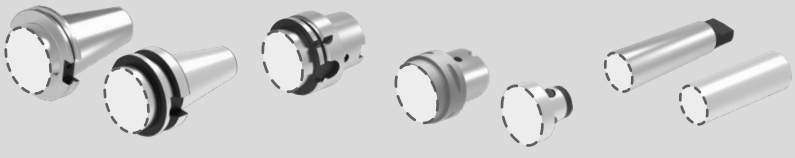


Roughing

Extended application



Toolfinder – Adapters, rotating

Holder Type	SK	Steep taper adapter ISO 7388-1								
	MAS-BT	Steep taper adapter ISO 7388-2								
	HSK	Adapter ISO 12164								
	PSC	Adapter ISO 26623-1								
	ABS	Adapter								
	MK	Morse taper								
	ZYL	Cylindrical shank								
			SK	BT	HSK-A	HSK-E	PSC	ABS	MK	ZYL
			SK-FC	BT-FC						

Medium accuracy	Adapter for milling cutters with threaded end	 	SK →	BT →	HSK-A →		PSC →		ZYL →
	Combination shell mill adapter	 	SK →	BT →	HSK-A →			ABS →	
	Shell mill adapter	 	SK →	BT →	HSK-A →		PSC →	ABS →	
	Large diameter facemill adapter		SK →	BT →					
	Drill chuck adapter	 							MK →
	Taper sleeve adapter for Morse taper	 	SK →	BT →	HSK-A →		PSC →		MK →
	Sleeve for steep taper adapters		SK →	BT →					
	Extension/reduction				HSK-A →			ABS → ABS →	
	Blank		SK →	BT →	HSK-A →		PSC →	ABS →	
	Test bar		SK →	BT →	HSK-A →		PSC →		

Main Application



Finishing



Roughing - Finishing



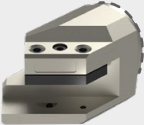
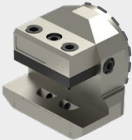
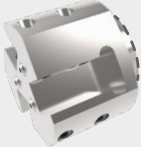
Roughing

Extended application

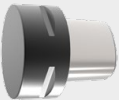


Toolfinder – Adaptors, stationary

Holder Type	HSK	Adapter ISO 12164		
	PSC	Adapter ISO 26623-1		
			HSK-T	PSC

Square shank holder 0°			→	→
Square shank holder 45°			→	→
Square shank holder 90°			→	→
Square shank holder 3 face 0°			→	
Boring bar holder			→	→
Parting blade holder 0°			→	→
Parting blade holder 90°			→	→

Accessories

Protection plug		→
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Toolfinder – Adapters, stationary

We have a variety of Monoblock tools and modular systems available to match the adapters.

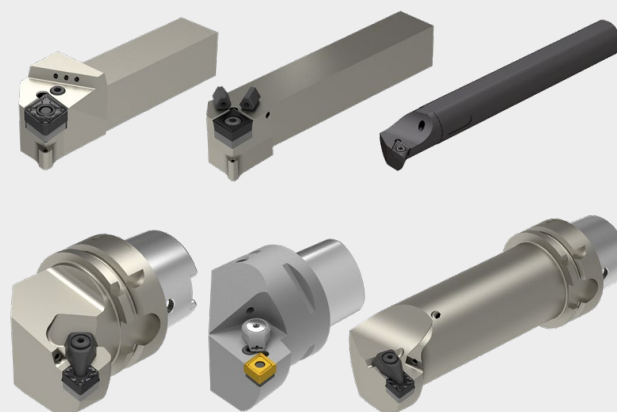
Thread turning

→ Thread turning tools



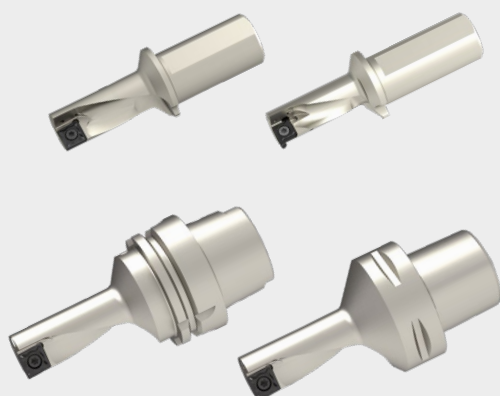
MaxiLock – tool holders and boring bars

→ Turning Tools



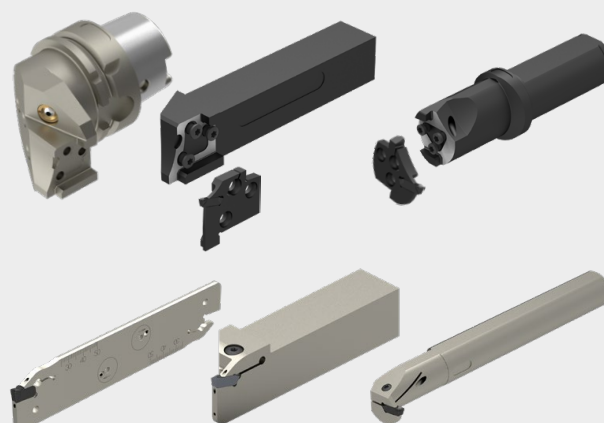
EcoCut – multi-purpose tools

→ Multi-functional tools



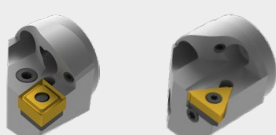
Grooving Tools

→ Grooving tools

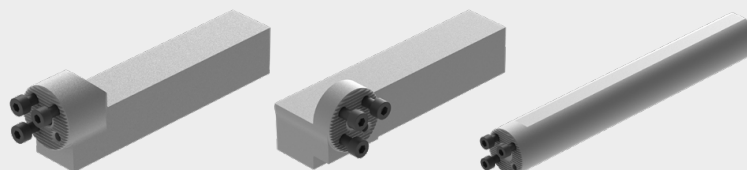


MaxiChange – exchangeable head system

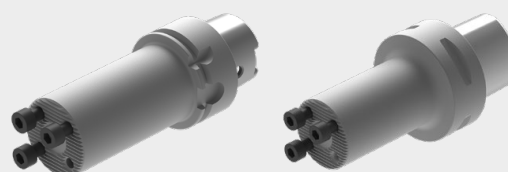
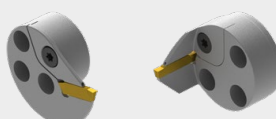
→ Turning Tools



→ Turning Tools

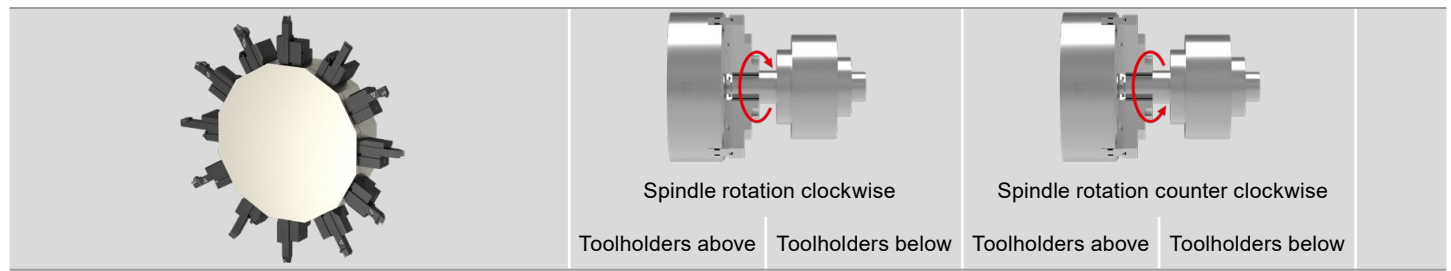


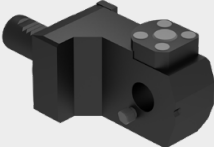
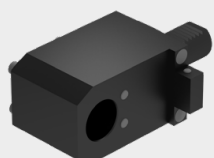
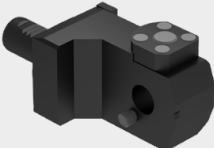
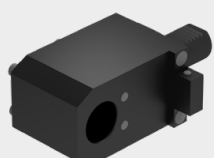
→ Grooving tools



Toolfinder – Adapters, stationary

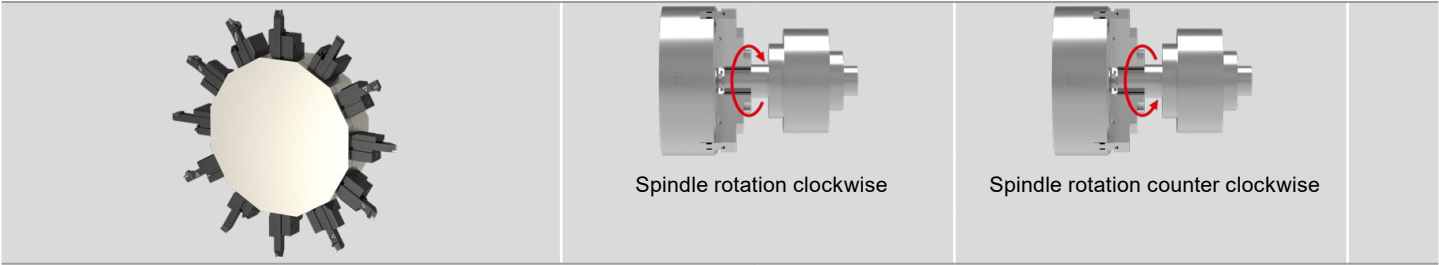
VDI adapters for star turrets

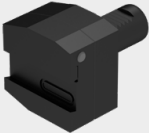
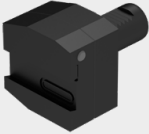


Upper turret	Square Shank Adapters			B2 / B3 / B6 / B7 / C1 / C2 / D1 / D2	B2 / B3 / B6 / B7 / C3 / C4 / D1 / D2	B2 / B3 / B6 / B7 / C3 / C4 / D1 / D2	B2 / B3 / B6 / B7 / C1 / C2 / D1 / D2	→
	Parting blade holders			double	double	double – overhead	double – overhead	→
	Adapter VDI to VDI			Left-hand	Right-hand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

Toolfinder – Adapters, stationary

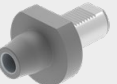
VDI adapters for disc turrets



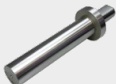
Lower turret	Square Shank Adapters	 	B1 / B5 / C1 / C2 / D1	B3 / B7 / C3 / C4 / D2	→ →
	Part Off Holder	 	Right-hand	Overhead right	→
Upper turret	Square Shank Adapters	 	B4 / B8 / C3 / C4 / D2	B2 / B6 / C1 / C2 / D1	→ →
	Part Off Holder	 	Overhead left	Left-hand	→

Toolfinder – Adapters, stationary

General VDI adapters

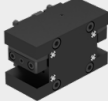
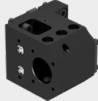
Cylindrical tool holders E / E1 / E2 / E3 / E4		→
Tool holders for indexable insert drills		→
Boring bar holder		→
Adapter for taper F1		→
Hydraulic chuck		→
ER collet chuck		→
Short drill chuck NC 2010		→
Quick-change tap chuck		→
90° VDI to OC50 adapter		→
90° VDI to OC50R adapter		→
VDI to OC50 adapter IL		→
VDI to OC50 adapter IN		→
VDI to OC50R adapter IL		→
VDI to OC50R adapter IN		→
Base holder with cylindrical shank		→
VDI to PSC adapter		→
VDI to HSK-T adapter		→

VDI accessories

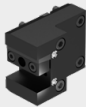
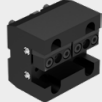
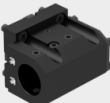
Test arbors		→
Blank		→
Bar pullers		→
Gripper accessories		→
Protection plug		→

Toolfinder – Adapters, stationary

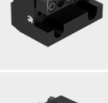
BMT tool holders

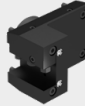
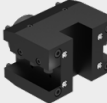
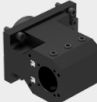
Doosan/Spinner – BMT 45	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

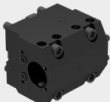
Mori/Seiki – BMT 40	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

Doosan – BMT 55	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

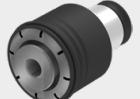
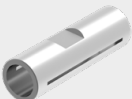
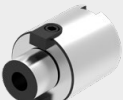
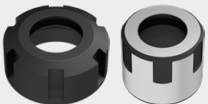
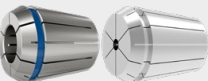
Mori/Seiki – BMT 60	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

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

Mazak – BMT 68	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

HAAS/Doosan – BMT 65	Axial square section tool holder			Left-hand	→
	Square section adapter			Left-hand	→
	Square multiple tool holder				→
	Combi tool holder				→

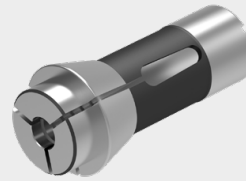
Toolfinder – accessories

Pull stud		SK	→	Spare parts for VDI		→
		MAS-BT	→			
		PSC	→			
Coolant pipe/key		HSK-A	→	Spare parts driven tools		→
		PSC	→			
Drill chuck with internal taper			→	Quick change applications		→
Tap clamping sleeve for Weldon adapters			→	Reduction sleeve and reducing bushings		→
Extension for Shell mill arbors			→	3D tester and zero setting device		→
Milling adapter ring			→	Cleaning propeller		→
ER-Standard and ER-Mini lock nuts			→	TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		→
Y clamping key and ER-Mini clamping key			→	Assembly device for SK, HSK and PSC adapters		→
Spare parts Centro-P			→	MultiChange – Holder		→
Roll key			→	MultiChange key		→
ER collets			→	Cool-jet		→
Sealing discs			→	Taper wiper		→

Toolfinder – Sliding head tooling

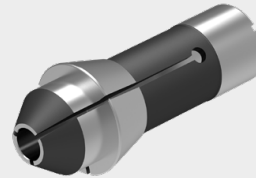
Collets

Collets for clamping the bar in the main spindle and for the sub-spindle



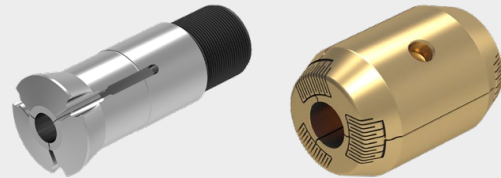
Stem collets

With an adapted stem for improved pick-up of the workpieces and for better secondary operation machinability



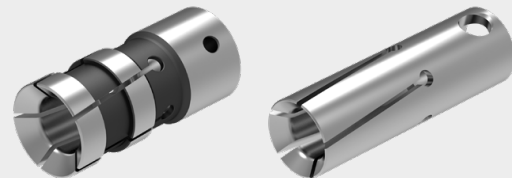
Guide bushes

Ensures bar guidance in the main spindle



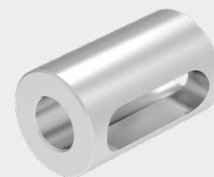
Clamping sleeves

Mounting for bar feeder magazines



Reduction sleeves

With a reduction sleeve, small tools can be used directly on tool clamping points with larger mounting diameters.

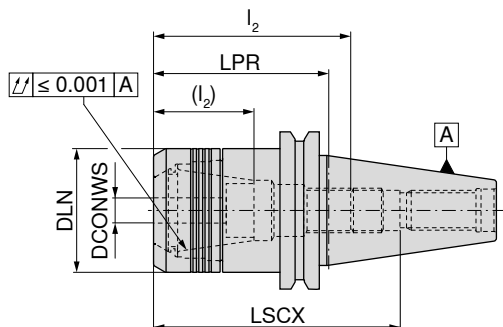


CoreLine – ER precision collet chuck – Centro-P

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

Scope of supply:

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



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



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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	CT 84 424 ...	CT 84 414 ...
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	016	
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	102	
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103	
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)		510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)		910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)		816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	162	
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	163	
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)		516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)		916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	201	
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	202	
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	203	
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)		620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)		920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	261 ¹⁾	
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	167	
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)		320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)		520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)		52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)		720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)		26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)		26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)		26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)		26900

1) Undercut ahead of tool change groove ($\varnothing=63$ mm) deviates from DIN



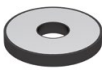
LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 3 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet								
	CT		CT		CT		CT	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	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	

Accessories

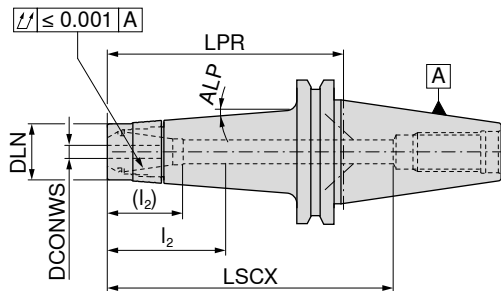
					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→	→

CoreLine – 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

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

CT

84 417 ...

410

61000

910



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet

426E (ER16)



Tapered lock nut IK

CT

84 950 ...

033

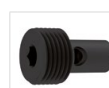


Tapered lock nut

CT

84 950 ...

031



Stop screw 2

CT

83 950 ...

341



Stop screw 1

CT

83 950 ...

337

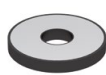
M11x1 - SW6

M11x1 - SW6

Accessories



ER collet



Sealing ring



Roll key



Roll key device



Pull studs



Others

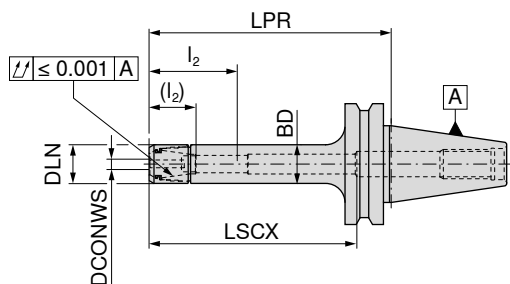


CoreLine – ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

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



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

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)

CT

84 412 ...

207

407

607

907

210

310

410

510



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet

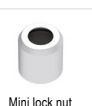
4008E (ER11)
426E (ER16)



Mini lock nut IK

CT

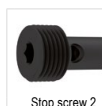
84 950 ...



Mini lock nut

CT

84 950 ...



Stop screw 2

CT

83 950 ...



Stop screw 1

CT

83 950 ...

M8x1 - SW4
M11x1 - SW6

340
341

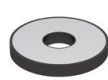
M8x1 - SW4
M11x1 - SW6

336
337

Accessories



ER collet



Sealing ring



Device



Roll key



Roll key device



Pull studs



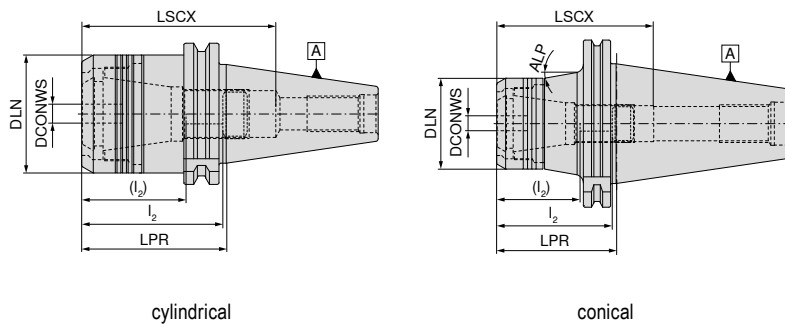
Others

CoreLine – ER precision collet chuck – HDC

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

Scope of supply:

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



AD
G 6,3 n_{max} 18000
cylindrical



AD
G 6,3 n_{max} 18000
conical

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

CT
84 400 ...
12079

CT
84 400 ...
12078
22078



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts

DCONWS

2 - 20


Lock nut
CT
84 950 ...
30100

M22x1,5 - SW6


Stop screw 2
CT
83 950 ...
402

M22x1,5 - SW6


Stop screw 1
CT
83 950 ...
401

Accessories

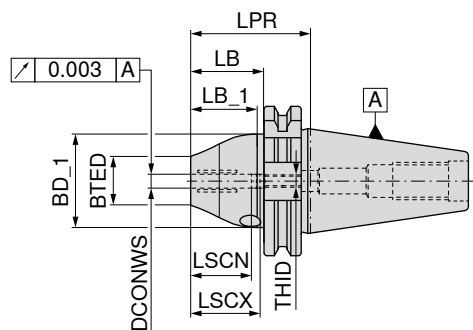
				
ER collet	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→

HyPower – High pressure chuck – 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/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
SK 40	6	50,0	26,0	42,0	27,1	30,9	37	27	M5
SK 40	8	50,0	28,0	42,0	27,1	30,9	37	27	M6
SK 40	10	50,0	30,0	42,0	27,1	30,9	41	31	M8x1
SK 40	12	50,0	32,0	49,0	27,1	30,9	46	36	M10x1
SK 40	16	64,5	38,0	49,0	41,6	45,4	49	39	M12x1
SK 40	20	64,5	38,0	49,0	41,6	45,4	51	41	M16x1
SK 40	25	110,0	48,0	57,0	45,0	90,9	57	47	M10X1
SK 40	32	115,0	58,5	62,5	50,0	95,9	61	51	M12X1

CT
84 254 ...
10679
10879
11079
11279
11679
12079
12579
13279



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

		 Clamping key – T		 Pressure screw		 Stop screw IK	
		AS		CT		CT	
Spare parts		80 397 ...		83 950 ...		83 950 ...	
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	
25	SW5	050	M10x12	55000	M10x1x13,5 - SW5	421	
32	SW5	050	M10x12	55000	M12x1x13,5 - SW5	422	

Accessories



Reduction sleeve

Pull studs

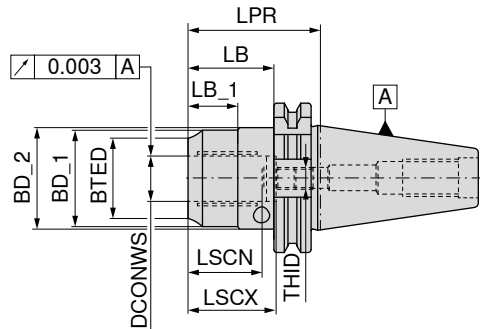
Others

HyPower – High pressure chuck – 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

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LB_1 mm	LSCX mm	LSCN mm	THID
SK 40	20	64,5	38					51	40	M16x1x13,5
SK 40	32	81,0	57	63	70	61,9	26	61	51	M16x1x13,5
SK 50	20	64,5	38	49		45,4		51	41	M16x1x13,5
SK 50	32	81,0	57	68	72	61,9	35	61	51	M16x1x13,5

CT
83 427 ...
120
13279
12078
13278



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.		Cylindrical screw		Clamping key – T		Pressure screw		Stop screw IK	
		CT	83 950 ...	AS	80 397 ...	CT	83 950 ...	CT	83 950 ...
83 427 13279	M5x5 - SW2,5	157		SW5	050	M10x1x14	429	M16x1x13,5 - SW8	424
83 427 12078	M5x5 - SW2,5	157		SW5	050	M10x1x14	429	M16x1x13,5 - SW8	424
83 427 13278	M5x5 - SW2,5	157		SW5	050	M10x1x14	429	M16x1x13,5 - SW8	424

Accessories

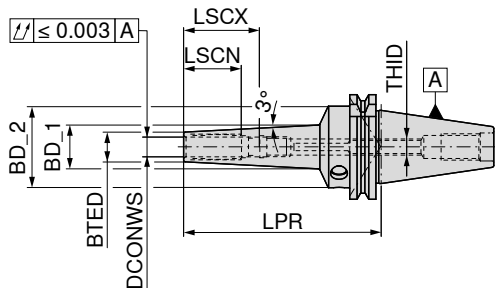


HyPower – High pressure chuck – Access 3°

- ▲ 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

CT

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LSCX	LSCN	THID	83 421 ...
		mm	mm	mm	mm	mm	mm	mm		
medium length	SK 40	3	120	9	17,40	49,5	28	12	M3	103
	SK 40	4	120	10	18,40	49,5	28	16	M3	104
	SK 40	5	120	11	19,40	49,5	28	20	M3	105
	SK 40	6	120	12	20,40	49,5	37	27	M5	106
	SK 40	8	120	14	22,40	49,5	37	27	M6	108
	SK 40	10	120	16	24,50	49,5	41	31	M8x1	110
	SK 40	12	120	18	26,60	49,5	46	36	M10x1	112
	SK 40	16	120	24	32,30	49,5	49	39	M12x1	116
	SK 40	20	120	28	36,40	49,5	51	41	M16x1	120
	SK 40	6	160	16	34,37	49,5	37	27	M5	206
	SK 40	8	160	18	35,45	49,5	37	27	M6	208
	SK 40	10	160	20	37,10	49,5	41	31	M8x1	210
	SK 40	12	160	22	38,72	49,5	46	36	M10x1	212
	SK 40	6	200	16	38,72	49,5	37	27	M5	306
	SK 40	8	200	18	39,74	49,5	37	27	M6	308
	SK 40	10	200	20	41,40	49,5	41	31	M8x1	310
	SK 40	12	200	22	43,02	49,5	46	36	M10x1	312



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

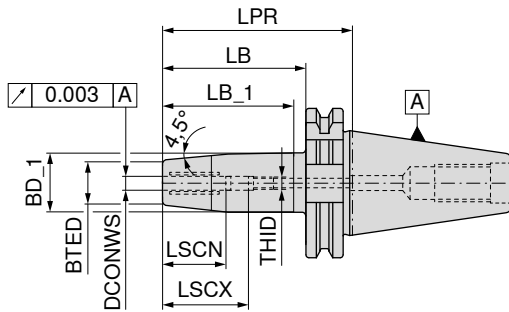
		 Cylindrical screw		 Clamping key – T		 Pressure screw		 Stop screw IK	
		CT		AS		CT		CT	
Spare parts for Article no.		83 950 ...		80 397 ...		83 950 ...		83 950 ...	
83 421 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
83 421 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
83 421 105	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
83 421 106	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418	
83 421 108	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419	
83 421 110	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420	
83 421 112	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M10x1x13,5 - SW5	421	
83 421 116	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M12x1x13,5 - SW5	422	
83 421 120	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M16x1x13,5 - SW8	424	
83 421 206	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418	
83 421 208	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419	
83 421 210	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420	
83 421 212	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420	
83 421 306	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418	
83 421 308	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M6x12,5 - SW3	419	
83 421 310	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420	
83 421 312	M5x5 - SW2,5	157	SW5	050	M10x1x12	159	M8x1x13,5 - SW3	420	

HyPower – High pressure chuck – 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/B
G 2,5 n_{max} 25000

CT

84 255 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
SK 40	6	80	21	27	55,7	60,9	37	27	M5
SK 40	8	80	21	27	55,7	60,9	37	27	M6
SK 40	10	80	24	32	55,7	60,9	41	31	M8x1
SK 40	12	80	24	32	55,7	60,9	46	36	M10x1
SK 40	16	80	27	34	55,8	60,9	49	39	M12x1
SK 40	20	80	33	42	57,2	60,9	51	41	M16x1
SK 40	6	120	21	27	48,9	100,9	37	27	M5
SK 40	8	120	21	27	48,9	100,9	37	27	M6
SK 40	10	120	24	32	61,6	100,9	41	31	M8x1
SK 40	12	120	24	32	61,6	100,9	46	36	M10x1
SK 40	16	120	27	34	56,2	100,9	49	39	M12x1
SK 40	20	120	33	42	68,9	100,9	51	41	M16x1

10679
10879
11079
11279
11679
12079

20679
20879
21079
21279
21679
22079



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

							
			Clamping key – T	Pressure screw	Stop screw IK		
			AS	CT	CT		
Spare parts DCONWS			80 397 ...	83 950 ...	83 950 ...		
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

Accessories

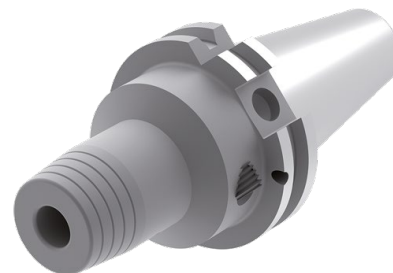
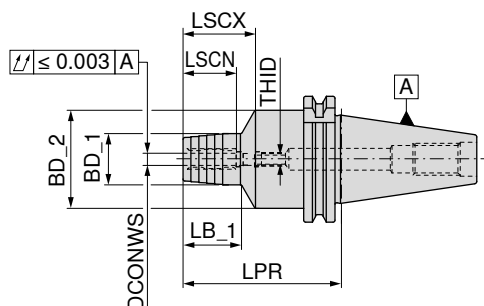
		
Reduction sleeve	Pull studs	Others
→	→	→

CoreLine – Hydraulic chuck – 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

CT

83 402 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID
SK 40	6	80,5	26	49,5	37	27	29,5	M5
SK 40	8	80,5	28	49,5	37	27	30,0	M6
SK 40	10	80,5	30	49,5	41	31	35,0	M8x1
SK 40	12	80,5	32	49,5	46	36	40,0	M10x1
SK 40	16	80,5	38	49,5	49	39	45,0	M12x1
SK 40	20	80,5	42	49,5	51	41	47,0	M16x1
SK 40	25	80,5	55	63,0	57	47	28,0	M16x1
SK 40	32	80,5	63	70,0	61	51	25,5	M16x1
SK 50	6	80,5	26	49,5	37	27	29,5	M5
SK 50	8	80,5	28	49,5	37	27	30,0	M6
SK 50	10	80,5	30	49,5	41	31	35,0	M8x1
SK 50	12	80,5	32	49,5	46	36	40,0	M10x1
SK 50	16	80,5	38	49,5	49	39	45,0	M12x1
SK 50	20	80,5	42	49,5	51	41	42,0	M16x1
SK 50	25	100,0	55	63,0	57	47	48,0	M16x1
SK 50	32	100,0	63	70,0	61	51	51,0	M16x1

106

108

110

112

116

120

125

132

306

308

310

312

316

320

325

332



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

										
				Pressure screw			Stop screw IK			Stop screw IK
				CT			CT			CT
Spare parts				83 950 ...			83 950 ...			83 950 ...
DCONWS										
6	M8x1x10	439						M5x12,5 - SW2,5		418
8	M8x1x10	439	M6x14 - SW2			417		M6x12,5 - SW3		419
10	M10x1x12	440						M8x1x13,5 - SW3		420
12	M10x1x12	440						M10x1x13,5 - SW5		421
16	M10x1x12	440						M12x1x13,5 - SW5		422
20 - 32	M10x1x12	440						M16x1x13,5 - SW8		424

Accessories

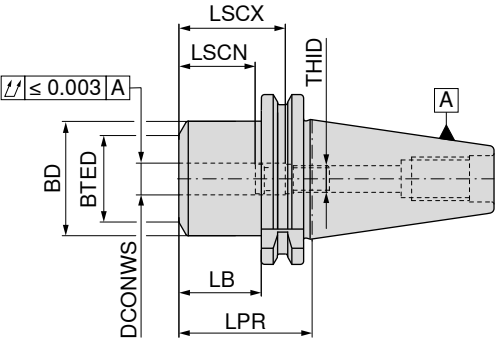
		
Reduction sleeve	Pull studs	Others
→	→	→

CoreLine – Hydraulic chuck – Compact

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

Scope of supply:

Base body with backstop screw and pressure screw



AD
G 2,5 n_{max} 25000

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

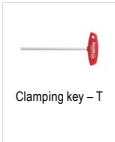
CT
83 430 ...
01279
02079
02078



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

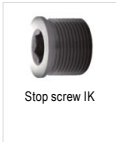
12	SW5	050	M10x1x10	158	M8x1x13,5 - SW3	420
20	SW5	050	M10x1x10	158	M16x1x13,5 - SW8	424



AS
80 397 ...



CT
83 950 ...



CT
83 950 ...

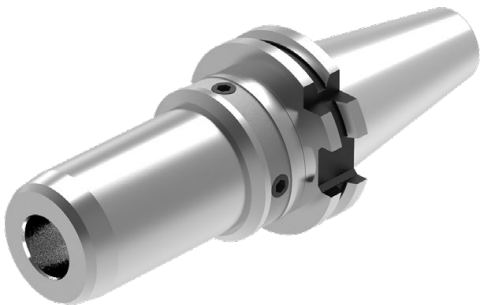
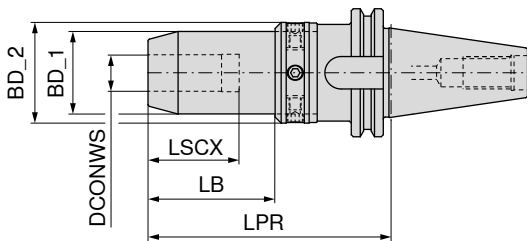
Accessories



HyPower – Compensation holder – DAH

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision < 1 µ 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)

DAH



AD
G 2,5 n_{max} 25000

Adapter	DCONWS	BD_1	BD_2	LB	LSCX	LPR	OAL
SK 40	20	41	50	65	41	110	178,4

CT
84 326 ...
02079



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Accessories



Reduction sleeve

→



Pull studs

→



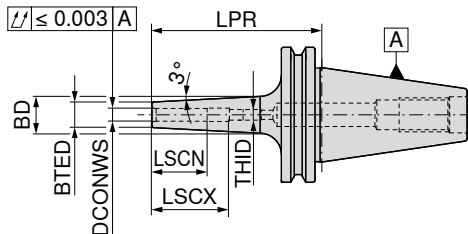
Others

→

CoreLine – Heat shrink adapter, slim 3° – TG

- ▲ 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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	SK 40	3	80	9	14	28	12	M6	84 320 ...
	SK 40	4	80	10	15	28	16	M6	103
	SK 40	5	80	11	16	30	20	M6	104
	SK 40	6	80	12	17	36	26	M5	105
	SK 40	8	80	14	19	36	26	M6	106
	SK 40	10	80	16	21	41	31	M8x1	108
	SK 40	12	80	18	23	47	37	M10x1	110
	SK 40	14	80	20	26	47	37	M10x1	112
	SK 40	16	80	22	28	50	40	M12x1	114
	SK 40	18	80	24	30	50	40	M12x1	116
	SK 40	20	80	26	32	52	42	M16x1	118
medium length	SK 40	3	120	9	16	12	12		120
	SK 40	4	120	10	17	16	16		203
	SK 40	5	120	11	18	20	20		204
	SK 40	6	120	12	22	36	26	M5	205
	SK 40	8	120	14	24	36	26	M6	206
	SK 40	10	120	16	26	41	31	M8x1	208
	SK 40	12	120	18	28	47	37	M10x1	210
	SK 40	14	120	20	30	47	37	M10x1	212
	SK 40	16	120	22	32	50	40	M12x1	214
	SK 40	18	120	24	34	50	40	M12x1	216
	SK 40	20	120	26	36	52	42	M16x1	218
extra-long	SK 40	3	160	9	19	12	12		220
	SK 40	4	160	10	20	16	16		303
	SK 40	5	160	11	21	20	20		304
	SK 40	6	160	12	24	36	26	M5	305
	SK 40	8	160	14	26	36	26	M6	306
	SK 40	10	160	16	28	41	31	M8x1	308
	SK 40	12	160	18	30	47	37	M10x1	310
	SK 40	14	160	20	32	47	37	M10x1	312
	SK 40	16	160	22	34	50	40	M12x1	314
	SK 40	18	160	24	36	50	40	M12x1	316
	SK 40	20	160	26	38	52	42	M16x1	318
									320



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

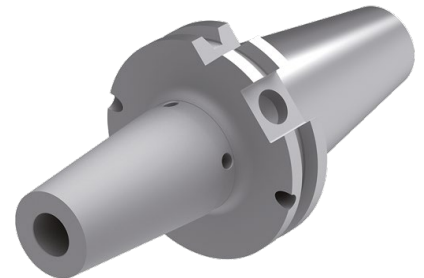
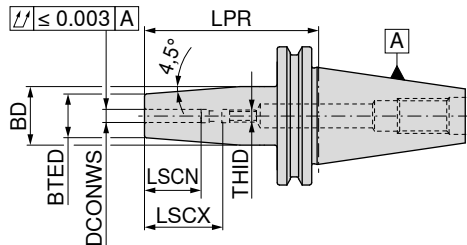
3
4
5
6
8
10
12
14
16
18
20

	
Stop screw IK	Stop screw IK
CT	CT
83 950 ...	83 950 ...
417	418
417	419
417	420
	421
	421
	422
	422
	424

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	SK 40	3	80	10	17	22	12	M6		84 300 ...	103
	SK 40	4	80	15	22	26	16	M6			104
	SK 40	5	80	15	22	30	20	M6			105
	SK 40	6	80	21	27	36	26	M5			106
	SK 40	8	80	21	27	26	26	M6			108
	SK 40	10	80	24	32	41	31	M8x1			110
	SK 40	12	80	24	32	47	37	M10x1			112
	SK 40	14	80	27	34	47	37	M10x1			114
	SK 40	16	80	27	34	50	40	M12x1			116
	SK 40	18	80	33	42	50	40	M12x1			118
	SK 40	20	80	33	42	52	42	M16x1			120
	SK 40	25	100	44	53	58	48	M16x1			125
medium length	SK 40	3	120	10	20	12	12				203
	SK 40	4	120	15	22	16	16				204
	SK 40	5	120	15	22	20	20				205
	SK 40	6	120	21	27	36	26	M5			206
	SK 40	8	120	21	27	36	26	M6			208
	SK 40	10	120	24	32	41	31	M8x1			210
	SK 40	12	120	24	32	47	37	M10x1			212
	SK 40	14	120	27	34	47	37	M10x1			214
	SK 40	16	120	27	34	50	40	M12x1			216
	SK 40	18	120	33	42	50	40	M12x1			218
	SK 40	20	120	33	42	52	42	M16x1			220
	SK 40	25	120	44	53	58	48	M16x1			225
extra-long	SK 40	3	160	10	20	12	12				303
	SK 40	4	160	15	22	16	16				304
	SK 40	5	160	15	22	20	20				305
	SK 40	6	160	21	27	36	26	M5			306
	SK 40	8	160	21	27	36	26	M6			308
	SK 40	10	160	24	32	41	31	M8x1			310
	SK 40	12	160	24	32	47	37	M10x1			312
	SK 40	14	160	27	34	47	37	M10x1			314
	SK 40	16	160	27	34	50	40	M12x1			316
	SK 40	18	160	33	42	50	40	M12x1			318
	SK 40	20	160	33	42	52	42	M16x1			320
	SK 40	25	160	44	53	58	48	M16x1			325



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	M6x14 - SW2	417			M2x6	512
6			M5x12,5 - SW2,5	418	M2x6	512
8			M6x12,5 - SW3	419	M2x6	512
10			M8x1x13,5 - SW3	420	M2x6	512
12 - 14			M10x1x13,5 - SW5	421	M2x6	512
16 - 18			M12x1x13,5 - SW5	422	M2x6	512
20 - 25			M16x1x13,5 - SW8	424	M2x6	512

Accessories

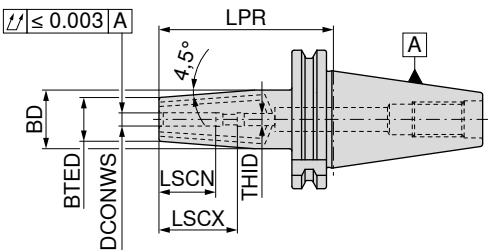

Shrink fit extension
→


Others
→

CoreLine – Shrink fit adapters 4.5°

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

TG



AD/B – 2KMB
G 2,5 n_{max} 25000

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	CT
		mm	mm	mm	mm	mm	mm		
short	SK 40	3	80	10	17	28	12	M6	84 317 ...
	SK 40	4	80	15	22	28	16	M6	103
	SK 40	5	80	15	22	30	20	M6	104
	SK 40	6	80	21	27	36	26	M5	105
	SK 40	8	80	21	27	36	26	M6	106
	SK 40	10	80	24	32	41	31	M8x1	108
	SK 40	12	80	24	32	47	37	M10x1	110
	SK 40	14	80	27	34	47	37	M10x1	112
	SK 40	16	80	27	34	50	40	M12x1	114
	SK 40	18	80	33	42	50	40	M12x1	116
	SK 40	20	80	33	42	52	42	M16x1	118
	SK 40	25	100	44	53	58	48	M16x1	120
	SK 40	32	100	44	53	62	52	M16x1	125
									132

LSCX = Maximum insertion depth
LSCN = Minimum insertion depth

→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

	 Stop screw IK	 Stop screw IK	 Sealing screw
	CT	CT	CT
	83 950 ...	83 950 ...	83 950 ...
3 - 5	417		512
6		418	512
8		419	512
10		420	512
12 - 14		421	512
16		422	512
18	510		512
20	511		512
25		424	512
32	511		512

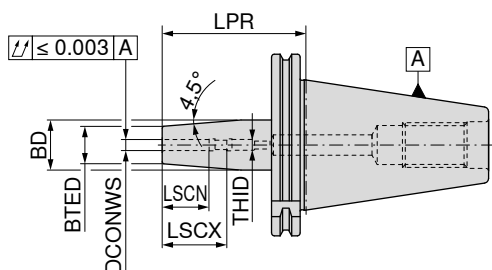
Accessories

		
Shrink fit extension	Pull studs	Others
→	→	→

CoreLine – 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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	SK 50	6	80	21	27	36	26	M5	84 301 ... 106
	SK 50	8	80	21	27	36	26	M6	108
	SK 50	10	80	24	32	41	31	M8x1	110
	SK 50	12	80	24	32	47	37	M10x1	112
	SK 50	14	80	27	34	47	37	M10x1	114
	SK 50	16	80	27	34	50	40	M12x1	116
	SK 50	18	80	33	42	50	40	M12x1	118
	SK 50	20	80	33	42	52	42	M16x1	120
	SK 50	25	100	44	53	58	48	M16x1	125
medium length	SK 50	32	100	44	53	62	52	M16x1	132
	SK 50	6	120	21	27	36	26	M5	206
	SK 50	8	120	21	27	36	26	M6	208
	SK 50	10	120	24	32	41	31	M8x1	210
	SK 50	12	120	24	32	47	37	M10x1	212
	SK 50	14	120	27	34	47	37	M10x1	214
	SK 50	16	120	27	34	50	40	M12x1	216
	SK 50	18	120	33	42	50	40	M12x1	218
	SK 50	20	120	33	42	52	42	M16x1	220
extra-long	SK 50	25	120	44	53	58	48	M16x1	225
	SK 50	32	120	44	53	62	52	M16x1	232
	SK 50	6	160	21	27	36	26	M5	306
	SK 50	8	160	21	27	36	26	M6	308
	SK 50	10	160	24	32	41	31	M8x1	310
	SK 50	12	160	24	32	47	37	M10x1	312
	SK 50	14	160	27	34	47	37	M10x1	314
	SK 50	16	160	27	34	50	40	M12x1	316
	SK 50	18	160	33	42	50	40	M12x1	318
	SK 50	20	160	33	42	52	42	M16x1	320
	SK 50	25	160	44	53	58	48	M16x1	325
	SK 50	32	160	44	53	62	52	M16x1	332



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.



Spare parts
DCONWS

6	418
8	419
10	420
12 - 14	421
16 - 18	422
20 - 32	424

CT

83 950 ...

Accessories

		
Shrink fit extension	Pull studs	Others
→	→	→

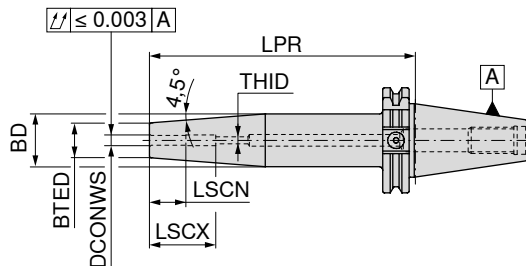
CoreLine – Shrink fit adapters 4.5° – TG

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

Scope of supply:

Holder **without** backstop screw

TG



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

CX

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	SK 40	3	70	12	17,0				10379
	SK 40	4	70	12	17,0				10479
	SK 40	5	70	12	17,0				10579
	SK 40	6	80	21	30,5	36	26	M5	10679
	SK 40	8	80	21	30,5	36	26	M6	10879
	SK 40	10	80	24	33,5	41	31	M8x1	11079
	SK 40	12	80	24	33,5	47	37	M10x1	11279
	SK 40	14	80	27	36,5	47	37	M10x1	11479
	SK 40	16	80	27	36,5	50	40	M12x1	11679
	SK 40	18	80	33	42,5	50	40	M12x1	11879
	SK 40	20	80	33	42,5	52	42	M16x1	12079
	SK 40	25	100	44	50,0	58	48	M16x1	12579
	SK 50	6	80	21	27,0	36	26	M5	10678
	SK 50	8	80	21	27,0	36	26	M6	10878
	SK 50	10	80	24	32,0	41	31	M8x1	11078
	SK 50	12	80	24	32,0	47	37	M10x1	11278
	SK 50	14	80	27	34,0	47	37	M10x1	11478
	SK 50	16	80	27	34,0	50	40	M12x1	11678
	SK 50	18	80	33	42,0	50	40	M12x1	11878
	SK 50	20	80	33	42,0	52	42	M12x1	12078
	SK 50	25	100	44	53,0	58	48	M16x1	12578
	SK 50	32	100	44	53,0	62	52	M16x1	13278



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

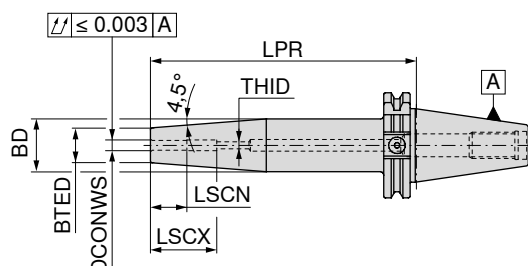
CoreLine – Shrink fit adapters 4.5° – TG

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

Scope of supply:

Holder **without** backstop screw

TG



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

CX

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
medium length	SK 40	3	120	12	17,0			
	SK 40	4	120	12	17,0			
	SK 40	5	120	12	17,0			
	SK 40	6	120	21	31,0	36	26	M5
	SK 40	8	120	21	32,0	36	26	M6
	SK 40	10	120	24	34,0	41	31	M8x1
	SK 40	12	120	24	34,0	47	37	M10x1
	SK 40	16	120	27	36,0	50	40	M12x1
	SK 40	20	120	33	44,0	52	42	M16x1
	SK 50	6	120	21	27,0	36	26	M5
	SK 50	8	120	21	27,0	36	26	M6
	SK 50	10	120	24	32,0	41	31	M8x1
	SK 50	12	120	24	32,0	47	37	M10x1
	SK 50	14	120	27	34,0	47	37	M10x1
	SK 50	16	120	27	34,0	50	40	M12x1
	SK 50	18	120	33	42,0	50	40	M12x1
	SK 50	20	120	33	42,0	52	42	M16x1
	SK 50	25	120	44	53,0	58	48	M16x1
	SK 50	32	120	44	53,0	62	52	M16x1

20379
20479
20579
20679
20879
21079
21279
21679
22079

20678
20878
21078
21278
21478
21678
21878
22078
22578
23278



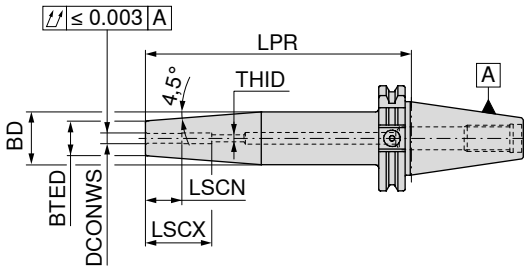
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

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

Scope of supply:
Holder **without** backstop screw

TG



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

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	CX
		mm	mm	mm	mm	mm	mm		
extra-long	SK 40	6	160	21	31,0	36	26	M5	82 310 ...
	SK 40	8	160	21	32,0	36	26	M6	30679
	SK 40	10	160	24	34,0	41	31	M8x1	30879
	SK 40	12	160	24	34,0	47	37	M10x1	31079
	SK 40	14	160	27	36,0	47	37	M10x1	31279
	SK 40	16	160	27	36,0	50	40	M12x1	31479
	SK 40	18	160	33	44,0	50	40	M12x1	31679
	SK 40	20	160	33	44,0	52	42	M16x1	31879
	SK 40	25	160	44	50,0	58	48	M16x1	32079
									32579
	SK 50	6	160	21	27,0	36	26	M5	30678
	SK 50	8	160	21	27,0	36	26	M6	30878
	SK 50	10	160	24	32,0	41	31	M8x1	31078
	SK 50	12	160	24	32,0	47	37	M10x1	31278
	SK 50	14	160	27	34,0	47	37	M10x1	31478
	SK 50	16	160	27	34,0	50	40	M12x1	31678
	SK 50	18	160	33	42,0	50	40	M12x1	31878
	SK 50	20	160	33	42,0	52	42	M16x1	32078
	SK 50	25	160	44	53,0	58	48	M16x1	32578
	SK 50	32	160	44	53,0	62	52	M16x1	33278



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

6	
8	
10	
12	
14	
16	
18	
20	
25	
32	



Stop screw IK

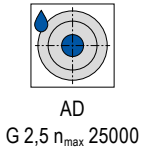
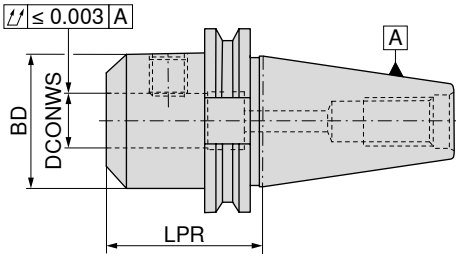
CX

82 950 ...

30000
30100
30200
30300
30300
30400
30400
30500
30500
30500

CoreLine – Cylindrical shank adapter Weldon

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



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

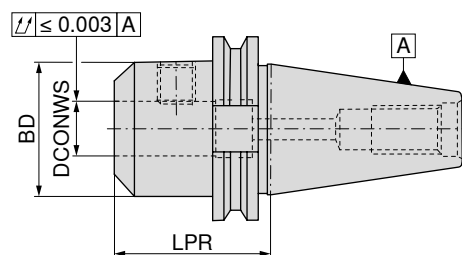
CX
82 401 ...
00600
00800
01000
01200
01400
01600
01800
02000
416
420
425 ¹⁾
43200 ¹⁾

1) Version with two grub screws

 You'll find SK 50 adapters and others lengths on the following pages.

CoreLine – Cylindrical shank adapter Weldon

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



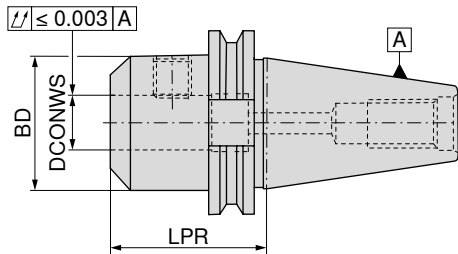
AD/B
G 2,5 n_{max} 25000

		Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	SK 40	SK 40	6	50	25	CX	82 401 ...
		SK 40	8	50	28		106
		SK 40	10	50	35		108
		SK 40	12	50	42		110
		SK 40	14	50	44		112
		SK 40	16	63	48		114
		SK 40	18	63	50		116
		SK 40	20	63	52		118
		SK 40	25	100	65		120
		SK 40	32	100	72		125 ¹⁾
	SK 50	SK 50	40	120	90		132 ¹⁾
							14000 ¹⁾
		SK 50	6	63	25		306
		SK 50	8	63	28		308
		SK 50	10	63	35		310
		SK 50	12	63	42		312
		SK 50	14	63	44		314
		SK 50	16	63	48		316
		SK 50	18	63	50		318
		SK 50	20	63	52		320
medium length	SK 40	SK 40	25	80	65		325 ¹⁾
		SK 40	32	100	72		332 ¹⁾
		SK 40	40	120	90		34000 ¹⁾
							506
		SK 40	6	100	25		508
		SK 40	8	100	28		510
		SK 40	10	100	35		512
		SK 40	12	100	42		514
		SK 40	14	100	44		516
		SK 40	16	100	48		518
	SK 50	SK 50	18	100	50		520
		SK 50	20	100	52		70600
		SK 50	6	100	25		70800
		SK 50	8	100	28		71000
		SK 50	10	100	35		71200
		SK 50	12	100	42		71400
		SK 50	14	100	44		71600
		SK 50	16	100	48		71800
		SK 50	18	100	50		72000
		SK 50	20	100	52		72500 ¹⁾

1) Version with two grub screws

CoreLine – Cylindrical shank adapter Weldon

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



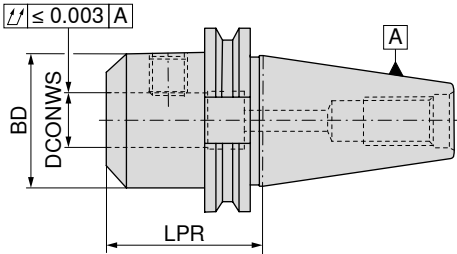
AD/B
G 2,5 n_{max} 25000

		Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
long	SK 40	6	130	25		CX	82 401 ...
		8	130	28			206
		10	130	35			208
		12	130	42			210
		14	130	44			212
		16	130	48			214
		18	130	50			216
		20	130	52			218
	SK 50	6	130	25			220
		8	130	28			
		10	130	35			90600
		12	130	42			90800
		14	130	44			91000
		16	130	48			91200
		18	130	50			91400
		20	130	52			91600
		25	130	65			91800
							92000
extra-long	SK 40	6	160	25			92500 ¹⁾
		8	160	28			
		10	160	35			606
		12	160	42			608
		14	160	44			610
		16	160	48			612
		18	160	50			614
		20	160	52			616
	SK 50	25	160	65			618
		6	160	25			620
		8	160	28			625 ¹⁾
		10	160	35			
		12	160	42			80600
		14	160	44			80800
		16	160	48			81000
		18	160	50			81200
		20	160	52			81400
		25	160	65			81600
		32	160	72			81800

1) Version with two grub screws

CoreLine – Cylindrical shank adapter Weldon

- ▲ For shanks according to DIN 6535 HB/1835 B with lateral clamping flat
- ▲ With eroded coolant channels
- ▲ Also available with Balluff chip **on request**



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

					CX	
					82 404 ...	
short	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
	SK 40	6	50	25	106	
	SK 40	8	50	28	108	
	SK 40	10	50	35	110	
	SK 40	12	50	42	112	
	SK 40	14	50	44	114	
	SK 40	16	63	48	116	
	SK 40	18	63	50	118	
	SK 40	20	63	52	120	
	SK 40	25	100	65	125 ¹⁾	
	SK 40	32	100	72	13200 ¹⁾	
	SK 50	6	63	25	30600	
	SK 50	8	63	28	30800	
	SK 50	10	63	35	31000	
	SK 50	12	63	42	31200	
	SK 50	14	63	44	31400	
	SK 50	16	63	48	31600	
	SK 50	18	63	50	31800	
	SK 50	20	63	52	32000	
	SK 50	25	80	65	32500 ¹⁾	
	SK 50	32	100	72	33200 ¹⁾	
	SK 50	40	120	90	34000	
medium length	SK 40	40	120	80	54000 ¹⁾	

1) Version with two grub screws



Spare parts
DCONWS _{H4}

		CT
		62 950 ...
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
40	M20x2x20	032

Accessories



Pull studs

→

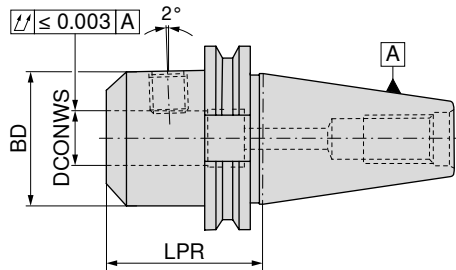


Others

→

CoreLine – 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

					CX
					82 407 ...
short	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
	SK 40	6	50	25	106
	SK 40	8	50	28	108
	SK 40	10	50	35	110
	SK 40	12	50	42	112
	SK 40	14	50	44	114
	SK 40	16	63	48	116
	SK 40	18	63	50	118
	SK 40	20	63	52	120
	SK 40	25	100	65	12500 ¹⁾
	SK 40	32	100	72	13200 ¹⁾
	SK 50	6	63	25	30600
	SK 50	8	63	28	30800
	SK 50	10	63	35	31000
	SK 50	12	63	42	31200
	SK 50	14	63	44	31400
	SK 50	16	63	48	31600
	SK 50	18	63	50	31800
	SK 50	20	63	52	32000
	SK 50	25	80	65	32500 ¹⁾
	SK 50	32	100	72	33200 ¹⁾
long					
	SK 40	6	130	25	206
	SK 40	8	130	28	208
	SK 40	10	130	35	210
	SK 40	12	130	42	212
	SK 40	16	130	48	216
	SK 40	20	130	52	220
	SK 40	25	130	65	225 ¹⁾
	SK 50	6	130	25	90600
	SK 50	8	130	28	90800
	SK 50	10	130	35	91000
	SK 50	12	130	42	91200
	SK 50	16	130	48	91600
	SK 50	20	130	52	92000
	SK 50	25	130	65	92500 ¹⁾
	SK 50	32	130	72	93200 ¹⁾

1) Version with two grub screws

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

Accessories





Pull studs

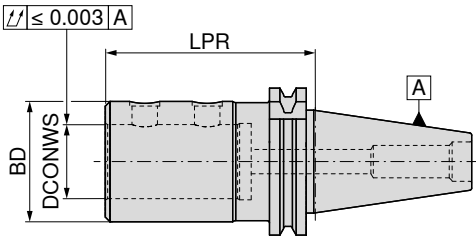
Others

→

→

CoreLine – Indexable insert drill adapter

▲ also available with Balluff chip on request



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

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

CX
10 840 ...
120
125
132
220
225
232
240
250

Spare parts

DCONWS	
20	M10x1x10
25 - 32	M12x1x10
40 - 50	M16x1x12

Grubscrew
CX
10 950 ...
001
002
003

Accessories



Pull studs

→



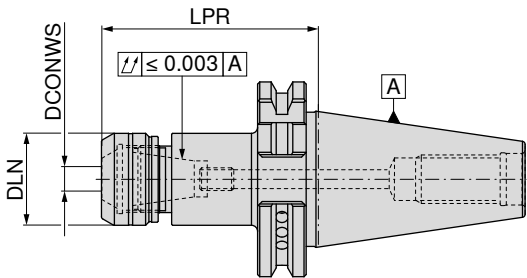
Others

→

CoreLine – 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
- ▲ $p_{max} = 100 \text{ bar}$
- ▲ also available with Balluff chip **on request**

Scope of supply:
Base body with lock nut and backstop screw



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

Adapter	DCONWS mm	LPR mm	DLN mm	for collet
SK 40	1 - 10	70	30	426E (ER16)
SK 40	1 - 10	100	30	426E (ER16)
SK 40	2 - 16	70	40	430E (ER25)
SK 40	2 - 16	100	40	430E (ER25)
SK 40	2 - 20	70	50	470E (ER32)
SK 40	2 - 20	100	50	470E (ER32)
SK 50	2 - 16	70	40	430E (ER25)
SK 50	2 - 16	100	40	430E (ER25)
SK 50	2 - 20	70	50	470E (ER32)
SK 50	2 - 20	100	50	470E (ER32)

CX
82 700 ...
11079
21079
11679
21679
12079
22079
11678
21678
12078
22078



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

Spare parts
for collet

426E (ER16)
430E (ER25)
470E (ER32)

			
Lock nut IK	Lock nut	Backstop screw PCC 2	Backstop screw PCC 1
CX	CX	CX	CX
82 950 ...	82 950 ...	82 950 ...	82 950 ...
11000	01000		00100
11600	01600	00200	00300
12000	02000	00200	00300

Accessories

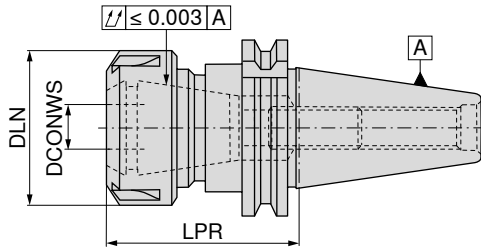
		
ER collet	Sealing ring	Roll key
→	→	→

CoreLine – ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000



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

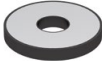
	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	CX 82 415 ...	CX 82 415 ...
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	01000 01600 02000	11179 110 116 120 126
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 40	1 - 10	60	22	8 - 56	426E (ER16 mini)		
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)		
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	70	63	176	472E (ER40)		
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)		
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)		
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)		
	SK 50	3 - 26	70	63	176	472E (ER40)		
medium length	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	21000 21600 22000	21179 410 416 420 42600
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)		
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)		
	SK 40	1 - 10	120	22	8 - 56	426E (ER16 mini)		
	SK 40	1 - 10	120	32	8 - 56	426E (ER16)		
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	100	63	176	472E (ER40)		
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)		
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)		
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)		
	SK 50	3 - 26	100	63	176	472E (ER40)		
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)		61000 61600 62000 62600
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)		
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)		
	SK 40	3 - 26	160	63	176	472E (ER40)		
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)		81600 82000
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)		



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

	 Lock nut IK	 Lock nut	 Y clamping key	 ER Mini clamping key	 Mini lock nut	 Mini IK	 Stop screw IK	 Stop screw IK
	CT	CT	CX	CT	CT	CT	CX	CT
Spare parts for collet	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...	83 950 ...
426E (ER16 mini)				101	066	058	30000	
426E (ER16)	054	054	116					
430E (ER25)	055	055	125					010
470E (ER32)	056	65600	132					010
472E (ER40)	057	65700	140					011

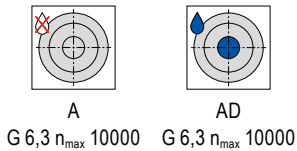
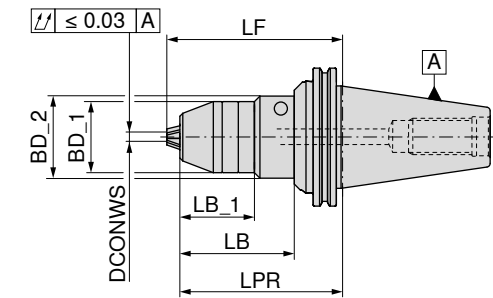
Accessories

			
ER collet	Sealing ring	Pull studs	Others
→	→	→	→

CoreLine – 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



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

CX	CX
84 418 ...	84 419 ...
313	
413	413
416	416
	513
513	516
516	

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

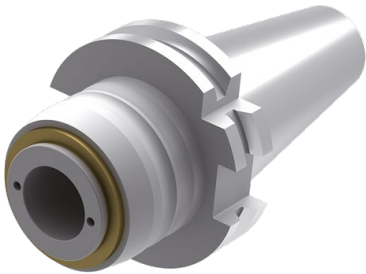
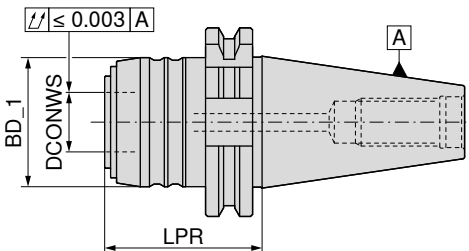
Accessories



CoreLine – Synchro tapping chuck with minimum length compensation

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

Scope of supply:
Without insert



AD

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

CT
83 416 ...
012
020
112
120

Accessories



Pull studs

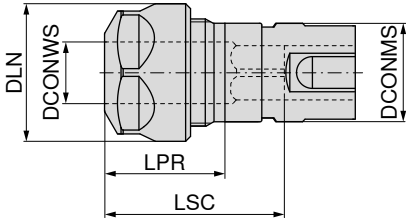


Others

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:
Includes lock nut



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

CT
83 608 ...
012 ¹⁾
020

1) with 6 position lock nut

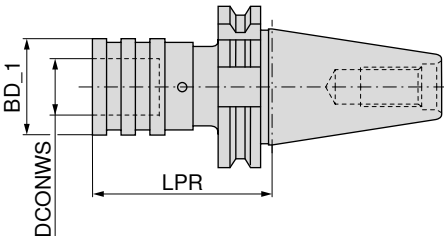
Spare parts
for Article no.

83 608 012
83 608 020

			
Lock nut	Lock nut IK	Lock nut	Y clamping key
CT	CT	CT	CX
62 950 ...	83 950 ...	62 950 ...	83 357 ...
044	054 055	054 055	116 125

CoreLine – Quick change tap chuck with length compensation

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



A

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

CT
83 428 ...
312
320
412
420
512
520

Accessories



Collet

→



Pull studs

→



Others

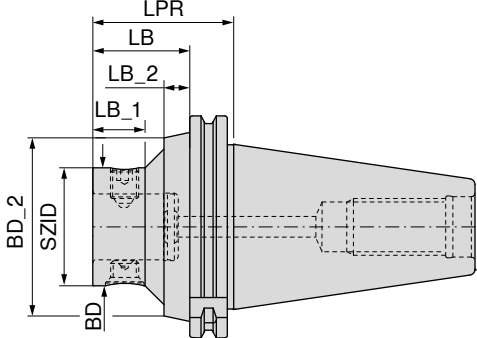
→

HyPower – Adapter – ABS

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS







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

Adapter	SZID	BD	LPR	LB	LB_1	LB_2	BD_2
		mm	mm	mm	mm	mm	mm
SK 40	ABS 25	25	50	30,9	20,0	7,9	50
SK 40	ABS 32	32	50	30,9	20,0	7,9	50
SK 40	ABS 40	40	50	30,9	20,0		50
SK 40	ABS 50	50	50	30,9			
SK 40	ABS 63	63	90	70,9		15,9	50
SK 50	ABS 25	25	60	40,9	20,0	12,9	80
SK 50	ABS 32	32	60	40,9	20,0	12,9	80
SK 50	ABS 40	40	60	40,9	20,0	12,9	80
SK 50	ABS 50	50	60	40,9	22,0	10,9	80
SK 50	ABS 63	63	60	40,9	30,4	7,3	80
SK 50	ABS 80	80	70	50,9			
SK 50	ABS 100	100	115	95,9		15,9	80

CT

84 201 ...

04090
04089
04088
04097
04096

05090
05089
05088
05097
05096
05092
05091

Conversion kit – Cooling agent supply



for	Adapter
4 mm	SK 40 / BT 40
6 mm	SK 50 / BT 50

CT

84 950 ...

23200
23400

Spare parts
SZID

ABS 50				
ABS 25				
ABS 32	M8x1x12/SW4			
ABS 40				
ABS 63				
ABS 80				
ABS 100				

 Clamping screw	 Clamping screw	 Set	 Taper screw
CT	CT	CT	CT
62 950 ...	84 950 ...	84 950 ...	84 950 ...
	20300	99800	20400
	26800	99700	27000
13989		99600	27100
	26900	99500	27200
	25500	99400	27300
	25700	99300	25200
	25700	99200	25200

Accessories

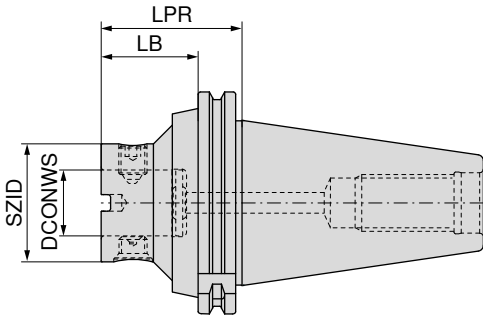
		
Pull studs	Extension	Others
→	→	→

HyPower – Adapter – ABS N

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS N



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

Adapter	SZID	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	BD_2 mm	LB_1 mm	LSC mm
SK 50	ABS 50 N	28	50	80	60	80	22,0	31
SK 50	ABS 63 N	34	63	80	60	80	30,4	38
SK 50	ABS 80 N	46			70			43
SK 50	ABS 100 N	56	100	80	115	80		55

CT
84 234 ...
05078
06378
08078
10078

Spare parts SZID

	CT	CT	CT	CT	CT	CT
ABS 50 N	20300	99800	31800	20200	20400	30700
ABS 63 N	25500	99400	31900	23900	27300	30800
ABS 80 N	25600	99300	32000	24000	25100	30900
ABS 100 N	25700	99200	32100	24100	25200	31000

Accessories

Pull studs	Extension	Others
→	→	→

HyPower – Eccentric adjuster – ABS

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

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS

AD/B

Adapter	SZID	BD mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm
SK 40	ABS 50	50	50	30,9			
SK 40	ABS 63	63	90	70,9		15,9	50
SK 50	ABS 50	50	60	40,9	22,0	10,9	80
SK 50	ABS 63	63	60	40,9	30,4	7,3	80

CT

84 204 ...

04097

04096

05097

05096

Spare parts
SZID

ABS 50			
ABS 63	4 mm	23200	20300
ABS 63	6 mm	23400	25500

CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
	20300	99800	20400
	25500	99400	27300
	25500	99400	27300

Accessories

Pull studs

→

Extension

→

Others

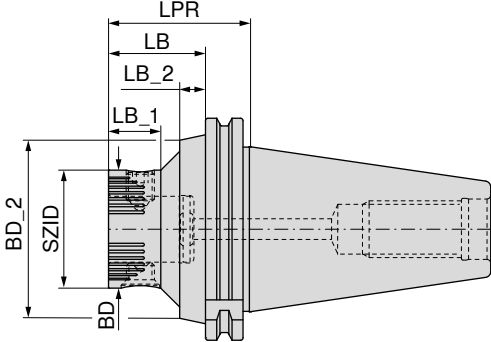
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HyPower – Torsional vibration dampers – ABS

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS







AD/B

Adapter	SZID	BD mm	LPR mm	BD_2 mm	LB mm	LB_1 mm	LB_2 mm
SK 40	ABS 50	50	50		30,9		
SK 40	ABS 63	63	90	50	70,9		15,9
SK 50	ABS 50	50	60	80	40,9	22,0	10,9
SK 50	ABS 63	63	60	80	40,9	30,4	7,3
SK 50	ABS 80	80	70		50,9		

CT

84 207 ...

04097

04096

05097

05096

05092

Spare parts
SZID

ABS 50
ABS 63
ABS 80

 Clamping screw	 Set	 Taper screw
CT	CT	CT
84 950 ...	84 950 ...	84 950 ...
20300	99800	20400
25500	99400	27300
25600	99300	25100

Accessories



Pull studs

→



Extension

→



Others

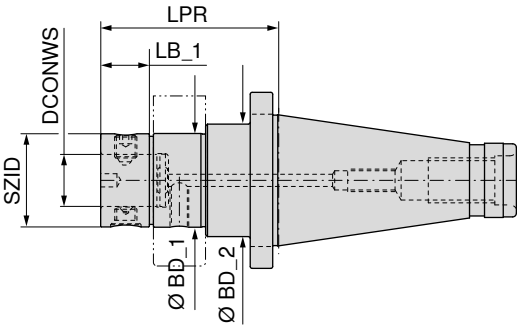
→

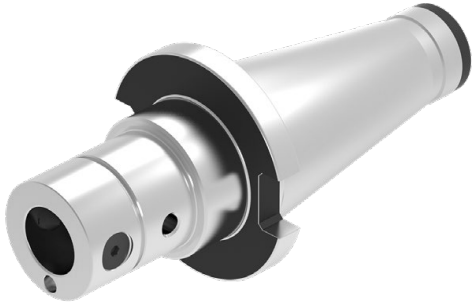
HyPower – Adapter for coolant ring – ABS

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS






AD

Adapter	SZID	DCONWS	BD_1	BD_2	LPR	BD_2	LB_1	LSC
	mm	mm	mm	mm	mm	mm	mm	mm
SK 50	ABS 50	28	50	60	95	60	56	31

CT

84 233 ...

05032

Spare parts
SZID

ABS 50

			
Clamping screw	Set	Taper screw	Sealing disc - ABS
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
20300	99800	20400	30700

Accessories

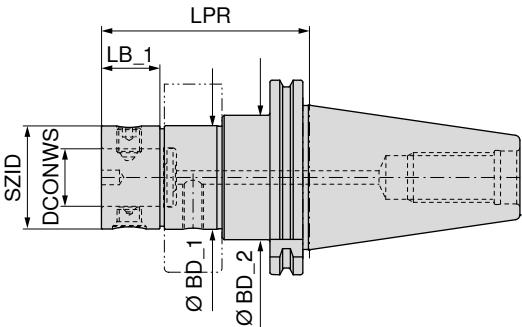
			
Coolant connection with break section	Circlip DIN 471	Sealing ring for coolant ring	Coolant ring
→	→	→	→

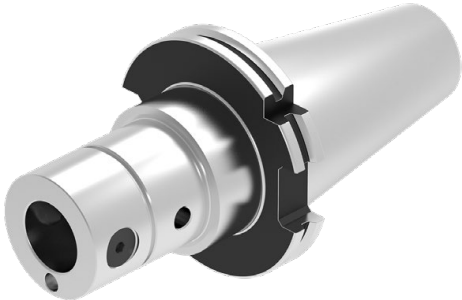
HyPower – Adapter for coolant ring – ABS

- ▲ DIN2080
- ▲ also available with Balluff chip **on request**

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS






AD

Adapter	SZID	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	BD_2 mm	LB_1 mm	LSC mm
SK 50	ABS 50	28	50	60	100	60	58	31
SK 50	ABS 63	34	63	70	110	70	30	38

CT

84 233 ...

05078

06378

Spare parts
SZID

ABS 50	20300	99800	20400	30700
ABS 63	25500	99400	27300	30800

 Clamping screw	 Set	 Taper screw	 Sealing disc - ABS
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...

Accessories

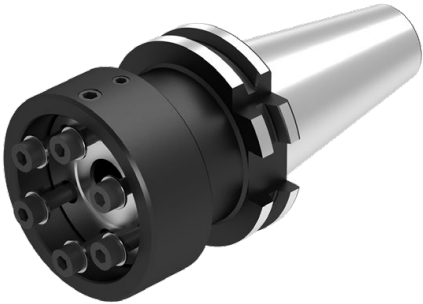
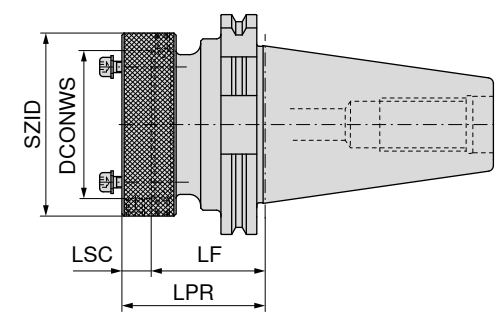
						
Pull studs	Extension	Others	Coolant connection with break section	Circlip DIN 471	Sealing ring for coolant ring	Coolant ring
→	→	→	→	→	→	→

HyPower – Compensation holder – DAH

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

Scope of supply:
DAH compensation holder complete with assembly screws

DAH



Adapter	SZID	DCONWS mm	LSC mm	LF mm	LPR mm
SK 40	DAH 63	50	12	51	63
SK 40	DAH 81	65	12	51	63
SK 50	DAH 81	65	12	51	63
SK 50	DAH 115	100	16	69	85

CT
84 329 ...
06379
08179
08178
11578

						
			Grub screw	Spring washer	DAH adjustment ring	
			CT	CT	CT	
Spare parts SZID			84 950 ...	84 950 ...	84 950 ...	
DAH 63	M6x8	42700	Ø5,3 - M5	42300	DAH 63	42200
DAH 81	M6x10	42800	Ø5,3 - M5	42300	DAH 81	42000
DAH 115	M8x10	43000	Ø8,4 - M8	42400	DAH 115	42100
						
				Cylindrical screw TwinKom	Clamping screw	
			CT	AS		
Spare parts SZID			84 950 ...	62 950 ...		
DAH 63			M5x22	42500	M8x6 - SW4	53400
DAH 81			M5x22	42500	M8x6 - SW4	53400
DAH 115			M8X30	42600	M8x8 - SW4	14700

Accessories





Pull studs

Others

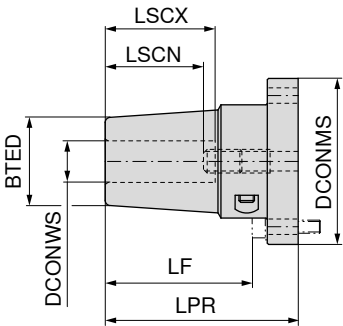
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→

HyPower – Adapter – DAH

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

DAH



AD

Adapter	DCONWS mm	DCONMS mm	BD mm	BTED mm	LB mm	LF mm	LPR mm	LSCN mm	LSCX mm
DAH 63	12	49,5	27	21,0	45	52	70	35	45
DAH 81	12	64,5	32	24,0	45	52	70	35	45
DAH 81	16	64,5	44	34,0	45	57	75	39	49
DAH 81	20	64,5	40	37,0	50	57	75	41	51
DAH 81	25	64,5	50	46,5	52		110	46	56
DAH 81	32	64,5	60	56,5	59		115	51	61

CT
84 327 ...
12600
12800
16800
20800
25800
32800

Accessories



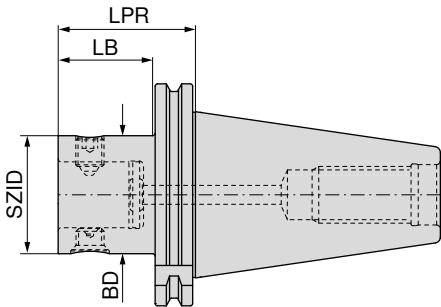
Reduction sleeve



HyPower – Adapter – ABS

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

ABS



AD
G 6,3 n_{max} 8000

Adapter	SZID	BD	LPR	LB
		mm	mm	mm
SK-FC 50	ABS 50	50	60	40,9
SK-FC 50	ABS 63	63	60	40,9
SK-FC 50	ABS 80	80	70	50,9
SK-FC 50	ABS 100	100	115	95,9

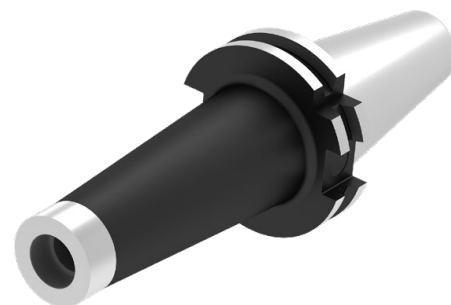
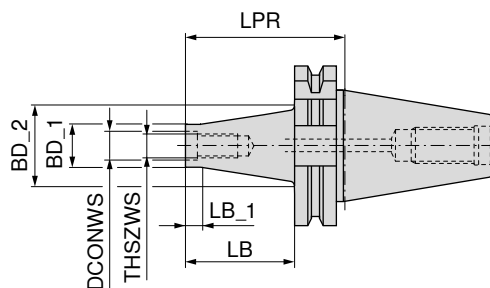
CT
84 264 ...
05073
06373
08073
10073

Spare parts

SZID	Clamping screw	Set	Taper screw
ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100
ABS 100	25700	99200	25200

CoreLine – Adapter for milling cutters with threaded end – Conical

▲ also available with Balluff chip on request



AD
G 2,5 n_{max} 25000

CX

82 749 ...

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

08179

08279

08379

10179

10279

10379

10479

12179

12279

12379

12479

16179

16279

16379

16479

16579

16679

16779

12278

12478

12678

16278

16478

16678

16778

16878

Accessories



Extension-Reduction set



Pull studs

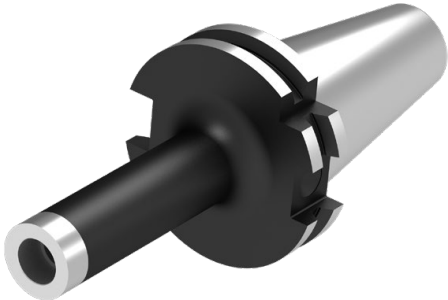
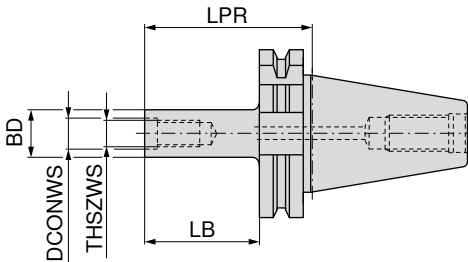


Others



CoreLine – Adapter for milling cutters with threaded end – cylindrical

▲ also available with Balluff chip on request



AD
G 2,5 n_{max} 25000

Adapter	THSZWS	DCONWS mm	LB mm	BD mm	LPR mm
SK 40	M8	8,5	50	13,8	69
SK 40	M10	10,5	50	18,0	69
SK 40	M10	10,5	75	18,0	94
SK 40	M10	10,5	100	18,0	119
SK 40	M12	12,5	50	21,0	69
SK 40	M12	12,5	75	21,0	94
SK 40	M12	12,5	100	21,0	119
SK 40	M16	17,0	50	29,0	69
SK 40	M16	17,0	75	29,0	94
SK 40	M16	17,0	100	29,0	119

CX
82 750 ...
08279
10279
10379
10479
12279
12379
12479
16279
16379
16479

Accessories



Extension-Reduction set

→



Pull studs

→



Others

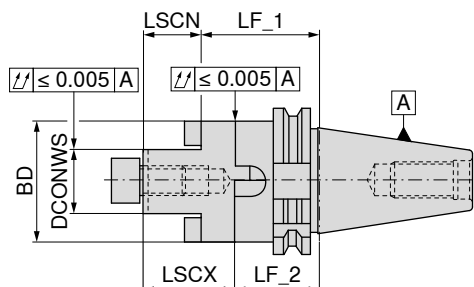
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CoreLine – Combination shell mill adapter

- ▲ 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

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

CX

82 429 ...

01600

02200

02700

03200

116

122

127

132

140 ¹⁾

316

322

327

332

340 ¹⁾350 ¹⁾

21600

22200

22700

23200

24000

1) With cross screw

								
			Parallel key	Drive ring	Cross nut key	Cross screw	clamping screw	
			CT	CX	CX	CX	CT	
Spare parts DCONWS			83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...	
16	4 x 4 x 20	284	116	116	M8	016	M8x25	113
22	6 x 6 x 25	285	122	122	M10	022	M10x25	124
27	7 x 7 x 25	286	127	127	M12	027	M12x30	125
32	8 x 7 x 28	287	132	132	M16	032	M16x35	126
40	10 x 8 x 32	288	140	140	M20	040	M20x40 - SW17	112
50	12 x 8 x 36	289	150	150	M24	050		

Accessories

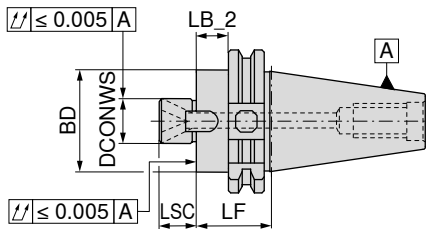
		
Pull studs	Milling Adapter Rings	Others
→	→	→

CoreLine – 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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	
short	SK 40	22	41	60	38	19	82 315 ... 12279 12779
	SK 40	27	25	44	48	21	
	SK 50	27	25	44	48	21	
	SK 50	22	41	60	38	19	
medium length	SK 40	22	81	100	38	19	22279 22779
	SK 40	27	81	100	48	21	
	SK 50	27	81	100	48	21	
	SK 50	22	81	100	38	19	
long	SK 40	22	111	130	38	19	32279 32779
	SK 40	27	111	130	48	21	
	SK 50	27	111	130	48	21	
	SK 50	22	111	130	38	19	



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

Spare parts DCONWS

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



Screw for drivers

CT

83 950 ...



Driver

CT

83 950 ...



clamping screw

CT

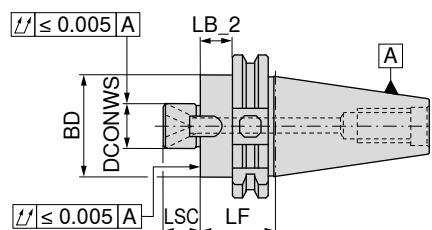
83 950 ...

CoreLine – Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



A
G 2,5 n_{max} 25000



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

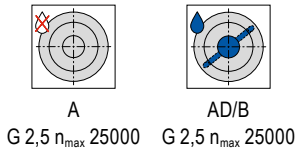
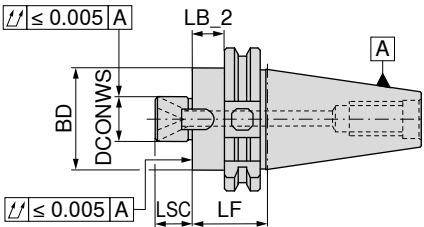
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	SK 30	16	21,0	40	38	17		
	SK 30	22	14,6	50	48	19		
	SK 30	27	19,3	55	58	21		
	SK 30	32	31,0	50	78	24		
	SK 40	16	25,0	44	38	17		
	SK 40	22	25,0	44	48	19		
	SK 40	27	36,0	55	58	21		
	SK 40	32	31,0	50	78	24		
	SK 40	40	31,0	50	88	27		
	SK 50	16	25,0	44	38	17		
	SK 50	22	25,0	44	48	19		
	SK 50	27	25,0	44	58	21		
	SK 50	32	21,0	40	78	24		
	SK 50	40	31,0	50	88	27		
medium length	SK 40	16	81,0	100	38	17		
	SK 40	22	81,0	100	48	19		
	SK 40	27	81,0	100	58	21		
	SK 40	32	81,0	100	78	24		
	SK 40	40	81,0	100	88	27		
	SK 50	16	81,0	100	38	17		
	SK 50	22	81,0	100	48	19		
	SK 50	27	81,0	100	58	21		
	SK 50	32	81,0	100	78	24		
	SK 50	40	81,0	100	88	27		
long	SK 40	16	111,0	130	38	17		
	SK 40	22	111,0	130	48	19		
	SK 40	27	111,0	130	58	21		
	SK 40	32	111,0	130	78	24		
	SK 40	40	111,0	130	88	27		
	SK 50	16	111,0	130	38	17		
	SK 50	22	111,0	130	48	19		
	SK 50	27	111,0	130	58	21		
	SK 50	32	111,0	130	78	24		
	SK 50	40	111,0	130	88	27		

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

CoreLine – Shell mill adapter

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

Scope of supply:
Toolholder with clamping screw



							CX	CX
							82 428 ...	82 428 ...
extra-long	SK 40	16	141,0	160	38	17		516
	SK 40	22	141,0	160	48	19		522
	SK 40	27	141,0	160	58	21		527
	SK 40	32	141,0	160	78	24		532
	SK 40	40	141,0	160	88	27		540 ¹⁾
	SK 50	16	141,0	160	38	17		716
	SK 50	22	141,0	160	48	19		722
	SK 50	27	141,0	160	58	21		727
	SK 50	32	141,0	160	78	24		732
	SK 50	40	141,0	160	88	27		740 ¹⁾

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

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

Accessories

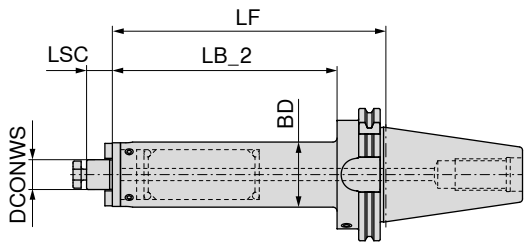
		
Pull studs	Extensions	Others
→	→	→

HyPower – Actively vibration-damped shell mill adapter

- ▲ 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
- ▲ 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

Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm
SK 40	16	180,9	200	39	17
SK 40	22	180,9	200	48	19
SK 50	16	180,9	200	39	17
SK 50	22	180,9	200	48	19
SK 50	27	180,9	200	58	21

CT
84 752 ...
51679
52279
51678
52278
52778

Spare parts DCONWS

	Screw for drivers	Driver	Cross screw	clamping screw
16	M3x8 296	8x9x17,5 120	M8 016	M8x25 113
22	M4x12 297	10x11x20,5 121	M10 022	M10x25 124
27	M5x12 136	12x13x24,3 122	M12 027	M12x30 125

Accessories



Pull studs

→



Others

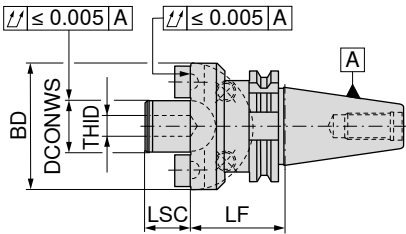
→

CoreLine – Large diameter facemill adapter

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

Scope of supply:

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



A
G 6,3 n_{max} 8000

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

CX
82 432 ...
040
240
260

Spare parts
DCONWS

		Screw for drivers		Driver		Socket head screw		clamping screw	
		CT		CT		AS		CT	
		83 950 ...		83 950 ...		70 950 ...		83 950 ...	
40	M6x16	138	15,9x16,3x19,5	295			M12x50	140	
60			25,4x25x26,5	298	M12x30 - SW10	181	M16x45	160	

Accessories



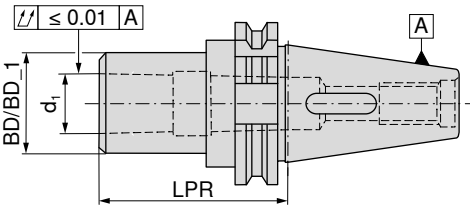
Pull studs



Others

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

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

	Adapter	d ₁	LPR mm	BD mm	BD_1 mm	
short	SK 30	MK1	50	25		
	SK 30	MK2	63	32		
	SK 30	MK3	80	40		
	SK 40	MK1	50		25	
	SK 40	MK2	50		32	
	SK 40	MK3	70		40	
	SK 40	MK4	95	48		
	SK 50	MK1	50		25	
	SK 50	MK2	60		32	
	SK 50	MK3	65		40	
	SK 50	MK4	95		48	
	SK 50	MK5	105		63	
medium length	SK 40	MK2	117	32		
	SK 40	MK3	133	40		
	SK 40	MK4	156	48		

AD

G 6,3 n_{max} 8000

CX

82 439 ...

01000

02000

03000

110

120

130

140

310

320

330

340

350

22000

23000

24000

Accessories



Morse taper adapter sleeve
→



Pull studs
→



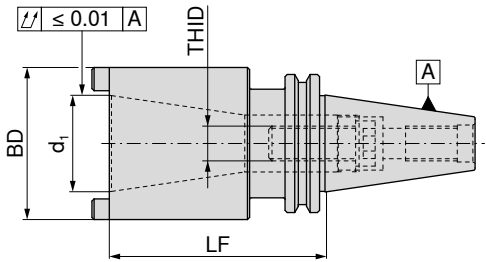
Others
→

CoreLine – Milling adapter sleeve

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

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A
G 6,3 n_{max} 8000

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

CX

82 453 ...

03000

040

240

250

Spare parts
for Article no.

82 453 03000				
82 453 040	009	18400	030	017
82 453 240	264		030	023
82 453 250	256		031	133

 Clamping screw SK	 Morse taper clamping screw	 Counterscrew	 Hollow key with nose	 Fixing ring
CT	CT	CT	CX	CT
83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...

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

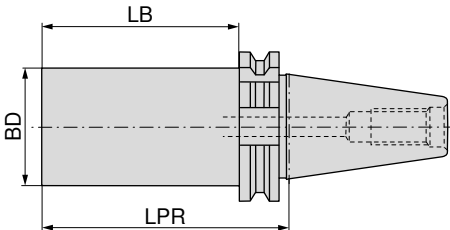
ISO 7388-1 Suitable for article no.	Norm of the SK-shank		Clamping screw length THID				
	Ø d _i ISO 7388-1	Ø d _i DIN 2080		Clamping screw SK Article no.	Threaded ring Article no.	lock screw Article no.	hollow key Article no.
8404013079		SK 30	M12 x 30	83950125	84950127	83950030	83359017
8404014079	SK40		M16 x 70	83950264	8495043800	83950030	83359023
8404014079		SK40	M16 x 45	8495043700	8495043800	83950030	83359023
8404014078	SK40		M16 x 65	8495043600			
8404014078		SK40	M16 x 40	83950009			
8404015078	SK50		M24 x 80	83950256	8495043900	83950030	83359133
8404015078		SK50	M24 x 50	83950263	8495043900	83950030	83359133

Accessories

	
Pull studs	Others
→	→

CoreLine – 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**



AD/B

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

CX
82 458 ...
040
050

Accessories



Pull studs



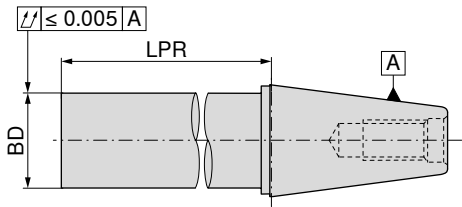
Others



CoreLine – Test bar

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

Scope of supply:
in wooden box



A

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

CT
82 456 ...
040
050

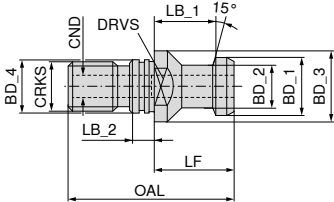
Accessories

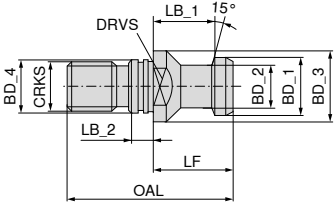
	
Pull studs	Others
→	→

Pull studs for tool holders according to ISO 7388-1

- ▲ ISO 7388-3 AD
- ▲ For tools with or without axial coolant supply

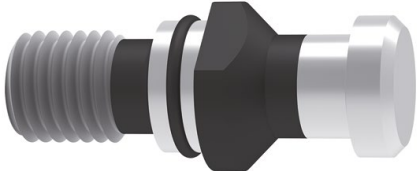
Scope of supply:
including O-Ring





A

B

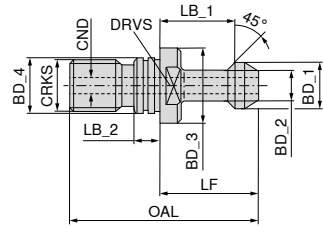


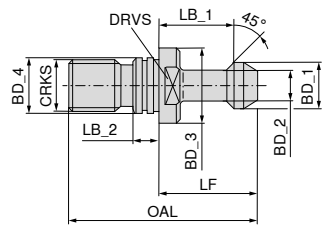
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm		
													A CX	B CX
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	20	82 468 ... 030 040 050	82 475 ...
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	50		
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	150		
SK 30	13	9	17	13	M12	44	24	19	5		14	20		030 040 050
SK 40	19	14	23	17	M16	54	26	20	7		19	50		
SK 50	28	21	36	25	M24	74	34	25	10		30	150		

Pull studs for tool holders according to ISO 7388-1

- ▲ Similar to BT 45°, but 3 mm shorter
- ▲ for Haas, Micron and Hurco machines

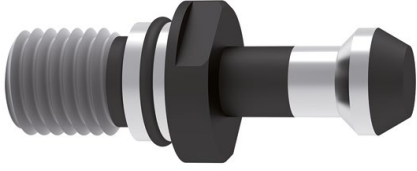
Scope of supply:
including O-Ring





A

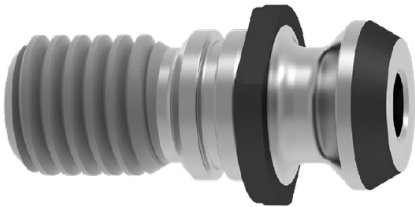
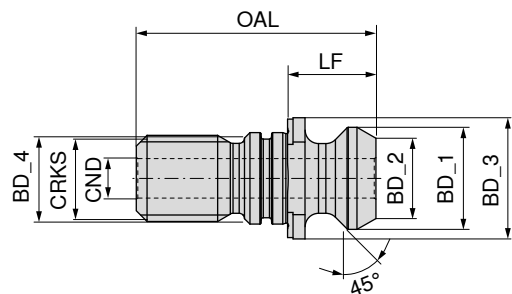
B



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		
													A CX	B CX
SK 40	15	10	23	17	M16	57	32	25	5	4	19	50	83 535 ... 040	83 538 ...
SK 40	15	10	23	17	M16	57	32	25	5		19	50		

Pull studs for tool holders according to ISO 7388-1

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



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	CND	DRVS	TQX
SK 40	18,95	12,95	22,5	17	M16	44,5	16,4	11,15	7,35	19	50

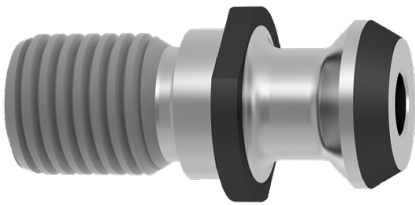
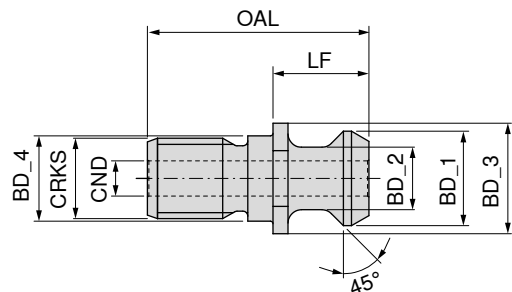
CX

82 469 ...

04000

Pull studs for adapters according to ANSI-CAT (MAZAK)

- ▲ ANSI – CAT 40
- ▲ Similar to BT 45°, but 3 mm shorter
- ▲ For Mazak machines



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

CX

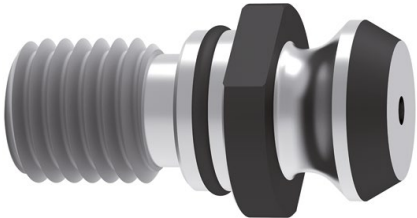
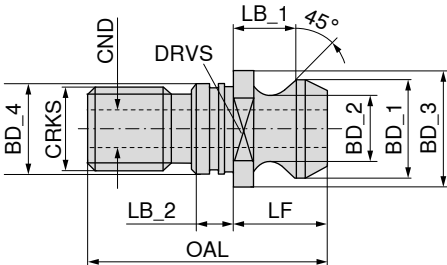
82 469 ...

14000

Pull studs for tool holders according to ISO 7388-1

- ▲ CAT Mazak
- ▲ Face ground flat

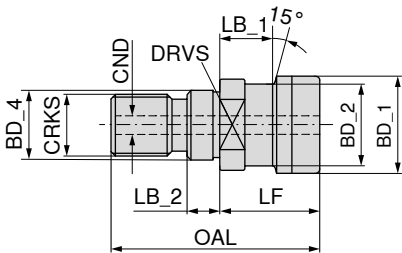
Scope of supply:
SK 50 including O-ring
SK 40 without O-ring groove



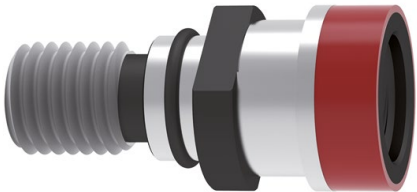
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	CX	
													82 487 ...	
SK 40	18,79	12,44	21,8	17	M16	41,26	16,25	11,17	4,0	7,0	19	50		040
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	150		050

Pull studs for tool holders according to ISO 7388-1

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



with internal thread

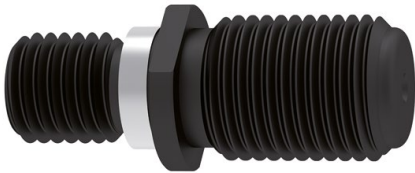
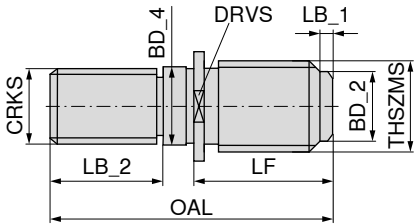


Adapter	BD_1 mm	BD_2 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	without internal thread		with internal thread	
												CX		CX	
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	50	82 493 ...	040	82 494 ...	040
SK 50	39,3	32,0	25	M24	65	25	13,3	10		30	150	050 ¹⁾			050

1) with O ring

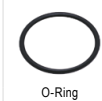
Pull studs for tool holders according to ISO 7388-1

▲ DECKEL thread S 20 x 2



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

Spare parts
BD_4



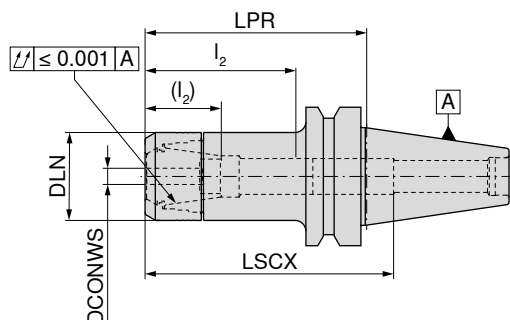
CX 83 476 ...

CoreLine – 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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	CT 84 524 ...
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



LSCX = Clamping depth without back stop screw for shanks
l₂ = With back stop screw 1, Dimension in brackets (l₂) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 3 mm longer



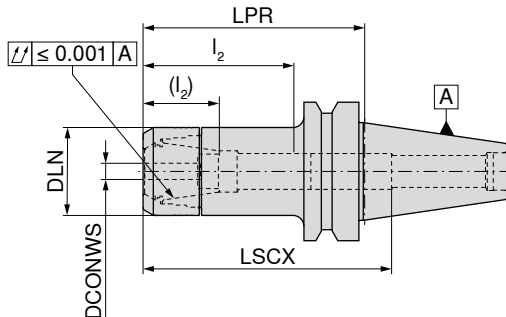
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – 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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	CT
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	84 524 ...
							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



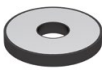
LSCX = Clamping depth without back stop screw for shanks
l₂ = With back stop screw 1, Dimension in brackets (l₂) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 3 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet								
	CT		CT		CT		CT	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	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	

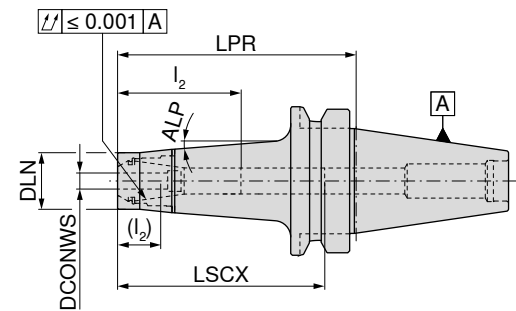
Accessories

					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→	→

CoreLine – 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

CT

84 517 ...

410

31000

510

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

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

→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
for collet

426E (ER16)

Tapered lock nut IK	Tapered lock nut	Stop screw 2	Stop screw 1
CT	CT	CT	CT
84 950 ...	84 950 ...	83 950 ...	83 950 ...
033	031	341	337
		M11x1 - SW6	M11x1 - SW6

Accessories

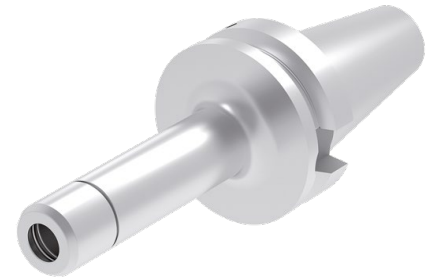
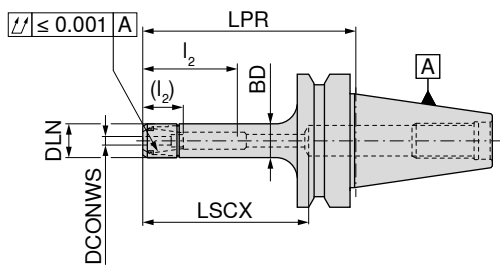
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→	→

CoreLine – ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

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



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



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

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

CT
84 507 ...
007
008

CT
84 508 ...
307
40600
507
90600

216
316
416
516



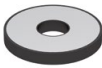
LSCX = Clamping depth without back stop screw for shanks
 l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet								
	CT		CT		CT		CT	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
4008E (ER11)			041		M8x1 - SW4		M8x1 - SW4	
426E (ER16)	035		034		M11x1 - SW6		M11x1 - SW6	
					340		336	
					341		337	

Accessories

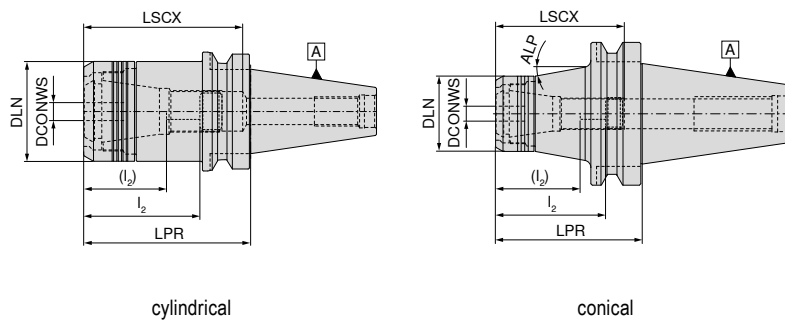
						
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→	→	→

CoreLine – ER precision collet chuck – HDC

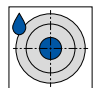
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

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
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)

CT
84 400 ...
12069
22069

CT
84 400 ...

12068
22068



LSCX = Clamping depth without backstop screw

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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts

DCONWS

2 - 20

Lock nut

CT

84 950 ...

30100

Stop screw 2

CT

83 950 ...

402

Stop screw 1

CT

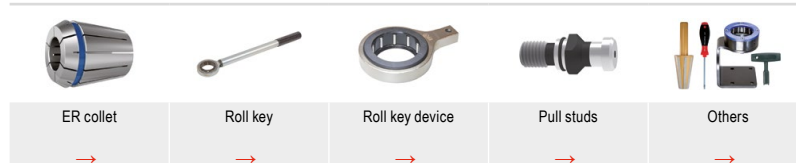
83 950 ...

401

M22x1,5 - SW6

M22x1,5 - SW6

Accessories



ER collet

Roll key

Roll key device

Pull studs

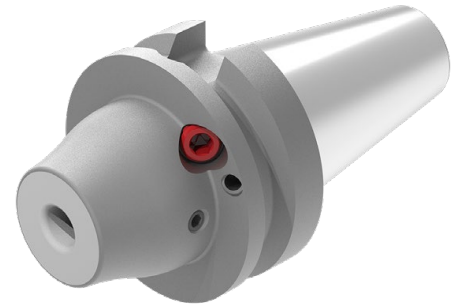
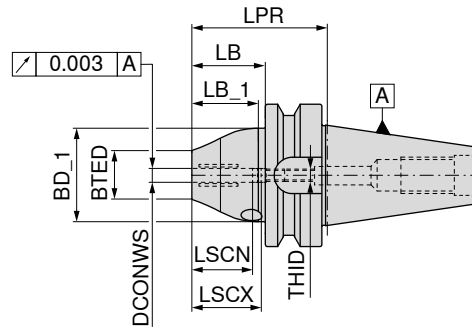
Others

HyPower – High pressure chuck – 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



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

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
BT 30	6	54,0	26,0	46	29,0	32,0	37	27	M5
BT 30	8	54,0	28,0	46	29,0	32,0	37	27	M6
BT 30	10	54,0	30,0	50	21,0	32,0	41	31	M8X1
BT 30	12	54,0	32,0	50	21,0	32,0	46	36	M10X1
BT 30	16	69,0	38,0	55	36,0	47,0	49	39	M12X1
BT 30	20	69,0	38,0	58	36,0	47,0	51	41	M12X1
BT 40	6	58,0	26,0	42	27,2	31,0	37	27	M5
BT 40	8	58,0	28,0	42	27,2	31,0	37	27	M6
BT 40	10	58,0	30,0	42	27,2	31,0	41	31	M8x1
BT 40	12	58,0	32,0	49	27,2	31,0	46	36	M10x1
BT 40	16	72,5	38,0	49	41,7	45,5	49	38	M12x1
BT 40	20	72,5	38,0	49	41,7	45,5	51	41	M16x1
BT 40	25	100,0	48,0	57	44,6	75,0	57	47	M16X1
BT 40	32	105,0	58,5	62	50,0	80,0	61	51	M16X1

CT

84 254 ...

10670

10870

11070

11270

11670

12070

CT

84 254 ...

10669

10869

11069

11269

11669

12069

12569

13269



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

							
				Clamping key – T	Pressure screw	Stop screw IK	
				AS	CT	CT	
Spare parts DCONWS				80 397 ...	83 950 ...	83 950 ...	
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	M12x1x13,5 - SW5	422
20	SW5	050	M10x12		55000	M16x1x13,5 - SW8	424
25	SW5	050	M10x12		55000	M10x1x13,5 - SW5	421
32	SW5	050	M10x12		55000	M10x1x13,5 - SW5	421

Accessories

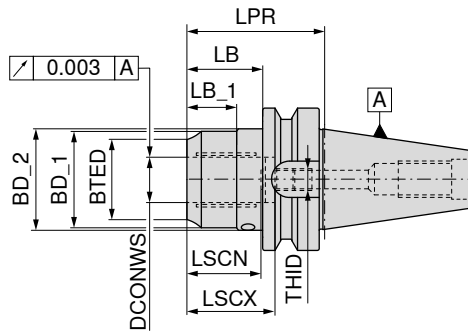
		
Reduction sleeve	Pull studs	Others
→	→	→

HyPower – High pressure chuck – 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

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB mm	LB_1 mm	LSCX mm	LSCN mm	THID
BT 40	20	72,5	38					51	40	M16x1x13,5
BT 40	32	90,0	54	63		63,0		61	51	M16x1x13,5
BT 50	20	83,5	38	49		45,5		51	41	M16x1x13,5
BT 50	32	90,0	57	68	72	52,0	35	61	51	M16x1x13,5

CT
83 513 ...
120
13269
12068
13268



LSCX = Maximum insertion depth
LSCN = Minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.

		CT 83 950 ...	AS 80 397 ...	CT 83 950 ...	CT 83 950 ...
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



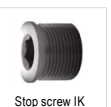
Cylindrical screw



Clamping key - T



Pressure screw



Stop screw IK

Accessories



Reduction sleeve

Pull studs

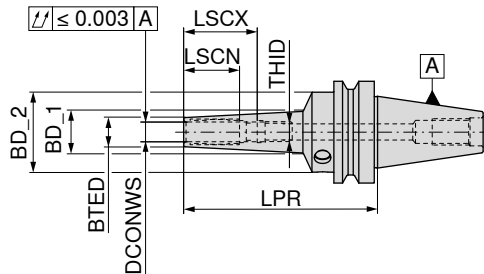
Others

HyPower – High pressure chuck – 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

CT

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	
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



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

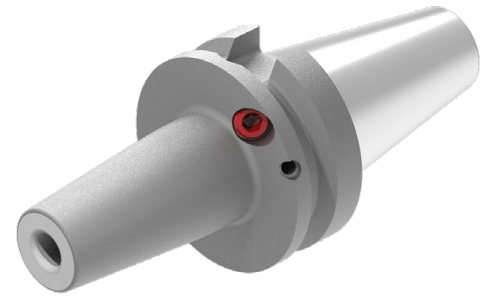
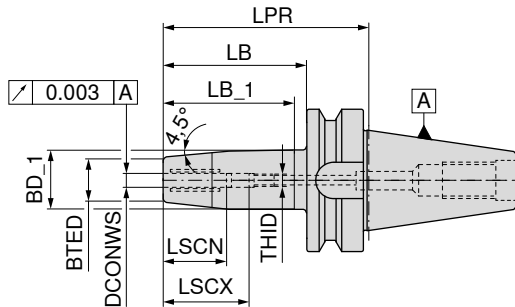
		 Cylindrical screw		 Clamping key – T		 Pressure screw		 Stop screw IK	
		CT		AS		CT		CT	
Spare parts for Article no.		83 950 ...		80 397 ...		83 950 ...		83 950 ...	
83 522 103	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
83 522 104	M5x5 - SW2,5	157	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
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 – High pressure chuck – 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



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

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
BT 30	6	85	21	27	57,7	65	37	27	M5
BT 30	8	85	21	27	57,7	65	37	27	M6
BT 30	10	85	24	32	57,7	65	41	31	M8X1
BT 30	12	85	24	32	57,7	65	46	36	M10X1
BT 30	16	85	27	34	57,2	65	49	39	M10X1
BT 30	20	85	33	42	57,5	65	51	41	M10X1
BT 40	6	90	21	27	57,7	63	37	27	M5
BT 40	8	90	21	27	57,7	63	37	27	M6
BT 40	10	90	24	32	57,7	63	41	31	M8x1
BT 40	12	90	24	32	57,7	63	46	36	M10x1
BT 40	16	90	27	34	57,2	63	49	39	M12x1
BT 40	20	90	33	42	57,5	63	51	41	M16x1
BT 40	6	120	21	27	48,9	95	37	27	M5
BT 40	8	120	21	27	48,9	95	37	27	M6
BT 40	10	120	24	32	61,6	95	41	31	M8X1
BT 40	12	120	24	32	61,6	95	46	36	M10X1
BT 40	16	120	27	34	56,2	95	49	39	M12X1
BT 40	20	120	33	42	68,9	95	51	41	M16X1

CT
84 255 ...

CT
84 255 ...

10670
10870
11070
11270
11670
12070

10669
10869
11069
11269
11669
12069

20669
20869
21069
21269
21669
22069



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

							
			Clamping key – T	Pressure screw	Stop screw IK		
			AS	CT	CT		
Spare parts DCONWS			80 397 ...	83 950 ...	83 950 ...		
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

Accessories

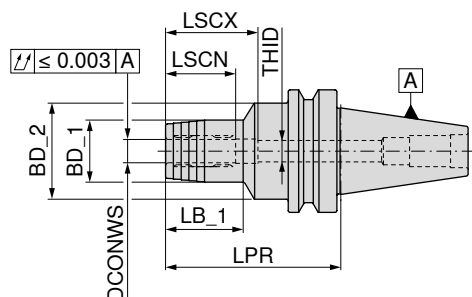
		
Reduction sleeve	Pull studs	Others
→	→	→

CoreLine – Hydraulic chuck – 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

CT

83 521 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID
BT 40	6	90	26	49,5	37	27	29	M5
BT 40	8	90	28	49,5	37	27	30	M6
BT 40	10	90	30	49,5	41	31	35	M8x1
BT 40	12	90	32	49,5	46	36	40	M10x1
BT 40	16	90	38	49,5	49	39	45	M12x1
BT 40	20	90	42	49,5	51	41	47	M16x1
BT 40	25	90	55	52,0	57	47	50	M16x1
BT 40	32	90	63	62,0	61	51	48	M16x1
BT 50	6	90	26	49,5	37	27	29	M5
BT 50	8	90	28	49,5	37	27	30	M6
BT 50	10	90	30	49,5	41	31	34	M8x1
BT 50	12	90	32	49,5	46	36	34	M10x1
BT 50	16	90	38	49,5	49	39	35	M12x1
BT 50	20	90	42	49,5	51	41	35	M16x1
BT 50	25	110	55	63,0	57	47	48	M16x1
BT 50	32	110	63	70,0	61	51	50	M16x1

106

108

110

112

116

120

125

132

306

308

310

312

316

320

325

332



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

										
				Pressure screw			Stop screw IK			Stop screw IK
				CT			CT			CT
Spare parts				83 950 ...			83 950 ...			83 950 ...
DCONWS										
6	M8x1x10	439						M5x12,5 - SW2,5		418
8	M8x1x10	439	M6x14 - SW2			417		M6x12,5 - SW3		419
10	M10x1x12	440						M8x1x13,5 - SW3		420
12	M10x1x12	440						M10x1x13,5 - SW5		421
16	M10x1x12	440						M12x1x13,5 - SW5		422
20 - 32	M10x1x12	440						M16x1x13,5 - SW8		424

Accessories

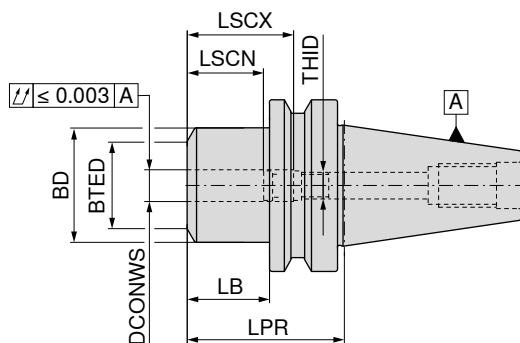
		
Reduction sleeve	Pull studs	Others
→	→	→

CoreLine – Hydraulic chuck – 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

CT

83 430 ...

01269

02069

02068

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
BT 40	20	72,5	49	38	45,5	41	51	M16x1
BT 50	20	83,5	49	38	45,5	41	51	M16x1



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.

83 430 01269
83 430 02069
83 430 02068

Clamping key – T	Pressure screw	Stop screw IK
AS	CT	CT
80 397 ...	83 950 ...	83 950 ...
050	158	420
050	158	424
050	158	424

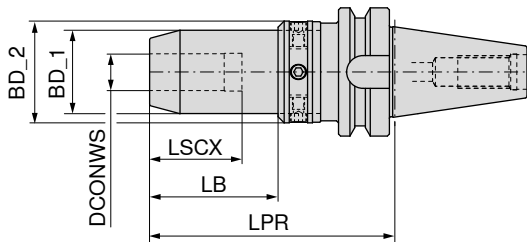
Accessories

Reduction sleeve	Pull studs	Others
→	→	→

HyPower – Compensation holder – DAH

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision < 1 µ 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)

DAH



AD
G 2,5 n_{max} 25000

Adapter	DCONWS	BD_1	BD_2	LB	LSCX	LPR	OAL
BT 40	20	41	50	69,1	41	115	180,4

CT
84 326 ...
02069



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Accessories



Reduction sleeve

→



Pull studs

→



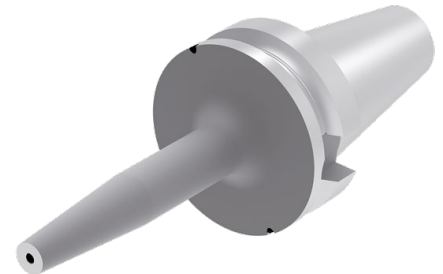
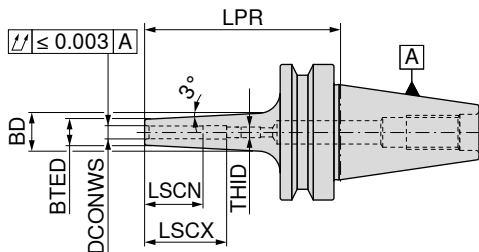
Others

→

CoreLine – Shrink adapter, Slim 3° – TG

- ▲ 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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	BT 40	3	90	9	15	28	12	M6	84 323 ...
	BT 40	4	90	10	16	28	16	M6	103
	BT 40	5	90	11	17	30	20	M6	104
	BT 40	6	90	12	18	36	26	M5	105
	BT 40	8	90	14	20	36	26	M6	106
	BT 40	10	90	16	22	41	31	M8x1	108
	BT 40	12	90	18	24	47	37	M10x1	110
	BT 40	14	90	20	26	47	37	M10x1	112
	BT 40	16	90	22	28	50	40	M12x1	114
	BT 40	18	90	24	30	50	40	M12x1	116
	BT 40	20	90	26	32	52	42	M16x1	118
medium length	BT 40	3	120	9	16	12	12		120
	BT 40	4	120	10	17	16	16		203
	BT 40	5	120	11	18	20	20		204
	BT 40	6	120	12	21	36	26	M5	205
	BT 40	8	120	14	23	36	26	M6	206
	BT 40	10	120	16	25	41	31	M8x1	208
	BT 40	12	120	18	27	47	37	M10x1	210
	BT 40	14	120	20	29	47	37	M10x1	212
	BT 40	16	120	22	31	50	40	M12x1	214
	BT 40	18	120	24	33	50	40	M12x1	216
	BT 40	20	120	26	35	52	42	M16x1	218
extra-long	BT 40	3	160	9	19	12	12		220
	BT 40	4	160	10	20	16	16		303
	BT 40	5	160	11	21	20	20		304
	BT 40	6	160	12	24	36	26	M5	305
	BT 40	8	160	14	26	36	26	M6	306
	BT 40	10	160	16	28	41	31	M8x1	308
	BT 40	12	160	18	30	47	37	M10x1	310
	BT 40	14	160	20	32	47	37	M10x1	312
	BT 40	16	160	22	34	50	40	M12x1	314
	BT 40	18	160	24	36	50	40	M12x1	316
	BT 40	20	160	26	38	52	42	M16x1	318
									320



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	M6x14 - SW2	417	
6			M5x12,5 - SW2,5418
8			M6x12,5 - SW3419
10			M8x1x13,5 - SW3420
12 - 14			M10x1x13,5 - SW5421
16 - 18			M12x1x13,5 - SW5422
20			M16x1x13,5 - SW8424



Stop screw IK

CT

83 950 ...



Stop screw IK

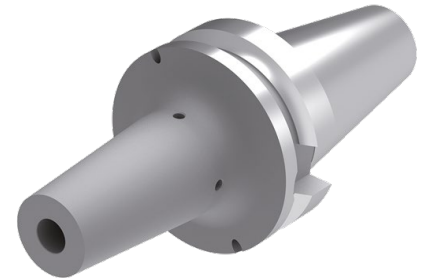
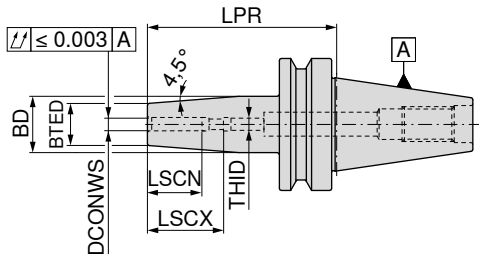
CT

83 950 ...

CoreLine – Shrink fit adapters 4.5° – TG

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

TG

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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		CT	CT
										84 303 ...	84 303 ...
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
medium length	BT 40	20	90	33	42	52	42	M16x1			120
	BT 40	25	100	44	53	58	48	M16x1			125
	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

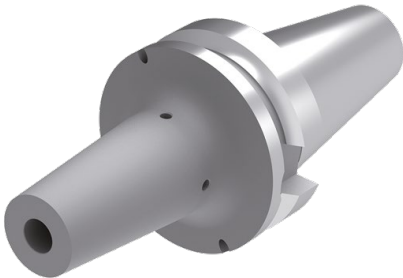
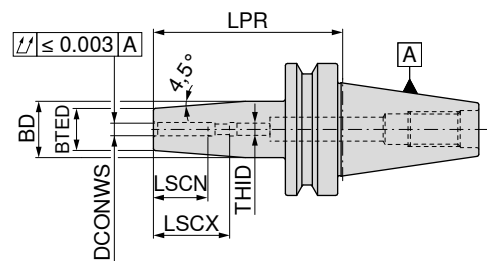


→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

extra-long	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	CT	CT
	BT 40	3	160	10	20	12	12		84 303 ...	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



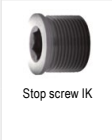
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	M6x14 - SW2	417	
6			M5x12,5 - SW2,5418
8			M6x12,5 - SW3419
10			M8x1x13,5 - SW3420
12 - 14			M10x1x13,5 - SW5421
16 - 18			M12x1x13,5 - SW5422
20 - 25			M16x1x13,5 - SW8424



CT
83 950 ...



CT
83 950 ...

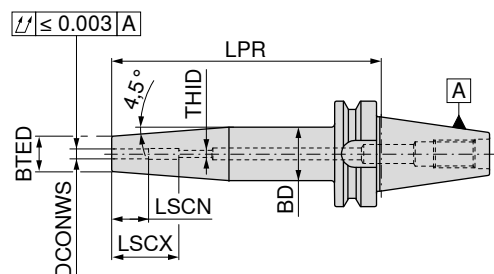
Accessories

		
Shrink fit extension	Pull studs	Others
→	→	→

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

CX

82 310 ...

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

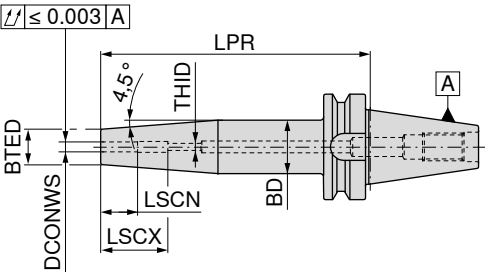


→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	
		mm	mm	mm	mm	mm	mm		
extra-long	BT 40	6	160	21	27	36	26	M5	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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.



Stop screw IK

CX

Spare parts
DCONWS

82 950 ...

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

▲ 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

CX

82 501 ...

00600

00800

01000

01200

01400

01600

01800

02000

416

420

425 ¹⁾

43200 ¹⁾

1) Version with two grub screws



Grubscrew

CT

62 950 ...

006

008

010

012

016

020

025

032

6	M6x10
8	M8x10
10	M10x12
12 - 14	M12x16
16 - 18	M14x16
20	M16x16
25	M18x2x20
32	M20x2x20

Pull studs

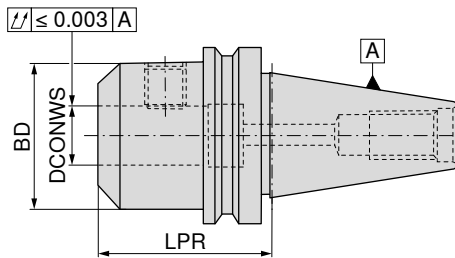


Others



CoreLine – Cylindrical shank adapter Weldon

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



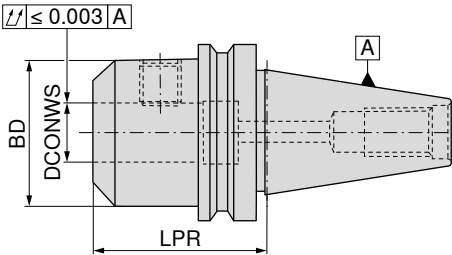
AD/B
G 2,5 n_{max} 25000

		Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
short	BT 40	BT 40	6	50	25	CX	82 501 ...
		BT 40	8	50	28		106
		BT 40	10	63	35		108
		BT 40	12	63	42		110
		BT 40	14	63	44		112
		BT 40	16	63	48		114
		BT 40	18	63	50		116
		BT 40	20	63	52		118
		BT 40	25	100	65		120
		BT 40	32	100	72		125
	BT 50	BT 50	40	120	90		132 ¹⁾
							14000 ¹⁾
		BT 50	6	63	25		30600
		BT 50	8	63	28		30800
		BT 50	10	80	35		31000
		BT 50	12	80	42		31200
		BT 50	14	80	44		31400
		BT 50	16	80	48		31600
		BT 50	18	80	50		31800
		BT 50	20	80	52		32000
medium length	BT 40	BT 40	25	100	65		32500 ¹⁾
		BT 40	32	105	72		33200 ¹⁾
		BT 40	40	120	90		34000 ¹⁾
		BT 40	6	100	25		506
		BT 40	8	100	28		508
		BT 40	10	100	35		510
		BT 40	12	100	42		512
		BT 40	14	100	44		514
		BT 40	16	100	48		516
	BT 50	BT 40	18	100	50		518
		BT 40	20	100	52		520
		BT 50	6	100	25		70600
		BT 50	8	100	28		70800
		BT 50	10	100	35		71000
		BT 50	12	100	42		71200
		BT 50	14	100	44		71400
		BT 50	16	100	48		71600
		BT 50	18	100	50		71800
		BT 50	20	100	52		72000
		BT 50	25	120	65		72500 ¹⁾

1) Version with two grub screws

CoreLine – 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

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
extra-long	BT 40	6	160	25		
	BT 40	8	160	28		
	BT 40	10	160	35		
	BT 40	12	160	42		
	BT 40	14	160	44		
	BT 40	16	160	48		
	BT 40	18	160	50		
	BT 40	20	160	52		
	BT 40	25	160	65		
	BT 50	6	160	25		
	BT 50	8	160	28		
	BT 50	10	160	35		
	BT 50	12	160	42		
	BT 50	14	160	44		
	BT 50	16	160	48		
	BT 50	18	160	50		
	BT 50	20	160	52		
	BT 50	25	160	65		
	BT 50	32	160	72		
						CX
						82 501 ...
						606
						608
						610
						612
						614
						616
						618
						620
						625¹⁾
						80600
						80800
						81000
						81200
						81400
						81600
						81800
						82000
						82500¹⁾
						83200¹⁾

1) Version with two grub screws



Grubscrew

Spare parts
DCONWS_{H4}

		CT	62 950 ...
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
40	M20x2x20		032

Accessories



Pull studs

→

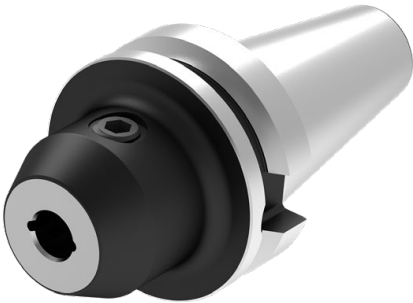
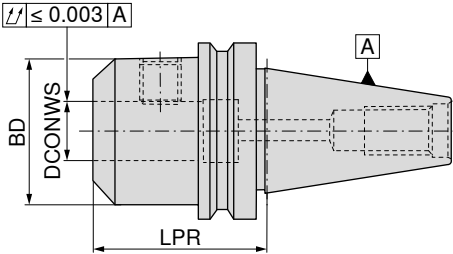


Others

→

CoreLine – Cylindrical shank adapter Weldon

- ▲ For shanks according to DIN 6535 HB/1835 B with lateral clamping flat
- ▲ With eroded coolant channels
- ▲ Also available with Balluff chip **on request**



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

	Adapter	H4		
		DCONWS mm	LPR mm	BD mm
short	BT 40	6	50	25
	BT 40	8	50	28
	BT 40	10	63	35
	BT 40	12	63	42
	BT 40	14	63	44
	BT 40	16	63	48
	BT 40	18	63	50
	BT 40	20	63	52
	BT 40	25	100	65
	BT 40	32	100	72
	BT 40	40	120	90
	BT 50	6	63	25
	BT 50	8	63	28
	BT 50	10	80	35
	BT 50	12	80	42
	BT 50	14	80	44
	BT 50	16	80	48
	BT 50	18	80	50
	BT 50	20	80	52
	BT 50	25	100	65
	BT 50	32	105	72
	BT 50	40	120	90

CX
82 504 ...
106
108
110
112
114
116
118
120
125 ¹⁾
13200 ¹⁾
14000
30600
30800
31000
31200
31400
31600
31800
32000
32500 ¹⁾
33200 ¹⁾
34000

1) Version with two grub screws



Grubscrew

Spare parts
DCONWS_{H4}

CT		
62 950 ...		
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
40	M20x2x20	032

Accessories



Pull studs

→

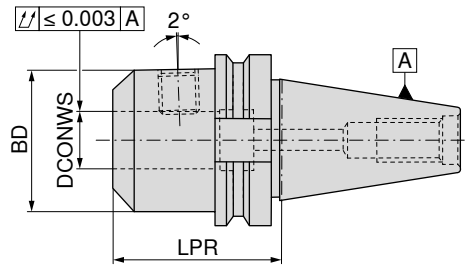


Others

→

CoreLine – 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

					CX	
					82 507 ...	
short	Adapter	DCONWS _{H4} mm	LPR mm	BD mm		
	BT 40	6	50	25	106	
	BT 40	8	50	28	108	
	BT 40	10	63	35	110	
	BT 40	12	63	42	112	
	BT 40	14	63	44	114	
	BT 40	16	63	48	116	
	BT 40	18	63	50	118	
	BT 40	20	63	52	120	
	BT 40	25	100	65	12500 ¹⁾	
	BT 40	32	100	72	13200 ¹⁾	
	BT 40	40	120	80	14000 ¹⁾	
	BT 50	6	63	25	30600	
	BT 50	8	63	28	30800	
	BT 50	10	80	35	31000	
	BT 50	12	80	42	31200	
	BT 50	14	80	44	31400	
	BT 50	16	80	48	31600	
	BT 50	18	80	50	31800	
	BT 50	20	80	52	32000	
	BT 50	25	100	65	32500 ¹⁾	
	BT 50	32	105	72	33200 ¹⁾	
long	BT 40	6	130	25	206	
	BT 40	8	130	28	208	
	BT 40	10	130	35	210	
	BT 40	12	130	42	212	
	BT 40	16	130	48	216	
	BT 40	20	130	52	220	
	BT 40	25	130	65	225 ¹⁾	
	BT 50	6	130	25	90600	
	BT 50	8	130	28	90800	
	BT 50	10	130	35	91000	
	BT 50	12	130	42	91200	
	BT 50	16	130	48	91600	
	BT 50	20	130	52	92000	
	BT 50	25	130	65	92500 ¹⁾	
	BT 50	32	130	72	93200 ¹⁾	

1) Version with two grub screws

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

Accessories





Pull studs

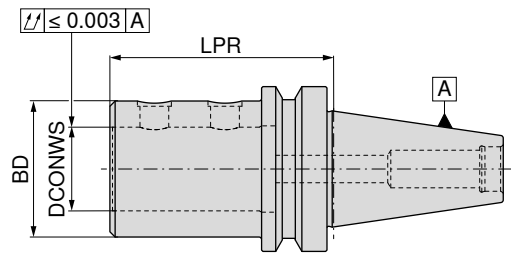
Others

→

→

CoreLine – Indexable insert drill adapter

▲ also available with Balluff chip on request



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

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

CX
10 841 ...
120
125
132
220
225
232
240
250

Spare parts

DCONWS	
20	M10x1x10
25 - 32	M12x1x10
40 - 50	M16x1x12

Grubscrew
CX
10 950 ...
001
002
003

Accessories



Pull studs

→



Others

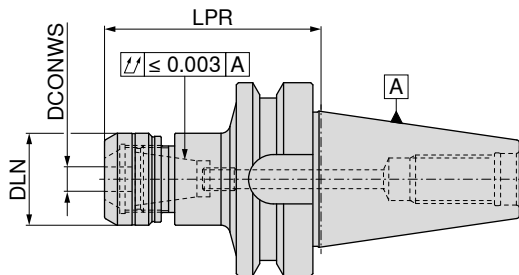
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CoreLine – ER precision collet chuck – PCC

- ▲ 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

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	CX 82 700 ... 11069 21069 11669 21669 12069 22069 11668 21668 12068 22068
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	



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

Spare parts for collet

426E (ER16)	11000	01000			M8X3,0	00100
430E (ER25)	11600	01600	M18x1,5	00200	M8x8	00300
470E (ER32)	12000	02000	M18x1,5	00200	M8x8	00300

Accessories

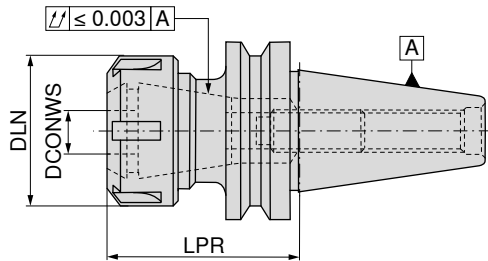


CoreLine – ER-Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Holder with lock nut and adjustable back stop



AD
G 2,5 n_{max} 25000



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

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	CX 82 509 ...	CX 82 509 ...
short	BT 30	1 - 10	70	32	56	426E (ER16)	01000	
	BT 30	1 - 16	70	42	104	430E (ER25)	01600	
	BT 30	2 - 20	70	50	136	470E (ER32)	02000	
	BT 40	1 - 10	60	22	56	426E (ER16 mini)		11169
	BT 40	1 - 10	60	32	56	426E (ER16)		110
	BT 40	1 - 16	70	42	104	430E (ER25)		116
	BT 40	2 - 20	70	50	136	470E (ER32)		120
	BT 40	3 - 26	70	63	176	472E (ER40)		126
	BT 50	1 - 10	75	32	56	426E (ER16)	31000	
	BT 50	1 - 16	75	42	104	430E (ER25)	31600	
	BT 50	2 - 20	75	50	136	470E (ER32)	32000	
	BT 50	4 - 26	75	63	176	472E (ER40)	32600	
medium length	BT 30	1 - 10	100	32	56	426E (ER16)	21000	
	BT 30	1 - 16	100	42	104	430E (ER25)	21600	
	BT 40	1 - 10	120	22	56	426E (ER16 mini)		21169
	BT 40	1 - 10	120	32	56	426E (ER16)		410
	BT 40	1 - 16	120	42	104	430E (ER25)		416
	BT 40	2 - 20	120	50	136	470E (ER32)		420
	BT 40	3 - 26	100	63	176	472E (ER40)		42600
	BT 50	1 - 10	100	32	56	426E (ER16)	71000	
	BT 50	1 - 16	100	42	104	430E (ER25)	71600	
	BT 50	2 - 20	100	50	136	470E (ER32)	72000	
	BT 50	3 - 26	100	63	176	472E (ER40)	72600	
extra-long	BT 40	1 - 10	160	32	56	426E (ER16)		51000
	BT 40	1 - 16	160	42	104	430E (ER25)		51600
	BT 40	2 - 20	160	50	136	470E (ER32)		52000
	BT 40	3 - 26	160	63	176	472E (ER40)		52600
	BT 50	1 - 16	160	42	104	430E (ER25)	81600	
	BT 50	2 - 20	160	50	136	470E (ER32)	82000	



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

								
	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK	Stop screw IK
	CT	CT	CX	CT	CT	CT	CX	CT
Spare parts for collet	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...	83 950 ...
426E (ER16 mini)				101	066	058	30000	
426E (ER16)	054	054	116					
430E (ER25)	055	055	125					010
470E (ER32)	056	65600	132					010
472E (ER40)	057	65700	140					011

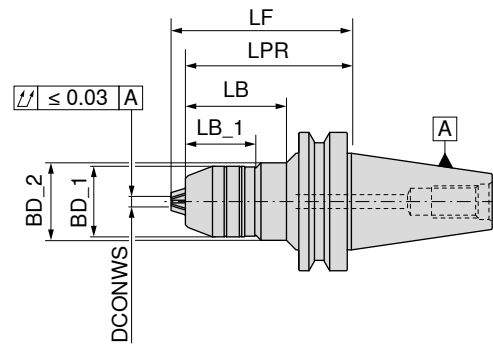
Accessories

		
ER collet	Pull studs	Others
→	→	→

CoreLine – Short drill chuck – NC 2010

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

Scope of supply:
Toolholder including clamping key SW4



A
G 6,3 n_{max} 10000

AD
G 6,3 n_{max} 10000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm
BT 40	0,5 - 13	48,5		50,9		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

CX	CX
84 509 ...	84 510 ...
413	413
416	416
516	516

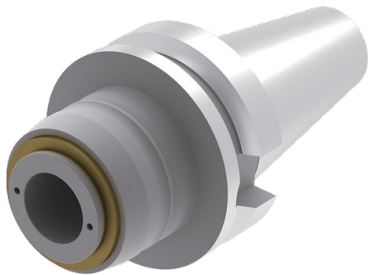
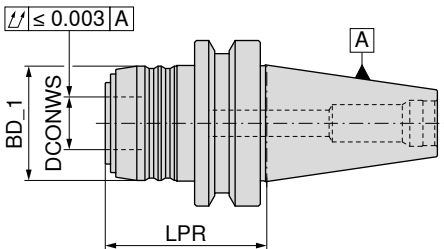
Can be used with G 2.5 to 30,000 1/min by subsequent balancing!

Accessories

Others

CoreLine – 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

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

CT
83 515 ...
012
020
112
120

Accessories



Pull studs

→



Others

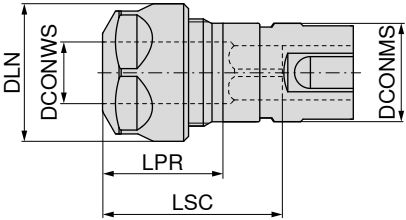
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Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



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

1) with 6 position lock nut

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



Lock nut

CT

62 950 ...



Lock nut IK

CT

83 950 ...



Lock nut

CT

62 950 ...



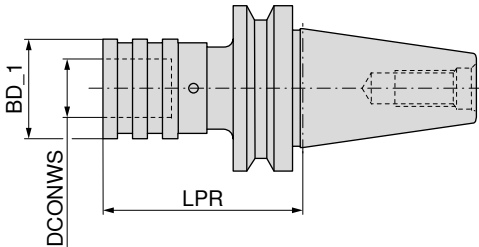
Y clamping key

CX

83 357 ...

CoreLine – Quick change tap chuck with length compensation

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



A

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

CT
83 528 ...
312
320
412
420
512
520

Accessories



Collet

→



Pull studs

→



Others

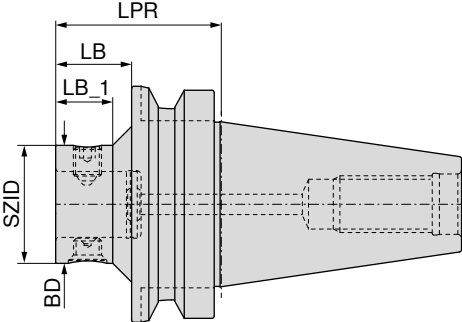
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HyPower – Adapter – ABS

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS






AD


AD/B

Adapter	SZID	BD mm	LPR mm	LB mm	LB_1 mm
BT 40	ABS 25	25	60	33	25
BT 40	ABS 32	32	60	33	
BT 40	ABS 40	40	60	33	
BT 40	ABS 50	50	60	33	
BT 40	ABS 63	63	70		
BT 50	ABS 32	32	70	32	24
BT 50	ABS 40	40	70	32	24
BT 50	ABS 50	50	70	32	24
BT 50	ABS 63	63	80	42	37
BT 50	ABS 80	80	100	62	
BT 50	ABS 100	100	110		

CT

84 202 ...
04090
04089
04088

05089
05088

CT

84 212 ...

04097
04096

05097
05096
05092
05091

Conversion kit – Cooling agent supply



for	Adapter
4 mm	SK 40 / BT 40
6 mm	SK 50 / BT 50

CT

84 950 ...
23200
23400

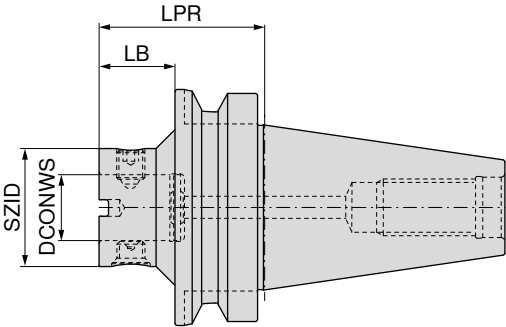
		 Clamping screw	 Clamping screw	 Set	 Taper screw
		CT	CT	CT	CT
Spare parts		62 950 ...	84 950 ...	84 950 ...	84 950 ...
SZID					
ABS 25			26800	99700	27000
ABS 32	M8x1x12/SW4	13989		99600	27100
ABS 40			26900	99500	27200
ABS 50			20300	99800	20400
ABS 63			25500	99400	27300
ABS 80			25600	99300	25100
ABS 100			25700	99200	25200

HyPower – Adapter – ABS N

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS N



AD/B

Adapter	SZID	BD mm	LPR mm	LB mm	LB_1 mm
BT 50	ABS 50 N	50	70		24
BT 50	ABS 63 N	63	80		37
BT 50	ABS 80 N	80	100	60	

CT
84 235 ...
05068
06368
08068

Spare parts
SZID

ABS 50 N	20300	99800	31800	20200	20400	30700
ABS 63 N	25500	99400	31900	23900	27300	30800
ABS 80 N	25600	99300	32000	24000	25100	30900

					
Clamping screw	Set	Positioning pin	Positioning pin	Taper screw	Sealing disc - ABS
CT	CT	CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...

Accessories




Pull studs

Others

→

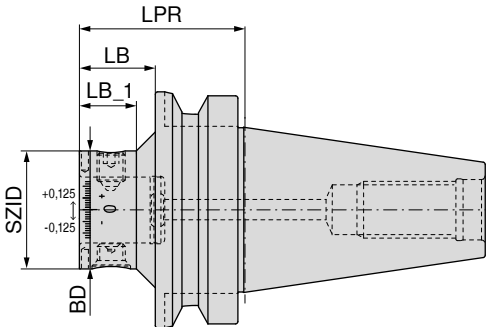
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HyPower – Eccentric adjuster – ABS

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

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS






AD


AD/B

Adapter	SZID	BD mm	LPR mm	LB mm	LB_1 mm
BT 40	ABS 50	50	60	33	
BT 40	ABS 63	63	70		
BT 50	ABS 50	50	70	32	24
BT 50	ABS 63	63	80	42	37


AD


AD/B

CT	CT
84 205 ...	84 205 ...
04096	04097
05096	05097


Clamping screw


Set


Taper screw

CT	CT	CT
84 950 ...	84 950 ...	84 950 ...
20300	99800	20400
25500	99400	27300

Spare parts
SZID

ABS 50

ABS 63

Accessories


Pull studs
→


Extension
→

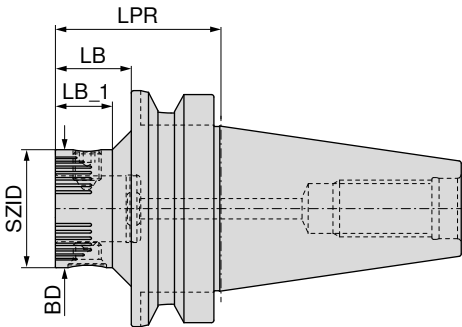

Others
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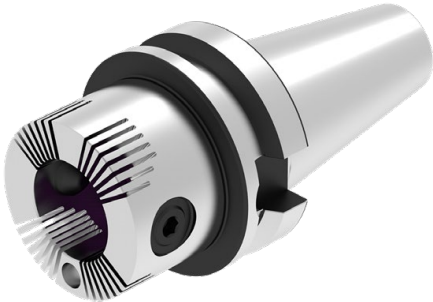
HyPower – Torsional vibration dampers – ABS

▲ also available with Balluff chip on request

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc

ABS







AD/B

Adapter	SZID	BD mm	LPR mm	LB mm	LB_1 mm
BT 40	ABS 50	50	60	33	
BT 40	ABS 63	63	70		
BT 50	ABS 50	50	70	32	24
BT 50	ABS 63	63	80	42	37

CT

84 208 ...

04097

04096

05097

05096

Spare parts
SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300



Clamping screw

CT

84 950 ...

20300



Set

CT

84 950 ...

99800

99400



Taper screw

CT

84 950 ...

20400

27300

Accessories



Pull studs

→



Extension

→



Others

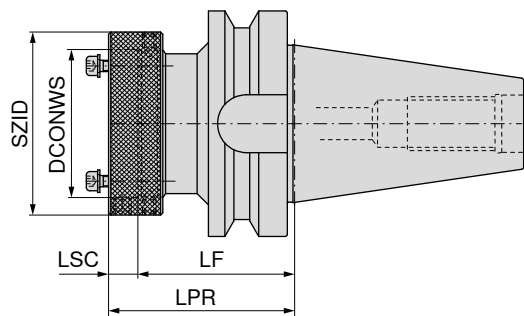
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HyPower – Compensation holder – DAH

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

Scope of supply:
DAH compensation holder complete with assembly screws

DAH



Adapter	SZID	DCONWS mm	LSC mm	LPR mm	LF mm
BT 40	DAH 63	50	12	71	59
BT 40	DAH 81	65	12	71	59
BT 50	DAH 81	65	12	82	70
BT 50	DAH 115	100	16	104	88

CT
84 329 ...
06369
08169
08168
11568

						
		Grub screw		Spring washer		DAH adjustment ring
		CT		CT		CT
		84 950 ...		84 950 ...		84 950 ...
SZID						
DAH 63	M6x8	42700	Ø5,3 - M5	42300	DAH 63	42200
DAH 81	M6x10	42800	Ø5,3 - M5	42300	DAH 81	42000
DAH 115	M8x10	43000	Ø8,4 - M8	42400	DAH 115	42100
						
				Cylindrical screw TwinKom		Clamping screw
				CT		AS
				84 950 ...		62 950 ...
SZID						
DAH 63			M5x22	42500	M8x6 - SW4	53400
DAH 81			M5x22	42500	M8x6 - SW4	53400
DAH 115			M8X30	42600	M8x8 - SW4	14700

Accessories





Pull studs

Others

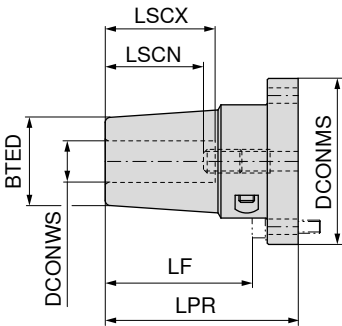
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→

HyPower – Adapter – DAH

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

DAH



AD

Adapter	DCONWS mm	DCONMS mm	BD mm	BTED mm	LB mm	LF mm	LPR mm	LSCN mm	LSCX mm
DAH 63	12	49,5	27	21,0	45	52	70	35	45
DAH 81	12	64,5	32	24,0	45	52	70	35	45
DAH 81	16	64,5	44	34,0	45	57	75	39	49
DAH 81	20	64,5	40	37,0	50	57	75	41	51
DAH 81	25	64,5	50	46,5	52		110	46	56
DAH 81	32	64,5	60	56,5	59		115	51	61

CT
84 327 ...
12600
12800
16800
20800
25800
32800

Accessories

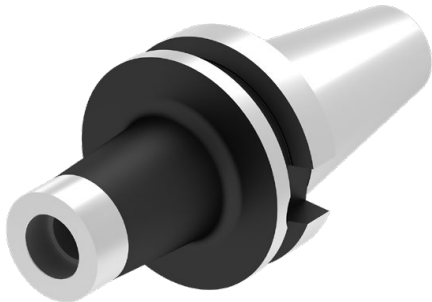
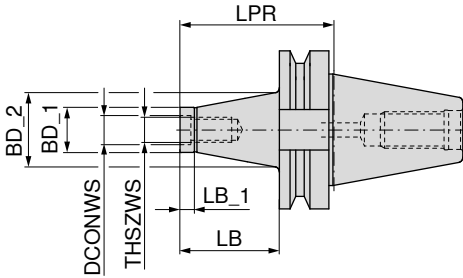


Reduction sleeve



CoreLine – Adapter for milling cutters with threaded end – Conical

▲ also available with Balluff chip on request



AD
G 2,5 n_{max} 25000

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

CX
82 749 ...
08169
08269
08369
10169
10269
10369
12169
12269
12369
12469
16169
16269
16369
16469

Accessories



Extension-Reduction set

→



Pull studs

→



Others

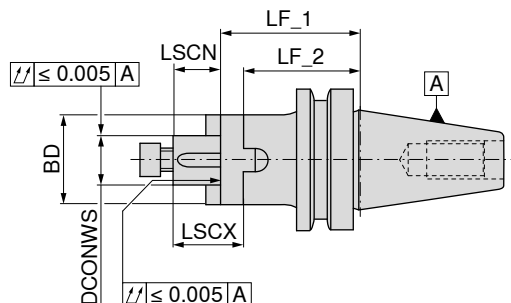
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CoreLine – Combination shell mill adapter

- ▲ 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

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

CX

82 516 ...

01600

02200

02700

116

122

127

132

140 ¹⁾

216

222

227

232

240 ¹⁾

91600

92200

92700

31600

32200

32700

33200

34000 ¹⁾

1) With cross screw

								
			Parallel key	Drive ring	Cross nut key	Cross screw	clamping screw	
			CT	CX	CX	CX	CT	
Spare parts DCONWS			83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...	
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

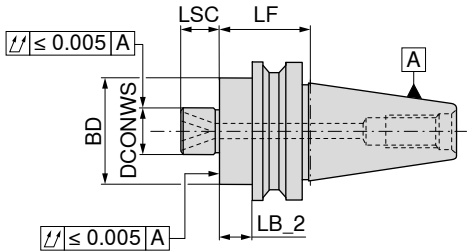
Accessories

		
Pull studs	Milling Adapter Rings	Others
→	→	→

CoreLine – 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

		Adapter	DCONWS mm	BD mm	LB_2 mm	LF mm	LSC mm		
short	BT 40	22	38	33	60	19	82 315 ...	12269	CX
	BT 40	27	48	25	52	21		12769	
	BT 50	22	38	22	60	19		12268	
	BT 50	27	48	25	63	21		12768	
medium length	BT 40	22	38	73	100	19	22269	22769	CX
	BT 40	27	48	73	100	21		22768	
	BT 50	22	38	62	100	19		22268	
	BT 50	27	48	62	100	21		22768	
long	BT 40	22	38	103	130	19	32269	32769	CX
	BT 40	27	48	103	130	21		32768	
	BT 50	22	38	92	130	19		32268	
	BT 50	27	48	92	130	21		32768	

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

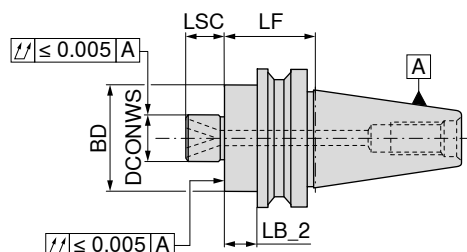
Spare parts	CT	CT	CT
DCONWS	83 950 ...	83 950 ...	83 950 ...
22	M4x8 51700	10x7x20,5 51500	M10x25 124
27	M5x8 51800	12x9x24,3 51600	M12x30 125

CoreLine – Shell mill adapter

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

Scope of supply:

Toolholder with clamping screw



A
G 2,5 n_{max} 25000



AD
G 2,5 n_{max} 25000



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

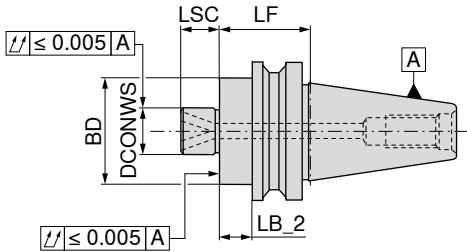
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm			
short	BT 30	16	18	40	38	17		CX	82 514 ...
	BT 30	22	18	40	48	19		01600	
	BT 30	27	18	50	58	21		02200	
	BT 30	32	28	50	78	24		02700	
								03200	
	BT 40	16	25	52	38	17			116
	BT 40	22	25	52	48	19			122
	BT 40	27	25	52	58	21			127
	BT 40	32	23	50	78	24			132
	BT 40	40	23	50	88	27			140 ¹⁾
	BT 50	16	25	63	38	17			
	BT 50	22	25	63	48	19		316	
	BT 50	27	25	63	58	21		322	
	BT 50	32	22	60	78	24		327	
	BT 50	40	22	60	88	27		332	
medium length								340 ¹⁾	
	BT 40	16	73	100	38	17			416
	BT 40	22	73	100	48	19			422
	BT 40	27	73	100	58	21			427
	BT 40	32	73	100	78	24			432
	BT 40	40	73	100	88	27			440 ¹⁾
	BT 50	16	62	100	38	17			
	BT 50	22	62	100	48	19		616	
	BT 50	27	62	100	58	21		622	
	BT 50	32	62	100	78	24		627	
	BT 50	32	62	100	78	24		632	
	BT 50	40	62	100	88	27		640 ¹⁾	
	BT 40	16	103	130	38	17			816
	BT 40	22	103	130	48	19			822
	BT 40	27	103	130	58	21			827
long	BT 40	32	103	130	78	24			832
	BT 40	40	103	130	88	27			840 ¹⁾
	BT 50	16	92	130	38	17			
	BT 50	22	92	130	48	19		916	
	BT 50	27	92	130	58	21		922	
	BT 50	27	92	130	58	21		927	
	BT 50	32	92	130	78	24		932	
	BT 50	40	92	130	88	27		940 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)!

CoreLine – Shell mill adapter

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

Scope of supply:
Toolholder with clamping screw



A	AD	AD/B
G 2,5 n _{max} 25000	G 2,5 n _{max} 25000	G 2,5 n _{max} 25000
CX	CX	CX
82 514 ...	82 514 ...	82 514 ...
		516
		522
		527
		532
		540 ¹⁾
	716	
	722	
	727	
	732	
	740 ¹⁾	

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm
extra-long	BT 40	16	133	160	38	17
	BT 40	22	133	160	48	19
	BT 40	27	133	160	58	21
	BT 40	32	133	160	78	24
	BT 40	40	133	160	88	27
	BT 50	16	122	160	38	17
	BT 50	22	122	160	48	19
	BT 50	27	122	160	58	21
	BT 50	32	122	160	78	24
	BT 50	40	122	160	88	27

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

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

Accessories

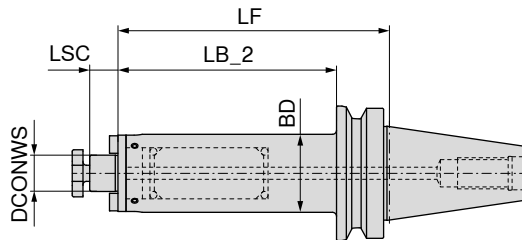
		
Pull studs	Extensions	Others
→	→	→

HyPower – Actively vibration-damped shell mill adapter

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

Scope of supply:

Base body with retaining screw and drive dog



AD

Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	
BT 40	16	173,0	200	39	17	
BT 40	22	173,0	200	48	19	
BT 50	16	162,5	200	39	17	
BT 50	22	162,0	200	48	19	
BT 50	27	162,0	200	58	21	

CT

84 752 ...

51669

52269

51668

52268

52768

Spare parts		Screw for drivers		Driver		Cross screw		clamping screw	
DCONWS		CT		CT		CX		CT	
		83 950 ...		83 950 ...		83 367 ...		83 950 ...	
16	M3x8	296	8x9x17,5	120	M8	016	M8x25	113	
22	M4x12	297	10x11x20,5	121	M10	022	M10x25	124	
27	M5x12	136	12x13x24,3	122	M12	027	M12x30	125	

Accessories



Pull studs



Others

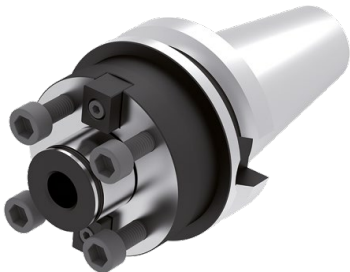
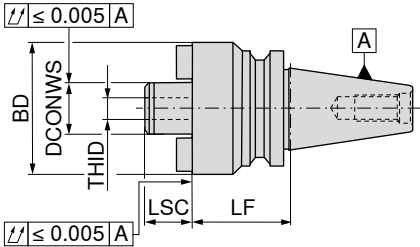


CoreLine – Large diameter facemill adapter

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

Scope of supply:

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



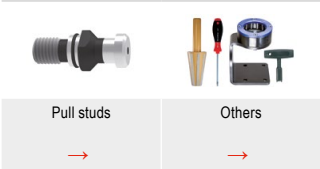
A
G 6,3 n_{max} 8000

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

CX
82 519 ...
240
260

Spare parts		Screw for drivers		Driver		Socket head screw		clamping screw	
DCONWS		CT		CT		AS		CT	
40	M6x16	83 950 ...	138	15,9x16,3x19,5	295			M12x50	140
60				25,4x25x26,5	298	M12x30 - SW10	181	M16x45	160

Accessories

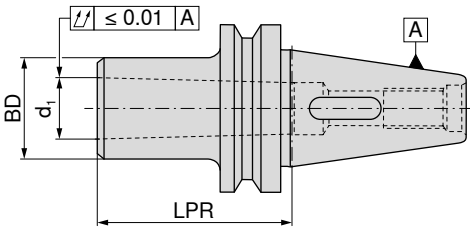


Pull studs

Others

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

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 8000

Adapter	d ₁	LPR mm	BD mm
BT 30	MK1	50	25
BT 30	MK2	60	32
BT 30	MK3	77	40
BT 40	MK1	50	25
BT 40	MK2	50	32
BT 40	MK3	70	40
BT 40	MK4	95	48
BT 50	MK1	45	25
BT 50	MK2	60	32
BT 50	MK3	65	40
BT 50	MK4	95	48
BT 50	MK5	105	63

CX
82 525 ...
01000
02000
03000
110
120
130
140
210
220
230
240
250

Accessories



Morse taper adapter sleeve

→



Pull studs

→



Others

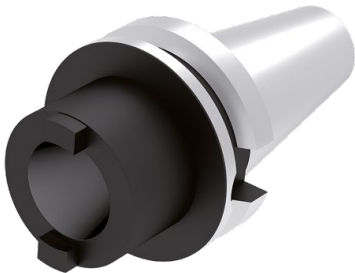
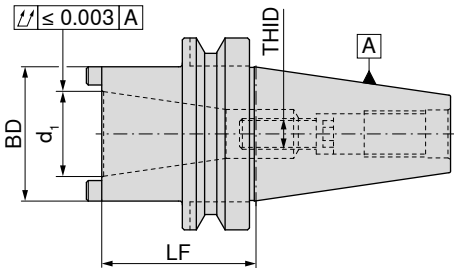
→

CoreLine – Milling adapter sleeve

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

Scope of supply:

Holder with clamping screw for DIN 2080 adapters



A
G 6,3 n_{max} 8000

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

CX

82 518 ...

10600

11000

250

Spare parts for Article no.	 Clamping screw SK  Morse taper clamping screw  Counterscrew  Hollow key with nose  Fixing ring				
	CT	CT	CT	CX	CT
	83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
		18400	030	017	18500
82 518 10600			030	023	270
82 518 11000	009				
82 518 250	009				

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

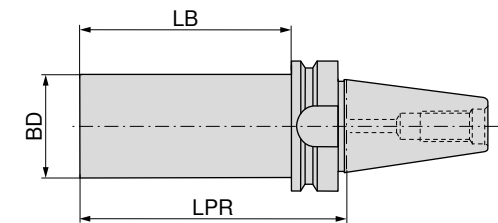
ISO 7388-2 Suitable for article no.	Taper Shank	Clamping screw length ISO 7388-1, ISO 7388-2 THID	Clamping screw length DIN 2080 THID
	Ø d1		
8404013069	SK 30 – BT 30		M12x30 – 83950125
8404014069	SK 40 – BT 40	M16x70 – 83950264	M16x45 – 8495043700
8404014068	SK 40 – BT 40	M16x65 – 8495043600	M16x40 – 83950009

Accessories

	
Pull studs	Others
→	→

CoreLine – 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**



A



AD/B

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

CX
82 523 ...
050

CX
82 523 ...
040

Accessories



Pull studs

→



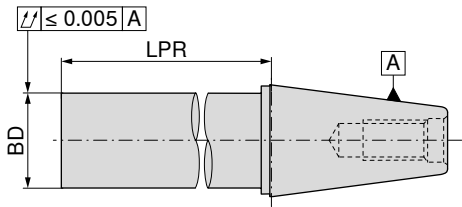
Others

→

CoreLine – Test bar

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

Scope of supply:
in wooden box



A

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

CT
82 456 ...
040
050

Accessories

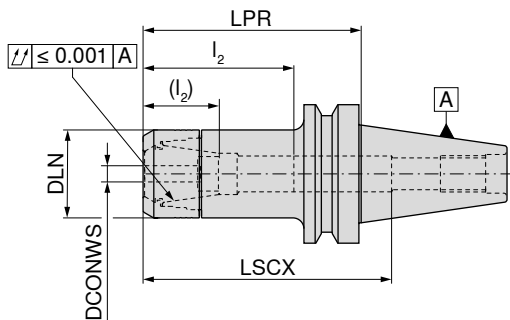
	
Pull studs	Others
→	→

CoreLine – ER Precision Collet chuck – Centro-P

- ▲ 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

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)
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)

CT

84 525 ...

002

00400

00600

012

022

102

10400

10600

11400

112

11600

122

12400

12600



LSCX = Clamping depth without back stop screw for shanks

l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2

Dimension LPR when using tightening nuts with seals 4 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.	 Lock nut IK		 Lock nut		 Stop screw 2		 Stop screw 1	
	CT		CT		CT		CT	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
84 525 002	011	001	M11x1 - SW6	341	M11x1 - SW6	337		
84 525 00400	011	001	M11x1 - SW6	341	M11x1 - SW6	337		
84 525 00600	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 10400	011	001	M11x1 - SW6	341	M11x1 - SW6	337		
84 525 10600	011	001	M11x1 - SW6	341	M11x1 - SW6	337		
84 525 11400	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431		
84 525 112	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431		
84 525 11600	013	003	M18x1,5 - SW6	432	M18x1,5 - SW6	431		
84 525 122	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401		
84 525 12400	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401		
84 525 12600	015	005	M22x1,5 - SW6	402	M22x1,5 - SW6	401		

Accessories

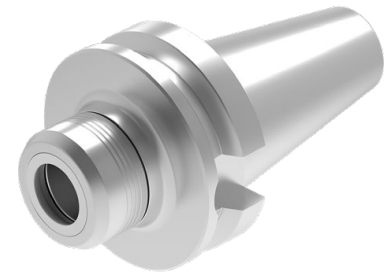
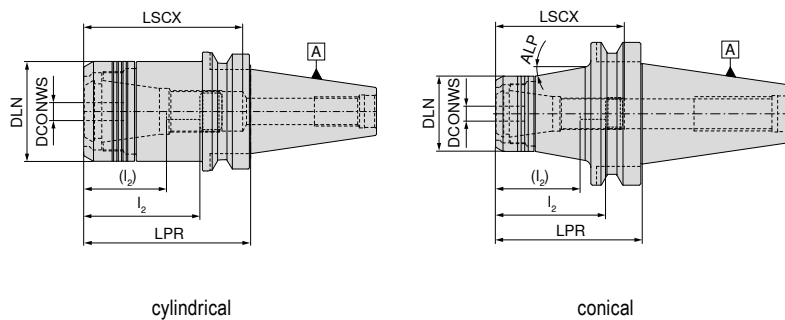
					
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→	→	→	→	→	→

CoreLine – 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
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)

CT
84 400 ...
12064
22064

CT
84 400 ...
12063
22063



LSCX = Clamping depth without backstop screw

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

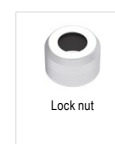


→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts

DCONWS

2 - 20



Lock nut

CT

84 950 ...

30100

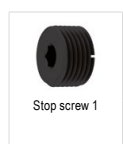


Stop screw 2

CT

83 950 ...

402



Stop screw 1

CT

83 950 ...

401

Accessories



ER collet



Roll key



Roll key device



Pull studs



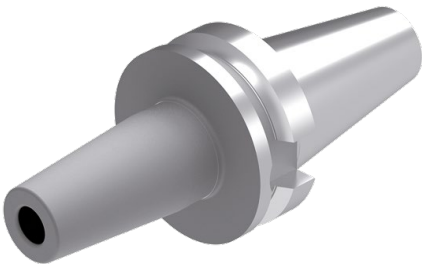
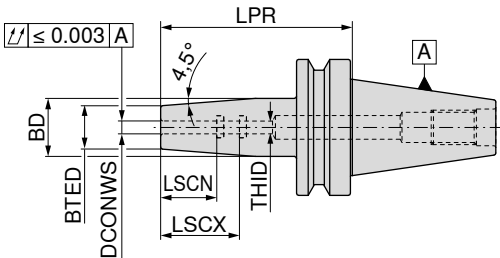
Others



CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	
6	
8	
10	
12	
16	
20 - 25	

	
Stop screw IK	Stop screw IK
CT	CT
83 950 ...	83 950 ...
417	418
	419
	420
	421
	422
	424

Accessories

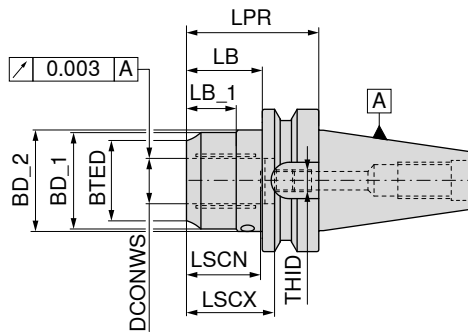
		
Shrink fit extension	Pull studs	Others
→	→	→

HyPower – High pressure chuck – Complus

- ▲ High pressure chuck, short and stable version
- ▲ 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

CT

83 527 ...

120

13274

12073

13273

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
BT-FC 40	32	90,0	54	63	62	64,0	48	61	51	M16x1x13,5
BT-FC 50	20	83,5	38	49		47,0		51	41	M16x1x13,5
BT-FC 50	32	90,0	57	68	72	53,5	35	61	51	M16x1x13,5



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.

		AS		CT		CT
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



Clamping key – T



Pressure screw



Stop screw IK

Accessories



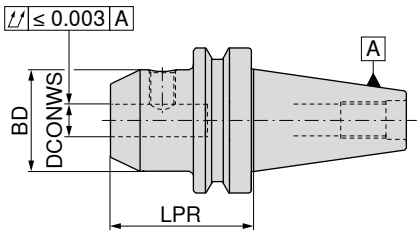
Reduction sleeve

Pull studs

Others

CoreLine – Cylindrical shank adapter Weldon

- ▲ 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

CT

82 741 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	
short	BT-FC 30	6	50	25	10665
	BT-FC 30	8	50	28	10865
	BT-FC 30	10	50	35	11065
	BT-FC 30	12	55	42	11265
	BT-FC 30	16	63	48	11665
	BT-FC 30	20	63	52	12065
	BT-FC 40	6	50	25	10664
	BT-FC 40	8	50	28	10864
	BT-FC 40	10	63	35	11064
	BT-FC 40	12	63	42	11264
	BT-FC 40	16	63	48	11664
	BT-FC 40	20	63	52	12064
	BT-FC 40	25	100	65	12564 ¹⁾
	BT-FC 40	32	100	72	13264 ¹⁾
	BT-FC 50	6	63	25	10663
	BT-FC 50	8	63	28	10863
	BT-FC 50	10	80	35	11063
	BT-FC 50	12	80	42	11263
	BT-FC 50	16	80	48	11663
	BT-FC 50	20	80	52	12063
	BT-FC 50	25	100	65	12563 ¹⁾
	BT-FC 50	32	105	72	13263 ¹⁾

1) Version with two grub screws



Grubscrew

CT

62 950 ...

6	006
8	008
10	010
12	012
16	016
20	020
25	025
32	032

Spare parts
DCONWS_{H4}

6
8
10
12
16
20
25
32

Accessories



Pull studs

→



Others

→

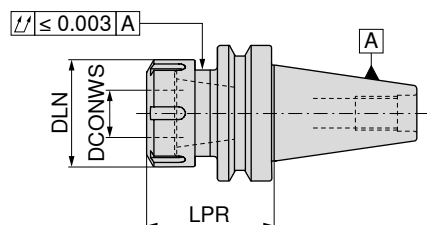
CoreLine – ER Collet chuck

▲ with face contact

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

Scope of supply:

Toolholder including nut



AD
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	
short	BT-FC 30	1 - 10	63	32	56	426E (ER16)	CT 82 743 ... 11065 11665 12065 11064 11664 12064 11063 11663 12063
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	
	BT-FC 40	1 - 10	63	32	56	426E (ER16)	
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	
	BT-FC 50	1 - 10	100	32	56	426E (ER16)	
	BT-FC 50	1 - 16	75	42	104	430E (ER25)	
	BT-FC 50	2 - 20	75	50	136	470E (ER32)	

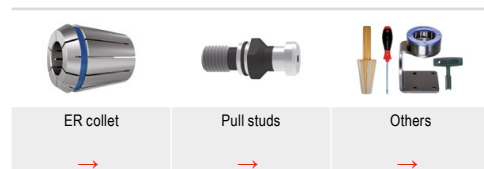


Dimension LPR is 5.0 mm longer for ER16, ER25 and ER32, and 5.5 mm for ER40 when using thro' coolant lock nuts.

Spare parts for collet

		Lock nut IK	Lock nut	Y clamping key
		CT	CT	CX
		83 950 ...	62 950 ...	83 357 ...
426E (ER16) / BT30-BT50	M22x1,5	054	M22x1,5	116
430E (ER25) / BT30-BT50	M32x1,5	055	M32x1,5	125
470E (ER32) / BT30-BT50	M40x1,5	056	M40x1,5	132

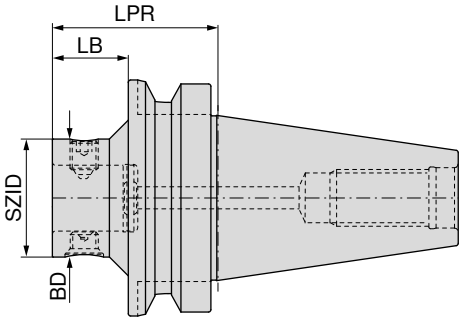
Accessories



HyPower – Adapter – ABS

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

ABS



AD

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

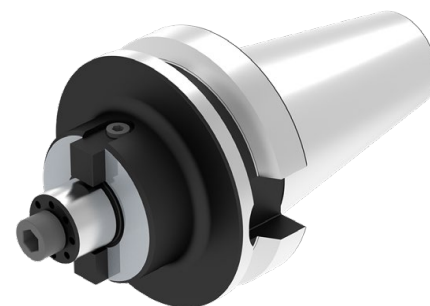
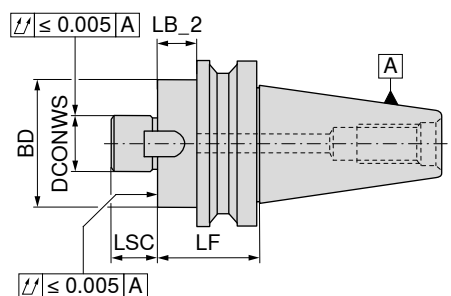
CT
84 264 ...
05064
06364
05063
06363
08063
10063

Spare parts

SZID	Clamping screw	Set	Taper screw
ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100
ABS 100	25700	99200	25200

CoreLine – Shell mill adapter

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



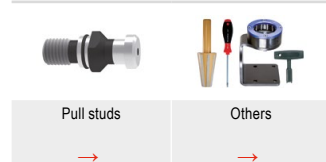
AD
G 2,5 n_{max} 25000

	Adapter	DCONWS	LB_2	LF	BD	LSC	CT
		mm	mm	mm	mm	mm	
short	BT-FC 30	16	18	40	40	17	82 745 ...
	BT-FC 30	22	18	40	50	19	
	BT-FC 30	27	28	50	60	21	
	BT-FC 30	32	28	50	80	24	
	BT-FC 40	16	25	52	40	17	11664
	BT-FC 40	22	25	52	50	19	
	BT-FC 40	27	25	52	60	21	
	BT-FC 40	32	23	50	80	24	
	BT-FC 40	40	23	50	89	27	14064
	BT-FC 50	22	25	63	50	19	
	BT-FC 50	27	25	63	60	21	
	BT-FC 50	32	22	60	80	24	
	BT-FC 50	40	22	60	89	27	
							11665
							12265
							12765
							13265

Spare parts

DCONWS		Screw for drivers		Driver		clamping screw	
		CT		CT		CT	
16	M3x8	83 950 ...	296	83 950 ...	120	83 950 ...	113
22	M4x12		297		121		124
27	M5x12		136		122		125
32	M5x20		137		123		126
40	M6x16		138		295		112

Accessories



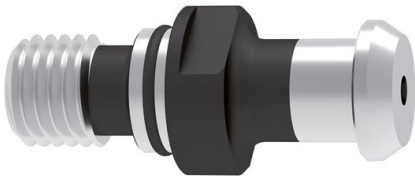
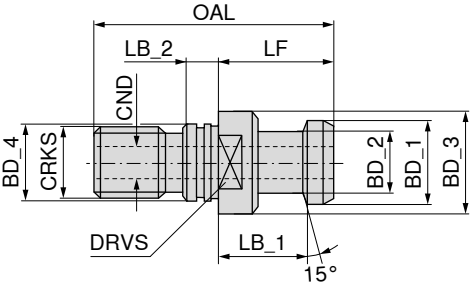
Pull studs

Others

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:
including O-Ring

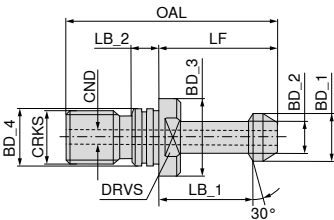


Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	CX 83 532 ... 040
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	
BT 40	19	14	23	17	M16	54	29	23	5	5	19	50	

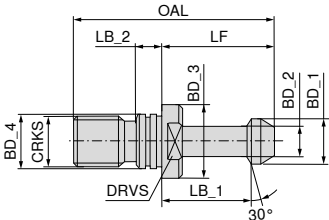
Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring



A



B



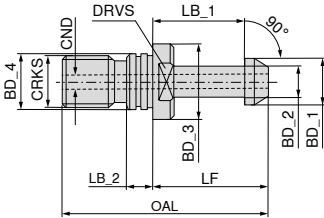
Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	CX	
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	A 82 531 ... 030 040 050	B 82 533 ... 030 040 050
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	20		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	50		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	150		
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	20		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	50		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	150		

													A	B
													CX	CX
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	82 534 ...	82 530 ...
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	20	030	
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	50	040	
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	150	050	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	20		030
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	50		040
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	150		050

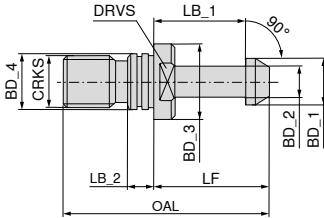
Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring



A



B



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	A		B	
													CX		CX	
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	50	82 537 ...		82 536 ...	
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	150	040			
BT 40	15	10	23	17	M16	60	35	28	5,5		19	50	050			040
BT 50	23	17	38	25	M24	85	45	35	8,0		30	150				050

Spare parts
BD_4

17		040	040
25		050	050



O-Ring



Pull stud

CX
83 476 ...
040
050

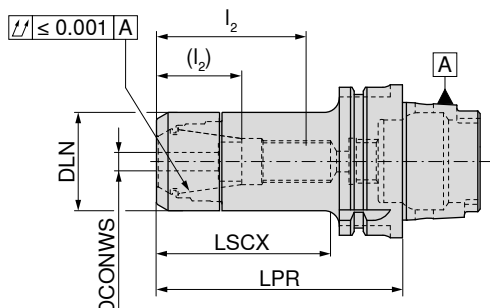
CX
82 487 ...
040
050

CoreLine – 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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	for collet	CT
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	84 722 ...
HSK-A 40	2 - 16	60	40	40		430E (ER25)	401
HSK-A 40	2 - 20	61	50	45		470E (ER32)	404 ¹⁾
							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
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	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 - 16	130	40	98	40 - 60 (22 - 42)	430E (ER25)	11800
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



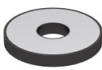
LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_2) = With back stop screw 2
 Dimension LPR when using tightening nuts with seals 4 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

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

Accessories

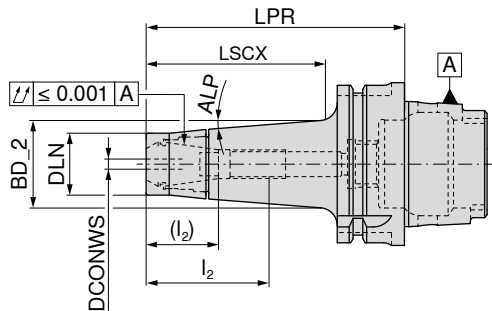
					
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→	→	→	→	→	→

CoreLine – ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 n_{max} 25000

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

CT
84 721 ...
310
710
810
61200
610
611



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet

426E (ER16)

CT	CT	CT	CT
84 950 ...	84 950 ...	83 950 ...	83 950 ...
033	031	341	337

Accessories

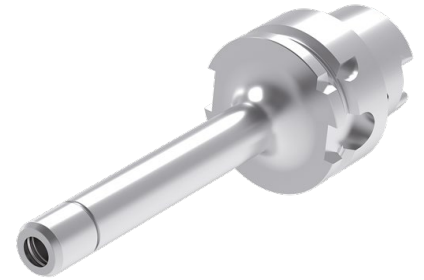
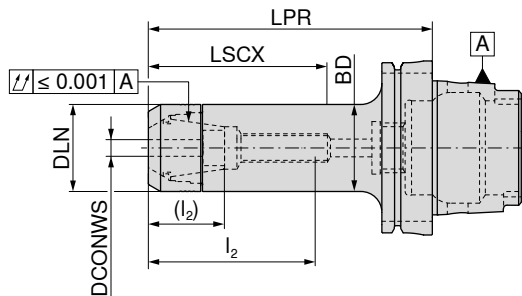
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→	→	→	→	→	→

CoreLine – ER Precision collet chuck, slim version – Centro-P

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

Scope of supply:

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



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

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)
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)

CT
84 719 ...
407
507
607
707
608
610
710
810
910



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

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

Accessories

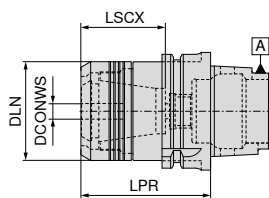
						
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→	→	→	→	→	→	→

CoreLine – ER precision collet chuck – HDC

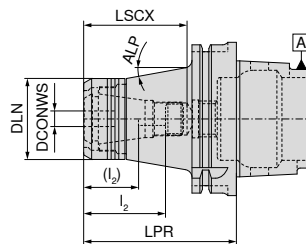
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



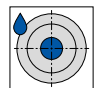
cylindrical



conical



G 6,3 n_{max} 18000
cylindrical



G 6,3 n_{max} 18000
conical

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

CT	CT
84 400 ...	84 400 ...
12057	
22057	
	22055



LSCX = Clamping depth without backstop screw

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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts

DCONWS

2 - 20

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

Accessories

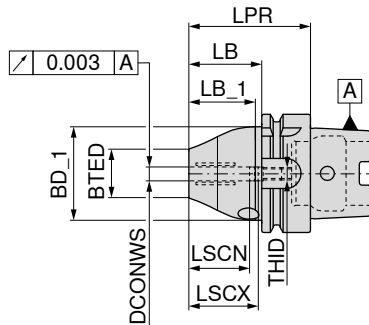
ER collet	Roll key	Roll key device	Others
→	→	→	→

HyPower – High pressure chuck – 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



G 2,5 n_{max} 25000

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	26,0	50,0	35,20	39	37	27	M5
HSK-A 63	8	65	28,0	50,0	35,20	39	37	27	M6
HSK-A 63	10	75	30,0	50,0	45,20	49	41	31	M8x1
HSK-A 63	12	75	32,0	52,5	45,20	49	46	36	M8x1
HSK-A 63	16	79	38,0	52,5	49,20	53	49	39	M8x1
HSK-A 63	20	79	38,0	52,5	49,20	53	51	41	M8x1
HSK-A 63	25	95	48,0	57,0	45,00	69	57	47	M10X1
HSK-A 63	32	110	58,5	62,5	50,00	84	61	51	M10X1
HSK-A 100	6	73	26,0	50,0	40,20	44	37	27	M5
HSK-A 100	8	73	28,0	50,0	40,20	44	37	27	M6
HSK-A 100	10	83	30,0	50,0	50,20	54	41	31	M8x1
HSK-A 100	12	83	32,0	52,5	50,20	54	46	36	M8x1
HSK-A 100	16	87	38,0	52,5	54,20	58	49	39	M8x1
HSK-A 100	20	87	38,0	52,5	54,20	58	51	41	M8x1
HSK-A 100	25	95	56,0	70,0	62,25	66	57	47	M10X1
HSK-A 100	32	100	60,0	75,0	67,25	71	61	51	M10X1

CT

84 254 ...

10657
10857
11057
11257
11657
12057
12557
13257

10655
10855
11055
11255
11655
12055
12555
13255



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

		 Clamping key – T		 Pressure screw		 Stop screw IK	
		AS		CT		CT	
Spare parts DCONWS		80 397 ...		83 950 ...		83 950 ...	
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	
25	SW5	050	M10x12	55000	M10x1x13,5 - SW5	421	
32	SW5	050	M10x12	55000	M10x1x13,5 - SW5	421	

Accessories

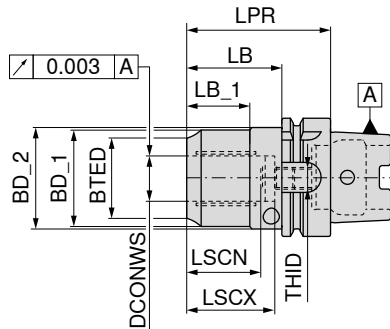
		
Reduction sleeve	Coolant transfer pipe	Others
→	→	→

HyPower – High pressure chuck – 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

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB	LB_1	LSCX	LSCN	THID
HSK-A 63	20	80	36	49	52,5	54	36	51	40	M8x1
HSK-A 63	32	105	54	63	52,5	79	55	61	51	M16x1
HSK-A 100	20	85	38	49	52,5	56	36	51	41	M8x1
HSK-A 100	32	100	57	68	72,0	71	42	61	51	M8x1

CT

83 722 ...

120

13257

12055

13255



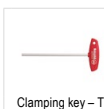
LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.

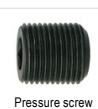
83 722 120	050	158	420
83 722 13257	050	158	424
83 722 12055	050	158	420
83 722 13255	050	158	420



Clamping key – T

AS

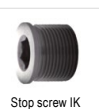
80 397 ...



Pressure screw

CT

83 950 ...



Stop screw IK

CT

83 950 ...

Accessories



Reduction sleeve



Coolant transfer pipe



Others

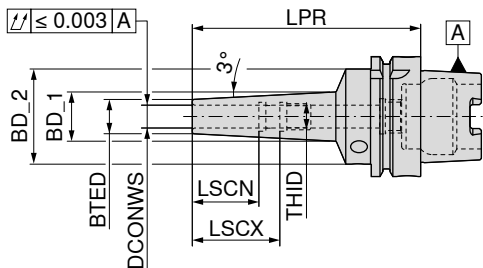


HyPower – High pressure chuck – Access 3°

- ▲ 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

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LSCX	LSCN	THID	
		mm	mm	mm	mm	mm	mm	mm		
medium length	HSK-A 63	3	120	9	16,65	50	28	12	M3	83 727 ...
	HSK-A 63	4	120	10	17,65	50	28	16	M3	603
	HSK-A 63	5	120	11	18,65	50	28	20	M3	604
	HSK-A 63	6	120	12	19,75	50	37	27	M5	605
	HSK-A 63	8	120	14	21,75	50	37	27	M6	606
	HSK-A 63	10	120	16	23,75	50	41	31	M8x1	608
	HSK-A 63	12	120	18	25,86	50	46	36	M10x1	610
	HSK-A 63	16	120	24	31,50	50	49	39	M12x1	612
	HSK-A 63	20	120	28	35,55	50	51	41	M16x1	616
extra-long	HSK-A 63	6	160	16	33,53	50	37	27	M5	620
	HSK-A 63	8	160	18	34,55	50	37	27	M6	706
	HSK-A 63	10	160	20	36,27	50	41	31	M8x1	708
	HSK-A 63	12	160	22	37,78	50	46	36	M10x1	710
extra long	HSK-A 63	6	200	16	37,83	50	37	27	M5	712
	HSK-A 63	8	200	18	38,85	50	37	27	M6	806
	HSK-A 63	10	200	20	40,57	50	41	31	M8x1	808
	HSK-A 63	12	200	22	42,07	50	46	36	M10x1	810
										812



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

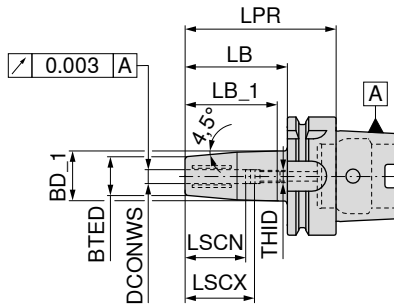
		 Clamping key – T		 Pressure screw		 Stop screw IK	
		AS		CT		CT	
Spare parts DCONWS		80 397 ...		83 950 ...		83 950 ...	
3	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
4	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
5	SW5	050	M10x1x10	158	M3x20 - SW1,5	172	
6	SW5	050	M10x1x10	158	M5x12,5 - SW2,5	418	
6	SW5	050	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 – High pressure chuck – 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



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB_1 mm	LB mm	LSCX mm	LSCN mm	THID
HSK-A 63	6	120	21	27	48,9	94	37	27	M5
HSK-A 63	6	80	21	27	48,9	54	37	27	M5
HSK-A 63	8	120	21	27	48,9	94	37	27	M6
HSK-A 63	8	80	21	27	48,9	54	37	27	M6
HSK-A 63	10	120	24	32	61,6	94	41	31	M8X1
HSK-A 63	10	85	24	32	53,7	59	41	31	M8x1
HSK-A 63	12	120	24	32	61,6	94	46	36	M10X1
HSK-A 63	12	90	24	32	58,6	64	46	36	M10x1
HSK-A 63	16	120	27	34	56,2	94	49	39	M12X1
HSK-A 63	16	95	27	34	63,1	69	49	39	M12x1
HSK-A 63	20	120	33	42	68,9	94	51	41	M16X1
HSK-A 63	20	100	33	42	68,9	74	51	41	M16x1
HSK-A 100	6	120	21	27	48,9	91	37	27	M5
HSK-A 100	6	85	21	27	38,7	56	37	27	M5
HSK-A 100	8	120	21	27	48,9	91	37	27	M6
HSK-A 100	8	85	21	27	38,7	56	37	27	M6
HSK-A 100	10	120	24	32	61,6	91	41	31	M8X1
HSK-A 100	10	90	24	32	53,7	61	41	31	M8x1
HSK-A 100	12	120	24	32	61,6	91	46	36	M10X1
HSK-A 100	12	95	24	32	58,6	66	46	36	M10x1
HSK-A 100	16	120	27	34	56,2	91	49	39	M12X1
HSK-A 100	16	100	27	34	63,1	71	49	39	M12x1
HSK-A 100	20	120	33	42	68,9	91	51	41	M16X1
HSK-A 100	20	105	33	42	68,9	76	51	41	M16x1

CT

84 255 ...

20657
10657
20857
10857
21057
11057
21257
11257
21657
11657
22057
12057

20655
10655
20855
10855
21055
11055
21255
11255
21655
11655
22055
12055



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

		 Clamping key – T		 Pressure screw		 Stop screw IK	
		AS		CT		CT	
Spare parts for Article no.		80 397 ...		83 950 ...		83 950 ...	
84 255 20657	SW5	050	M10x10	55100	M5x12,5 - SW2,5	418	
84 255 10657	SW5	050	M10x10	55100	M5x12,5 - SW2,5	418	
84 255 20857	SW5	050	M10x10	55100	M6x12,5 - SW3	419	
84 255 10857	SW5	050	M10x10	55100	M6x12,5 - SW3	419	
84 255 21057	SW5	050	M10x10	55100	M8x1x13,5 - SW3	420	
84 255 11057	SW5	050	M10x10	55100	M8x1x13,5 - SW3	420	
84 255 21257	SW5	050	M10x10	55100	M10x1x13,5 - SW5	421	
84 255 11257	SW5	050	M10x10	55100	M10x1x13,5 - SW5	421	
84 255 21657	SW5	050	M10x10	55100	M12x1x13,5 - SW5	422	
84 255 11657	SW5	050	M10x10	55100	M12x1x13,5 - SW5	422	
84 255 22057	SW5	050	M10x10	55100	M16x1x13,5 - SW8	424	
84 255 12057	SW5	050	M10x10	55100	M16x1x13,5 - SW5	423	
84 255 20655	SW5	050	M10x12	55000	M5x12,5 - SW2,5	418	
84 255 10655	SW5	050	M10x10	55100	M5x12,5 - SW2,5	418	
84 255 20855	SW5	050	M10x12	55000	M6x12,5 - SW3	419	
84 255 10855	SW5	050	M10x12	55000	M6x12,5 - SW3	419	
84 255 21055	SW5	050	M10x12	55000	M8x1x13,5 - SW3	420	
84 255 11055	SW5	050	M10x12	55000	M8x1x13,5 - SW3	420	
84 255 21255	SW5	050	M10x12	55000	M10x1x13,5 - SW5	421	
84 255 11255	SW5	050	M10x12	55000	M10x1x13,5 - SW5	421	
84 255 21655	SW5	050	M10x12	55000	M12x1x13,5 - SW5	422	
84 255 11655	SW5	050	M10x12	55000	M12x1x13,5 - SW5	422	
84 255 22055	SW5	050	M10x12	55000	M16x1x13,5 - SW8	424	
84 255 12055	SW5	050	M10x12	55000	M16x1x13,5 - SW5	423	

Accessories

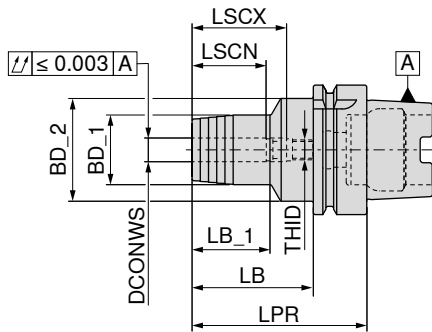
		
Reduction sleeve	Coolant transfer pipe	Others
→	→	→

CoreLine – Hydraulic chuck – 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

	Adapter	DCONWS	LPR	BD_1	BD_2	LB_1	LB	LSCX	LSCN	THID	CT
		mm	mm	mm	mm	mm	mm	mm	mm		
short	HSK-A 63	6	70	26	49,5	24	44	37	27	M5	83 726 ...
	HSK-A 63	8	70	28	49,5	24	44	37	27	M6	606
	HSK-A 63	10	80	30	49,5	32	54	41	31	M8x1	608
	HSK-A 63	12	85	32	49,5	40	59	46	36	M10x1	610
	HSK-A 63	16	90	38	49,5	46	64	49	39	M12x1	612
	HSK-A 63	20	90	42	49,5	48	64	51	41	M16x1	616
	HSK-A 63	25	120	57	52,0	63	94	57	47	M16x1	620
	HSK-A 63	32	125	63	53,0	61	99	61	51	M16x1	625
	HSK-A 100	6	75	26	50,0	26	46	37	27	M5	632
	HSK-A 100	8	75	28	50,0	26	46	37	27	M6	10655
	HSK-A 100	10	90	30	50,0	42	61	41	31	M8x1	10855
	HSK-A 100	12	95	32	50,0	47	66	46	36	M10x1	11055
	HSK-A 100	16	100	38	50,0	53	71	49	39	M12x1	11255
	HSK-A 100	20	105	42	50,0	59	76	51	41	M16x1	11655
	HSK-A 100	25	110	57	63,0	62	81	57	47	M16x1	12055
	HSK-A 100	32	110	63	67,0	62	81	61	51	M16x1	12555
											13255



LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

			 Pressure screw	 Stop screw IK
			CT	CT
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

Accessories

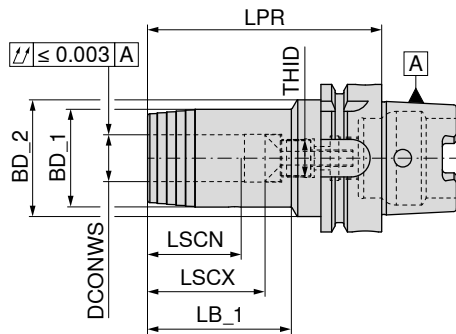
		
Reduction sleeve	Coolant transfer pipe	Others
→	→	→

CoreLine – 1-channel MMS hydraulic chuck – Fit

- ▲ 1-channel MMS hydraulic chuck, short
- ▲ MMS = minimum quantity lubrication
- ▲ For automatic tool changing

Scope of supply:

Base body including length adjustment screw and coolant transfer unit



G 2,5 n_{max} 25000

	Adapter	DCONWS	LPR	BD_1	BD_2	LB_1	LSCX	LSCN	THID	CT 83 432 ...
		mm	mm	mm	mm	mm	mm	mm		
short	HSK-A 63	6	80	26	45	37,0	36	26	M10x1	00657 ¹⁾
	HSK-A 63	8	80	28	45	37,5	36	26	M10x1	00857 ¹⁾
	HSK-A 63	10	85	30	45	43,5	40	30	M10x1	01057 ¹⁾
	HSK-A 63	12	90	32	45	49,0	45	35	M10x1	01257 ¹⁾
	HSK-A 63	14	90	34	45	49,5	45	35	M10x1	01457 ¹⁾
	HSK-A 63	16	95	38	45	55,5	48	38	M12x1	01657 ¹⁾
	HSK-A 63	18	95	40	45	56,0	48	38	M12x1	01857 ¹⁾
	HSK-A 63	20	100	42	50	60,5	50	40	M16x1	02057 ¹⁾
	HSK-A 63	25	115	57		89,0	56	46	M16x1	02557 ¹⁾
	HSK-A 63	32	120	63		94,0	60	50	M16x1	03257 ¹⁾
	HSK-A 100	6	85	26	45	36,5	36	26	M10x1	00655 ¹⁾
	HSK-A 100	8	85	28	45	37,0	36	26	M10x1	00855 ¹⁾
	HSK-A 100	10	90	30	45	43,0	40	30	M10x1	01055 ¹⁾
	HSK-A 100	12	95	32	45	48,5	45	35	M10x1	01255 ¹⁾
	HSK-A 100	14	95	34	45	49,0	45	35	M10x1	01455 ¹⁾
	HSK-A 100	16	100	38	45	55,0	48	38	M12x1	01655 ¹⁾
	HSK-A 100	18	100	40	45	55,5	48	38	M12x1	01855 ¹⁾
	HSK-A 100	20	105	42	50	60,0	50	40	M16x1	02055 ¹⁾
	HSK-A 100	25	115	57		86,0	56	46	M16x1	02555 ¹⁾
	HSK-A 100	32	120	63		91,0	60	50	M16x1	03255 ¹⁾

1) Not ex-stock



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.				
	AS	CT	CT	CT
	80 397 ...	83 950 ...	83 950 ...	83 950 ...
83 432 00657	040	439	54200	52100
83 432 00857	040	439	54200	52200
83 432 01057	040	440	54200	52300
83 432 01257	050	440	54200	52400
83 432 01457	050	440	54200	52500
83 432 01657	050	440	54200	52600
83 432 01857	050	440	54200	52700
83 432 02057	050	440	54200	52800
83 432 02557	050	440	54200	52900
83 432 03257	050	440	54200	53000
83 432 00655	040	439	54100	52100
83 432 00855	040	439	54100	52200
83 432 01055	040	440	54100	52300
83 432 01255	050	440	54100	52400
83 432 01455	050	440	54100	52500
83 432 01655	050	440	54100	52600
83 432 01855	050	440	54100	52700
83 432 02055	050	440	54100	52800
83 432 02555	050	440	54100	52900
83 432 03255	050	440	54100	53000

Accessories

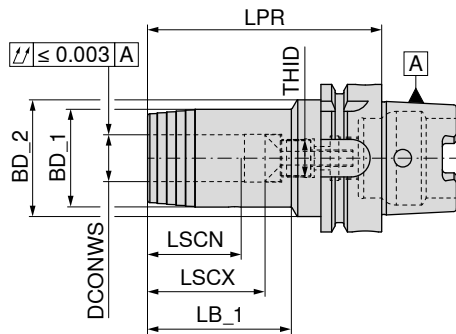
	
Coolant transfer pipe	Others
→	→

CoreLine – 2-channel MMS hydraulic chuck – Fit

- ▲ 2-channel MMS hydraulic chuck, short
- ▲ MMS = minimum quantity lubrication
- ▲ For automatic tool changing

Scope of supply:

Base body including length adjustment screw and coolant transfer unit



G 2,5 n_{max} 25000

	Adapter	DCONWS	LPR	BD_1	BD_2	LB_1	LSCX	LSCN	THID	CT 83 433 ...
		mm	mm	mm	mm	mm	mm	mm		
short	HSK-A 63	6	80	26	45	37,0	36	26	M10x1	00657 ¹⁾
	HSK-A 63	8	80	28	45	37,5	36	26	M10x1	00857 ¹⁾
	HSK-A 63	10	85	30	45	43,5	40	30	M10x1	01057 ¹⁾
	HSK-A 63	12	90	32	45	49,0	45	35	M10x1	01257 ¹⁾
	HSK-A 63	14	90	34	45	49,5	45	35	M10x1	01457 ¹⁾
	HSK-A 63	16	95	38	45	55,5	48	38	M12x1	01657 ¹⁾
	HSK-A 63	18	95	40	45	56,0	48	38	M12x1	01857 ¹⁾
	HSK-A 63	20	100	42	50	60,5	50	40	M16x1	02057 ¹⁾
	HSK-A 63	25	115	57		89,0	56	46	M16x1	02557 ¹⁾
	HSK-A 63	32	120	63		94,0	60	50	M16x1	03257 ¹⁾
	HSK-A 100	6	85	26	45	36,5	36	26	M10x1	00655 ¹⁾
	HSK-A 100	8	85	28	45	37,0	36	26	M10x1	00855 ¹⁾
	HSK-A 100	10	90	30	45	43,0	40	30	M10x1	01055 ¹⁾
	HSK-A 100	12	95	32	45	48,5	45	35	M10x1	01255 ¹⁾
	HSK-A 100	14	95	34	45	49,0	45	35	M10x1	01455 ¹⁾
	HSK-A 100	16	100	38	45	55,0	48	38	M12x1	01655 ¹⁾
	HSK-A 100	18	100	40	45	55,5	48	38	M12x1	01855 ¹⁾
	HSK-A 100	20	105	42	50	60,0	50	40	M16x1	02055 ¹⁾
	HSK-A 100	25	115	57		86,0	56	46	M16x1	02555 ¹⁾
	HSK-A 100	32	120	63		91,0	60	50	M16x1	03255 ¹⁾

1) Not ex-stock



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.	 Clamping key – T		 Pressure screw		 2-channel MMS coolant insert		 2-channel MMS adjustment screw	
	AS		CT		CT		CT	
	80 397 ...		83 950 ...		83 950 ...		83 950 ...	
83 433 00657	020		439		54600		53100	
83 433 00857	020		439		54600		53200	
83 433 01057	020		440		54600		53300	
83 433 01257	030		440		54700		53400	
83 433 01457	030		440		54700		53500	
83 433 01657	030		440		54700		53600	
83 433 01857	030		440		54700		53700	
83 433 02057	040		440		54800		53800	
83 433 02557	040		440		54800		53900	
83 433 03257	040		440		54800		54000	
83 433 00655	020		439		54300		53100	
83 433 00855	020		439		54300		53200	
83 433 01055	020		440		54300		53300	
83 433 01255	030		440		54400		53400	
83 433 01455	030		440		54400		53500	
83 433 01655	030		440		54400		53600	
83 433 01855	030		440		54400		53700	
83 433 02055	040		440		54500		53800	
83 433 02555	040		440		54500		53900	
83 433 03255	040		440		54500		54000	

Accessories


Coolant transfer pipe
→

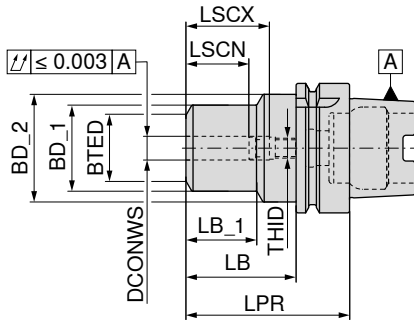

Others
→

CoreLine – Hydraulic chuck – 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

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

CT

83 430 ...

01257

02057

01255

02055



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts

DCONWS

12 - 20

SW5

AS

80 397 ...

050

M10x1x10

CT

83 950 ...

158

M8x1x13,5 - SW3

CT

83 950 ...

420

Accessories



Reduction sleeve

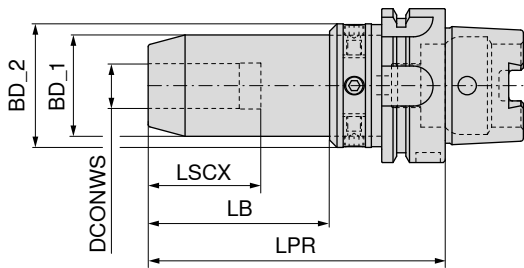
Coolant transfer pipe

Others

HyPower – Compensation holder – DAH

- ▲ Tried and tested hydraulic expansion clamping technology
- ▲ Maximum run-out and repeatability precision < 1 µ 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)

DAH



AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB mm	LSCX mm	LPR mm	OAL mm
HSK-A 63	20	41,0	50,0	63,1	52,5	110	142
HSK-A 63	25	50,5	60,5	72,1	57,0	135	167

CT
84 326 ...
02057
02557



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Accessories



Reduction sleeve

→



Coolant transfer pipe

→



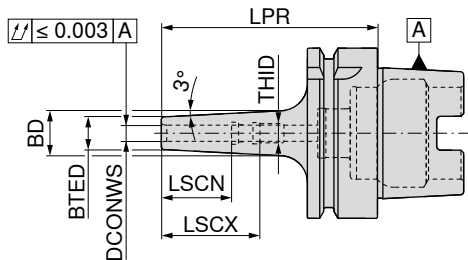
Others

→

CoreLine – Shrink adapter, slim 3° – TG

- ▲ 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

CT

84 324 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

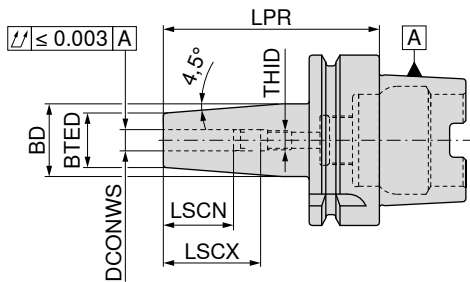
3 - 5	
6	
8	
10	
12 - 14	
16 - 18	
20	

	
Stop screw IK	Stop screw IK
CT	CT
83 950 ...	83 950 ...
417	418
	419
	420
	421
	422
	424

CoreLine – Shrink fit adapters 4.5° – TG

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

TG

G 2,5 n_{max} 25000

		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	HSK-A 63	3	80	10	15	22	12	M6		84 304 ...	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
medium length	HSK-A 63	32	120	44	53	62	52	M16x1			132
	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

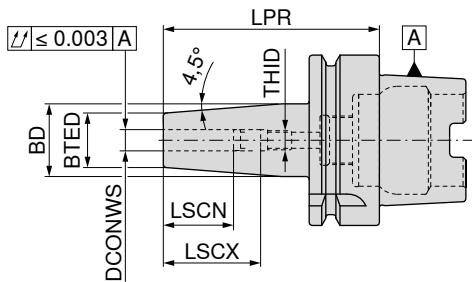


→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

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

TG

G 2,5 n_{max} 25000

		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
extra-long	HSK-A 63	3	160	10	20	12	12			84 304 ...	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
extra long	HSK-A 63	25	160	44	53	62	52	M16x1			325
	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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	
6	
8	
10	
12 - 14	
16 - 18	
20 - 32	

	
Stop screw IK	Stop screw IK
CT	CT
83 950 ...	83 950 ...
417	418
	419
	420
	421
	422
	423

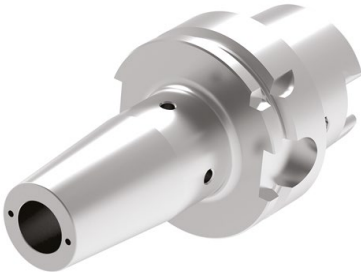
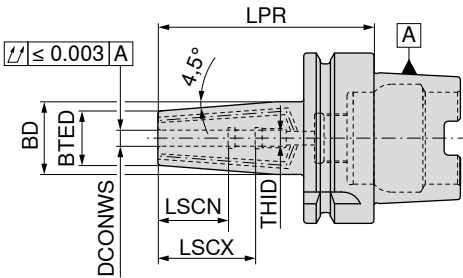
Accessories

	
Shrink fit extension	Others
→	→

CoreLine – Shrink fit adapters 4.5° – TG

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

TG



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

LSCX = maximum insertion depth
LSCN = minimum insertion depth

→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5
6
8
10
12 - 14
16 - 18
20 - 32

		
Stop screw IK	Stop screw IK	Sealing screw
CT	CT	CT
83 950 ...	83 950 ...	83 950 ...
417		512
	418	512
	419	512
	420	512
	421	512
510		512
511		512

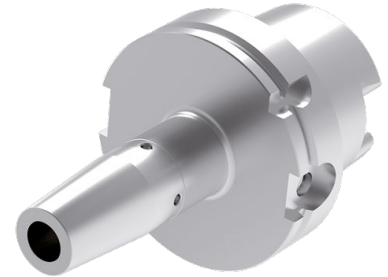
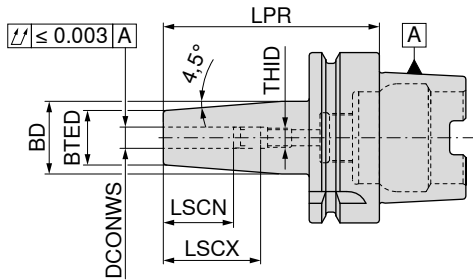
Accessories

		
Shrink fit extension	Coolant transfer pipe	Others
→	→	→

CoreLine – Shrink fit adapters 4.5° – TG

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

TG

G 2,5 n_{max} 25000

		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		
short	HSK-A 100	6	85	21	27	36	26	M5		CT	84 305 ...
	HSK-A 100	8	85	21	27	36	26	M6			106
	HSK-A 100	10	90	24	32	41	31	M8x1			108
	HSK-A 100	12	95	24	32	47	37	M10x1			110
	HSK-A 100	14	95	27	34	47	37	M10x1			112
	HSK-A 100	16	100	27	34	50	40	M12x1			114
	HSK-A 100	18	100	33	42	50	40	M12x1			116
	HSK-A 100	20	105	33	42	52	42	M16x1			118
	HSK-A 100	25	115	44	53	58	48	M16x1			120
medium length	HSK-A 100	32	120	44	53	62	52	M16x1			125
	HSK-A 100	6	120	21	27	36	26	M5			132
	HSK-A 100	8	120	21	27	36	26	M6			206
	HSK-A 100	10	120	24	32	41	31	M8x1			208
	HSK-A 100	12	120	24	32	47	37	M10x1			210
	HSK-A 100	14	120	27	34	47	37	M10x1			212
	HSK-A 100	16	120	27	34	50	40	M12x1			214
	HSK-A 100	18	120	33	42	50	40	M12x1			216
	HSK-A 100	20	120	33	42	52	42	M16x1			218
extra-long	HSK-A 100	25	120	44	53	58	48	M16x1			220
	HSK-A 100	6	160	21	27	36	26	M5			225
	HSK-A 100	8	160	21	27	36	26	M6			306
	HSK-A 100	10	160	24	32	41	31	M8x1			308
	HSK-A 100	12	160	24	32	47	37	M10x1			310
	HSK-A 100	14	160	27	34	47	37	M10x1			312
	HSK-A 100	16	160	27	34	50	40	M12x1			314
	HSK-A 100	18	160	33	42	50	40	M12x1			316
	HSK-A 100	20	160	33	42	52	42	M16x1			318
	HSK-A 100	25	160	44	53	58	48	M16x1			320
	HSK-A 100	32	160	44	53	62	52	M16x1			325
											332



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.



Stop screw IK

CT

83 950 ...

Spare parts
DCONWS

6	418
8	419
10	420
12 - 14	421
16 - 18	422
20 - 32	424

Accessories



Shrink fit extension



Coolant transfer pipe



Others

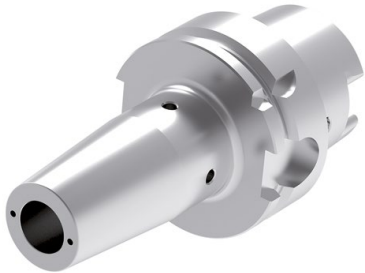
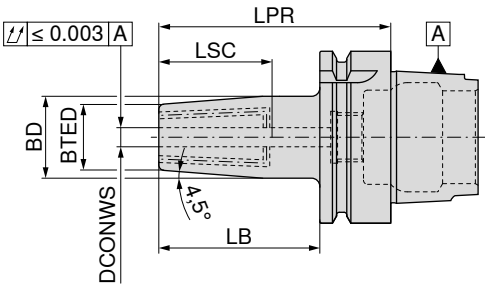


CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

		Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm		
short		HSK-A 63	6	80	21	26	54	36,5	CT	84 717 ...
		HSK-A 63	8	80	21	26	54	36,5		606
		HSK-A 63	10	85	24	30	59	41,5		608
		HSK-A 63	12	90	24	30	64	46,5		610
		HSK-A 63	14	90	27	34	64	46,5		612
		HSK-A 63	16	95	27	34	69	49,5		614
		HSK-A 63	18	95	33	41	69	49,5		616
		HSK-A 63	20	100	33	41	74	51,5		618
		HSK-A 63	25	115	44	52	89	57,5		620
		HSK-A 63	32	120	44	52	94	61,5		625
										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

Sealing screw for closing of two additional coolant holes.

→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

6	
8	
10	
12 - 18	
20 - 32	

	
Stop screw IK	Sealing screw
CT	CT
62 950 ...	62 950 ...
402	411
403	411
404	411
405	411
406	412

Accessories

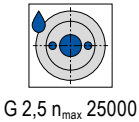
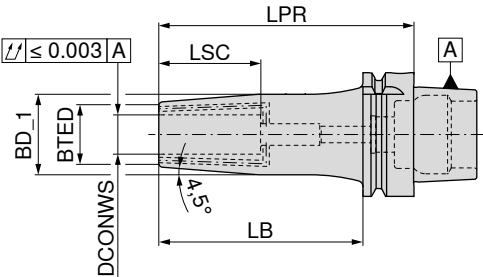
		
Shrink fit extension	Coolant transfer pipe	Others
→	→	→

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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



	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	
long	HSK-A 63	6	130	21	27	104	36,5	84 720 ... CT G 2,5 n _{max} 25000
	HSK-A 63	8	130	21	27	104	36,5	
	HSK-A 63	10	130	24	32	104	41,5	
	HSK-A 63	12	130	24	32	104	46,5	
	HSK-A 63	14	130	27	34	104	46,5	
	HSK-A 63	16	130	27	34	104	49,5	
	HSK-A 63	18	130	33	41	104	49,5	
	HSK-A 63	20	130	33	41	104	51,5	
	HSK-A 100	6	130	21	27	101	36,5	
	HSK-A 100	8	130	21	27	101	36,5	
	HSK-A 100	10	130	24	32	101	41,5	
	HSK-A 100	12	130	24	32	101	46,5	
	HSK-A 100	14	130	27	34	101	46,5	
	HSK-A 100	16	130	27	34	101	49,5	
	HSK-A 100	18	130	33	41	101	49,5	
	HSK-A 100	20	130	33	41	101	51,5	



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.



Stop screw IK

CT

62 950 ...

Spare parts
DCONWS

6	402
8	403
10	404
12	405
14	405
16	405
18	405
20	406

Accessories

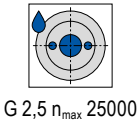
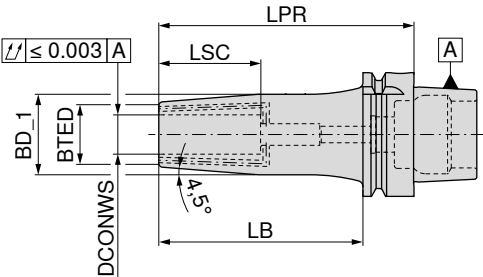
		
Shrink fit extension	Coolant transfer pipe	Others
→	→	→

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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



		Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm		
extra-long	HSK-A 63	6	160	21	27	134	36,5		CT	84 723 ...
	HSK-A 63	8	160	21	27	134	36,5			606
	HSK-A 63	10	160	24	32	134	41,5			608
	HSK-A 63	12	160	24	32	134	46,5			610
	HSK-A 63	14	160	27	34	134	46,5			612
	HSK-A 63	16	160	27	34	134	49,5			614
	HSK-A 63	18	160	33	41	134	49,5			616
	HSK-A 63	20	160	33	41	134	51,5			618
	HSK-A 63	25	160	44	52	134	57,5			620
										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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

				
			Stop screw IK	Sealing screw
			CT	CT
Spare parts			62 950 ...	62 950 ...
DCONWS				
6	M5x0,8x14	402	M3x6	411
8	M6x1x16	403	M3x6	411
10	M8x1x20	404	M3x6	411
12	M10x1x20	405	M3x6	411
14	M10x1x20	405	M3x6	411
16	M10x1x20	405	M3x6	411
18	M10x1x20	405	M3x6	411
20	M12x1x20	406	M3x6	411
25	M12x1x20	406	M4x8	412
32	M12x1x20	406	M4x8	412

Accessories



Shrink fit extension

→



Coolant transfer pipe

→



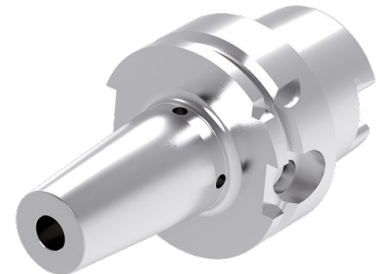
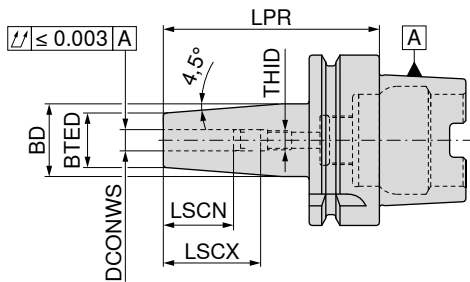
Others

→

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

CX

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
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
medium length	HSK-A 63	25	115	44	53	58	48	M16x1	12557
	HSK-A 63	32	120	44	53	62	52	M16x1	13257
	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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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

CX

82 310 ...

30357

30457

30557

30657

30857

31057

31257

31457

31657

31857

32057

32557

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
extra-long	HSK-A 63	3	160	10	20	12	12
	HSK-A 63	4	160	15	22	16	16
	HSK-A 63	5	160	15	22	20	20
	HSK-A 63	6	160	21	27	36	26 M5
	HSK-A 63	8	160	21	27	36	26 M6
	HSK-A 63	10	160	24	32	41	31 M8x1
	HSK-A 63	12	160	24	32	47	37 M10x1
	HSK-A 63	14	160	27	34	47	37 M10x1
	HSK-A 63	16	160	27	34	50	40 M12x1
	HSK-A 63	18	160	33	42	50	40 M12x1
HSK-A 63	20	160	33	42	52	42 M16x1	
HSK-A 63	25	160	44	53	62	52 M16x1	

→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

3 - 5	M6x16 - SW3	30100
6	M5x16 - SW2,5	30000
8	M6x16 - SW3	30100
10	M8x1x16 - SW4	30200
12 - 14	M10x1x14 - SW5	30300
16 - 18	M12x1x16 - SW6	30400
20 - 32	M16x1x16 - SW8	30500



Stop screw IK

CX

82 950 ...

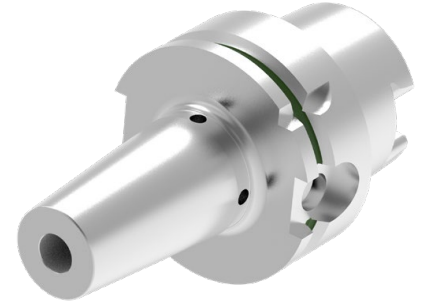
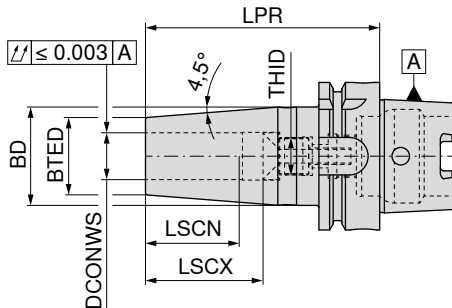
CoreLine – 1-channel MMS heat shrink adapter 4.5° – TG

- ▲ For automatic tool changing
- ▲ MMS = minimum quantity lubrication
- ▲ For solid carbide and HSS shanks with h6 tolerance or higher

Scope of supply:

Base body including length adjustment screw and coolant transfer unit

TG



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
HSK-A 63	6	80	21	27	36	26	M10x1
HSK-A 63	8	80	21	27	36	26	M10x1
HSK-A 63	10	85	24	32	40	30	M10x1
HSK-A 63	12	90	24	32	45	35	M10x1
HSK-A 63	14	90	27	34	45	35	M10x1
HSK-A 63	16	95	27	34	48	38	M12x1
HSK-A 63	18	95	33	42	48	38	M12x1
HSK-A 63	20	100	33	42	50	40	M16x1
HSK-A 63	25	115	44	53	56	46	M16x1
HSK-A 63	32	120	44	53	60	50	M16x1
HSK-A 100	6	85	21	27	36	26	M10x1
HSK-A 100	8	85	21	27	36	26	M10x1
HSK-A 100	10	90	24	32	40	30	M10x1
HSK-A 100	12	95	24	32	45	35	M10x1
HSK-A 100	14	95	27	34	45	35	M10x1
HSK-A 100	16	100	27	34	48	38	M12x1
HSK-A 100	18	100	33	42	48	38	M12x1
HSK-A 100	20	105	33	42	50	40	M16x1
HSK-A 100	25	115	44	53	56	46	M16x1
HSK-A 100	32	120	44	53	60	50	M16x1

CT

84 318 ...

00657 ¹⁾
00857 ¹⁾
01057 ¹⁾
01257 ¹⁾
01457 ¹⁾
01657 ¹⁾
01857 ¹⁾
02057 ¹⁾
02557 ¹⁾
03257 ¹⁾

00655 ¹⁾
00855 ¹⁾
01055 ¹⁾
01255 ¹⁾
01455 ¹⁾
01655 ¹⁾
01855 ¹⁾
02055 ¹⁾
02555 ¹⁾
03255 ¹⁾

1) Not ex-stock



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.	 Clamping key – T		 1-channel MMS coolant insert		 1-channel MMS adjustment screw	
	AS		CT		CT	
	80 397 ...		83 950 ...		83 950 ...	
84 318 00657	040		54200		52100	
84 318 00857	040		54200		52200	
84 318 01057	040		54200		52300	
84 318 01257	050		54200		52400	
84 318 01457	050		54200		52500	
84 318 01657	050		54200		52600	
84 318 01857	050		54200		52700	
84 318 02057	050		54200		52800	
84 318 02557	050		54200		52900	
84 318 03257	050		54200		53000	
84 318 00655	040		54100		52100	
84 318 00855	040		54100		52200	
84 318 01055	040		54100		52300	
84 318 01255	050		54100		52400	
84 318 01455	050		54100		52500	
84 318 01655	050		54100		52600	
84 318 01855	050		54100		52700	
84 318 02055	050		54100		52800	
84 318 02555	050		54100		52900	
84 318 03255	050		54100		53000	

Accessories


Coolant transfer pipe
→

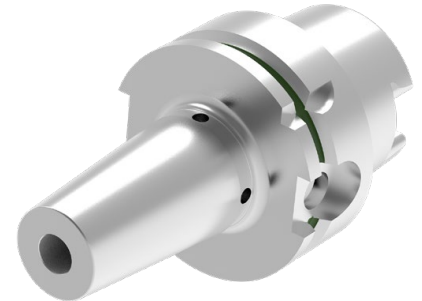
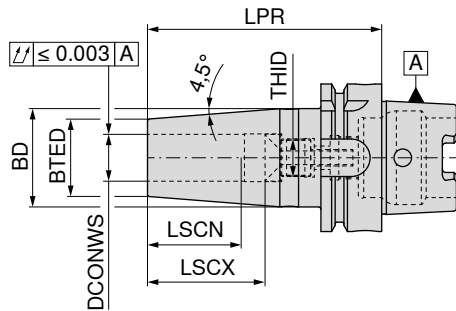

Others
→

CoreLine – 2-channel MMS heat shrink adapter 4.5° – TG

- ▲ For automatic tool changing
- ▲ MMS = minimum quantity lubrication
- ▲ For solid carbide and HSS shanks with h6 tolerance or higher

Scope of supply:

Base body including length adjustment screw and coolant transfer unit



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
HSK-A 63	6	80	21	27	36	26	M10x1
HSK-A 63	8	80	21	27	36	26	M10x1
HSK-A 63	10	85	24	32	40	30	M10x1
HSK-A 63	12	90	24	32	45	35	M10x1
HSK-A 63	14	90	27	34	45	35	M10x1
HSK-A 63	16	95	27	34	48	38	M12x1
HSK-A 63	18	95	33	42	48	38	M12x1
HSK-A 63	20	100	33	42	50	40	M16x1
HSK-A 63	25	115	44	53	56	46	M16x1
HSK-A 63	32	120	44	53	60	50	M16x1
HSK-A 100	6	85	21	27	36	26	M10x1
HSK-A 100	8	85	21	27	36	26	M10x1
HSK-A 100	10	90	24	32	40	30	M10x1
HSK-A 100	12	95	24	32	45	35	M10x1
HSK-A 100	14	95	27	34	45	35	M10x1
HSK-A 100	16	100	27	34	48	38	M12x1
HSK-A 100	18	100	33	42	48	38	M12x1
HSK-A 100	20	105	33	42	50	40	M16x1
HSK-A 100	25	115	44	53	56	46	M16x1
HSK-A 100	32	120	44	53	60	50	M16x1

CT

84 319 ...

00657 ¹⁾
00857 ¹⁾
01057 ¹⁾
01257 ¹⁾
01457 ¹⁾
01657 ¹⁾
01857 ¹⁾
02057 ¹⁾
02557 ¹⁾
03257 ¹⁾

00655 ¹⁾
00855 ¹⁾
01055 ¹⁾
01255 ¹⁾
01455 ¹⁾
01655 ¹⁾
01855 ¹⁾
02055 ¹⁾
02555 ¹⁾
03255 ¹⁾

1) Not ex-stock



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
for Article no.

	 Clamping key – T	 2-channel MMS coolant insert	 2-channel MMS adjustment screw
	AS	CT	CT
	80 397 ...	83 950 ...	83 950 ...
84 319 00657	020	54600	53100
84 319 00857	020	54600	53200
84 319 01057	020	54600	53300
84 319 01257	030	54700	53400
84 319 01457	030	54700	53500
84 319 01657	030	54700	53600
84 319 01857	030	54700	53700
84 319 02057	040	54800	53800
84 319 02557	040	54800	53900
84 319 03257	040	54800	54000
84 319 00655	020	54300	53100
84 319 00855	020	54300	53200
84 319 01055	020	54300	53300
84 319 01255	030	54400	53400
84 319 01455	030	54400	53500
84 319 01655	030	54400	53600
84 319 01855	030	54400	53700
84 319 02055	040	54500	53800
84 319 02555	040	54500	53900
84 319 03255	040	54500	54000

Accessories





Coolant transfer pipe

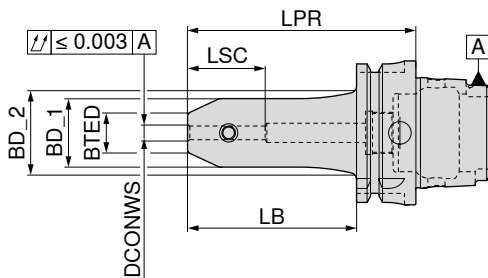
Others

→

→

CoreLine – 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} 25000G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	CX	
								82 740 ...	82 741 ...
short	HSK-A 63	6	65	17	30	39	34	10657	10657
	HSK-A 63	8	65	20	32	39	34	10857	10857
	HSK-A 63	10	65	25	35	39	39	11057	11057
	HSK-A 63	12	80	30	42	54	44	11257	11257
	HSK-A 63	14	80	32	45	54	44	11457	11457
	HSK-A 63	16	80	36	48	54	47	11657	11657
	HSK-A 63	18	80	38	48	54	47	11857	11857
	HSK-A 63	20	80	40	52	54	49	12057	12057
	HSK-A 63	25	110	45	63	84	54	12557 ¹⁾	12557 ¹⁾
	HSK-A 63	32	110	52	72	84	58	13257 ¹⁾	13257 ¹⁾
	HSK-A 63	40	120	60	80	94	68		14057
	HSK-A 63	40	120	60	80	94	68	14057	
	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⁾
medium length	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⁾
	HSK-A 63	6	100	17	30	74	34	20657	20657
	HSK-A 63	8	100	20	32	74	34	20857	20857
	HSK-A 63	10	100	25	35	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

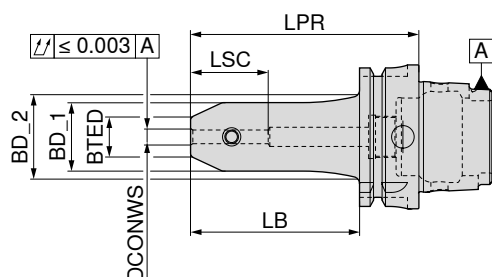
1) Version with two grub screws



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

CoreLine – 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} 25000G 2,5 n_{max} 25000

	Adapter	DCONWS _{H5} mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm		
long	HSK-A 63	6	130	17	30	104	34		
	HSK-A 63	8	130	20	32	104	34		
	HSK-A 63	10	130	25	35	104	39		
	HSK-A 63	12	130	30	42	104	44		
	HSK-A 63	14	130	32	45	104	44		
	HSK-A 63	16	130	36	48	104	47		
	HSK-A 63	18	130	38	48	104	47		
	HSK-A 63	20	130	40	52	104	49		
	HSK-A 63	25	130	45	63	104	54		
	HSK-A 63	32	130	52	72	104	58		
extra-long	HSK-A 63	6	160	17	30	134	34		
	HSK-A 63	8	160	20	32	134	34		
	HSK-A 63	10	160	25	35	134	39		
	HSK-A 63	12	160	30	42	134	44		
	HSK-A 63	14	160	32	45	134	44		
	HSK-A 63	16	160	36	48	134	47		
	HSK-A 63	18	160	38	48	134	47		
	HSK-A 63	20	160	40	52	134	49		
	HSK-A 63	25	160	45	63	134	54		
	HSK-A 100	6	160	17	30	131	34		
	HSK-A 100	8	160	20	32	131	34		
	HSK-A 100	10	160	25	35	131	39		
	HSK-A 100	12	160	30	42	131	44		
	HSK-A 100	14	160	32	45	131	44		
	HSK-A 100	16	160	36	48	131	47		
	HSK-A 100	18	160	38	48	131	47		
	HSK-A 100	20	160	40	52	131	49		
	HSK-A 100	25	160	45	65	131	54		
	HSK-A 100	32	160	52	72	134	58		
									CX
									82 740 ...
									30657
									30857
									31057
									31257
									31457
									31657
									31857
									32057
									32557 ¹⁾
									33257 ¹⁾
									CX
									82 741 ...
									40657
									40857
									41057
									41257
									41457
									41657
									41857
									42057
									42557 ¹⁾
									40655
									40855
									41055
									41255
									41455
									41655
									41855
									42055
									42555 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.

Spare parts
DCONWS_{HS}

6
8
10
12 - 14
16 - 18
20
25
32 - 40



Grubscrew

CT

62 950 ...

006
008
010
012
016
020
025
032

Accessories



Coolant transfer pipe

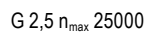
→



Others

→

- ▲ For shanks according to DIN 6535 HB/1835 B with lateral clamping flat
- ▲ With eroded coolant channels
- ▲ Also available with Balluff chip **on request**



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	BTED mm	LB mm	LSC mm		82 404 ...
short	HSK-A 63	6	65	25	15	39	37		10657
	HSK-A 63	8	65	28	20	39	37		10857
	HSK-A 63	10	65	35	25	39	41		11057
	HSK-A 63	12	80	42	30	54	46		11257
	HSK-A 63	14	80	44	32	54	46		11457
	HSK-A 63	16	80	48	36	54	49		11657
	HSK-A 63	18	80	50	38	54	49		11857
	HSK-A 63	20	80	52	40	54	51		12057
	HSK-A 63	25	110	65	45	84	57		12557
	HSK-A 63	32	110	72	52	84	61		13257
	HSK-A 63	40	125	80	60	99	73		14057
	HSK-A 100	6	80	25	15	51	37		10655
	HSK-A 100	8	80	28	20	51	37		10855
	HSK-A 100	10	80	35	25	51	41		11055
	HSK-A 100	12	80	42	30	51	46		11255
	HSK-A 100	14	80	44	32	51	46		11455
	HSK-A 100	16	100	48	36	71	49		11655
	HSK-A 100	18	100	50	38	71	49		11855
	HSK-A 100	20	100	52	40	71	51		12055
HSK-A 100	25	100	65	45	71	57		12555	
HSK-A 100	32	100	72	52	71	61		13255	
HSK-A 100	40	110	80	60	81	73		14055	



CT

Spare parts
DCONWS_{H4}

62 950 ...

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

Accessories



Coolant transfer pipe

→

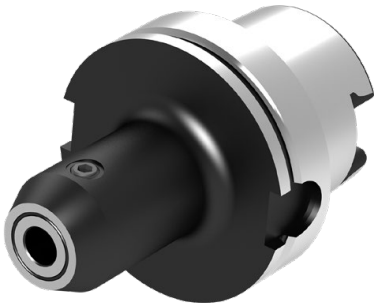
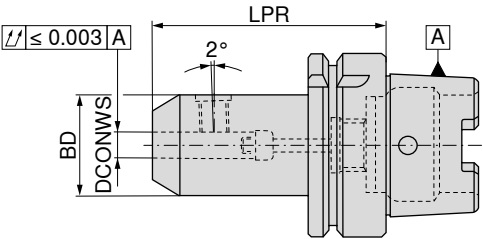


Others

→

CoreLine – 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

	Adapter	DCONWS	LPR	BD	
		H4 mm			
short	HSK-A 63	6	80	25	
	HSK-A 63	8	80	28	
	HSK-A 63	10	80	35	
	HSK-A 63	12	90	42	
	HSK-A 63	14	90	44	
	HSK-A 63	16	100	48	
	HSK-A 63	18	100	50	
	HSK-A 63	20	100	52	
	HSK-A 63	25	110	65	
	HSK-A 63	32	110	72	
	HSK-A 100	6	90	25	
	HSK-A 100	8	90	28	
	HSK-A 100	10	90	35	
	HSK-A 100	12	100	42	
	HSK-A 100	14	100	44	
	HSK-A 100	16	100	48	
	HSK-A 100	18	100	50	
	HSK-A 100	20	110	52	
	HSK-A 100	25	120	65	
	HSK-A 100	32	120	72	
	HSK-A 100	40	120	80	
					CX
					82 742 ...
					10657
					10857
					11057
					11257
					11457
					11657
					11857
					12057
					12557 ¹⁾
					13257 ¹⁾
					10655
					10855
					11055
					11255
					11455
					11655
					11855
					12055
					12555 ¹⁾
					13255 ¹⁾
					14055 ¹⁾

1) Version with two grub screws



CT

Spare parts
DCONWS_{H4}

62 950 ...

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

Accessories



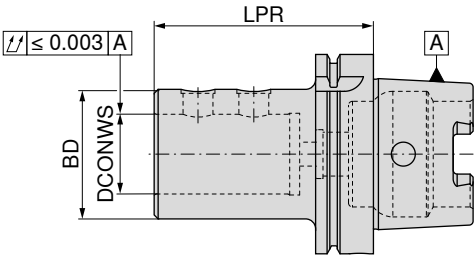
Coolant transfer pipe

Others



CoreLine – Indexable insert drill adapter

▲ also available with Balluff chip on request



G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	BD mm
HSK-A 63	20	80	40
HSK-A 63	25	90	45
HSK-A 63	32	90	52
HSK-A 63	40	110	65
HSK-A 100	20	90	40
HSK-A 100	25	100	45
HSK-A 100	32	100	52
HSK-A 100	40	110	65
HSK-A 100	50	120	75

CX
10 842 ...
320
325
332
340
420
425
432
440
450

Spare parts

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



Grubscrew

CX
10 950 ...
001
002
003

Accessories



Coolant transfer pipe

→



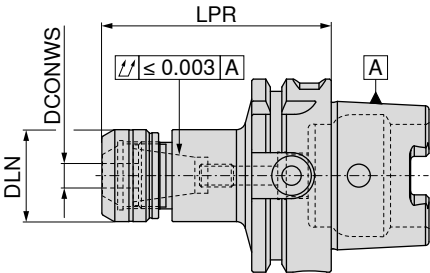
Others

→

CoreLine – 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
- ▲ $p_{max} = 100 \text{ bar}$
- ▲ also available with Balluff chip **on request**

Scope of supply:
Base body with lock nut and backstop screw



G 2,5 n_{max} 25000

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
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250

CX
82 700 ...
11057
21057
11657
21657
12057
22057
21655
41655
22055
42055



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

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

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

Accessories

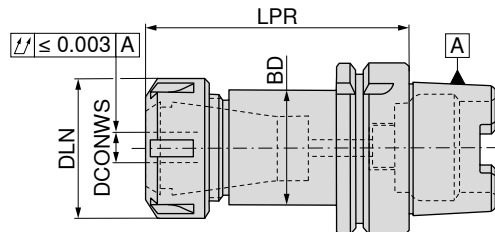
		
ER collet	Sealing ring	Roll key
→	→	→

CoreLine – ER Collet chuck

▲ also available with Balluff chip on request

Scope of supply:

Toolholder including nut



G 2,5 n_{max} 25000

	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)	82 743 ...
	HSK-A 63	1 - 10	100	32	8 - 56	426E (ER16)	21157
	HSK-A 63	1 - 16	100	42	24 - 104	430E (ER25)	21057
	HSK-A 63	2 - 20	100	50	24 - 136	470E (ER32)	21657
	HSK-A 63	3 - 26	100	63	176	472E (ER40)	22057
long	HSK-A 100	1 - 10	100	32	8 - 56	426E (ER16)	22657
	HSK-A 100	1 - 16	100	42	24 - 104	430E (ER25)	21055
	HSK-A 100	2 - 20	100	50	24 - 136	470E (ER32)	21655
	HSK-A 100	3 - 26	100	63	176	472E (ER40)	22055
extra-long	HSK-A 63	1 - 10	160	22	8 - 56	426E (ER16 mini)	22655
	HSK-A 63	1 - 10	160	32	8 - 56	426E (ER16)	41157
	HSK-A 63	1 - 16	160	42	24 - 104	430E (ER25)	41057
	HSK-A 63	2 - 20	160	50	24 - 136	470E (ER32)	41657
	HSK-A 63	3 - 26	160	63	176	472E (ER40)	42057
	HSK-A 100	1 - 10	160	32	8 - 56	426E (ER16)	42657
	HSK-A 100	1 - 16	160	42	24 - 104	430E (ER25)	41055
	HSK-A 100	2 - 20	160	50	24 - 136	470E (ER32)	41655
	HSK-A 100	3 - 26	160	63	176	472E (ER40)	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)	51055
	HSK-A 100	1 - 16	200	42	24 - 104	430E (ER25)	51655
	HSK-A 100	2 - 20	200	50	24 - 136	470E (ER32)	52055
	HSK-A 100	3 - 26	200	63	176	472E (ER40)	52655



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

							
	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK
	CT	CT	CX	CT	CT	CT	CX
Spare parts for collet	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	82 950 ...
426E (ER16 mini)				101	066	058	30000
426E (ER16)	054	054	116				
430E (ER25)	055	055	125				
470E (ER32)	056	65600	132				
472E (ER40)	057	65700	140				

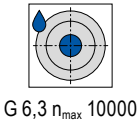
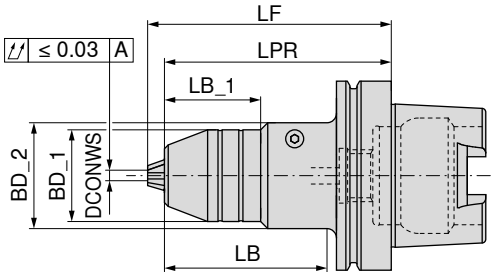
Accessories

		
ER collet	Coolant transfer pipe	Others
→	→	→

CoreLine – 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



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

CX
84 716 ...
613
616
113
116

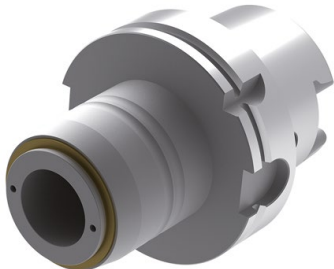
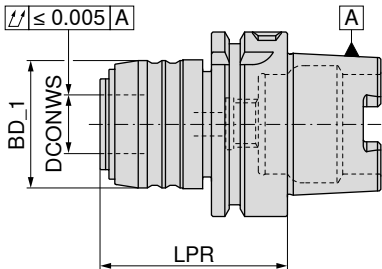
Can be used with G 2.5 to 30,000 1/min by subsequent balancing!

Accessories

Others

CoreLine – Synchro tapping chuck with minimum length compensation

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



Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm	CT 83 724 ... 612 620 112 120
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	

Accessories



Coolant transfer pipe

→



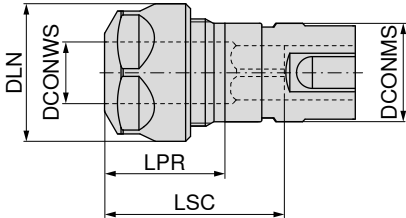
Others

→

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:
Includes lock nut



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

1) with 6 position lock nut

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



Lock nut

CT

62 950 ...



Lock nut IK

CT

83 950 ...



Lock nut

CT

62 950 ...



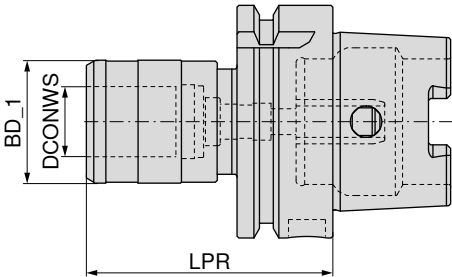
Y clamping key

CX

83 357 ...

CoreLine – Quick change tap chuck with length compensation

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



Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm
HSK-A 63	01	72	41	19	7,5
HSK-A 63	02	110	60	31	10
HSK-A 100	01	80	41	19	7,5
HSK-A 100	02	100	60	31	10

CT
83 712 ...
612
620
112
120

Accessories



Collet



Coolant transfer pipe



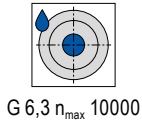
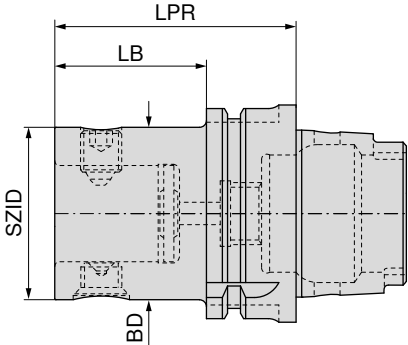
Others



HyPower – Adapter – ABS

▲ also available with Balluff chip on request

ABS



G 6,3 n_{max} 10000

Adapter	SZID	BD mm	LPR mm	LB mm
HSK-A 50	ABS 50	50	70	
HSK-A 63	ABS 25	25	50	24
HSK-A 63	ABS 32	32	50	24
HSK-A 63	ABS 40	40	60	34
HSK-A 63	ABS 50	50	42	
HSK-A 63	ABS 50	50	70	44
HSK-A 63	ABS 63	63	80	54
HSK-A 63	ABS 80	80	100	74
HSK-A 100	ABS 100	100	100	71
HSK-A 100	ABS 25	25	60	31
HSK-A 100	ABS 32	32	60	31
HSK-A 100	ABS 40	40	80	51
HSK-A 100	ABS 50	50	80	51
HSK-A 100	ABS 63	63	80	51
HSK-A 100	ABS 80	80	90	61

CT
84 200 ...
05058
06390
06389
06388
05057 ¹⁾
06397
06396
06392
10091
10090
10089
10088
10097
10096
10092

1) Only suitable for fine machining

						
		Clamping screw	Clamping screw	Set	Taper screw	Sealing disc - ABS
		CT	CT	CT	CT	CT
Spare parts for Article no.		62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
84 200 05058			20300	99800	20400	30700
84 200 06390			26800	99700	27000	
84 200 06389	M8x1x12/SW4	13989		99600	27100	
84 200 06388			26900	99500	27200	
84 200 05057			20300	99800	20400	30700
84 200 06397			20300	99800	20400	
84 200 06396			25500	99400	27300	
84 200 06392			25600	99300	25100	
84 200 10091			25700	99200	25200	
84 200 10090			26800	99700	27000	
84 200 10089	M8x1x12/SW4	13989		99600	27100	
84 200 10088			26900	99500	27200	
84 200 10097			20300	99800	20400	
84 200 10096			25500	99400	27300	
84 200 10092			25600	99300	25100	

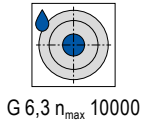
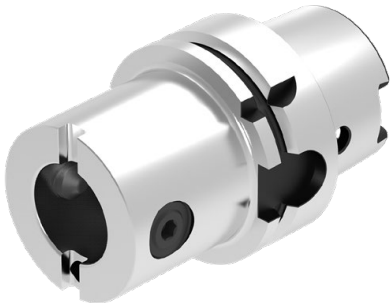
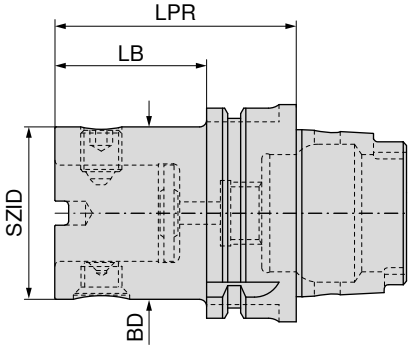
Accessories

		
Coolant transfer pipe	Extension	Others
→	→	→

HyPower – Adapter – ABS N

▲ also available with Balluff chip on request

ABS N



Adapter	SZID	BD mm	LPR mm	LB mm
HSK-A 63	ABS 50 N	50	70	44
HSK-A 100	ABS 50 N	50	80	51
HSK-A 100	ABS 63 N	63	80	51
HSK-A 100	ABS 80 N	80	90	61

CT
84 200 ...
25057
25055
26355
28055

for Article no.

84 200 25057	20300	99800	31800	20200	20400	30700
84 200 25055	20300	99800	31800	20200	20400	30700
84 200 26355	25500	99400	31900	23900	27300	30800
84 200 28055	25600	99300	32000	24000	25100	30900

 Clamping screw	 Set	 Positioning pin	 Positioning pin	 Taper screw	 Sealing disc - ABS
CT	CT	CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...

Accessories



Coolant transfer pipe



HyPower – Eccentric adjuster – ABS

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

Scope of supply:
Eccentric adjuster with adjuster key Ø 2.8 mm

ABS

Adapter	SZID	BD mm	LPR mm	LB mm
HSK-A 63	ABS 50	50	70,0	39,5
HSK-A 100	ABS 50	50	75,5	46,5
HSK-A 100	ABS 63	63	80,0	51,0

CT

84 203 ...

06397

10097

10096

Spare parts
SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300

 Clamping screw	 Set	 Taper screw
CT	CT	CT
84 950 ...	84 950 ...	84 950 ...
20300	99800	20400
25500	99400	27300

Accessories


Coolant transfer pipe
→

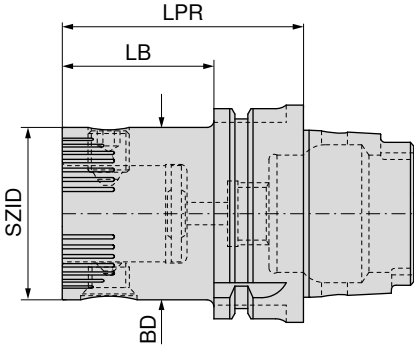

Extension
→

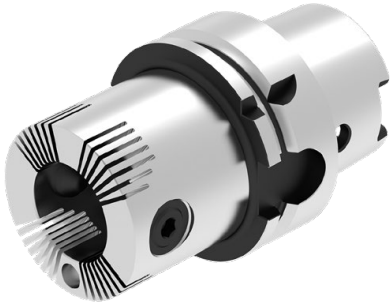

Others
→

HyPower – Torsional vibration dampers – ABS

▲ also available with Balluff chip on request

ABS







Adapter	SZID	BD mm	LPR mm	LB mm
HSK-A 63	ABS 50	50	70	44
HSK-A 63	ABS 63	63	80	54
HSK-A 63	ABS 80	80	100	74
HSK-A 100	ABS 50	50	80	51
HSK-A 100	ABS 63	63	80	51
HSK-A 100	ABS 80	80	90	61

CT

84 206 ...

06397

06396

06392

10097

10096

10092



Clamping screw

CT

84 950 ...

20300

25500

25600



Set

CT

84 950 ...

99800

99400

99300



Taper screw

CT

84 950 ...

20400

27300

25100

Spare parts

SZID

ABS 50

ABS 63

ABS 80

Accessories



Coolant transfer pipe

→



Extension

→



Others

→

HyPower – Compensation holder – DAH

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

Scope of supply:
DAH compensation holder complete with assembly screws

DAH

Adapter	SZID	DCONWS mm	LSC mm	LPR mm	LF mm
HSK-A 63	DAH 63	50	12	78	66
HSK-A 63	DAH 81	65	12	78	66
HSK-A 80	DAH 81	65	12	88	76
HSK-A 100	DAH 81	65	12	88	76
HSK-A 100	DAH 115	100	16	95	79

CT

84 329 ...

06357

08157

08156

08155

11555

			
	Grub screw	Spring washer	DAH adjustment ring
	CT	CT	CT
SZID	84 950 ...	84 950 ...	84 950 ...
DAH 63	M6x8 42700	Ø5,3 - M5 42300	DAH 63 42200
DAH 81	M6x10 42800	Ø5,3 - M5 42300	DAH 81 42000
DAH 115	M8x10 43000	Ø8,4 - M8 42400	DAH 115 42100
			
		Cylindrical screw TwinKom	Clamping screw
		CT	AS
SZID		84 950 ...	62 950 ...
DAH 63		M5x22 42500	M8x6 - SW4 53400
DAH 81		M5x22 42500	M8x6 - SW4 53400
DAH 115		M8X30 42600	M8x8 - SW4 14700

Accessories



Coolant transfer pipe



Others

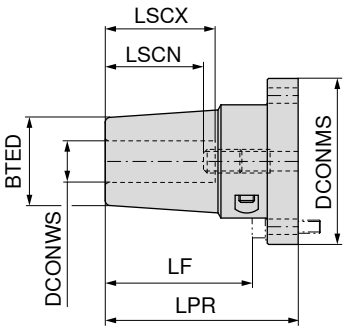




HyPower – Adapter – DAH

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

DAH



AD

Adapter	DCONWS mm	DCONMS mm	BD mm	BTED mm	LB mm	LF mm	LPR mm	LSCN mm	LSCX mm
DAH 63	12	49,5	27	21,0	45	52	70	35	45
DAH 81	12	64,5	32	24,0	45	52	70	35	45
DAH 81	16	64,5	44	34,0	45	57	75	39	49
DAH 81	20	64,5	40	37,0	50	57	75	41	51
DAH 81	25	64,5	50	46,5	52		110	46	56
DAH 81	32	64,5	60	56,5	59		115	51	61

CT

84 327 ...
12600
12800
16800
20800
25800
32800

Accessories

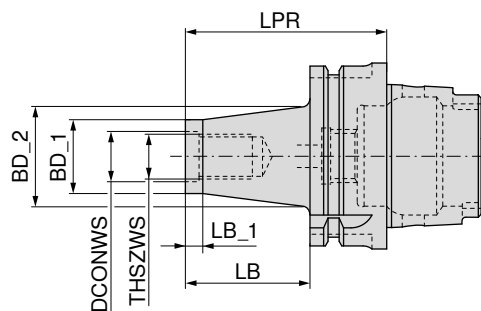


Reduction sleeve



CoreLine – Adapter for milling cutters with threaded end – Conical

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

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
HSK-A 63	M8	8,5	50	13,8	23	12	76
HSK-A 63	M8	8,5	75	13,8	25	12	101
HSK-A 63	M8	8,5	100	13,8	30	12	126
HSK-A 63	M10	10,5	25	18,0	23	12	51
HSK-A 63	M10	10,5	50	18,0	25	12	76
HSK-A 63	M10	10,5	75	18,0	30	12	101
HSK-A 63	M10	10,5	100	18,0	35	12	126
HSK-A 63	M12	12,5	25	21,0	24	12	51
HSK-A 63	M12	12,5	50	21,0	30	12	76
HSK-A 63	M12	12,5	75	21,0	35	12	101
HSK-A 63	M12	12,5	100	21,0	38	12	126
HSK-A 63	M12	12,5	125	21,0	43	12	151
HSK-A 63	M12	12,5	150	21,0	45	12	176
HSK-A 63	M16	17,0	25	29,0	29	12	51
HSK-A 63	M16	17,0	50	29,0	34	12	76
HSK-A 63	M16	17,0	75	29,0	35	12	101
HSK-A 63	M16	17,0	100	29,0	40	12	126
HSK-A 63	M16	17,0	125	29,0	44	12	151
HSK-A 63	M16	17,0	150	29,0	48	12	176

CX

82 749 ...

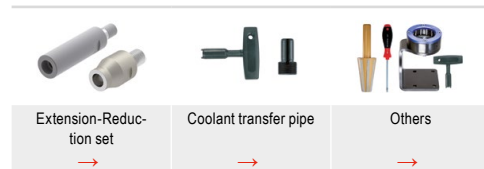
08157
08257
08357
08457

10157
10257
10357
10457

12157
12257
12357
12457
12557
12657

16157
16257
16357
16457
16557
16657

Accessories



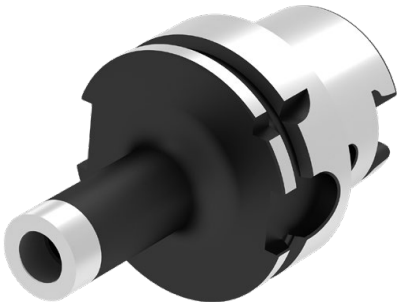
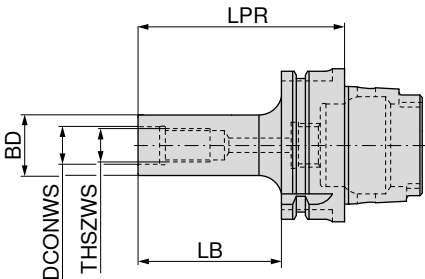
Extension-Reduction set
→

Coolant transfer pipe
→

Others
→

CoreLine – Adapter for milling cutters with threaded end – cylindrical

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

Adapter	THSZWS	DCONWS	BD	LB	LPR
		mm	mm	mm	mm
HSK-A 63	M8	8,5	13,8	50	76
HSK-A 63	M10	10,5	18,0	50	76
HSK-A 63	M10	10,5	18,0	75	101
HSK-A 63	M10	10,5	18,0	100	126
HSK-A 63	M12	12,5	21,0	50	76
HSK-A 63	M12	12,5	21,0	75	101
HSK-A 63	M12	12,5	21,0	100	126
HSK-A 63	M16	17,0	29,0	50	76
HSK-A 63	M16	17,0	29,0	75	101
HSK-A 63	M16	17,0	29,0	100	126

CX
82 750 ...
08257
10257
10357
10457
12257
12357
12457
16257
16357
16457

Accessories



Extension-Reduction set

→



Coolant transfer pipe

→



Others

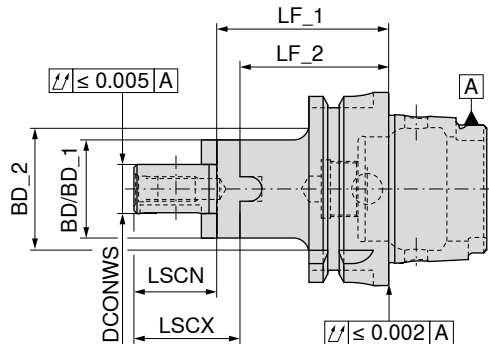
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CoreLine – Combination shell mill adapter

- ▲ 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

	Adapter	DCONWS mm	LF_1 mm	LF_2 mm	BD mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	BHTA	
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
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



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

				
		Parallel key	Drive ring	clamping screw
		CT	CX	CT
Spare parts		83 950 ...	83 370 ...	83 950 ...
DCONWS				
16	4 x 4 x 20	284	116	M8x25113
22	6 x 6 x 25	285	122	M10x25124
27	7 x 7 x 25	286	127	M12x30125
32	8 x 7 x 28	287	132	M16x35126
40	10 x 8 x 32	288	140	M20x40 - SW17112

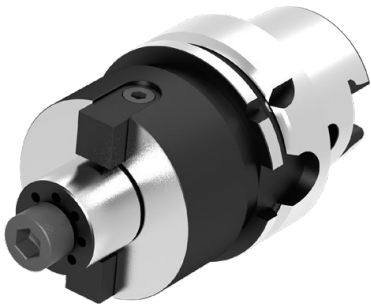
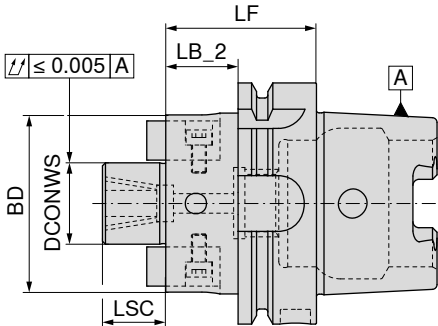
Accessories

		
Milling Adapter Rings	Coolant transfer pipe	Others
→	→	→

CoreLine – 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



		Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm		
short	HSK-A 63	22	34	60	38	19		CX 82 315 ... 12257 12757 12255 12755 22257 22757 22255 22755 32257 32757 32255 32755	
	HSK-A 63	27	34	60	48	21			
	HSK-A 100	22	31	60	38	19			
	HSK-A 100	27	31	60	48	21			
medium length	HSK-A 63	22	74	100	38	19			
	HSK-A 63	27	74	100	48	21			
	HSK-A 100	22	71	100	38	19			
	HSK-A 100	27	71	100	48	21			
long	HSK-A 63	22	104	130	38	19			
	HSK-A 63	27	104	130	48	21			
	HSK-A 100	22	101	130	38	19			
	HSK-A 100	27	101	130	48	21			

 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.

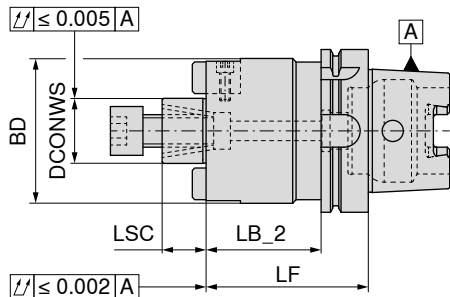
		 Screw for drivers		 Driver		 clamping screw	
Spare parts		CT		CT		CT	
DCONWS		83 950 ...		83 950 ...		83 950 ...	
22	M4x8	51700	10x7x20,5	51500	M10x25	124	
27	M5x8	51800	12x9x24,3	51600	M12x30	125	

CoreLine – 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

	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⁾

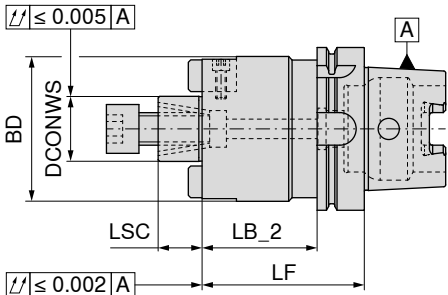
1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

CoreLine – 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



extra-long	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm
	HSK-A 63	16	134	160		38	44,3	17
	HSK-A 63	22	134	160		48	50,3	19
	HSK-A 63	27	134	160	58			21
	HSK-A 63	32	134	160	78			24
	HSK-A 63	40	134	160	88			27
	HSK-A 100	16	131	160		38	46,3	17
	HSK-A 100	22	131	160		48	56,3	19
	HSK-A 100	27	131	160		58	66,3	21

CX
82 745 ...
41657
42257
42757
43257
44057 ¹⁾
41655
42255
42755
43255
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)!

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

Accessories

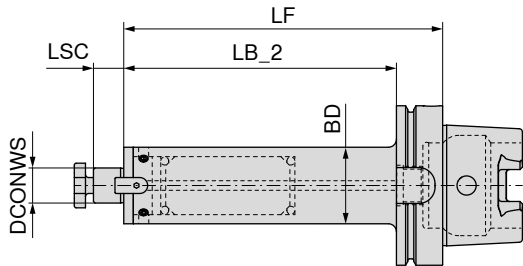
		
Extensions	Coolant transfer pipe	Others
→	→	→

HyPower – Actively vibration-damped shell mill adapter

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

Scope of supply:

Base body with retaining screw and drive dog



Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	CT 84 752 ... 51657 52257 51655 52255 52755
HSK-A 63	16	174	200	39	17	
HSK-A 63	22	174	200	48	19	
HSK-A 100	16	171	200	39	17	
HSK-A 100	22	171	200	48	19	
HSK-A 100	27	171	200	58	21	

Spare parts
DCONWS

16
22
27

 Screw for drivers	 Driver	 Cross screw	 clamping screw
CT 83 950 ...	CT 83 950 ...	CX 83 367 ...	CT 83 950 ...
296	120	016	113
297	121	022	124
136	122	027	125

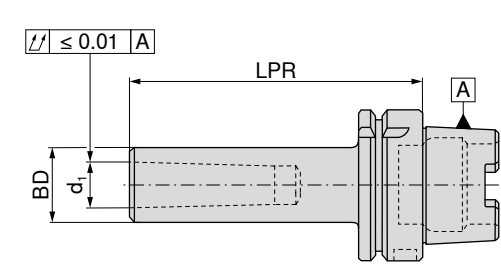
Accessories


Coolant transfer pipe
→


Others
→

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

▲ also available with Balluff chip on request



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

CX

82 746 ...

01057

02057

03057

04057

02055

03055

04055

Accessories



Morse taper adapter sleeve

→



Coolant transfer pipe

→

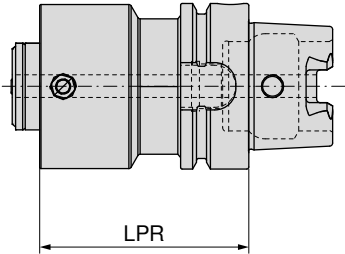


Others

→

CoreLine – HSK-T extension

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

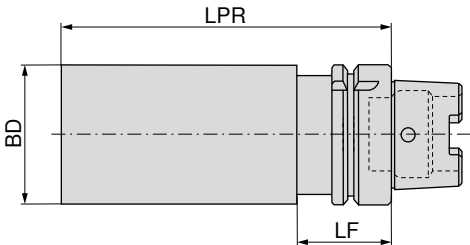


Adapter	LPR mm
HSK-T 63	80
HSK-T 63	120
HSK-T 100	125
HSK-T 100	160
HSK-T 100	200

CT
84 621 ...
08037
12037
12535
16035
20035

CoreLine – Blank

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



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

CX
82 747 ...
16357
18057
16355
18055
19755

Accessories



Coolant transfer pipe

→

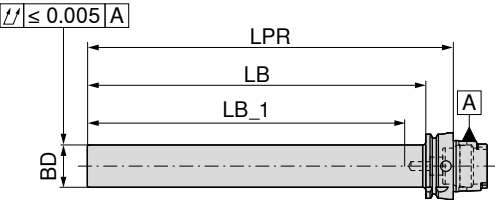


Others

→

CoreLine – Test arbor

Scope of supply:
in wooden box



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

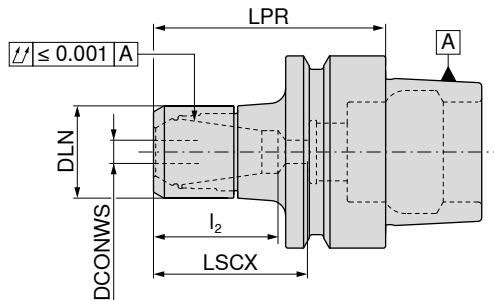
CT
81 746 ...
063
100

CoreLine – 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

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

CT

84 776 ...

417

516



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for collet

430E (ER25)



Lock nut IK

CT

84 950 ...

013



Lock nut

CT

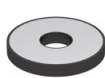
84 950 ...

003

Accessories



ER collet



Sealing ring



Roll key



Roll key device



Coolant transfer pipe



Others

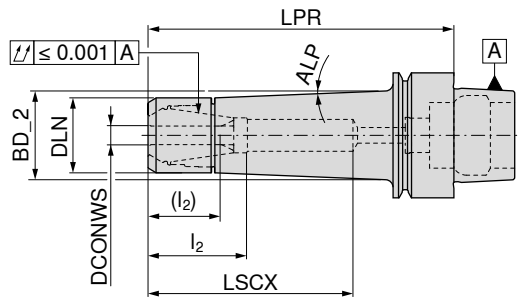


CoreLine – ER Precision tapered collet chuck – Centro-P

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

Scope of supply:

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



G 2,5 $n_{\max}$ 30000

	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)	84 774 ...
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	07200
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	307
										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



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



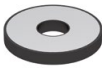
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
for collet

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

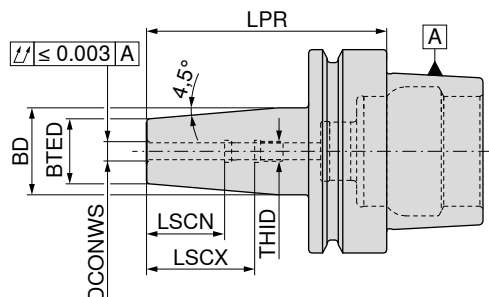
 Mini lock nut IK	 Mini lock nut	 Stop screw 2	 Stop screw 1
CT	CT	CT	CT
84 950 ...	84 950 ...	83 950 ...	83 950 ...
	041	340	336
035	034	341	337

Accessories

						
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→	→	→	→	→	→	→

CoreLine – Shrink fit adapters

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



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	
short	HSK-E 40	3	60	10	15	28	12	M6
	HSK-E 40	4	60	10	15	28	16	M6
	HSK-E 40	5	60	10	15	30	20	M6
	HSK-E 40	6	80	21	27	36	26	M5
	HSK-E 40	8	80	21	27	36	26	M6
	HSK-E 40	10	80	24	32	41	31	M8x1
	HSK-E 40	12	90	24	32	47	37	M10x1
	HSK-E 40	14	90	27	34	47	37	M10x1
	HSK-E 40	16	90	27	34	50	40	M12x1
	HSK-E 50	3	80	10	15	22	12	M6
	HSK-E 50	4	80	15	22	26	16	M6
	HSK-E 50	5	80	15	22	30	20	M6
	HSK-E 50	6	80	21	27	36	26	M5
	HSK-E 50	8	80	21	27	36	26	M6
	HSK-E 50	10	85	24	32	41	31	M8x1
	HSK-E 50	12	90	24	32	47	37	M10x1
	HSK-E 50	14	90	27	34	47	37	M10x1
	HSK-E 50	16	95	27	34	50	40	M12x1
	HSK-E 50	18	95	33	42	50	40	M12x1
	HSK-E 50	20	100	33	42	52	42	M16x1

CT
84 308 ...
103
104
105
106
108
110
112
114
116

CT
84 309 ...

103
104
105
106
108
110
112
114
116
118
120



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

									
			Stop screw IK			Thro' coolant back stop screw			Stop screw IK
			CT			CT			CT
Spare parts DCONWS			83 950 ...			83 950 ...			83 950 ...
3 - 5	M6x14 - SW2	417	M5x14 - SW2		411				
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 - SW5	423	



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

Accessories





Shrink fit extension

Others

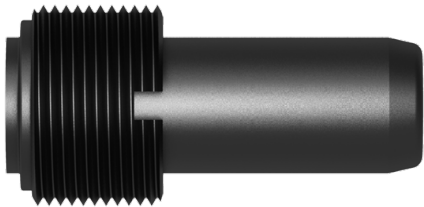
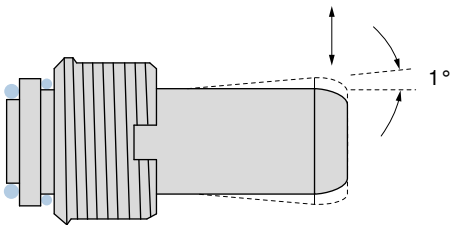
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Coolant pipe – HSK

▲ use up to 100 bar

Scope of supply:
complete, including seals

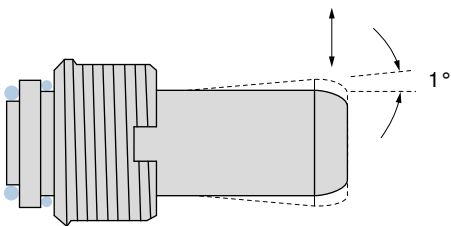


Adapter		THOD	CT	
			83 760 ...	
HSK 32		M10 x 1		032
HSK 40		M12 x 1		040
HSK 50		M16 x 1		050
HSK 63		M18 x 1		063
HSK 80		M20 x 1,5		080
HSK 100		M24 x 1,5		100

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	CT	
			83 760 ...	
HSK 63		M18 x 1		16300
HSK 100		M24 x 1,5		20000



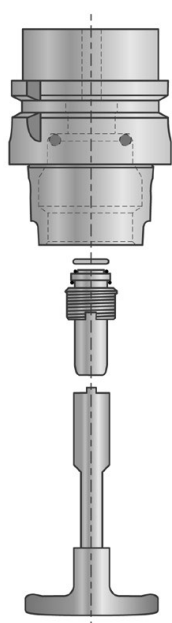
For usage with micro tools with thro' coolant, improved tool life due to reduced contamination of the coolant hole.

Key – HSK

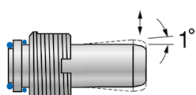


Adapter	CT 83 758 ...
HSK 32	032
HSK 40	040
HSK 50	050
HSK 63	063
HSK 80	080
HSK 100	100

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 ($\pm 1^\circ$).



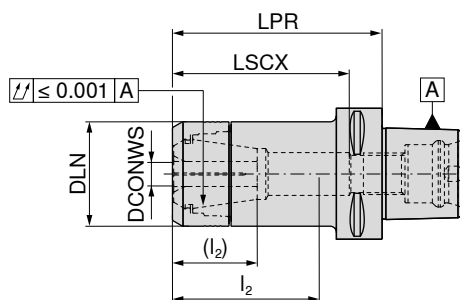
Flexibility

CoreLine – 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

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l ₂ (l ₂) mm	for collet	CT
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	84 112 ... 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



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



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

						
	Lock nut IK	Lock nut		Stop screw 2		Stop screw 1
	CT	CT		CT		CT
Spare parts for collet	84 950 ...	84 950 ...		83 950 ...		83 950 ...
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

Accessories



ER collet

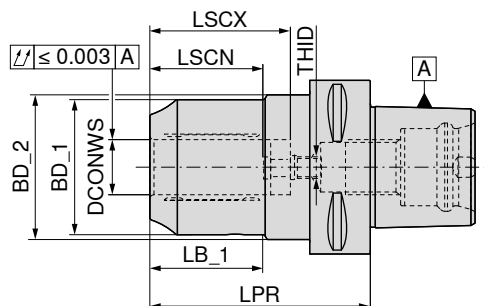
→

HyPower – High pressure chuck – 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

CT

84 108 ...

62000

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



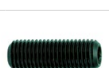
LSCX = maximum insertion depth
LSCN = minimum insertion depth



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts for Article no.

84 108 62000



Cylindrical screw

CT

83 950 ...

157



Clamping key – T

AS

80 397 ...

SW5

050



Pressure screw

CT

83 950 ...

M10x1x14

429



Stop screw IK

CT

83 950 ...

M16x1x13,5 - SW8

424

Accessories



Reduction sleeve



Coolant transfer pipe



Others



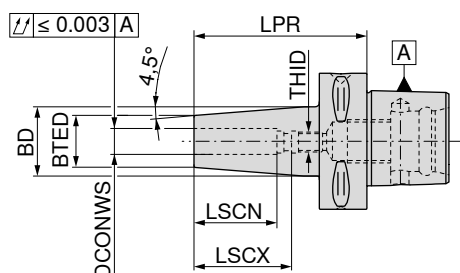
CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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 2,5 n_{max} 25000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
short	PSC 40	75	6	21	27	36	26	M5	10695
	PSC 40	75	8	21	27	36	26	M6	10895
	PSC 40	75	10	24	32	41	31	M8x1	11095
	PSC 40	75	12	24	32	47	37	M10x1	11295
	PSC 40	80	14	27	34	47	37	M10x1	11495
	PSC 40	80	16	27	34	50	40	M12x1	11695
	PSC 40	80	18	33	42	50	40	M12x1	11895
	PSC 40	85	20	33	42	52	42	M16x1	12095
	PSC 50	65	3	12	17				10394
	PSC 50	65	4	12	17				10494
	PSC 50	65	5	12	17				10594
	PSC 50	75	6	21	30	36	26	M5	10694
	PSC 50	75	8	21	30	36	26	M6	10894
	PSC 50	75	10	24	33	41	31	M8x1	11094
	PSC 50	75	12	24	33	47	37	M10x1	11294
	PSC 50	80	14	27	34	47	37	M10x1	11494
	PSC 50	80	16	27	34	50	40	M12x1	11694
	PSC 50	80	18	33	42	50	40	M12x1	11894
	PSC 50	85	20	33	42	52	42	M16x1	12094
	PSC 50	90	25	44	53	58	48	M16x1	12594
	PSC 63	80	3	12	17				10393
	PSC 63	80	4	12	17				10493
	PSC 63	80	5	12	17				10593
	PSC 63	80	6	21	27	36	26	M5	10693
	PSC 63	80	8	21	27	36	26	M6	10893
	PSC 63	80	10	24	32	41	31	M8x1	11093
	PSC 63	80	12	24	32	47	37	M10x1	11293
	PSC 63	85	14	27	34	47	37	M10x1	11493
	PSC 63	85	16	27	34	50	40	M12x1	11693
	PSC 63	85	18	33	42	50	40	M12x1	11893
	PSC 63	85	20	33	42	52	42	M16x1	12093
	PSC 63	90	25	44	53	58	48	M16x1	12593
	PSC 63	95	32	44	53	61	51	M16x1	13293



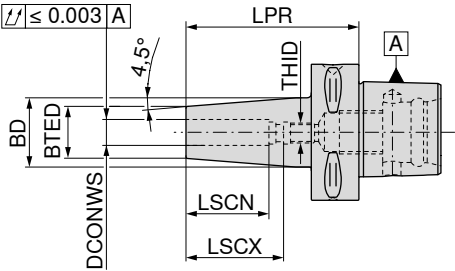
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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 2,5 n_{max} 25000

short	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	CT 82 310 ... 10686 10886 11086 11286 11486 11686 11886 12086 12586 13286
	PSC 80	85	6	21	27	36	26	M5	
	PSC 80	85	8	21	27	36	26	M6	
	PSC 80	85	10	24	32	41	31	M8x1	
	PSC 80	85	12	24	32	47	37	M10x1	
	PSC 80	90	14	27	34	47	37	M10x1	
	PSC 80	90	16	27	34	50	40	M12x1	
	PSC 80	90	18	33	42	50	40	M12x1	
	PSC 80	90	20	33	42	52	42	M16x1	
	PSC 80	95	25	44	53	58	48	M16x1	
	PSC 80	100	32	44	53	61	51	M16x1	



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

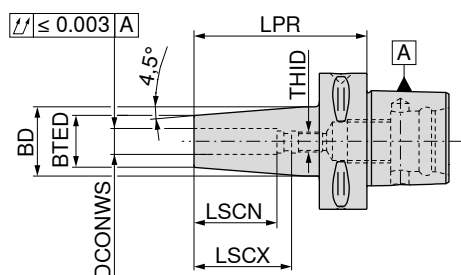
CoreLine – Shrink fit adapters 4.5° – TG

- ▲ 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 2,5 n_{max} 25000

									CT	
									82 310 ...	
Adapter	LPR	DCONWS	BTED	BD	LSCX	LSCN	THID			
mm	mm	mm	mm	mm	mm	mm	mm			
medium length	PSC 50	120	6	21	32	36	26	M5	20694	
	PSC 50	120	8	21	32	36	26	M6	20894	
	PSC 50	120	10	24	34	41	31	M8x1	21094	
	PSC 50	120	12	24	34	47	37	M10x1	21294	
	PSC 50	120	14	27	36	47	37	M10x1	21494	
	PSC 50	120	16	27	36	50	40	M12x1	21694	
	PSC 50	120	18	33	42	50	40	M12x1	21894	
	PSC 50	120	20	33	42	52	42	M16x1	22094	
	PSC 50	120	25	44	53	58	48	M16x1	22594	
	PSC 63	120	6	21	32	36	26	M5	20693	
	PSC 63	120	8	21	32	36	26	M6	20893	
	PSC 63	120	10	24	32	41	31	M8x1	21093	
	PSC 63	120	12	24	32	47	37	M10x1	21293	
	PSC 63	120	14	27	36	47	37	M10x1	21493	
	PSC 63	120	16	27	36	50	40	M12x1	21693	
	PSC 63	120	18	33	44	50	40	M12x1	21893	
	PSC 63	120	20	33	44	52	42	M16x1	22093	
	PSC 63	120	25	44	53	58	48	M16x1	22593	
	PSC 63	120	32	44	53	61	51	M16x1	23293	
	PSC 80	120	6	21	32	36	26	M5	20686	
	PSC 80	120	8	21	32	36	26	M6	20886	
	PSC 80	120	10	24	34	41	31	M8x1	21086	
	PSC 80	120	12	24	34	47	37	M10x1	21286	
	PSC 80	120	14	27	36	47	37	M10x1	21486	
	PSC 80	120	16	27	36	50	40	M12x1	21686	
	PSC 80	120	18	33	44	50	40	M12x1	21886	
	PSC 80	120	20	33	44	52	42	M16x1	22086	
	PSC 80	120	25	44	53	58	48	M16x1	22586	
	PSC 80	120	32	44	53	61	51	M16x1	23286	



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

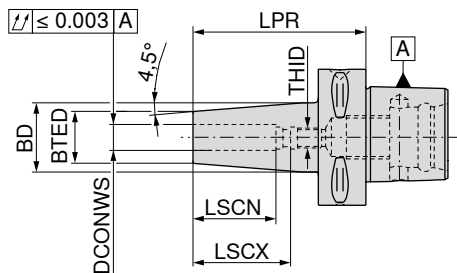
CoreLine – Shrink fit adaptors 4.5° – TG

- ▲ 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 2,5 n_{max} 25000

	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	
extra-long	PSC 63	160	6	21	32	36	26	M5	CT 82 310 ...
	PSC 63	160	8	21	32	36	26	M6	40693
	PSC 63	160	10	24	34	41	31	M8x1	40893
	PSC 63	160	12	24	34	47	37	M10x1	41093
	PSC 63	160	14	27	36	47	37	M10x1	41293
	PSC 63	160	16	27	36	50	40	M12x1	41493
	PSC 63	160	18	33	44	50	40	M12x1	41693
	PSC 63	160	20	33	44	52	42	M16x1	41893
	PSC 63	160	25	44	53	58	48	M16x1	42093
	PSC 63	160	32	44	53	61	51	M16x1	42593
									43293



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts DCONWS

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



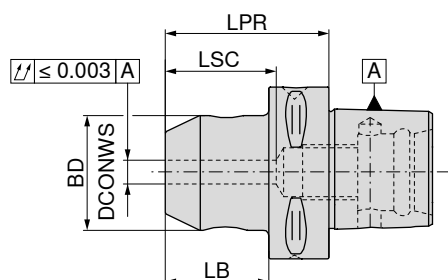
Stop screw IK

CX

82 950 ...

CoreLine – 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

CT

82 741 ...

	Adapter	Dimensions (mm)					
		DCONWS	LPR	BD	LB	LSC	
short	PSC 40	6	50	25	30	35	10695
	PSC 40	8	50	28	30	35	10895
	PSC 40	10	50	35	30	39	11095
	PSC 40	12	55	42	35	44	11295
	PSC 40	14	55	44	35	44	11495
	PSC 40	16	55	48	35	47	11695
	PSC 50	6	50	25	30	35	10694
	PSC 50	8	50	28	30	35	10894
	PSC 50	10	55	35	35	39	11094
	PSC 50	12	60	42	40	44	11294
	PSC 50	14	60	44	40	44	11494
	PSC 50	16	60	48	40	47	11694
	PSC 50	18	60	50	40	47	11894
	PSC 50	20	60	52	40	47	12094
	PSC 50	25	80	65	60	61	12594 ¹⁾
	PSC 63	6	55	25	33	35	10693
	PSC 63	8	55	28	33	35	10893
	PSC 63	10	60	35	38	39	11093
	PSC 63	12	60	42	38	44	11293
	PSC 63	14	60	44	38	44	11493
	PSC 63	16	65	48	43	47	11693
	PSC 63	18	65	50	43	47	11893
	PSC 63	20	65	52	43	49	12093
	PSC 63	25	80	65	58	61	12593 ¹⁾
	PSC 63	32	90	72	68	65	13293 ¹⁾
	PSC 63	40	100	80	78	75	14093 ¹⁾
	PSC 80	6	70	25	40	35	10686
	PSC 80	8	70	28	40	35	10886
	PSC 80	10	70	35	40	39	11086
	PSC 80	12	70	42	40	44	11286
	PSC 80	14	70	44	40	44	11486
	PSC 80	16	70	48	40	47	11686
	PSC 80	18	70	50	40	47	11886
	PSC 80	20	70	52	40	49	12086
	PSC 80	25	80	65	50	61	12586 ¹⁾
	PSC 80	32	80	72	50	65	13286 ¹⁾
	PSC 80	40	110	80	80	75	14086 ¹⁾
	PSC 80	50	120	100	90	83	15086 ¹⁾

1) Version with two grub screws

Spare parts
DCONWS

6	006
8	008
10	010
12 - 14	012
16 - 18	016
20	020
25	025
32 - 40	032



Grubscrew

CT
62 950 ...

Accessories



Coolant transfer pipe

→

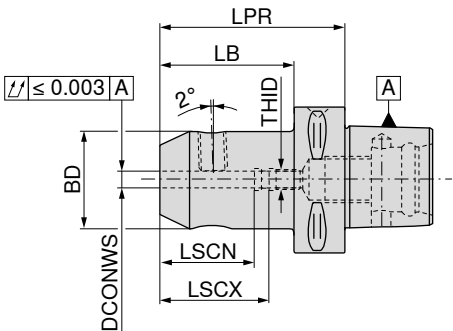


Others

→

CoreLine – 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

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSCX mm	LSCN mm	THID
PSC 50	6	70	25	50	38	28	M5
PSC 50	8	70	28	50	38	28	M6
PSC 50	10	70	35	50	41	31	M8
PSC 50	12	75	42	55	47	37	M10
PSC 50	14	75	44	55	47	37	M10
PSC 50	16	80	48	60	50	40	M12
PSC 50	18	80	50	60	50	40	M12
PSC 50	20	85	52	65	52	42	M16
PSC 63	6	75	25	53	38	28	M5
PSC 63	8	75	28	53	38	28	M6
PSC 63	10	75	35	53	41	31	M8
PSC 63	12	80	42	58	47	37	M10
PSC 63	14	80	44	58	47	37	M10
PSC 63	16	80	48	58	50	40	M12
PSC 63	18	80	50	58	50	40	M12
PSC 63	20	85	52	63	52	42	M16
PSC 63	25	90	65	68	58	48	M16
PSC 63	32	95	72	73	61	51	M16

CT

82 742 ...

10694
10894
11094
11294
11494
11694
11894
12094

10693
10893
11093
11293
11493
11693
11893
12093
12593 ¹⁾
13293 ¹⁾

1) Version with two grub screws



CT

Spare parts
DCONWS

6	006
8	008
10	010
12 - 14	012
16 - 18	016
20	020
25	025
32	032

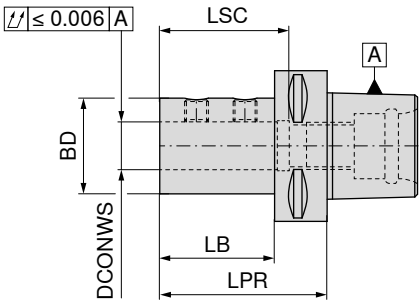
62 950 ...

Accessories

	
Coolant transfer pipe	Others
→	→

CoreLine – Indexable insert drill adapter

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



						CT	
						82 274 ...	
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm		
PSC 40	16	60	36	40	49	11695	
PSC 40	20	60	40	40	54	12095	
PSC 40	25	70	45	50	59	12595	
PSC 50	16	65	36	45	49	11694	
PSC 50	20	65	40	45	54	12094	
PSC 50	25	70	45	50	59	12594	
PSC 50	32	75	52	55	63	13294	
PSC 63	16	70	36	48	49	11693	
PSC 63	20	70	40	48	54	12093	
PSC 63	25	75	45	53	59	12593	
PSC 63	32	75	52	53	63	13293	
PSC 63	40	85	65	63	73	14093	
PSC 63	50	115	75	93	83	15093	
PSC 80	16	80	36	50	49	11686	
PSC 80	20	80	40	50	54	12086	
PSC 80	25	85	45	55	59	12586	
PSC 80	32	90	52	60	63	13286	
PSC 80	40	95	65	65	73	14086	
PSC 80	50	100	75	70	83	15086	



Spare parts
DCONWS

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

Accessories



Coolant transfer pipe

→

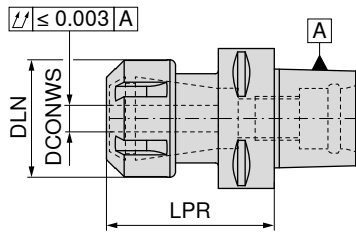


Others

→

CoreLine – ER Collet chuck

▲ also available with Balluff chip on request



G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	
short	PSC 40	1 - 10	55	32	8 - 56	426E (ER16)	CT
	PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	82 743 ...
	PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	11095
							11695
							12095
	PSC 50	1 - 10	60	32	8 - 56	426E (ER16)	11094
	PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	11694
	PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	12094
	PSC 50	3 - 26	65	63	176	472E (ER40)	12694
	PSC 63	1 - 10	60	32	8 - 56	426E (ER16)	11093
	PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	11693
	PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	12093
	PSC 63	3 - 26	65	63	176	472E (ER40)	12693
	PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	11686
	PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	12086
	PSC 80	3 - 26	80	63	176	472E (ER40)	12686
medium length							
	PSC 50	1 - 10	100	32	8 - 56	426E (ER16)	21094
	PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	21694
	PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	22094
	PSC 50	3 - 26	100	63	176	472E (ER40)	22694
	PSC 63	1 - 10	100	32	8 - 56	426E (ER16)	21093
	PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	21693
	PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	22093
	PSC 63	3 - 26	100	63	176	472E (ER40)	22693
	PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	21686
	PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	22086
	PSC 80	3 - 26	100	63	176	472E (ER40)	22686



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

Spare parts
for collet

		 Lock nut IK		 Lock nut		 Y clamping key
		CT		CT		CX
		83 950 ...		62 950 ...		83 357 ...
426E (ER16)	M22x1,5	054	M22x1,5	054		116
430E (ER25)	M32x1,5	055	M32x1,5	055		125
470E (ER32)	M40x1,5	056	M40x1,5	65600		132
472E (ER40)	M50x1,5	057	M50x1,5	65700		140

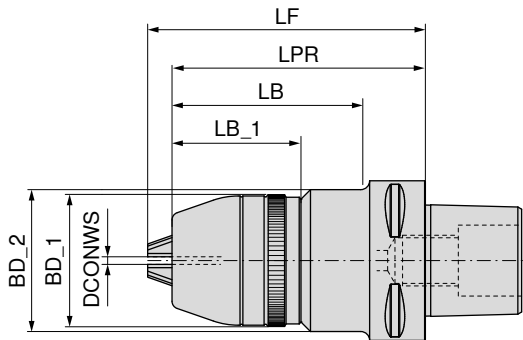
Accessories

		
ER collet	Coolant transfer pipe	Others
→	→	→

CoreLine – 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

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

CT

84 111 ...

01395
01695

01394
01694

01393
01693



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

Accessories

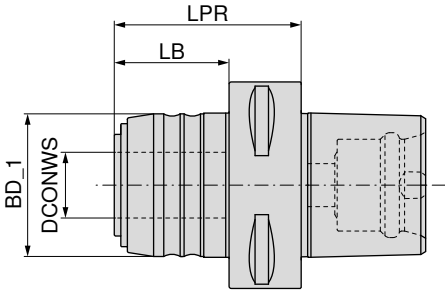


Others



CoreLine – Synchronised quick change tap chuck with minimal length compensation

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



Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	CT 84 140 ... 612 620
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	

Accessories



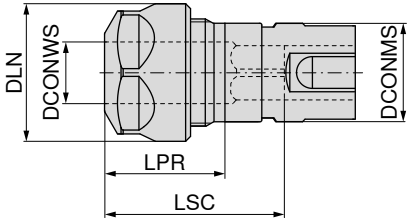
Operation



Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:
Includes lock nut



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

1) with 6 position lock nut

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



Lock nut

CT

62 950 ...



Lock nut IK

CT

83 950 ...



Lock nut

CT

62 950 ...



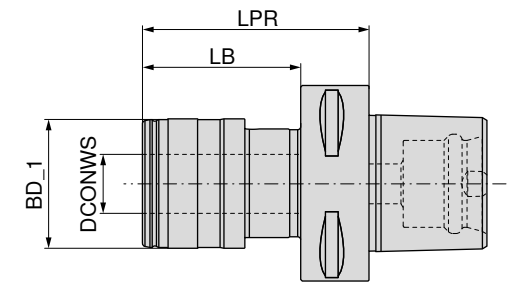
Y clamping key

CX

83 357 ...

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

Accessories



Collet



HyPower – Adapter – ABS

▲ also available with Balluff chip on request



Adapter	SZID	BD mm	LPR mm	LB mm	CT 84 215 ... 04097 05097 06397 06396 08097 08096 08092
PSC 40	ABS 50	50	50	30	
PSC 50	ABS 50	50	50	30	
PSC 63	ABS 50	50	50	28	
PSC 63	ABS 63	63	60	36	
PSC 80	ABS 50	50	50	23	
PSC 80	ABS 63	63	60	30	
PSC 80	ABS 80	80	80	50	

Spare parts
SZID

ABS 50	20300	99800	20400
ABS 63	25500	99400	27300
ABS 80	25600	99300	25100



Clamping screw

CT

84 950 ...

20300



Set

CT

84 950 ...

99800



Taper screw

CT

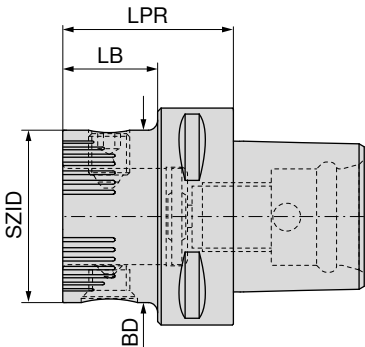
84 950 ...

20400

HyPower – Torsional vibration dampers – ABS

▲ also available with Balluff chip on request

ABS



Adapter	SZID	BD mm	LPR mm	LB mm
PSC 50	ABS 50	50	50	30
PSC 63	ABS 50	50	50	28
PSC 63	ABS 63	63	60	38
PSC 80	ABS 50	50	50	23
PSC 80	ABS 63	63	60	30
PSC 80	ABS 80	80	80	50

CT
84 206 ...
05094
05093
06393
05086
06386
08086

Spare parts

SZID
ABS 50
ABS 63
ABS 80

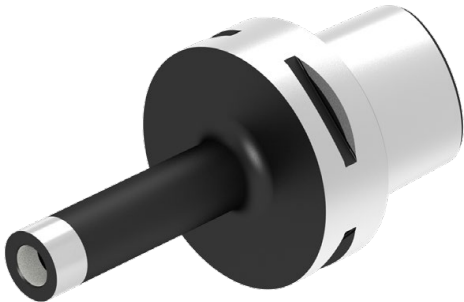
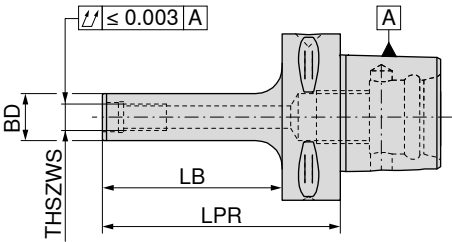
Clamping screw	Set	Taper screw
CT	CT	CT
84 950 ...	84 950 ...	84 950 ...
20300	99800	20400
25500	99400	27300
25600	99300	25100

Accessories

Coolant transfer pipe	Others
→	→

CoreLine – Adapter for milling cutters with threaded end – cylindrical

▲ also available with Balluff chip on request



Adapter	THSZWS	LPR mm	BD mm	LB mm
PSC 63	M8	70	13	48
PSC 63	M10	90	18	68
PSC 63	M12	100	21	78
PSC 63	M16	100	29	78

CT
82 750 ...
20893
21093
21293
21693

Accessories



Coolant transfer pipe

→



Others

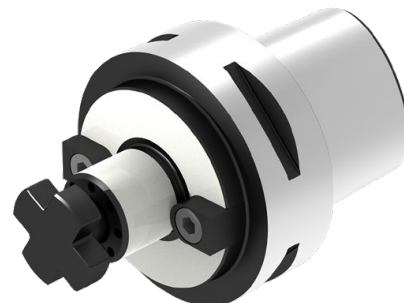
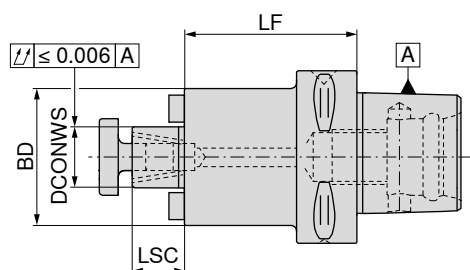
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CoreLine – Shell mill adapter

- ▲ 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 2,5 n_{max} 25000

		Adapter	DCONWS mm	LF mm	BD mm	LSC mm		
extra short	PSC 40	22	40	50	19		CT	82 745 ...
	PSC 40	16	28	40	17			02295
	PSC 50	32	40	63	24			01695
	PSC 50	16	28	40	17			03294
	PSC 50	22	28	50	19			01694
	PSC 50	27	32	58	21			02294
	PSC 63	27	32	58	21			02794
	PSC 63	22	28	50	19			02793
	PSC 63	32	40	63	24			02293
	PSC 63	40	40	70	27			03293
	PSC 80	27	40	58	21			04093
	PSC 80	22	40	50	19			02786
	PSC 80	32	40	63	24			02286
	PSC 80	40	40	70	27			03286
	PSC 80							04086
short	PSC 40	22	63	50	19			12295
	PSC 40	16	63	40	17			11695
	PSC 50	32	63	63	24			13294
	PSC 50	16	63	40	17			11694
	PSC 50	22	63	50	19			12294
	PSC 50	27	63	58	21			12794
	PSC 63	22	63	50	19			12293
	PSC 63	16	63	40	17			11693
	PSC 63	27	63	58	21			12793
	PSC 63	32	86	63	24			13293
	PSC 80	27	63	58	21			12786
	PSC 80	16	63	40	17			11686
	PSC 80	22	63	50	19			12286
	PSC 80	32	86	63	24			13286

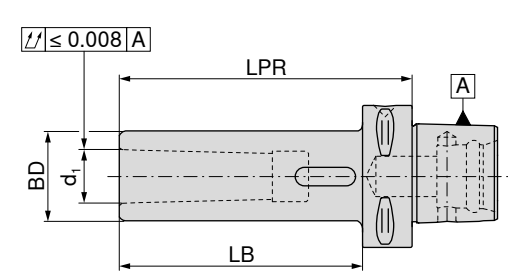
						
		Cross nut key		Cross screw		clamping screw
		CX		CX		CT
Spare parts		83 368 ...		83 367 ...		83 950 ...
DCONWS						
16		116	M8	016	M8x25	113
22		122	M10	022	M10x25	124
27		127	M12	027	M12x30	125
32		132	M16	032	M16x35	126
40		140	M20	040	M20x40 - SW17	112
						
				Screw for drivers		Driver
				CT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

Accessories

	
Coolant transfer pipe	Others
→	→

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

▲ also available with Balluff chip on request



Adapter	d ₁	LPR mm	BD mm	LB mm
PSC 40	MK2	110	32	90
PSC 40	MK3	130	40	110
PSC 50	MK2	110	32	90
PSC 50	MK3	130	40	110
PSC 50	MK4	155	48	135
PSC 63	MK2	110	32	88
PSC 63	MK3	130	40	108
PSC 63	MK4	157	48	135
PSC 80	MK2	120	32	90
PSC 80	MK3	140	40	110
PSC 80	MK4	165	48	135

CT
82 746 ...
02095
03095
02094
03094
04094
02093
03093
04093
02086
03086
04086

Accessories



Coolant transfer pipe

→

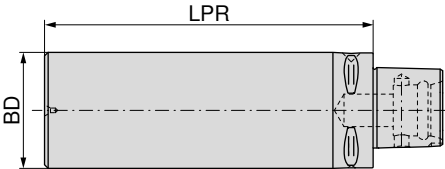


Others

→

CoreLine – Blank

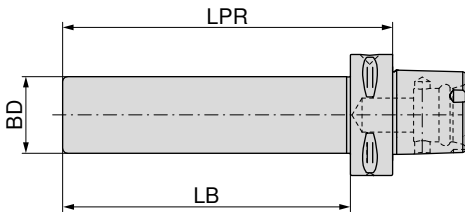
- ▲ Material: 1.7131
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 27^{±1} HRC
- ▲ also available with Balluff chip **on request**



Adapter			CT	
BD	LPR		82 747 ...	
mm	mm			
PSC 40	40	95	04095	
PSC 40	40	120	04195	
PSC 40	60	165	06095	
PSC 40	80	75	08095	
PSC 40	80	120	08195	
PSC 40	100	85	10095	
PSC 50	50	125	05094	
PSC 50	50	150	05194	
PSC 50	75	175	07594	
PSC 50	90	80	09094	
PSC 50	95	150	09594	
PSC 50	110	90	11094	
PSC 63	63	180	06393	
PSC 63	75	195	07593	
PSC 63	110	85	11093	
PSC 63	120	180	12093	
PSC 63	130	95	13093	
PSC 80	80	200	08086	
PSC 80	120	160	12086	
PSC 80	130	90	13086	
PSC 80	145	200	14586	

CoreLine – Test bar

▲ also available with Balluff chip on request



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

CT
81 746 ...
12595
13294
14093
14086

Accessories



Coolant transfer pipe

→

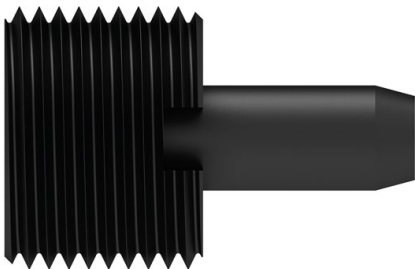


Others

→

Coolant pipe – PSC

Scope of supply:
complete, including seals



Adapter		THOD	CT	
			84 116 ...	
PSC 40		M14 x 1,5	04000	
PSC 50		M16 x 1,5	05000	
PSC 63		M20 x 2,0	06300	
PSC 80		M20 x 2,0	08000	

Key – PSC

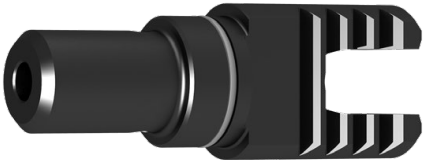
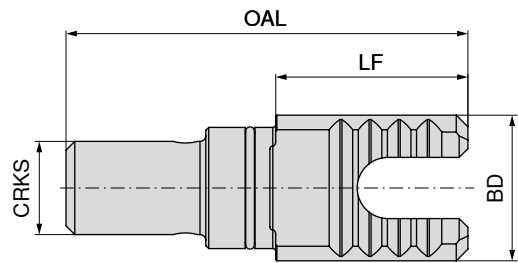


Adapter		CT	
		84 117 ...	
PSC 40		04000	
PSC 50		05000	
PSC 63		06300	
PSC 80		08000	

Pull stud for PSC adapter

▲ for front clamping

Scope of supply:
including O-Ring



Adapter	LF mm	OAL mm	BD mm	CRKS
PSC 40	26,3	56	20	M14x1,5
PSC 50	33,0	69	25	M16x1,5
PSC 63	33,0	79	31	M20x2

CX
83 235 ...
04000
05000
06300

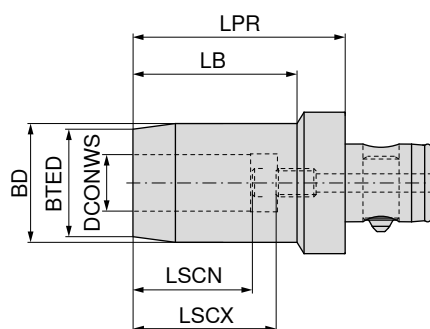
HyPower – Hydraulic chuck – Fit

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

Scope of supply:

Base body including backstop screw

Fit



Adapter	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm
ABS 40	6	22	26	55	36,5	37	27
ABS 40	8	24	28	60	42,0	37	27
ABS 40	10	26	30	65	47,5	41	31
ABS 40	12	28	32	65	48,0	46	36
ABS 50	6	22	26	55	33,5	37	27
ABS 50	8	24	28	55	34,0	37	27
ABS 50	10	26	30	65	45,0	41	31
ABS 50	12	28	32	65	45,5	46	36
ABS 50	14	30	34	65	46,0	46	36
ABS 50	16	34	38	70	52,0	49	39
ABS 50	18	36	40	70	52,5	49	39
ABS 50	20	38	42	75	58,0	51	41
ABS 63	20	38	42	78	56,0	51	41
ABS 63	25	53	57	85	60,0	57	47
ABS 63	32	60	64	90	61,0	61	51

CT

84 253 ...

00688

00888

01088

01288

00697

00897

01097

01297

01497

01697

01897

02097

02096

02596

03296

Spare parts
DCONWS

6	98700	M5x12,5 - SW2,5	418
6	99900	M5x12,5 - SW2,5	418
8	98700	M6x12,5 - SW3	419
8	99900	M6x12,5 - SW3	419
10	99900	M8x1x13,5 - SW3	420
10	98700	M8x1x13,5 - SW3	420
12	99900	M10x1x13,5 - SW5	421
12	98700	M10x1x13,5 - SW5	421
14	99900	M10x1x13,5 - SW5	421
16	99900	M10x1x13,5 - SW5	421
18	99900	M10x1x13,5 - SW5	421
20	98600	M16x1x13,5 - SW5	423
20	99900	M16x1x13,5 - SW5	423
25	98600	M16x1x13,5 - SW5	423
32	98600	M16x1x13,5 - SW5	423



Set

CT

84 950 ...



Stop screw IK

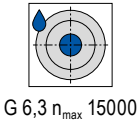
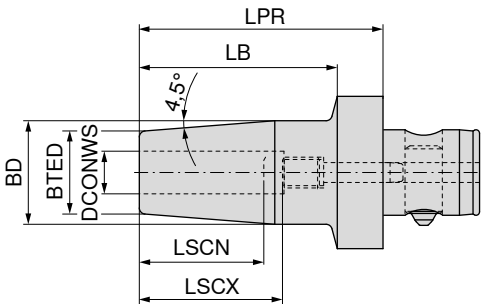
CT

83 950 ...

HyPower – Heat shrink adapter 4.5° – ABS

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

ABS



Adapter	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCX mm	LSCN mm
ABS 32	6	70	27	21	56	36	26
ABS 32	8	70	27	21	56	36	26
ABS 32	10	70	32	24	56	42	32
ABS 32	12	80	32	24	66	47	37
ABS 40	8	70	27	21	56	36	26
ABS 40	10	70	32	24	56	42	32
ABS 40	12	80	32	24	66	47	37
ABS 40	16	90	34	27	76	50	40
ABS 50	6	75	27	21	56	36	26
ABS 50	8	75	27	21	56	36	26
ABS 50	10	80	32	24	61	42	32
ABS 50	12	80	32	24	61	47	37
ABS 50	14	80	34	27	61	47	37
ABS 50	16	85	34	27	66	50	40
ABS 50	18	85	42	33	66	50	40
ABS 50	20	90	42	33	71	52	42
ABS 63	20	90	42	33	71	52	42
ABS 63	25	95	53	44	76	58	48
ABS 63	32	95	53	44	76	58	48

CT
84 222 ...
00689
00889
01089
01289
00888
01088
01288
01688
00697
00897
01097
01297
01497
01697
01897
02097
02096
02596
03296

Spare parts
DCONWS

6	99900	M5x18	21400
6	98800	M5x18	21400
8	98800	M6x20	21500
8	98700	M6x20	21500
8	99900	M6x20	21500
10	98700	M8x1x20	21600
10	98800	M8x1x20	21600
10	99900	M8x1x20	21600
12	99900	M10x1x20	21700
12	98800	M10x1x20	21700
12	98700	M10x1x20	21700
14	99900	M10x1x20	21700
16	98700	M12x1x20	21800
16	99900	M12x1x20	21800
18	99900	M12x1x20	21800
20	98600	M8x1x20	21900
20	99900	M8x1x20	21900
25	98600	M8x1x20	21900
32	98600	M8x1x20	21900



Set

CT

84 950 ...



Backstop screw

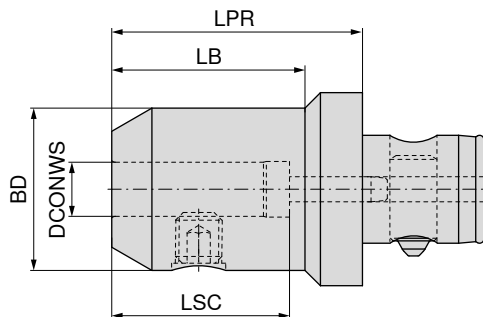
CT

84 950 ...

HyPower – Cylindrical shank adapter (Weldon) – ABS

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

ABS



Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm
ABS 50	6	45	25,0	27	40
ABS 50	8	45	28,0	27	40
ABS 50	10	55	35,0	37	44
ABS 50	12	65	42,0	50	49
ABS 50	14	65	44,0	50	49
ABS 50	16	65	48,0	50	52
ABS 50	18	65	49,9	50	52
ABS 50	20	65	52,0	50	54
ABS 50	25	75	65,0	60	60
ABS 63	12	65	42,0	50	49
ABS 63	14	65	44,0	50	49
ABS 63	16	65	48,0	50	52
ABS 63	18	65	50,0	50	52
ABS 63	20	65	52,0	45	54
ABS 63	25	75	65,0	60	60
ABS 63	32	80	72,0	65	64
ABS 80	20	65	52,0	45	54
ABS 80	25	75	65,0	55	60
ABS 80	32	80	72,0	66	64

CT

84 221 ...

00697

00897

01097

01297

01497

01697

01897

02097

02597 ¹⁾

01296

01496

01696

01896

02096

02596 ¹⁾

03296 ¹⁾

02092

02592 ¹⁾

03292 ¹⁾

1) Version with two grub screws

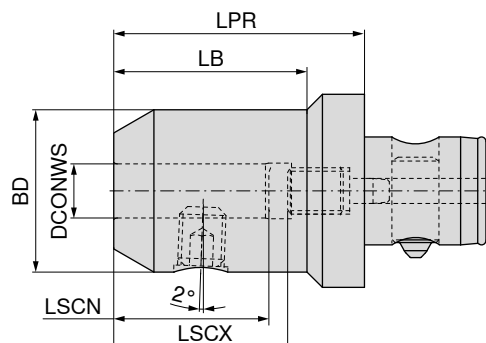
Spare parts
DCONWS

						
				Set		Grubscrew
				CT		CT
				84 950 ...		62 950 ...
6				99900	M6x10	006
8				99900	M8x10	008
10				99900	M10x12	010
12				98600	M12x16	012
12				99900	M12x16	012
14				99900	M12x16	012
14				98600	M12x16	012
16				99900	M14x16	016
16				98600	M14x16	016
18				98600	M14x16	016
18				99900	M14x16	016
20				99900	M16x16	020
20				98600	M16x16	020
20				98500	M16x16	020
25				98500	M18x2x20	025
25				99900	M18x2x20	025
25				98600	M18x2x20	025
32				98500	M20x2x20	032
32				98600	M20x2x20	032

HyPower – Cylindrical shank adapter Whistle Notch – ABS

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

ABS



Adapter	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm
ABS 25	6	55	40	24,9	36	26
ABS 25	8	55	40	28,0	36	26
ABS 25	10	60	45	35,0	40	30
ABS 32	6	55	40	25,0	36	26
ABS 32	8	55	40	28,0	36	26
ABS 32	9	55	40	28,0	36	26
ABS 32	10	60	45	35,0	40	30
ABS 32	12	65	50	42,0	45	35
ABS 32	14	65		42,0	45	35
ABS 40	6	55	35	25,0	36	26
ABS 40	8	55	35	28,0	36	26
ABS 40	10	60	45	35,0	40	30
ABS 40	12	65	50	42,0	45	35
ABS 40	14	65	50	42,0	45	35
ABS 40	16	70	55	48,0	48	38
ABS 40	18	70	55	48,0	48	38
ABS 50	6	55	30	25,0	36	26
ABS 50	8	55	30	28,0	36	26
ABS 50	10	60	40	35,0	40	30
ABS 50	12	65	50	42,0	45	35
ABS 50	13	65	50	42,0	45	35
ABS 50	14	65	50	42,0	45	35
ABS 50	16	70	55	48,0	48	38
ABS 50	18	70	55	48,0	48	38
ABS 50	20	75	60	52,0	50	40
ABS 50	22	75	60	52,0	50	40
ABS 50	25	75	60	52,0	50	40
ABS 63	10	60	35	35,0	40	30
ABS 63	12	65	45	42,0	45	35
ABS 63	14	65	45	42,0	45	35
ABS 63	16	70	50	48,0	48	38
ABS 63	18	70	50	48,0	48	38
ABS 63	20	75	55	52,0	50	40
ABS 63	25	80	65	65,0	56	46
ABS 63	28	80	65	65,0	56	46
ABS 80	25	80	60	65,0	56	46
ABS 80	32	90	70	72,0	60	50

CT

84 220 ...

00690
00890
01090

00689
00889
00989
01089
01289
01489

00688
00888
01088
01288
01488
01688
01888

00697
00897
01097
01297
01397
01497
01697
01897
02097
02297
02597 ¹⁾

01096
01296
01496
01696
01896
02096
02596 ¹⁾
02896 ¹⁾

02592 ¹⁾
03292 ¹⁾

1) Version with two grub screws

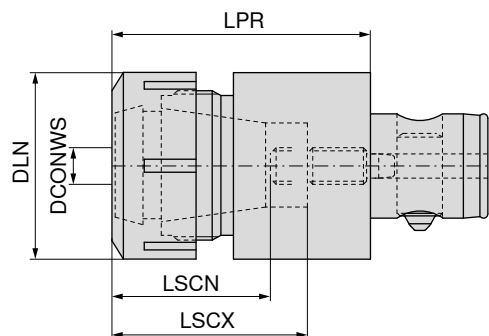
Spare parts DCONWS	 Set		 Grubscrew		 Backstop screw	
	CT		CT		CT	
	84 950 ...		62 950 ...		84 950 ...	
6	98900	M6x10	006	M5x16	20500	
6	98800	M6x10	006	M5x16	20500	
6	98700	M6x10	006	M5x16	20500	
6	99900	M6x10	006	M5x16	20500	
8	98900	M8x10	008	M6x16 - SW2,5	20600	
8	98800	M8x10	008	M6x16 - SW2,5	20600	
8	98700	M8x10	008	M6x16 - SW2,5	20600	
8	99900	M8x10	008	M6x16 - SW2,5	20600	
9	98800	M8x10	008	M8x1x16 - SW3	20800	
10	99900	M10x12	010	M8x1x16 - SW2,5	20700	
10	98900	M10x12	010	M8x1x16 - SW2,5	20700	
10	98800	M10x12	010	M8x1x16 - SW2,5	20700	
10	98700	M10x12	010	M8x1x16 - SW2,5	20700	
10	98600	M10x12	010	M8x1x16 - SW2,5	20700	
12	99900	M12x16	012	M10x1x18 - SW3	20900	
12	98800	M12x16	012	M10x1x18 - SW3	20900	
12	98700	M12x16	012	M10x1x18 - SW3	20900	
12	98600	M12x16	012	M10x1x18 - SW3	20900	
13	99900	M12x16	012	M12x1x17 - SW3	21000	
14	98600	M12x16	012	M12x1x17 - SW3	21000	
14	98800	M12x16	012	M12x1x17 - SW3	21000	
14	98700	M12x16	012	M12x1x17 - SW3	21000	
14	99900	M12x16	012	M12x1x17 - SW3	21000	
16	99900	M14x16	016	M14x1x19 - SW4	21100	
16	98700	M14x16	016	M14x1x19 - SW4	21100	
16	98600	M14x16	016	M14x1x19 - SW4	21100	
18	99900	M14x16	016	M14x1x19 - SW4	21100	
18	98700	M14x16	016	M14x1x19 - SW4	21100	
18	98600	M14x16	016	M14x1x19 - SW4	21100	
20	98600	M16x16	020	M16x1x21 - SW5	21200	
20	99900	M16x16	020	M16x1x21 - SW5	21200	
22	99900	M16x16	020	M16x1x21 - SW5	21200	
25	98600	M16x16	020	M16x1x21 - SW5	21200	
25	99900	M16x16	020	M16x1x21 - SW5	21200	
25	98500	M16x16	020	M16x1x21 - SW5	21200	
28	98600	M18x2x20	025	M16x1x21 - SW5	21200	
32	98500	M20x2x20	032	M20x1x27 - SW8	21300	

HyPower – ER collet chuck – ABS

Scope of supply:

Holder with lock nut and adjustable back stop

ABS



Adapter	for collet	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm
ABS 25	426E (ER16)	1 - 10	40,1	28	31	28
ABS 32	428E (ER20)	1 - 13	52,5	34	39	35
ABS 40	430E (ER25)	1 - 16	62,0	42	46	43
ABS 50	470E (ER32)	2 - 20	69,3	50	51	48
ABS 63	472E (ER40)	3 - 26	78,3	63	55	52

CT

84 224 ...

01690 ¹⁾02089 ¹⁾

02588

03297

04096

¹⁾ with 6 position lock nut

Spare parts for collet

426E (ER16)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Spare parts for collet

426E (ER16)	M22x1,5 - SW25	044	M22x1,5	054	
428E (ER20)	M25x1,5 - SW30		045	M25x1,5	053
430E (ER25)				M32x1,5	055
470E (ER32)				M40x1,5	056
472E (ER40)				M50x1,5	057

HyPower – Quick change tapping chuck with length compensation – ABS

▲ With length compensation under tension and compression (LZD)



Adapter	DCONWS mm	BD mm	LPR mm	SZID
ABS 32	19	39	69	01
ABS 40	19	39	73	01
ABS 50	19	39	72	01
ABS 50	31	60	98	02
ABS 63	31	60	111	02
ABS 63	48	86	160	

CT

84 225 ...

01989

01988

01997

03197

03196

04896

Spare parts
for Article no.

84 225 01989				
84 225 01988				
84 225 01997				
84 225 03197				
84 225 03196				
84 225 04896	25500	98600	99400	27300

Clamping screw	Set	Set	Taper screw	Sealing disc
CT	CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
	98800			
	98700			
	99900			
	99900			
	98600			
	98600			

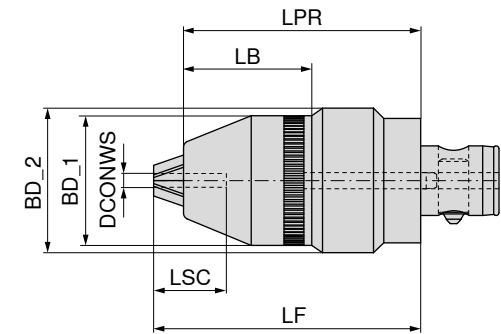
Accessories



HyPower – Short drill chuck – ABS

Scope of supply:
Toolholder including clamping key SW4

ABS



G 6,3 n_{max} 10000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LPR mm	LSC mm	LF mm	LB mm
ABS 50	0,5 - 13	49	57,5	95	29	104,0	51,5
ABS 50	2,5 - 16	52	57,5	95	29	105,5	52,0

CT

84 247 ...

01397

01697

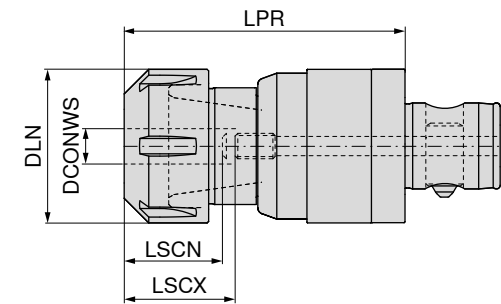
Spare parts
for Article no.

84 247 01397
84 247 01697

 Set	 Positioning pin	 Pendulum bolt	 Coolant pipe
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
99900	20200	20000	20100
99900	20200	20000	20100

HyPower – Synchro tapping chuck – ABS

ABS



Adapter	for collet	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	CT 84 226 ... 02089 02097 03297
ABS 32	ER 20	1 - 13	78,0	34	42	29	
ABS 50	ER 20	1 - 13	85,0	34	42	29	
ABS 50	ER 32	2 - 20	90,5	50	45	31	

Accessories



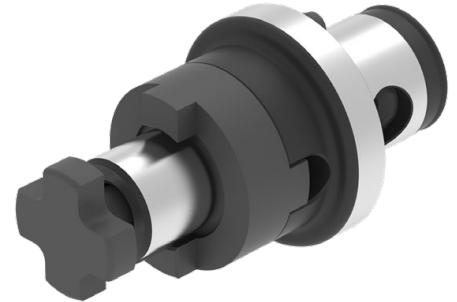
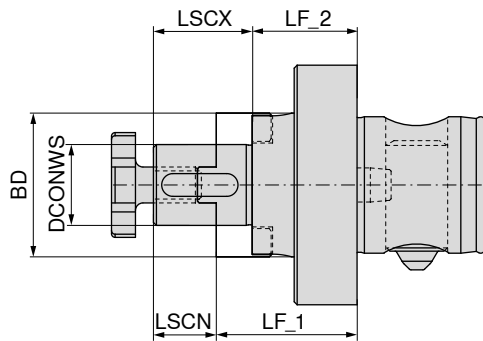
HyPower – Combination shell mill adapter – ABS

▲ 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

ABS



Adapter	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm
ABS 50	16	32	32	22	27	17
ABS 50	22	40	34	22	31	19
ABS 63	16	32	36	26	27	17
ABS 63	22	40	38	26	31	19
ABS 63	27	48	38	26	33	21
ABS 80	22	40	45	33	31	19
ABS 80	27	48	45	33	33	21
ABS 80	32	58	47	33	38	24
ABS 80	40	70	47	33	41	27

CT

84 229 ...

01697

02297

01696

02296

02796

02292

02792

03292

04092

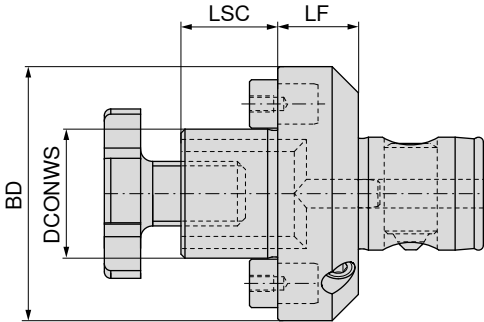
Spare parts DCONWS

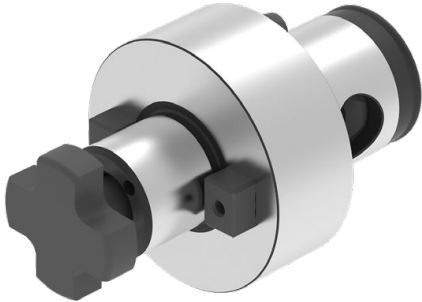
	Set	Parallel key	Drive ring	Cross screw
	CT	CT	CX	CX
	84 950 ...	83 950 ...	83 370 ...	83 367 ...
16	99900	4 x 4 x 20	284	116
16	98600	4 x 4 x 20	284	116
22	98500	6 x 6 x 25	285	122
22	99900	6 x 6 x 25	285	122
22	98600	6 x 6 x 25	285	122
27	98500	7 x 7 x 25	286	127
27	98600	7 x 7 x 25	286	127
32	98500	8 x 7 x 28	287	132
40	98500	10 x 8 x 32	288	140
				M8
				M8
				M10
				M10
				M10
				M12
				M12
				M16
				M20
				016
				016
				022
				022
				022
				027
				027
				032
				040

HyPower – Shell mill adapter – ABS

Scope of supply:
Base body including drive dogs and retaining screw

ABS







Adapter	DCONWS mm	LSC mm	LF mm	BD mm
ABS 50	16	17	20	50
ABS 50	22	19	20	50
ABS 50	27	21	20	50
ABS 50	32	24	20	63
ABS 63	22	19	22	63
ABS 63	27	21	22	63
ABS 63	32	24	22	63
ABS 63	40	27	22	80
ABS 80	27	21	25	80
ABS 80	32	24	25	80
ABS 80	40	27	25	80
ABS 80	40	30	43	88
ABS 100	32	24	25	100
ABS 100	40	30	38	88
ABS 100	40	27	25	100
ABS 100	60	40	56	130

CT

84 228 ...

14092

14091

06091

CT

84 228 ...

01697

02297

02797

03297

02296

02796

03296

04096

02792

03292

04092

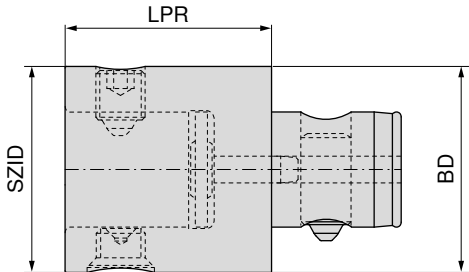
03291

04091

		 Set	 Drive dog	 Driver	 Cross screw
		CT	CT	CT	CX
Spare parts DCONWS		84 950 ...	84 950 ...	83 950 ...	83 367 ...
16		99900			016
22		99900	22900		022
27		98600	23000		027
32		98500	23100		032
32		98400	23100		032
40		98400			040
27		99900	23000		027
32		99900	23100		032
22		98600	22900		022
32		98600	23100		032
40		98600			040
27		98500	23000		027
40		98500			040
40		98400		295	
60		98400		298	
40		98500		295	

HyPower – Extension – ABS

ABS



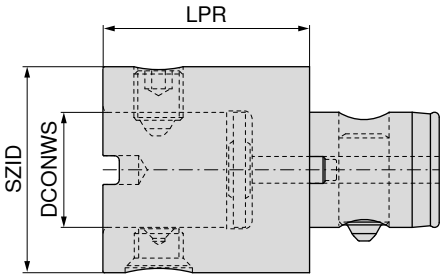
Adapter	SZID	BD mm	LPR mm
ABS 25	ABS 25	25	45
ABS 25	ABS 25	25	60
ABS 32	ABS 32	32	35
ABS 32	ABS 32	32	50
ABS 32	ABS 32	32	70
ABS 40	ABS 40	40	40
ABS 40	ABS 40	40	60
ABS 40	ABS 40	40	90
ABS 50	ABS 50	50	50
ABS 50	ABS 50	50	65
ABS 50	ABS 50	50	100
ABS 50	ABS 50	50	150
ABS 63	ABS 63	63	60
ABS 63	ABS 63	63	85
ABS 63	ABS 63	63	125
ABS 63	ABS 63	63	190
ABS 80	ABS 80	80	70
ABS 80	ABS 80	80	85
ABS 80	ABS 80	80	125
ABS 80	ABS 80	80	240
ABS 100	ABS 100	100	85
ABS 100	ABS 100	100	125
ABS 100	ABS 100	100	160
ABS 125	ABS 125	125	160
ABS 125	ABS 125	125	200

CT
84 209 ...
04590
06090
03589
05089
07089
04088
06088
09088
05097
06597
10097
15097
06096
08596
12596
19096
07092
08592
12592
24092
08591
12591
16091
16085
20085

	 Clamping screw	 Clamping screw	 Set	 Set	 Positioning pin	 Pendulum bolt	 Coolant pipe	 Taper screw
	CT	CT	CT	CT	CT	CT	CT	CT
Spare parts Adapter	62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
ABS 25		26800	98900	99700	23600	26000	24400	27000
ABS 32	13989		98800	99600	23700	26100	24500	27100
ABS 40		26900	98700	99500	23800	26200	24600	27200
ABS 50		20300	99900	99800	20200	20000	20100	20400
ABS 63		25500	98600	99400	23900	26300	24700	27300
ABS 80		25600	98500	99300	24000	26400	24800	25100
ABS 100		25700	98400	99200	24100	26500	24900	25200
ABS 125		25800	98300	99100	24200	26600	25000	25300

HyPower – Extension – ABS N

ABS N



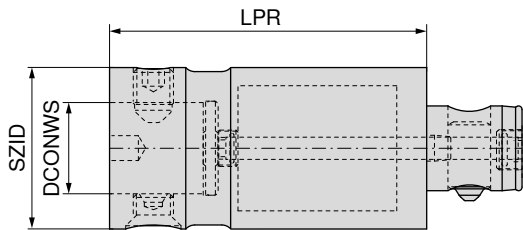
Adapter	SZID	BD mm	LPR mm	CT 84 236 ...
ABS 40 N	ABS 40 N	40	90	09013
ABS 50 N	ABS 50 N	50	65	06512
ABS 63 N	ABS 63 N	63	85	08511
ABS 80 N	ABS 80 N	80	85	08510
ABS 100 N	ABS 100 N	100	125	12509
ABS 100 N	ABS 100 N	100	160	16009

Spare parts
Adapter

	 Clamping screw	 Set	 Set	 Positioning pin	 Positioning pin	 Taper screw	 Sealing disc - ABS
	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...
ABS 40 N	26900	98700	99500	32300	23800	27200	30600
ABS 50 N	20300	99900	99800	31800	20200	20400	30700
ABS 63 N	25500	98600	99400	31900	23900	27300	30800
ABS 80 N	25600	98500	99300	32000	24000	25100	30900
ABS 100 N	25700	98400	99200	32100	24100	25200	31000

HyPower – Extension lightweight construction – ABS

ABS



Adapter	SZID	BD mm	LPR mm	CT 84 237 ...
ABS 63	ABS 63	63	125	12596
ABS 63	ABS 63	63	190	19096
ABS 80	ABS 80	80	170	17092
ABS 100	ABS 100	100	200	20091
ABS 100	ABS 100	100	300	30091

Spare parts
Adapter

Adapter	Clamping screw	Set	Set	Taper screw	Sealing disc - ABS
ABS 63	25500	98600	99400	27300	30800
ABS 80	25600	98500	99300	25100	30900
ABS 100	25700	98400	99200	25200	31000

HyPower – Extension – ABS-N/-T



Adapter	SZID	LPR mm	CT
ABS 50 T	ABS 50 N	100	84 239 ...
ABS 50 T	ABS 50 N	150	10005 15005
ABS 63 T	ABS 63 N	125	12504
ABS 63 T	ABS 63 N	190	19004
ABS 80 T	ABS 80 N	125	12503
ABS 80 T	ABS 80 N	240	24003

Spare parts
Adapter

Adapter	Positioning pin	Positioning pin	drive dogs	Taper screw	Sealing disc - ABS
ABS 50 T	31800	20200	31500	20400	30700
ABS 63 T	31900	23900	31600	27300	30800
ABS 80 T	32000	24000	31700	25100	30900

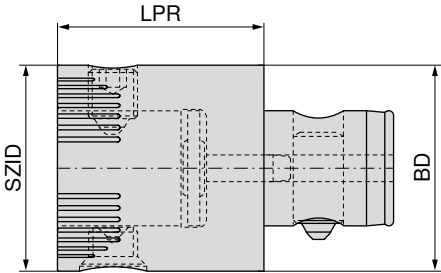
Spare parts
Adapter

Adapter	Cylindrical screw	Clamping screw	Set	Set
ABS 50 T	M3x10 00001	20300	99900	99800
ABS 63 T	M4x12 00002	25500	98600	99400
ABS 80 T	M5x16 00000	25600	98500	99300

HyPower – Torsional vibration dampers with ABS Connection – ABS

Scope of supply:
Base body with sealing disc

ABS



Adapter	SZID	BD mm	LPR mm
ABS 50	ABS 50	50	50
ABS 63	ABS 63	63	60
ABS 80	ABS 80	80	70

CT
84 216 ...
05097
06096
07092

Spare parts
Adapter

ABS 50
ABS 63
ABS 80

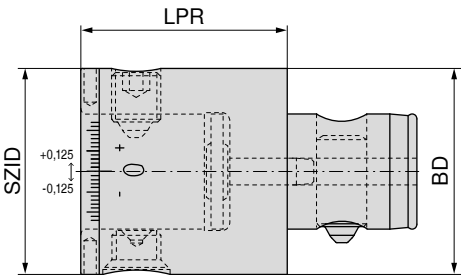
 Clamping screw	 Set	 Set	 Taper screw
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
20300	99900	99800	20400
25500	98600	99400	27300
25600	98500	99300	25100

HyPower – Eccentric adjuster – ABS

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:
Eccentric adjuster with adjuster key Ø 2.8 mm

ABS



Adapter	SZID	BD mm	LPR mm
ABS 50	ABS 50	50	50
ABS 63	ABS 63	63	60

CT
84 217 ...
05097
06096

Spare parts
Adapter

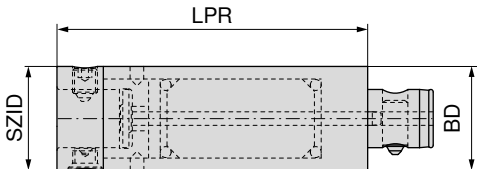
ABS 50	20300	99900	99800	20400
ABS 63	25500	98600	99400	27300

Clamping screw	Set	Set	Taper screw
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
20300	99900	99800	20400
25500	98600	99400	27300

HyPower – Damping element – ABS

- ▲ 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

ABS



Adapter	SZID	BD	LPR	RPMX
		mm	mm	1/min.
ABS 40	ABS 40	40	120	8000
ABS 50	ABS 50	50	150	6300
ABS 63	ABS 63	63	190	5000
ABS 80	ABS 80	80	240	4000

CT
84 218 ...
12088
15097
19096
24092

Spare parts
Adapter

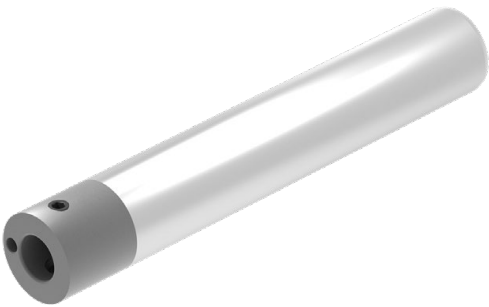
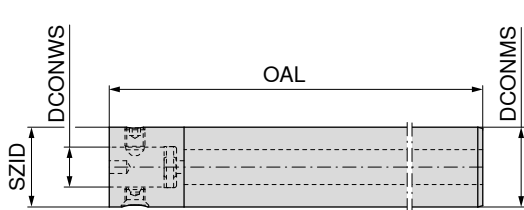
ABS 40	26900	98700	99500	27200
ABS 50	20300	99900	99800	20400
ABS 63	25500	98600	99400	27300
ABS 80	25600	98500	99300	25100

			
Clamping screw	Set	Set	Taper screw
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...

HyPower – Damping element – ABS

- ▲ Suitable for preventing unwanted vibrations in the shrinking tool
- ▲ Suitable for shrinking

ABS



DCONWS	DCONMS	OAL	LS	LSC	SZID
mm	mm	mm	mm	mm	
13	25	185	56	20	ABS 25
13	25	160	56	20	ABS 25
13	25	210	56	20	ABS 25
16	32	230	60	23	ABS 32
16	32	200	60	23	ABS 32
16	32	260	60	23	ABS 32

CT
84 238 ...
18599
16099
21099
23099
20099
26099

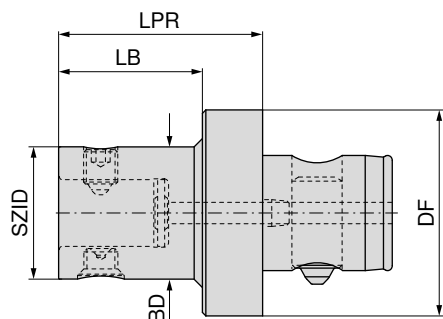
Spare parts
DCONWS

13	
16	M8x1x12/SW4

 Clamping screw	 Clamping screw	 Set	 Taper screw	 Sealing disc - ABS
CT	CT	CT	CT	CT
62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
	26800	99700	27000	30400
	13989	99600	27100	30500

HyPower – Reduction – ABS

ABS



Adapter	SZID	BD mm	DF mm	LPR mm	LB mm
ABS 32	ABS 25	25	32	40	30
ABS 40	ABS 25	25	40	40	28
ABS 40	ABS 32	32	40	40	28
ABS 50	ABS 25	25	50	50	35
ABS 50	ABS 32	32	50	50	35
ABS 50	ABS 40	40	50	50	35
ABS 63	ABS 25	25	63	60	40
ABS 63	ABS 32	32	63	60	40
ABS 63	ABS 40	40	63	60	40
ABS 63	ABS 50	50	63	60	40
ABS 80	ABS 32	32	80	60	35
ABS 80	ABS 40	40	80	60	35
ABS 80	ABS 50	50	80	60	35
ABS 80	ABS 63	63	80	60	35
ABS 100	ABS 50	50	100	80	50
ABS 100	ABS 63	63	100	80	50
ABS 100	ABS 80	80	100	80	50
ABS 125	ABS 80	80	125	100	50
ABS 125	ABS 100	100	125	100	50

CT

84 219 ...

03290

04090

04089

05090

05089

05088

06390

06389

06388

06397

08089

08088

08097

08096

10097

10096

10092

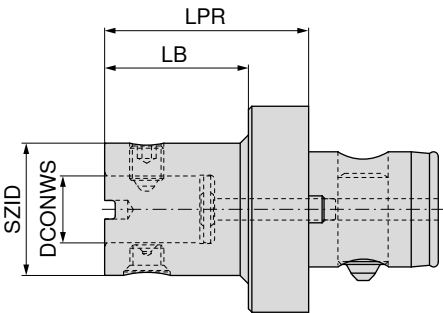
12592

12591

		 Clamping screw	 Clamping screw	 Set	 Set	 Taper screw
		CT	CT	CT	CT	CT
Spare parts SZID		62 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
ABS 25			26800	98800	99700	27000
ABS 25			26800	98700	99700	27000
ABS 32	M8x1x12/SW4	13989		98700	99600	27100
ABS 25			26800	99900	99700	27000
ABS 32	M8x1x12/SW4	13989		99900	99600	27100
ABS 40			26900	99900	99500	27200
ABS 25			26800	98600	99700	27000
ABS 32	M8x1x12/SW4	13989		98600	99600	27100
ABS 40			26900	98600	99500	27200
ABS 50			20300	98600	99800	20400
ABS 32	M8x1x12/SW4	13989		98500	99600	27100
ABS 40			26900	98500	99500	27200
ABS 50			20300	98500	99800	20400
ABS 63			25500	98500	99400	27300
ABS 50			20300	98400	99800	20400
ABS 63			25500	98400	99400	27300
ABS 80			25600	98400	99300	25100
ABS 80			25600	98300	99300	25100
ABS 100			25700	98300	99200	25200

HyPower – Reduction – ABS N

ABS N



Adapter	SZID	BD mm	DF mm	LPR mm	LB mm
ABS 50 N	ABS 40 N	40	50	50	35
ABS 63 N	ABS 50 N	50	63	60	40
ABS 80 N	ABS 50 N	50	80	60	35
ABS 80 N	ABS 63 N	63	80	60	35
ABS 100 N	ABS 50 N	50	100	80	50
ABS 100 N	ABS 80 N	80	100	80	50

CT
84 240 ...
04012
05011
05010
06310
05009
08009

Spare parts
SZID

ABS 40 N
ABS 50 N
ABS 50 N
ABS 50 N
ABS 63 N
ABS 80 N

				
Positioning pin	Pendulum bolt	Coolant pipe	Taper screw	Sealing disc - ABS
CT	CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
20200	20000	20100	27200	30600
20200	26500	24900	20400	30700
20200	26300	24700	20400	30700
20200	26400	24800	20400	30700
24000	26400	24800	27300	30800
24000	26500	24900	25100	30900

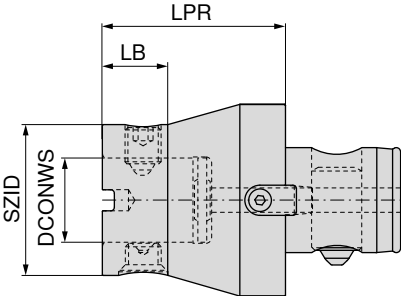
Spare parts
SZID

ABS 40 N
ABS 50 N
ABS 50 N
ABS 50 N
ABS 63 N
ABS 80 N

			
Clamping screw	Set	Set	Positioning pin
CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...
26900	99900	99500	32300
20300	98400	99800	31800
20300	98600	99800	31800
20300	98500	99800	31800
25500	98500	99400	31900
25600	98400	99300	32000

HyPower – Reduction – ABS-N/-T

ABS
N / T







Adapter	SZID	BD mm	DF mm	LPR mm	LB mm
ABS 63 T	ABS 50 N	50	63	60	21
ABS 80 T	ABS 63 N	63	80	60	21

CT

84 240 ...

05004

06303

Spare parts
SZID

ABS 50 N	20200	26300	31600	24700	20400	30700
ABS 63 N	24000	26400	31700	24800	27300	30800

Spare parts
SZID

ABS 50 N	M4x12	00002	20300	98600	99800	31800
ABS 63 N	M5x16	00000	25500	98500	99400	31900

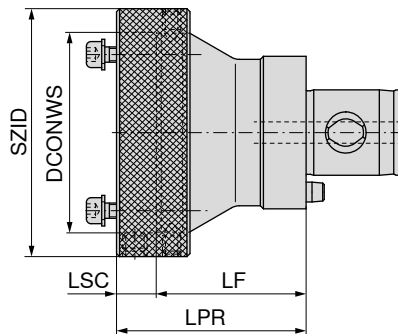
HyPower – Compensation holder – DAH

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

Scope of supply:

DAH compensation holder complete with assembly screws

DAH



Adapter	SZID	DCONWS mm	LSC mm	LPR mm	LF mm	CT 84 329 ...
ABS 63	DAH 115	100	16	70	54	11596
ABS 40	DAH 81	65	12	62	50	08188
ABS 50	DAH 81	65	12	62	50	08197

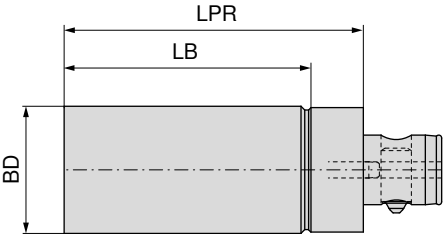
Spare parts for Article no.	Coolant pipe	Grub screw	Spring washer	DAH adjustment ring
	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...
84 329 11596	24700	M8x10 43000	Ø8,4 - M8 42400	DAH 115 42100
84 329 08188	24600	M6x10 42800	Ø5,3 - M5 42300	DAH 81 42000
84 329 08197	20100	M6x10 42800	Ø5,3 - M5 42300	DAH 81 42000

Spare parts for Article no.	Cylindrical screw TwinKom	Clamping screw	Set	Positioning pin	Pendulum bolt
	CT 84 950 ...	FI 62 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...
84 329 11596	M8x30 42600	M8x8 - SW4 14700	98600	23900	26300
84 329 08188	M5x22 42500	M8x6 - SW4 53400	98700	23800	26200
84 329 08197	M5x22 42500	M8x6 - SW4 53400	99900	20200	20000

HyPower – Blank – ABS

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

ABS



Adapter	LPR mm	BD mm	LB mm
ABS 25	70	26	55
ABS 32	80	33	65
ABS 40	100	41	82
ABS 50	120	51	99
ABS 63	150	64	124
ABS 80	180	81	145
ABS 100	200	101	158

CT
84 230 ...
02690
03389
04188
05197
06496
08192
10191

Spare parts Adapter

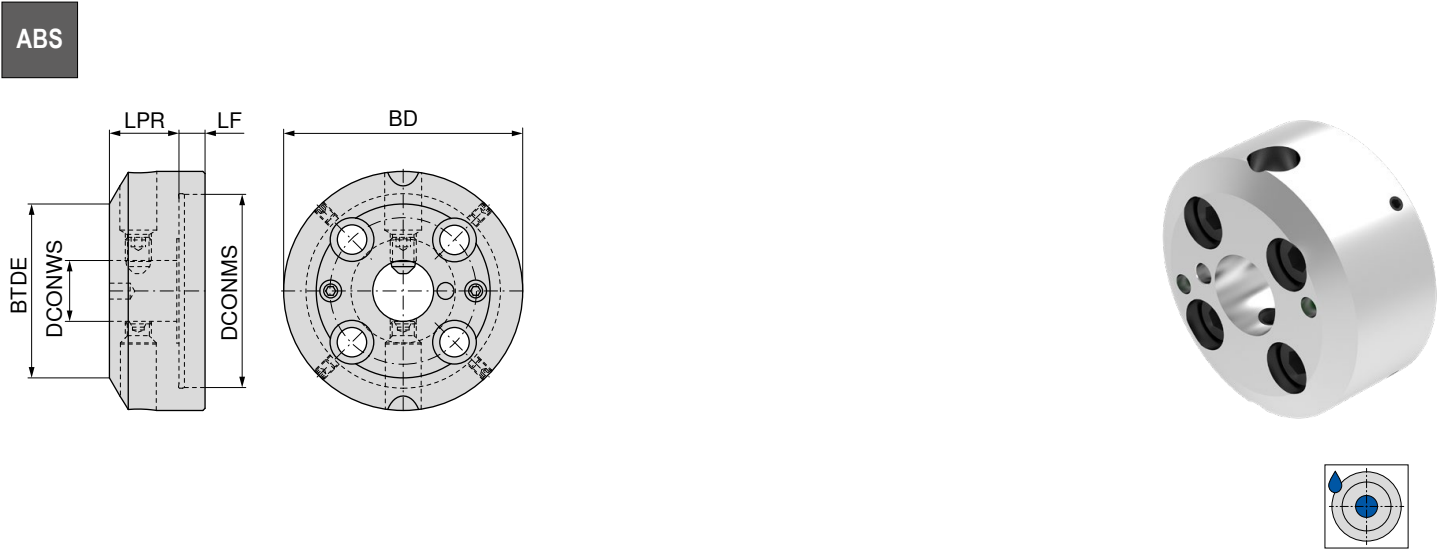
- ABS 25
- ABS 32
- ABS 40
- ABS 50
- ABS 63
- ABS 80
- ABS 100



CT
84 950 ...
98900
98800
98700
99900
98600
98500
98400

HyPower – Spindle attachment flange with ABS connection – ABS

- ▲ for spindle head according to DIN 2079
- ▲ This attachment flange does not have any keyways. Inserted drive dogs on the spindle head must be removed



Adapter	DCONWS	DCONMS	LPR	LF	OAL	BD	BTED	CT 84 242 ... 06380 05079 06379
	mm	mm	mm	mm	mm	mm	mm	
SK 30	34	69,83	40	11	51	90	70	
SK 40	28	88,88	32	12	44	110	80	
SK 40	34	88,88	40	12	52	110	80	

Spare parts
SZID

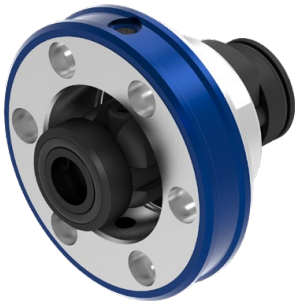
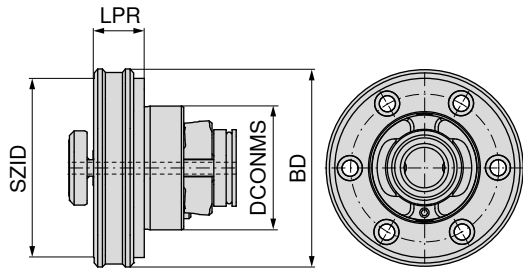
ABS 50	20300	99800	20400	30700
ABS 63	25500	99400	27300	30800

Clamping screw	Set	Taper screw	Sealing disc - ABS
CT 84 950 ...	CT 84 950 ...	CT 84 950 ...	CT 84 950 ...

CoreLine – Mounting flange HSK-REF

▲ radially adjustable using adjustment screw in the machine spindle

Scope of supply:
Complete mounting flange with KOMloc clamp ring, lock ring and pressure piece



AD

SZID	DCONWS mm	DCONMS mm	BD mm	LPR mm	OAL mm
HSK-A 50	50	42	69,2	17,5	51,6

CT

84 241 ...

00258

Spare parts
for Article no.

84 241 00258



Lock ring for twisting

CT

84 243 ...

35000



Ball plunger

CT

84 243 ...

55000



KOMloc clamp

CT

84 243 ...

15000



Fixing screw

CT

10 950 ...

17700

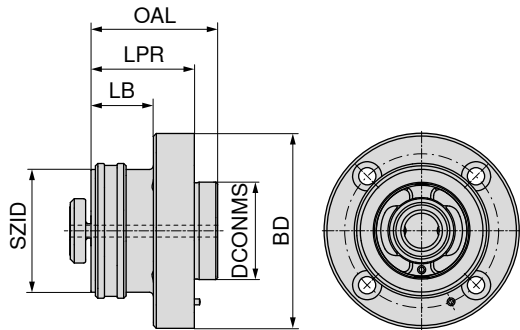
HSK50 - SW4

M5x20

CoreLine – Attachment flange HSK-RVF

▲ radially adjustable using adjustment screws in the machine spindle

Scope of supply:
Complete attachment flange with KOMloc clamp ring and lock ring



AD

SZID	DCONWS mm	DCONMS mm	LB mm	BD mm	LPR mm	OAL mm
HSK-A 50 / HSK-C 50	50	40	26	80	43	53
HSK-A 63 / HSK-C 63	63	50	32	100	53	65

CT
84 241 ...
50058
50157

Spare parts
for Article no.

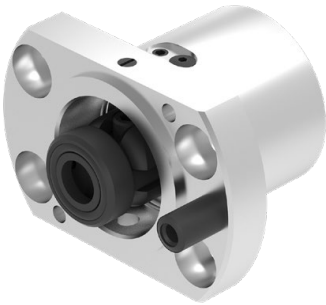
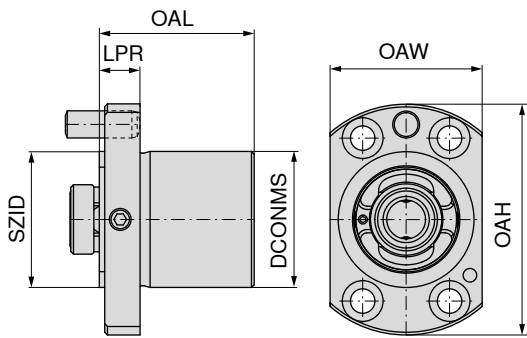
84 241 50058
84 241 50157

 Lock ring for sliding	 KOMloc clamp	 Fixing screw	 Fixing screw
CT	CT	FI	CT
84 243 ...	84 243 ...	10 950 ...	10 950 ...
45000	15000	17600	
46300	16300		17800

CoreLine – Mounting flange HSK-SEFR

Scope of supply:

Mounting flange with KOMloc clamp ring, spring-loaded bolt and cylindrical pin. Please order cylindrical screws for mounting separately



SZID	DCONWS	DCONMS	LB	LPR	OAW	OAH	OAL
mm	mm	mm	mm	mm	mm	mm	mm
HSK-A 50	50	50	2	15	56	85	57

CT
84 241 ...
00158

**Spare parts
for Article no.**

84 241 00158

		
Cylindrical pin	KOMloc clamp	Fixing screw
CT	CT	AS
84 950 ...	84 243 ...	10 950 ...
32200	15000	16800

Lock ring for twisting



Adapter	BD mm
HSK 50	53,4
HSK 63	69,2

CT
84 243 ...
35000
36300

Lock ring for sliding



Adapter	BD mm
HSK 50	55,0
HSK 63	69,2

CT
84 243 ...
45000
46300

CoreLine – HSK vice



IK central

Adapter	MXC kN	TQX Nm	DRVS mm
HSK 50	31	10	4
HSK 63	40	15	5

CT
84 243 ...
15000
16300

Spare parts
for Article no.

84 243 15000
84 243 16300



Threaded spindle

CT
84 950 ...
31100
31200

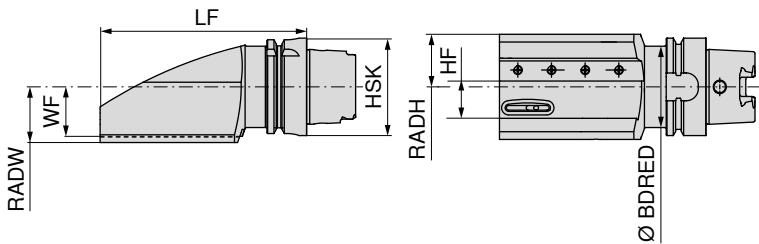
Ball plunger



Adapter	for
HSK 50	HSK 50

CT
84 243 ...
55000

CoreLine – Parting blade holder GX/LX/FX/SX



Illustrations show right-hand versions



Left-hand



Right-hand

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...
HSK-T 63	155	52,6	32	32	37,5	35	XLCF R/L 32...

CT	CT
74 585 ...	74 584 ...
02637	02637
03237	03237

Spare parts
for parting blades

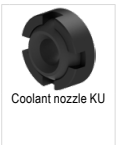
XLCF R/L 26...	23x2,5	292	KU1.U12.005.010	92800	860	M6x12	861
XLCF R/L 32...	23x2,5	292	KU1.U12.005.010	92800	860	M6x12	861



O-Ring

AS

70 950 ...



Coolant nozzle KU

CT

70 950 ...



Clamping wedge

CT

70 950 ...



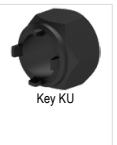
clamping screw

AS

70 950 ...

Spare parts
for parting blades

XLCF R/L 26...			KU1.U12.ER1.020	92900	19x2,5	293
XLCF R/L 32...			KU1.U12.ER1.020	92900	19x2,5	293



Key KU

CT

70 950 ...

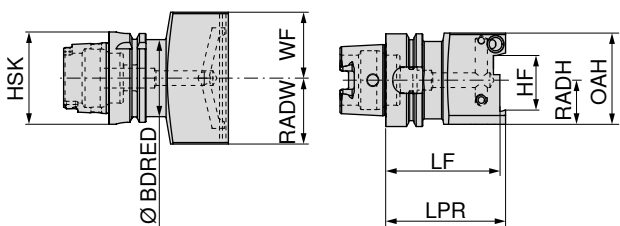


O-Ring

AS

70 950 ...

CoreLine – Parting blade holder GX/LX/FX/SX



radial

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...
HSK-T 63	85,5	80	52,6	45	32	68	45	34	XLCF N 32...

CT
74 586 ...
02637
03237

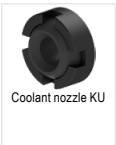
Spare parts
for parting blades

XLCF N 26...	23x2,5	292	KU1.U12.005.010	92800	860	M6x12	861
XLCF N 32...	23x2,5	292	KU1.U12.005.010	92800	860	M6x12	861



O-Ring

AS
70 950 ...



Coolant nozzle KU

CT
70 950 ...



Clamping wedge

CT
70 950 ...

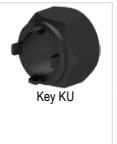


clamping screw

AS
70 950 ...

Spare parts
for parting blades

XLCF N 26...			KU1.U12.ER1.020	92900	19x2,5	293
XLCF N 32...			KU1.U12.ER1.020	92900	19x2,5	293



Key KU

CT
70 950 ...

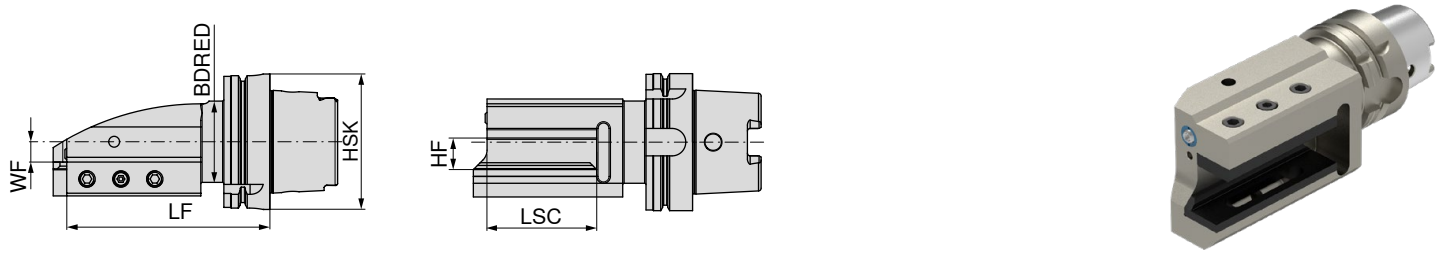


O-Ring

AS
70 950 ...

CoreLine – Square shank holder 0°

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



Illustrations show right-hand versions



Left-hand



Right-hand

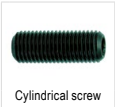
Adapter	LF mm	BDRED mm	WF mm	LSC mm	HF mm
HSK-T 63	145	52,6	15	80	20 / 25 / 32
HSK-T 100	150	60,0	15	80	20 / 25 / 32

CT
74 571 ...
02537
02535

CT
74 570 ...
02537
02535

Spare parts

Adapter



CT

83 950 ...



CT

62 950 ...



CT

70 950 ...



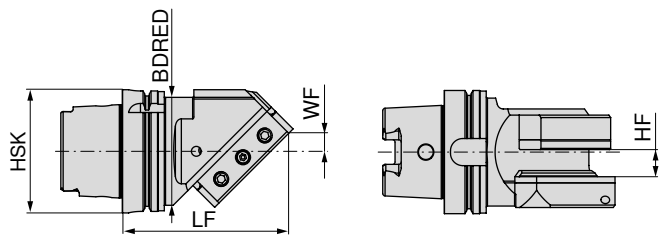
CT

70 950 ...

HSK-T 63	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800
HSK-T 100	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800

CoreLine – Square shank holder 45°

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



Illustrations show right-hand versions



Left-hand



Right-hand

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

CT
74 573 ...
02537
02535

CT
74 572 ...
02537
02535

Spare parts
Adapter



Cylindrical screw

CT

83 950 ...



Clamping screw

CT

62 950 ...



Key KU

CT

70 950 ...



Coolant nozzle KU

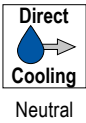
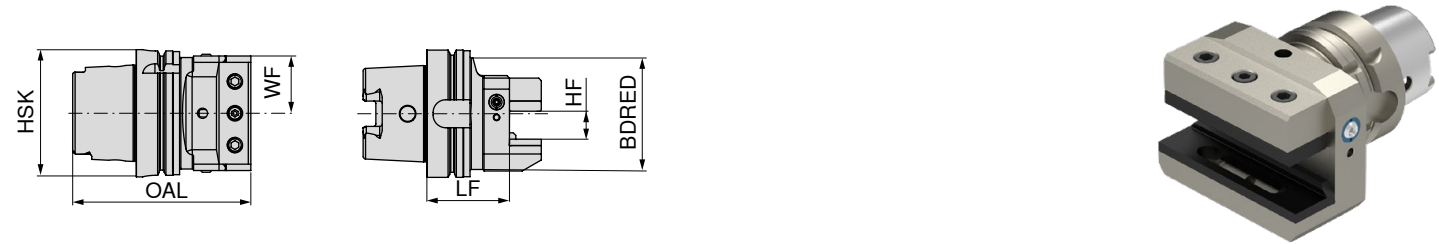
CT

70 950 ...

HSK-T 63	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800
HSK-T 100	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800

CoreLine – Square shank holder 90°

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



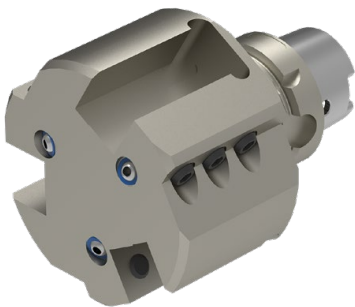
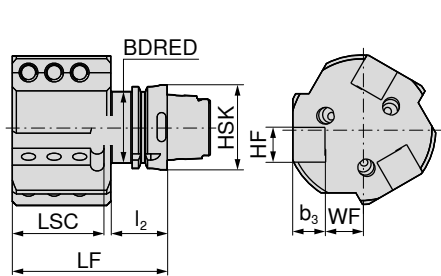
Adapter	LF mm	BDRED mm	WF mm	OAL mm	HF mm
HSK-T 63	60	52,6	45	117	20 / 25 / 32
HSK-T 100	65	87,6	45	140	20 / 25 / 32

CT
74 575 ...
02537
02535

Spare parts
Adapter

													
		Cylindrical screw			Clamping screw			Key KU			Coolant nozzle KU		
		CT			CT			CT			CT		
Spare parts		83 950 ...			62 950 ...			70 950 ...			70 950 ...		
Adapter													
HSK-T 63	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800					
HSK-T 100	M5x5 - SW2,5	157	M12x16 - SW6	51100	KU1.U12.ER1.020	92900	KU1.U12.005.010	92800					

CoreLine – Square shank holder 3 face 0°



Left-hand

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

Spare parts
Adapter

		AS		AS		CT		CT	
		70 950 ...		70 950 ...		70 950 ...		70 950 ...	
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



Protection plugs

AS

70 950 ...



Nozzle

AS

70 950 ...



Hollow key with nose

CT

70 950 ...

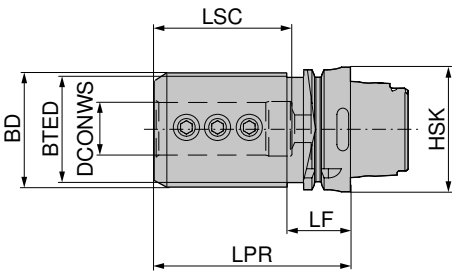


Grubscrew

CT

70 950 ...

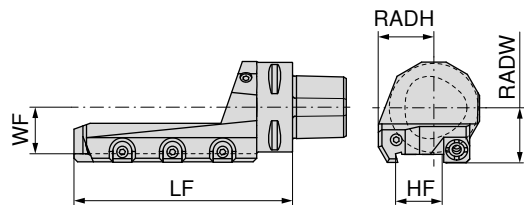
CoreLine – Boring bar holder



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

CT
74 577 ...
508
510
512
516
520
525
532
720
725
732
740
750

CoreLine – Parting blade holder GX/LX/FX/SX



Diagrams show right hand versions



Left-hand

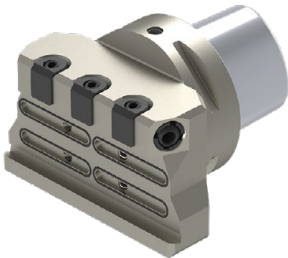
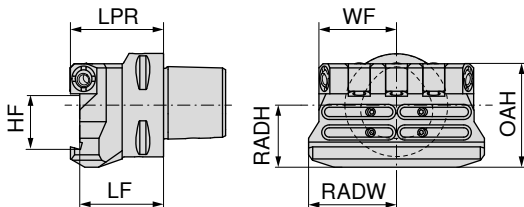


Right-hand

Adapter	LF mm	WF mm	HF mm	RADW mm	RADH mm	for parting blades
PSC 40	122	21	26	25,5	31	XLCF N 26...
PSC 50	122	26	26	30,5	31	XLCF N 26...
PSC 63	160	32	32	36,5	37	XLCF N 32...

CT	CT
84 617 ...	84 617 ...
32695	22695
32694	22694
33293	23293

CoreLine – Parting blade holder GX/LX/FX/SX



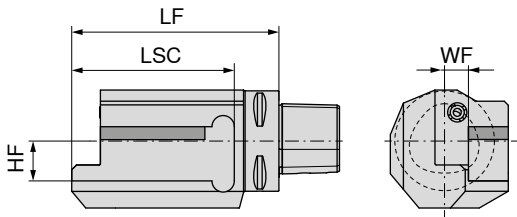
radial

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...
PSC 50	40,5	45	37,5	26	50	42,5	30	XLCF N 26...
PSC 63	45,5	50	40,0	32	57	45,0	35	XLCF N 32...

CT
84 617 ...
62695
62694
63293

CoreLine – Square shank holder 0°

- ▲ Suitable for tool holders with PSC 63 – HF = 20 / 25 mm / PSC 80 – HF = 25 mm
- ▲ These HF values can be achieved by removing the clamping block



Diagrams show right hand versions



Left-hand



Right-hand

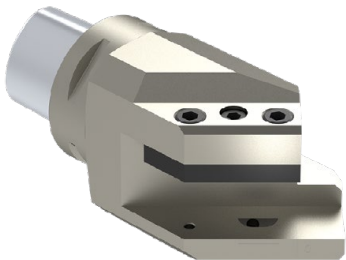
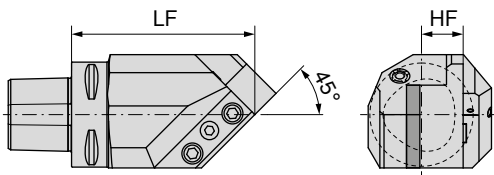
Adapter	LF mm	WF mm	LSC mm	HF mm
PSC 63	130	15	102	20 / 25
PSC 80	130	15	88	25

CT
84 616 ...
32593
32586

CT
84 616 ...
22593
22586

CoreLine – Square shank holder 45°

- ▲ 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

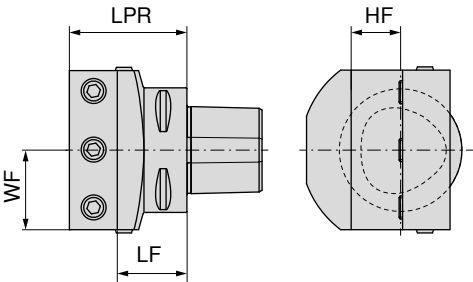
Adapter	LF mm	HF mm
PSC 50	85	20
PSC 63	110	20 / 25

CT
84 616 ...
02094
02593

CT
84 616 ...
12094
12593

CoreLine – Square shank holder 90°

- ▲ 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	35	30	20
PSC 63	46	40	20 / 25

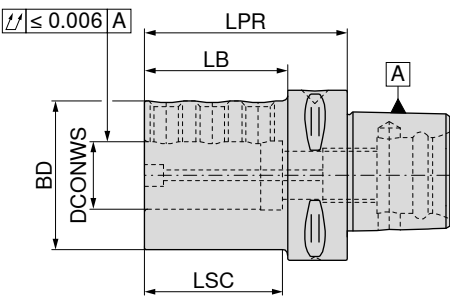
CT

84 616 ...

62095

62593

CoreLine – Boring bar holder

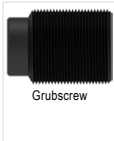


Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm
PSC 50	6	70	40	50	40
PSC 50	8	70	44	50	40
PSC 50	10	70	44	50	45
PSC 50	12	70	44	50	45
PSC 50	16	75	44	55	45
PSC 50	20	75	50	55	51
PSC 50	25	80	55	60	51
PSC 50	32	90	63	70	60
PSC 63	6	75	40	53	40
PSC 63	8	75	44	53	40
PSC 63	10	75	44	53	45
PSC 63	12	75	44	53	45
PSC 63	16	75	44	53	45
PSC 63	20	75	50	53	51
PSC 63	25	75	55	53	51
PSC 63	32	75	72	52	60
PSC 63	40	105	70	82	90

CT
82 268 ...
10694
10894
11094
11294
11694
12094
12594
13294
10693
10893
11093
11293
11693
12093
12593
13293
14093

Spare parts
DCONWS

6
8
10
12 - 40



CT
83 950 ...
461
466
470
475

Accessories



Coolant transfer pipe

→

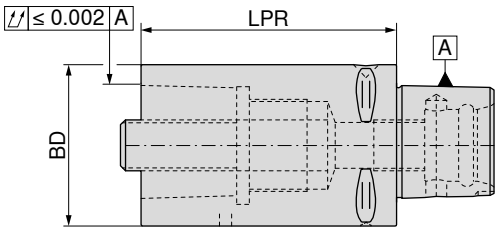


Others

→

CoreLine – Extensions

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



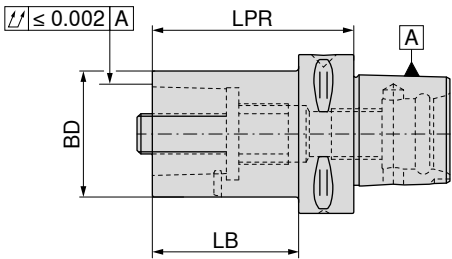
Adapter			CT	
Adapter	BD mm	LPR mm	84 620 ...	
PSC 40	40	60	06095	
PSC 40	40	80	08095	
PSC 50	50	80	08094	
PSC 50	50	100	10094	
PSC 63	63	100	10093	
PSC 63	63	140	14093	
PSC 80	80	100	10086	
PSC 80	80	125	12586	

Spare parts
Adapter

Threaded ring		tightening screw	
CT		CT	
84 950 ...		84 950 ...	
PSC 40	53900	SW8	53400
PSC 50	54000	SW14	53500
PSC 63	54100	SW14	53600
PSC 80	54100	SW14	53600

CoreLine – Cylindrical reduction

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



Adapter	BD mm	LPR mm	LB mm	CT 84 624 ...	
PSC 40	32	55	28	03295	
PSC 50	40	65	36	04094	
PSC 63	40	80	53	04093	
PSC 63	50	80	51	05093	
PSC 80	40	70	30	04086	
PSC 80	50	80	43	05086	
PSC 80	63	80	50	06386	

Spare parts
for Article no.

84 624 03295	54200	SW8	53800
84 624 04094	53900	SW8	53400
84 624 04093	53900	SW8	53400
84 624 05093	54000	SW14	53500
84 624 04086	53900	SW8	53400
84 624 05086	54000	SW14	53500
84 624 06386	54100	SW14	53600



Threaded ring

CT 84 950 ...
54200
53900
53900
54000
53900
54000
54100

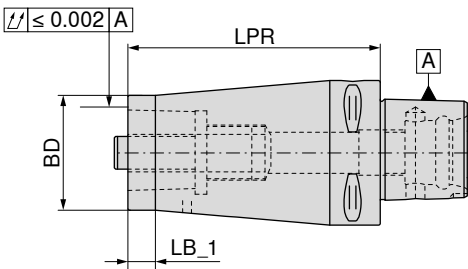


tightening screw

CT 84 950 ...
53800
53400
53400
53500
53400
53500
53600

CoreLine – Tapered reduction

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



Adapter	BD mm	LPR mm	LB_1 mm
PSC 40	32	70	8
PSC 50	40	85	10
PSC 63	50	110	10
PSC 80	63	120	10

CT
84 625 ...
03295
04094
05093
06386

Spare parts Adapter

PSC 40
PSC 50
PSC 63
PSC 80



Threaded ring

CT
84 950 ...
54200
53900
54000
54100

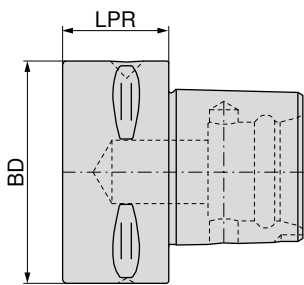


tightening screw

CT
84 950 ...
53800
53400
53500
53600

SW8	53800
SW8	53400
SW14	53500
SW14	53600

CoreLine – Sealing plugs



Adapter	BD mm	LPR mm
PSC 40	40	28
PSC 50	50	28
PSC 63	63	30
PSC 80	80	38

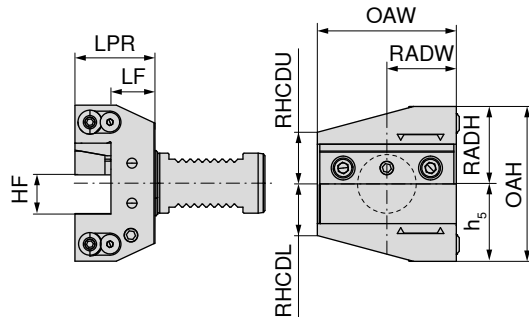
CT
82 317 ...
04095
05094
06393
08086

Accessories

	
Coolant transfer pipe	Others
→	→

CoreLine – Radial tool holders – B1 / B2 / B3 / B4

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



double

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm	CT
VDI 20	16	16	30	55	30	30,0	30	60	22	22	82 245 ...
VDI 20	16	26	40	55	30	30,0	30	60	22	22	01629 51629
VDI 25	16	16	30	55	30	30,0	30	60	22	22	01628
VDI 30	20	22	40	70	39	35,0	39	78	26	26	02027
VDI 40	25	22	44	85	47	42,5	47	94	33	33	02526
VDI 50	25	22	44	98	55	50,0	55	110	42	42	02525

Spare parts Adapter

	CX 82 950 ...	CX 82 950 ...	CX 82 950 ...	CX 82 950 ...	CT 82 250 ...
VDI 20	31000	31400	32600	30600	05300
VDI 25	31000	31400	32600	30600	05300
VDI 30	31100	31500	32700	30700	06750
VDI 40	31100	31500	32800	30700	08300
VDI 50	31200	31600	32800	30800	09000

Spare parts Adapter

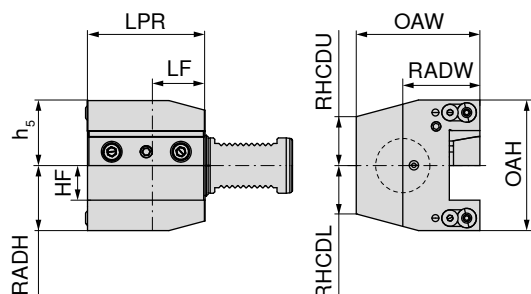
	CX 82 950 ...	CT 82 250 ...	CX 82 950 ...	CX 82 950 ...
VDI 20	32900	15300	31800	
VDI 25	32900	15300	31800	
VDI 30	33000	16750		31900
VDI 40	33000	18300		32100
VDI 50	33000	19000		32100

 Screw for nozzle	 O-Ring	 O-Ring	 Ball-shaped spray nozzle	 Clamping wedge
CX 82 950 ...	CX 82 950 ...	CX 82 950 ...	CX 82 950 ...	CT 82 250 ...
31000	31400	32600	30600	05300
31000	31400	32600	30600	05300
31100	31500	32700	30700	06750
31100	31500	32800	30700	08300
31200	31600	32800	30800	09000

 Cylindrical screw	 Shim	 Clamping wedge screw	 Clamping wedge screw
CX 82 950 ...	CT 82 250 ...	CX 82 950 ...	CX 82 950 ...
32900	15300	31800	
32900	15300	31800	
33000	16750		31900
33000	18300		32100
33000	19000		32100

CoreLine – Axial tool holders – C1 / C2 / C3 / C4

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



double

CT

Adapter	HF _{0/-0,1} mm	LF mm	LPR mm	OAW mm	RADH mm	RADW mm	h_s mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	30	70	74	39	39,0	39	78	26	26
VDI 40	25	30	85	94	47	52,5	47	94	35	35
VDI 50	25	30	85	105	50	63,0	50	100	42	42

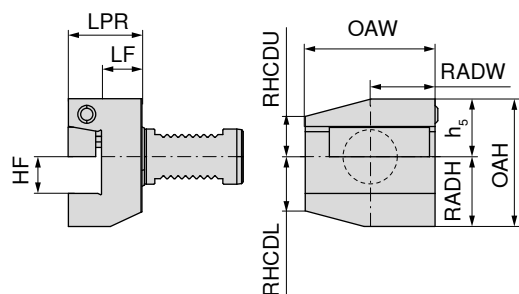
82 246 ...
02027
02526
02525

Spare parts Adapter

	Cylindrical screw CX 82 950 ...	Shim CT 82 250 ...	Clamping wedge screw CX 82 950 ...	Screw for nozzle CX 82 950 ...	O-Ring CX 82 950 ...	O-Ring CX 82 950 ...	Ball-shaped spray nozzle CX 82 950 ...	Clamping wedge CT 82 250 ...
VDI 30	33000	16750	31900	31100	31500	32700	30700	06750
VDI 40	33000	18300	32100	31200	31600	32800	30800	08300
VDI 50	33000	18300	32100	31200	31600	32800	30800	08300

CoreLine – Radial tool holders – B1 / B4

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



double

Adapter	HF _{0/-0,1} mm	LF _{0/+0,5} mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	22	40	70,0	38	35,0	31,5	69,5	29,5	22
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	43,0	30

CT
82 247 ...
02027
02526
02525

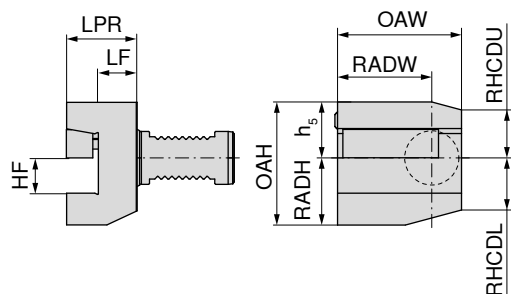
Spare parts Adapter

VDI 30
VDI 40
VDI 50

 Cylindrical screw	 Clamping wedge screw	 Screw for nozzle	 O-Ring	 Ball-shaped spray nozzle	 Clamping wedge
CX	CX	CX	CX	CX	CT
82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 250 ...
33000	32200	31100	31500	30700	05400
33000	32100	31200	31600	30800	06800
33000	32100	31200	31600	30800	06800

CoreLine – Radial tool holders – B2 / B3

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



double

Adapter	HF mm 0/+0,1	LF mm 0/+0,5	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	22	40	70,0	38	35,0	31,5	69,5	29,5	27
VDI 40	25	22	44	85,0	48	42,5	38,0	86,0	35,0	30
VDI 50	25	22	44	92,5	48	50,0	43,0	91,0	35,0	38

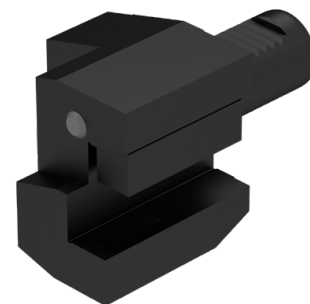
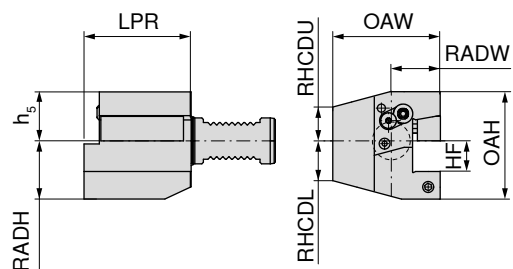
CT
82 247 ...
12027
12526
12525

Spare parts Adapter

	Cylindrical screw	Clamping wedge screw	Screw for nozzle	O-Ring	Ball-shaped spray nozzle	Clamping wedge
	CX	CX	CX	CX	CX	CT
	82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 250 ...
VDI 30	33000	31900	31100	31500	30700	05400
VDI 40	33000	32100	31200	31600	30800	06800
VDI 50	33000	32100	31200	31600	30800	06800

CoreLine – Axial tool holders – C1 / C4

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



double

Adapter	HF _{0/-0,1} mm	LPR mm	OAW mm	RADH mm	RADW mm	h _s mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	20	70	70,0	38	35,0	32	70	26	22
VDI 40	25	85	85,0	48	42,5	38	86	35	30
VDI 50	25	85	90,5	48	48,0	44	92	42	35

CT
82 248 ...
02027
02526
02525

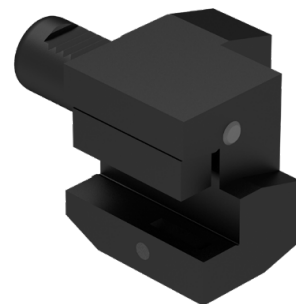
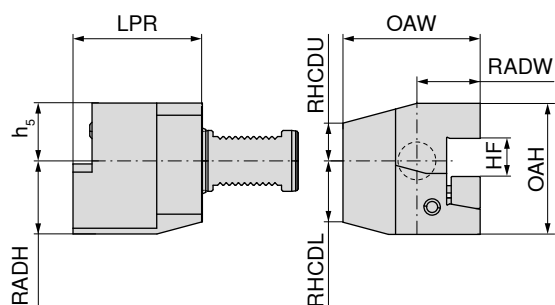
Spare parts Adapter

	Cylindrical screw	Clamping wedge screw	Screw for nozzle	O-Ring	Ball-shaped spray nozzle	Clamping wedge
VDI 30	33000	31900	31100	31500	30700	05400
VDI 40	33000	32100	31200	31600	30800	06800
VDI 50	33000	32100	31200	31600	30800	06800

					
CX	CX	CX	CX	CX	CT
82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 950 ...	82 250 ...

CoreLine – Axial tool holders – C2 / C3

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



double

CT

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

82 248 ...

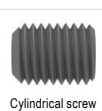
12027

12526

12525

Spare parts Adapter

	Cylindrical screw	Clamping wedge screw	Screw for nozzle	O-Ring	Ball-shaped spray nozzle	Clamping wedge
VDI 30	33000	31900	31100	31500	30700	05400
VDI 40	33000	32100	31200	31600	30800	06800
VDI 50	33000	32100	31200	31600	30800	06800



Cylindrical screw

CX

82 950 ...



Clamping wedge screw

CX

82 950 ...



Screw for nozzle

CX

82 950 ...



O-Ring

CX

82 950 ...



Ball-shaped spray nozzle

CX

82 950 ...



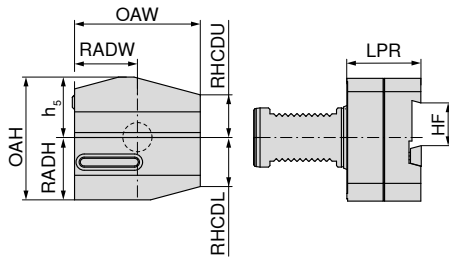
Clamping wedge

CT

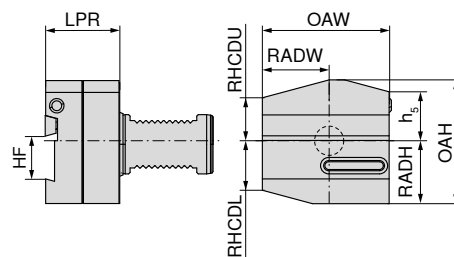
82 250 ...

CoreLine – Parting blade holder

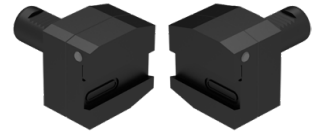
- ▲ Double tooth profile for normal and overhead applications
- ▲ for parting blades with DirectCooling
- ▲ can be used up to 100 bar



Left-hand



Right-hand



Left-hand



Right-hand

Adapter	HF mm	LPR mm	OAW mm	RADH mm	RADW mm	h ₅ mm	OAH mm	RHCDL mm	RHCDU mm
VDI 30	26	50	70	37	35,0	32	69	30	25
VDI 40	32	50	85	40	42,5	43	83	31	31
VDI 40	26	50	85	40	42,5	43	83	31	31
VDI 50	32	50	100	45	50,0	43	88	37	35

CT	CT
82 249 ... 12627	82 249 ... 02627
13226 12626	03226 02626
13225	03225

Spare parts for Article no.

	CX	CX	CX	CX	CX	CX	CT
82 249 02627 / 82 249 12627	33000	31800	32100	31300	32400	31700	07000
82 249 03226	33000	31800	32300	31100	32500	31500	08500
82 249 13226	33000	31800	32100	31100	32500	31500	08500
82 249 02626 / 82 249 12626	33000	31800	32300	31100	32400	31500	08500
82 249 03225	33000	31800	32100	31200	32500	31600	10000
82 249 13225	33000	31800	32100	31100	32500	31500	10000



Cylindrical screw



Clamping wedge screw



Clamping wedge screw



Screw for nozzle



Quad ring



O-Ring



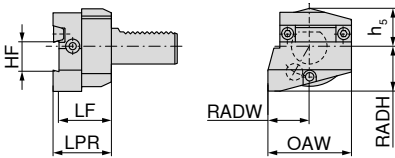
Ball-shaped spray nozzle



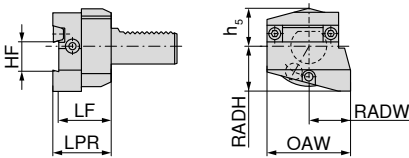
Clamping wedge

CoreLine – Parting blade holders, height adjustable

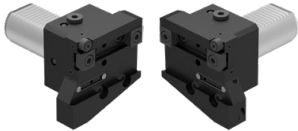
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



Left-hand



Right-hand



Left-hand



Right-hand

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

CX	CX
82 237 ...	82 236 ...
300	300
302	302
040	040
400	400

Spare parts
for Article no.

82 236 300 / 82 237 300
82 236 400 / 82 237 400



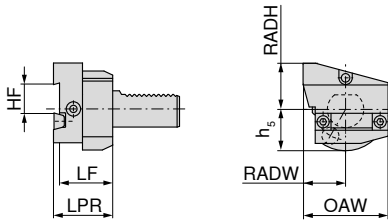
CT

83 950 ...

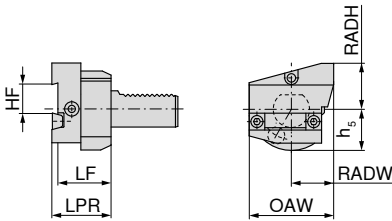
207
208

CoreLine – Parting blade holders, height adjustable, overhead

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



Left-hand



Right-hand



Left-hand



Right-hand

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

CX	CX
82 243 ...	82 242 ...
300	300
302	302
040	040
400	400

Spare parts
for Article no.

82 242 300 / 82 243 300
82 242 400 / 82 243 400



O-Ring

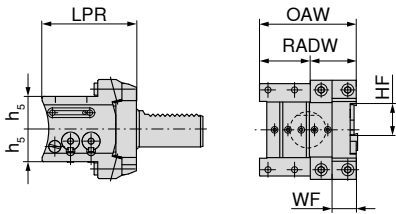
CT

83 950 ...

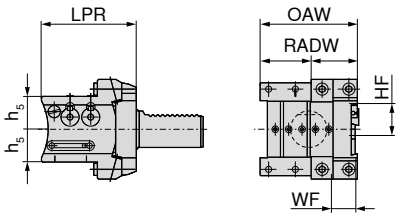
207
208

CoreLine – Parting blade holders, height adjustable

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



Universal-overhead



Universal



Universal-overhead



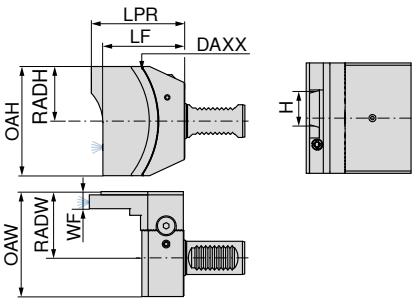
Universal

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

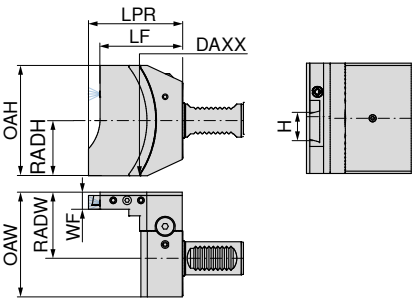
CX	CX
82 244 ...	82 238 ...
300	300
400	400
402	402

CoreLine – Parting blade holder

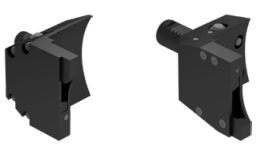
▲ doubles = reciprocally interlocked VDI shank



double – overhead



double





double – overhead



double

Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm
VDI 20	85,5	75	94	47	85	60	15,5	176	26
VDI 30	85,5	75	100	50	95	60	15,5	176	32
VDI 30	85,5	75	100	50	95	60	15,5	176	26
VDI 40	88,5	78	100	50	95	60	15,5	176	32
VDI 40	88,5	78	100	50	95	60	15,5	176	26

CX

83 227 ...

02629 ¹⁾

03227 ¹⁾

02627 ¹⁾

03226 ¹⁾

02626 ¹⁾

CX

83 226 ...

02629 ¹⁾

03227 ¹⁾

02627 ¹⁾

03226 ¹⁾

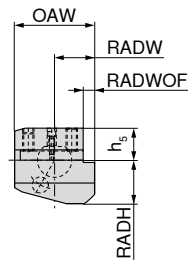
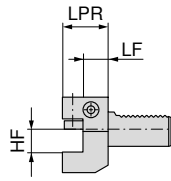
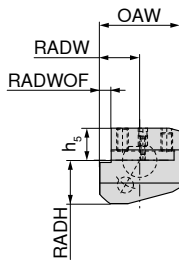
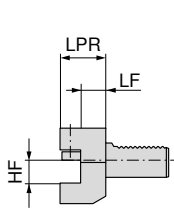
02626 ¹⁾

1) Not ex-stock



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

CoreLine – Radial tool holders, short


B2

Left-hand

B1

Right-hand

B2

Left-hand

B1

Right-hand

Adapter	HF mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF mm	LPR mm
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30
VDI 20	16	55	30,0	7,0	25,0	30	25,5	40
VDI 30	20	70	35,0	10,0	28,0	38	18,5	40
VDI 30	20	70	35,0	10,0	28,0	38	42,0	60
VDI 30	20	70	35,0	10,0	28,0	35	32,0	50
VDI 40	25	85	42,5	12,5	32,5	48	18,5	44
VDI 50	32	100	50,0	16,0	35,0	60	30,0	55

1) Height adjustable +/- 1 mm

CX

82 189 ...

CX

82 185 ...

160

160

201

201

200

200

 202 ¹⁾

 202 ¹⁾

 203 ¹⁾

300

300

301

301

 302 ¹⁾

400

400

500

500

Spare parts for Article no.

82 185 160 / 82 189 160
82 185 201 / 82 189 201
82 185 200 / 82 189 200
82 185 202
82 189 202
82 185 203
82 185 300 / 82 189 300
82 185 301 / 82 189 301
82 185 302
82 185 400 / 82 189 400
82 185 500 / 82 189 500



Shim



O-Ring

CT

83 950 ...

CT

83 950 ...

205

212

206

206

212

206

212

206

213

206

212

206

214

207

214

207

214

207

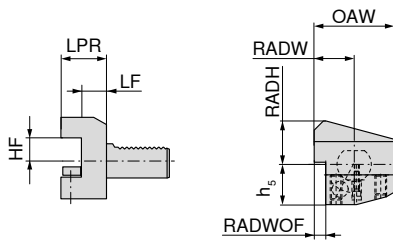
218

208

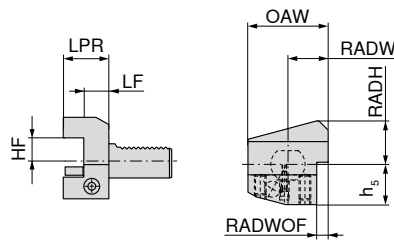
220

209

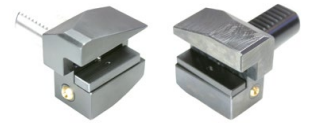
CoreLine – Radial tool holders, overhead, short

**B4**

Left-hand

**B3**

Right-hand

**B4**

Left-hand

B3

Right-hand

Adapter	HF mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF mm	LPR mm
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40
VDI 20	16	55	30,0	7,0	25,0	30	18,5	30
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40
VDI 30	20	70	35,0	10,0	35,0	38	18,5	40
VDI 40	25	85	42,5	12,5	42,5	48	18,5	44
VDI 50	32	100	50,0	16,0	50,0	60	30,0	55

1) Height adjustable +/- 1 mm

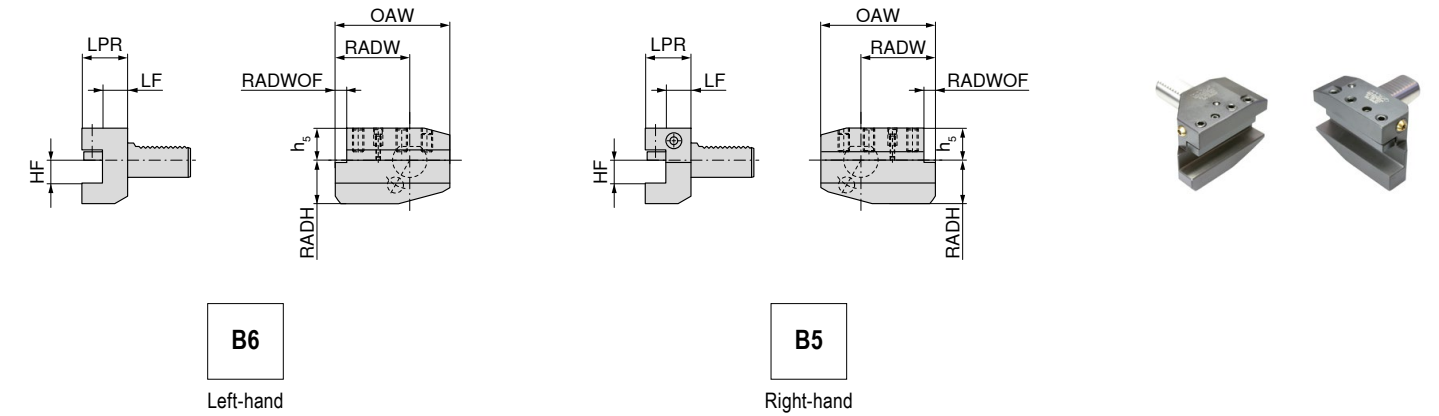
CX	CX
82 196 ...	82 193 ...
	160
201	201
202 ¹⁾	202 ¹⁾
203 ¹⁾	203 ¹⁾
300	300
400	400
500	500

Spare parts for Article no.

82 193 160
82 193 201 / 82 196 201
82 193 202 / 82 196 202
82 193 203 / 82 196 203
82 193 300 / 82 196 300
82 193 400 / 82 196 400
82 193 500 / 82 196 500

	
Shim	O-Ring
CT	CT
83 950 ...	83 950 ...
	205
212	206
212	206
212	206
214	207
218	208
220	209

CoreLine – Radial tool holders, long



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

B6 Left-hand	CX	82 202 ...	B5 Right-hand	CX	82 199 ...
		201			201
					202 ¹⁾
		300			300
		400			400
		500			500

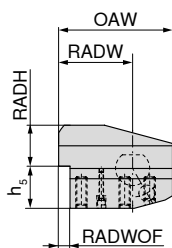
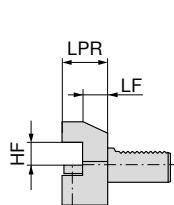
1) Height adjustable +/- 1 mm

Spare parts
for Article no.

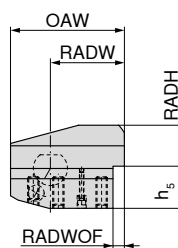
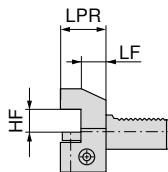
82 199 201 / 82 202 201				
82 199 202				
82 199 300 / 82 202 300				
82 199 400 / 82 202 400				
82 199 500 / 82 202 500				

Shim	CT	83 950 ...	O-Ring	CT	83 950 ...
		215			206
		215			206
		217			207
		219			208
		222			209

CoreLine – Radial tool holders, overhead, long


B8

Left-hand


B7

Right-hand


B8

Left-hand

B7

Right-hand

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

1) Height adjustable +/- 1 mm

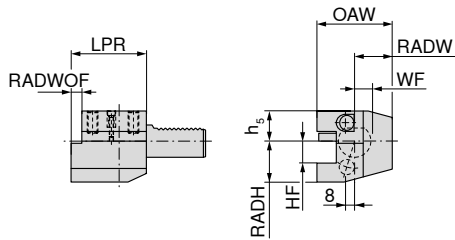
CX	CX
82 208 ...	82 205 ...
200	200
	202 ¹⁾
300	301
	300
400	400
500	500

Spare parts for Article no.

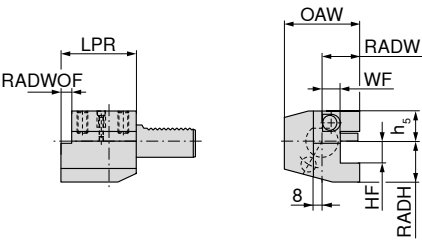
82 205 200 / 82 208 200
82 205 202
82 205 301
82 205 300 / 82 208 300
82 205 400 / 82 208 400
82 205 500 / 82 208 500

Shim	O-Ring
CT	CT
83 950 ...	83 950 ...
215	206
215	206
217	207
217	207
219	208
222	209

CoreLine – Axial tool holders



C2
Left-hand



C1
Right-hand



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

1) Height adjustable +/- 1 mm

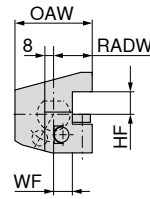
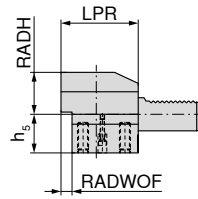
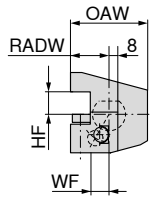
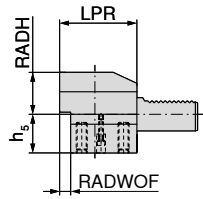
C2 Left-hand	C1 Right-hand
CX	CX
82 214 ...	82 211 ...
	160
	202 1)
200	201
300	300
	400
400	
500	500

Spare parts
for Article no.

82 211 160
82 211 202
82 211 201 / 82 214 200
82 214 300
82 211 300
82 211 400
82 214 400
82 214 500
82 211 500

	
Shim	O-Ring
CT	CT
83 950 ...	83 950 ...
	205
210	206
211	206
214	207
214	207
218	208
218	208
220	209
220	209

CoreLine – Axial tool holders, overhead


C4

Left-hand

C3

Right-hand

C4

Left-hand

C3

Right-hand

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

CX	CX
82 220 ...	82 217 ...
	160
	202 ¹⁾
200	201
201 ¹⁾	
	300
300	
	400
400	
	500
500	

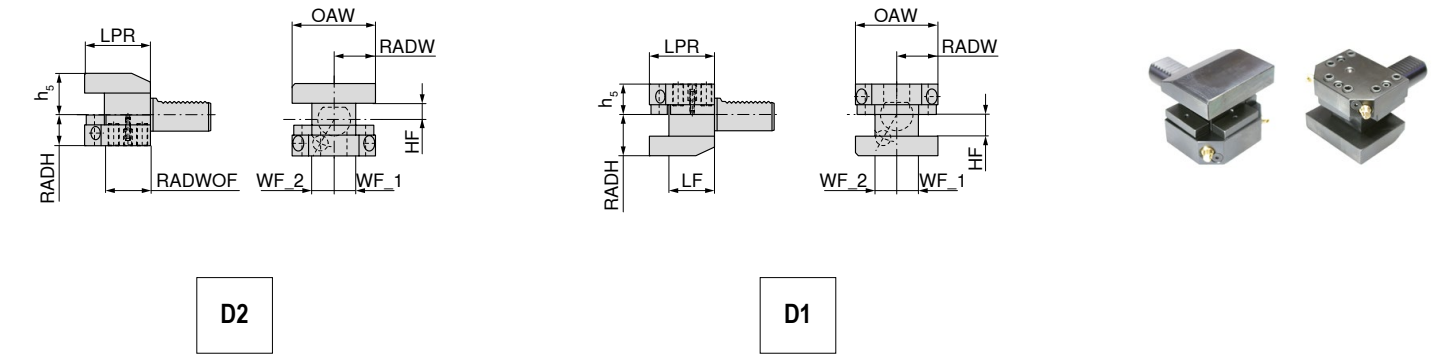
¹⁾ Height adjustable +/- 1 mm

Spare parts for Article no.

82 217 160
82 217 202
82 217 201
82 220 200
82 220 201
82 217 300
82 220 300
82 217 400
82 220 400
82 217 500
82 220 500

	
Shim	O-Ring
CT	CT
83 950 ...	83 950 ...
	205
210	206
211	206
211	
211	206
214	207
214	207
218	208
218	208
220	209
220	209

CoreLine – Multiple tool holders



										D2	D1
										CX	CX
Adapter	HF _{0/-0,1} mm	RADW mm	WF_1 _{0/+0,3} mm	WF_2 _{0/+0,3} mm	OAW mm	h ₅ mm	RADH mm	LF _{0/+0,5} mm	LPR mm	82 224 ...	82 222 ...
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60		300
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60	300	
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72		400
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72	400	

Spare parts
for Article no.

82 222 300	207
82 224 300	207
82 222 400	208
82 224 400	208

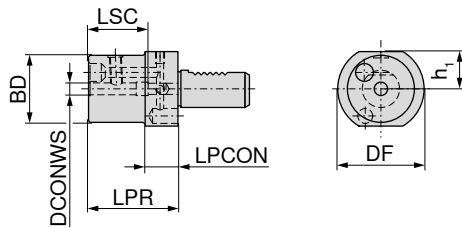


CT

83 950 ...

CoreLine – Cylindrical tool holders

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



Cooling through
nozzle

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

CX

83 269 ...

206

208

210

212

214

216

218

220

306

308

310

312

314

316

318

320

406

408

410

412

414

416

418

420



Spare parts
for Article no.

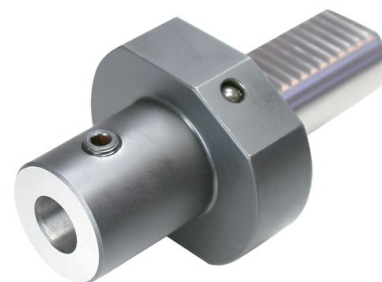
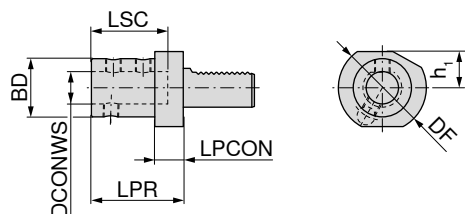
CT

83 950 ...

83 269 206	206
83 269 208	206
83 269 210	206
83 269 212	206
83 269 214	206
83 269 216	206
83 269 218	206
83 269 220	206
83 269 306	207
83 269 308	207
83 269 310	207
83 269 312	207
83 269 314	207
83 269 316	207
83 269 318	207
83 269 320	207
83 269 406	208
83 269 408	208
83 269 410	208
83 269 412	208
83 269 414	208
83 269 416	208
83 269 418	208
83 269 420	208

CoreLine – Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

CX

82 274 ...

Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm
VDI 20	16	50	36	23,0	67	18	54
VDI 20	20	50	40	23,0	67	18	54
VDI 20	25	50	45	23,0	71	18	59
VDI 30	16	68	36	28,0	67	22	54
VDI 30	20	68	40	28,0	67	22	54
VDI 30	25	68	45	28,0	71	22	59
VDI 30	32	68	52	28,0	75	22	63
VDI 30	40	68	60	28,0	87	22	73
VDI 40	16	83	36	32,5	67	22	54
VDI 40	20	83	40	32,5	67	22	54
VDI 40	25	83	45	32,5	75	22	59
VDI 40	32	83	52	32,5	75	22	63
VDI 40	40	83	60	32,5	90	22	73
VDI 50	20	98	40	35,0	80	30	54
VDI 50	25	98	45	35,0	80	30	59
VDI 50	32	98	52	35,0	80	30	63
VDI 50	40	98	60	35,0	90	30	73
VDI 50	50	98	70	35,0	100	30	83

200

201

202

300

301

302

303

304

400

401

402

403

404

500

501

502

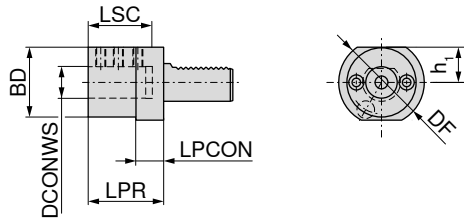
503

504

		 O-Ring	 Grubscrew
		CT	CT
Spare parts for Article no.		83 950 ...	83 950 ...
82 274 200		206	180
82 274 201		206	180
82 274 202		206	181
82 274 300		207	180
82 274 301		207	180
82 274 302		207	181
82 274 303		207	181
82 274 304		207	182
82 274 400		208	180
82 274 401		208	180
82 274 402		208	181
82 274 403		208	181
82 274 404		208	180
82 274 500		209	180
82 274 501		209	181
82 274 502		209	181
82 274 503		209	182
82 274 504		209	182

CoreLine – Boring bar holder

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



E2

Cooling through
nozzle

Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	
VDI 16	6	40	32	18,0	44	13	34	
VDI 16	8	40	32	18,0	44	13	34	
VDI 16	10	40	32	18,0	44	13	34	
VDI 16	12	40	40	18,0	44	13	34	
VDI 16	16	40	40	18,0	44	13	34	
VDI 20	8	50	40	23,0	50	18	41	
VDI 20	10	50	40	23,0	50	18	41	
VDI 20	12	50	40	23,0	50	18	41	
VDI 20	16	50	40	23,0	50	18	41	
VDI 20	20	50	50	23,0	50	18	41	
VDI 20	25	50	50	23,0	60	18	51	
VDI 30	8	68	55	28,0	60	22	51	
VDI 30	10	68	55	28,0	60	22	51	
VDI 30	12	68	55	28,0	60	22	51	
VDI 30	16	68	55	28,0	60	22	51	
VDI 30	20	68	55	28,0	60	22	51	
VDI 30	25	68	55	28,0	60	22	51	
VDI 30	32	68	68	28,0	75	22	61	
VDI 40	8	83	55	32,5	75	22	61	
VDI 40	10	83	55	32,5	75	22	61	
VDI 40	12	83	55	32,5	75	22	61	
VDI 40	16	83	55	32,5	75	22	61	
VDI 40	20	83	55	32,5	75	22	61	
VDI 40	25	83	55	32,5	75	22	61	
VDI 40	32	83	83	32,5	75	22	61	
VDI 40	40	83	83	32,5	90	22	76	
VDI 50	12	98	68	35,0	90	30	76	
VDI 50	16	98	68	35,0	90	30	76	
VDI 50	20	98	68	35,0	90	30	76	
VDI 50	25	98	68	35,0	90	30	76	
VDI 50	32	98	68	35,0	90	30	76	
VDI 50	40	98	98	35,0	90	30	76	
VDI 50	50	98	98	35,0	100	30	86	

CX

82 268 ...

160 ¹⁾161 ¹⁾162 ¹⁾163 ¹⁾164 ¹⁾

200

201

202

203

204

205

300

301

302

303

304

305

306

400

401

402

403

404

405

406

407

500

501

502

503

504

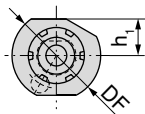
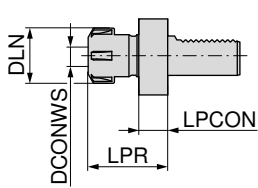
505

506

1) Coolant supply through pipe joint

Spare parts for Article no.	 O-Ring  Grubscrew	
	CT	CT
	83 950 ...	83 950 ...
82 268 160	205	
82 268 161	205	461
82 268 162	205	461
82 268 163	205	465
82 268 164	205	465
82 268 200	206	462
82 268 201	206	466
82 268 202	206	466
82 268 203	206	465
82 268 204	206	465
82 268 205	206	464
82 268 300	207	463
82 268 301	207	463
82 268 302	207	467
82 268 303	207	467
82 268 304	207	467
82 268 305	207	466
82 268 306	207	466
82 268 400	208	468
82 268 401	208	468
82 268 402	208	468
82 268 403	208	472
82 268 404	208	471
82 268 405	208	471
82 268 406	208	471
82 268 407	208	470
82 268 500	209	469
82 268 501	209	473
82 268 502	209	477
82 268 503	209	477
82 268 504	209	476
82 268 505	209	476
82 268 506	209	474

CoreLine – ER Collet chucks



E4

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

CX

82 286 ...
160
161
202
203
300
301
400
401
402
500
501

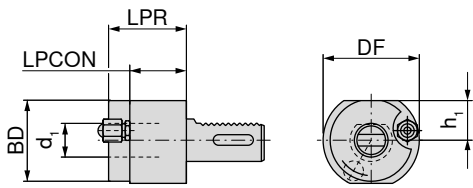
Spare parts
for Article no.

82 286 160
82 286 161
82 286 202
82 286 203
82 286 300
82 286 301
82 286 400
82 286 401
82 286 402
82 286 500
82 286 501

				
Lock nut	Lock nut	Y clamping key	O-Ring	Driver
CT	CT	CX	CT	CT
62 950 ...	62 950 ...	83 357 ...	83 950 ...	83 950 ...
044	054	116	205	
045		12000	205	
	055	125	206	
		132	206	121
	055	125	207	
		132	207	121
	055	125	208	
		132	208	121
	65700	140	208	
		132	209	121
	65700	140	209	

CoreLine – Morse taper adapters

▲ For taper shanks with ejector tang



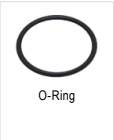
F1

Adapter	d ₁	BD mm	DF mm	h ₁ mm	LPR mm	LPCON mm
VDI 20	MK1		50	23,0	23	
VDI 20	MK2		50	23,0	87	
VDI 30	MK1		68	28,0	27	
VDI 30	MK2		68	28,0	27	
VDI 30	MK3	58	68	28,0	55	40
VDI 40	MK2	55	83	32,5	36	22
VDI 40	MK3	58	83	32,5	36	22
VDI 40	MK4	68	83	32,5	80	22
VDI 50	MK2	55	98	35,0	36	30
VDI 50	MK3	58	98	35,0	36	30
VDI 50	MK4	68	98	35,0	50	30

CX
82 277 ...
200
201
300
301
302
401
402
403
500
501
502

Spare parts
for Article no.

- 82 277 200
- 82 277 201
- 82 277 300
- 82 277 301
- 82 277 302
- 82 277 401
- 82 277 402
- 82 277 403
- 82 277 500
- 82 277 501
- 82 277 502

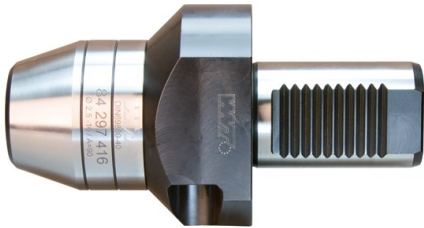
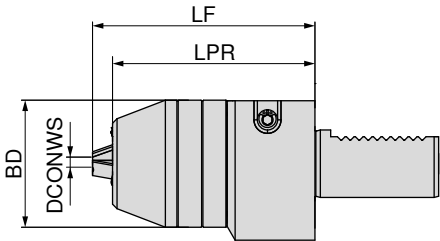


CT
83 950 ...
206
206
207
207
207
207
208
208
208
209
209
209

CoreLine – Short drill chuck – NC 2010

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

Scope of supply:
Basic body including chuck key SW 4



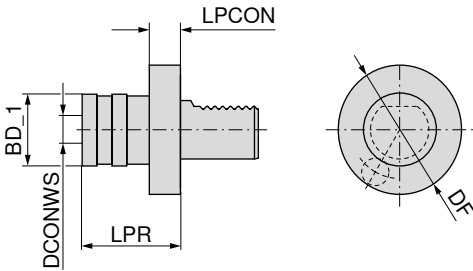
Adapter	DCONWS mm	BD mm	LPR mm	LF mm
VDI 20	0,5 - 10	48,5	40	50
VDI 30	0,5 - 13	56,5	90	99
VDI 30	2,5 - 16	56,5	90	99
VDI 40	0,5 - 13	56,5	90	99
VDI 40	2,5 - 16	56,5	90	99

CX
84 297 ...
210 ¹⁾
313
316
413
416

1) Without Through Coolant

CoreLine – Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm
VDI 20	M3 - M12	01	19	38	55	9
VDI 30	M3 - M12	01	19	38	55	9
VDI 40	M3 - M12	01	19	38	55	9
VDI 20	M6 - M20	02	31	55	77	15
VDI 30	M6 - M20	02	31	55	77	15
VDI 40	M6 - M20	02	31	55	77	15

CT
83 307 ...
112
312
412
120
320
420

Spare parts
Adapter

VDI 20
VDI 30
VDI 40


O-Ring
CT
83 950 ...
206
207
208

CoreLine – Hydraulic chuck – Turn

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

Scope of supply:
Base body with backstop screw and pressure screw



AD

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

CT

83 402 ...

02027

02026

Spare parts
DCONWS



Stop screw IK

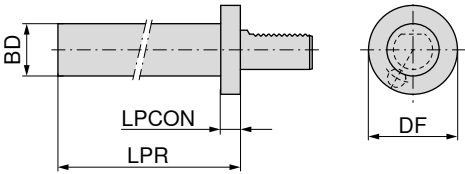
CT

83 950 ...

48700

CoreLine – Test arbors

▲ Radial run-out ≤ 0.02 mm



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

CX

83 324 ...

016

020

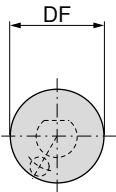
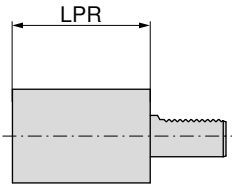
030

040

050

CoreLine – Blank

▲ Manufactured from C45



A2

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

CX
82 330 ...
160
200
300
303
400
403
500
502

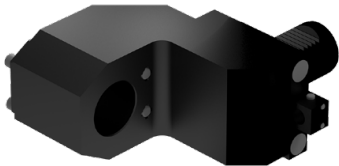
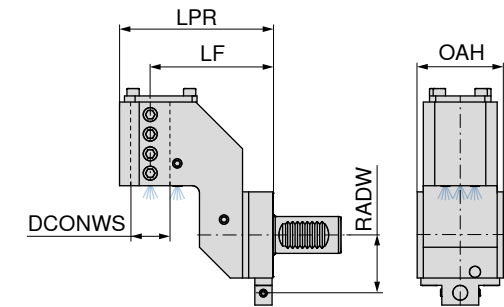
Spare parts
Adapter

VDI 16
VDI 20
VDI 30
VDI 40
VDI 50

 O-Ring
CT
83 950 ...
205
206
207
208
209

CoreLine – Boring bar holder, with offset, with through coolant

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



IC
double

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

CX

83 229 ...

02528 ¹⁾

03227 ¹⁾

04026 ¹⁾

1) Not ex-stock



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

CoreLine – Double boring bar holder with through coolant

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



IC

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

CX
83 230 ...
02528 ¹⁾
03227 ¹⁾
13227 ¹⁾
04026 ¹⁾

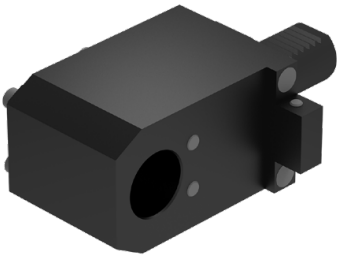
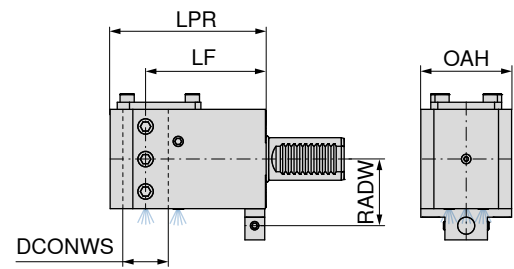
1) Not ex-stock



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

CoreLine – Boring bar holder with through coolant

▲ external coolant supply available



IC

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

CX
83 228 ...
02528 ¹⁾
03227 ¹⁾
13227 ¹⁾
04026 ¹⁾
14026 ¹⁾
05025 ¹⁾

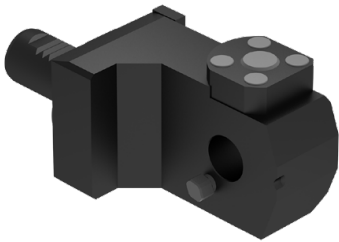
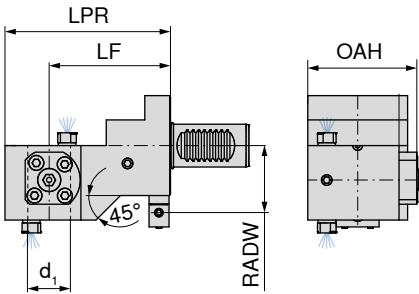
1) Not ex-stock



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

CoreLine – 90° VDI to VDI adapter, double sided

▲ for rotating toolholder



IC

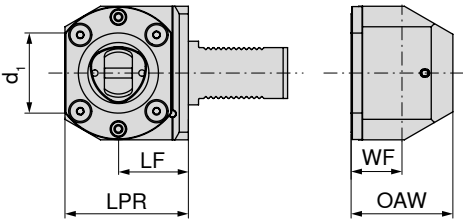
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	104	75	38,0	40
VDI 25	20	104	75	67,5	40
VDI 30	30	116	85	76,5	47
VDI 30	30	131	100	76,5	47
VDI 40	40	133	100	89,0	56
VDI 40	40	153	120	89,0	56

CX
83 225 ...
02528 ¹⁾
02028 ¹⁾
03027 ¹⁾
13027 ¹⁾
04026 ¹⁾
14026 ¹⁾

1) Not ex-stock

CoreLine – 90° VDI to PSC adapter

Scope of supply:
including pull stud



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

1) Not ex-stock

Accessories

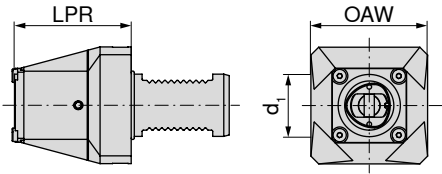


Pull stud PSC



CoreLine – VDI to PSC adapter

Scope of supply:
including pull stud



Adapter	d ₁	LPR mm	OAW mm
VDI 30	PSC 40	70	60
VDI 40	PSC 40	75	75
VDI 40	PSC 50	85	82
VDI 40	PSC 63	90	105
VDI 50	PSC 50	85	91
VDI 50	PSC 63	100	105

CX
83 232 ...
04027 ¹⁾
04026 ¹⁾
05026 ¹⁾
06326 ¹⁾
05025 ¹⁾
06325 ¹⁾

1) Not ex-stock

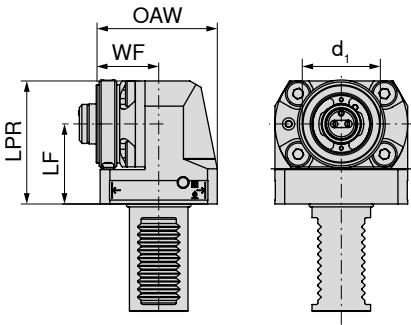
Accessories



Pull stud PSC



CoreLine – 90° VDI to HSK-T adapter



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

90°

CX

83 233 ...

04027 ¹⁾

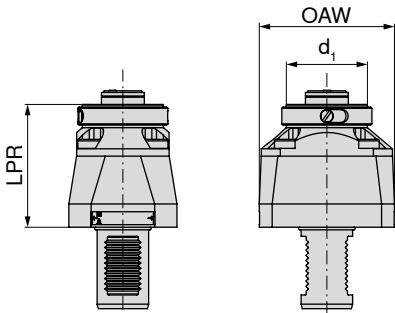
04026 ¹⁾

06326 ¹⁾

06325 ¹⁾

1) Not ex-stock

CoreLine – VDI to HSK-T adapter

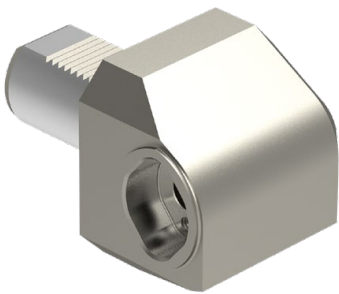
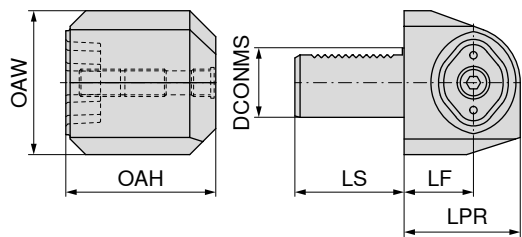


Adapter	d ₁	LPR mm	OAW mm
VDI 30	HSK-T 40	74	60
VDI 40	HSK-T 40	79	75
VDI 40	HSK-T 63	95	105
VDI 50	HSK-T 63	105	105

CX
83 234 ...
04027 ¹⁾
04026 ¹⁾
06326 ¹⁾
06325 ¹⁾

1) Not ex-stock

OvalFlex – 90° VDI to OC50 adapter



IK central
ER

Adapter	d _i	DCONMS mm	LF mm	OAH mm	LS mm	LPR mm	OAW mm
VDI 40	OC50	40	40	86,5	63	67	83
VDI 40	OC50	40	150	86,5	63	177	83
VDI 50	OC50	50	50	104,0	78	77	98
VDI 50	OC50	50	150	104,0	78	177	98

CT

74 592 ...

04026
15026

05025
15025

Spare parts
Adapter

VDI 40	M16x65 - SW8	90900	4,3x2,4	90700	303
VDI 50	M16x65 - SW8	90900	4,3x2,4	90700	303



Power Screw

AS

70 950 ...



O-Ring

AS

70 950 ...



Molykote

AS

70 950 ...

Spare parts
Adapter

VDI 40	M16x7,5x1,5 - SW8	91000	SW8	188
VDI 50	M16x7,5x1,5 - SW8	91000	SW8	188



Cylindrical screw

AS

70 950 ...

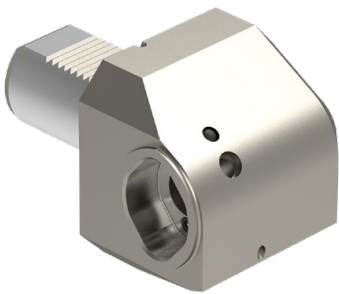
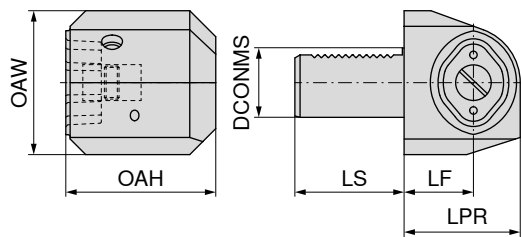


Allen key

AS

80 950 ...

OvalFlex – 90° VDI to OC50R adapter



IK central
ER

Adapter	d _i	DCONMS mm	LF mm	OAH mm	LS mm	LPR mm	OAW mm
VDI 40	OC50R	40	40	86,5	63	67	83
VDI 40	OC50R	40	150	86,5	63	177	83
VDI 50	OC50R	50	50	104,0	78	77	98
VDI 50	OC50R	50	150	104,0	78	177	98

CT

74 592 ...
54026
65026
55025
65025

Spare parts
Adapter

VDI 40	4,3x2,4	90700	303	T25 / SW5 / OVAL	91400	91100
VDI 50	4,3x2,4	90700	303	T25 / SW5 / OVAL	91400	91100



O-Ring

AS

70 950 ...



Molykote

AS

70 950 ...



Combination Key

AS

70 950 ...



Installation set

AS

70 950 ...

Spare parts
Adapter

VDI 40	Ø5	91300	SW5-SW5	91600	301
VDI 50	Ø5	91300	SW5-SW5	91600	301



Cylindrical pin

AS

70 950 ...



Protection plugs

AS

70 950 ...

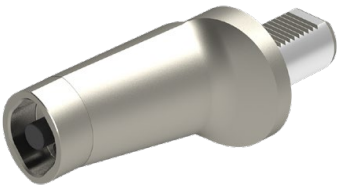
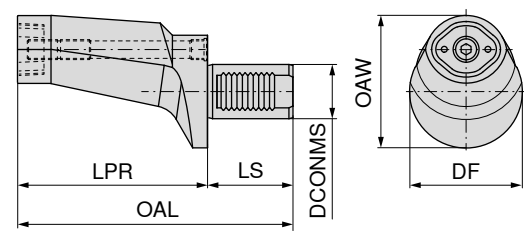


Circlip

AS

40 950 ...

OvalFlex – VDI to OC50 adapter



IK central
IL

CT

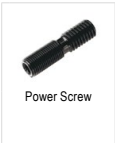
74 593 ...

14126

Adapter	d _i	DCONMS mm	DF mm	LF mm	OAL mm	LS mm	LPR mm	OAW mm
VDI 40	OC50	40	83	140	203	63	140	97,5

Spare parts
Adapter

VDI 40	M16x65 - SW8	90900	4,3x2,4	90700	303
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Power Screw

AS

70 950 ...

90900



O-Ring

AS

70 950 ...

90700



Molykote

AS

70 950 ...

303

Spare parts
Adapter

VDI 40	M16x7,5x1,5 - SW8	91000	SW8	188
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Cylindrical screw

AS

70 950 ...

91000



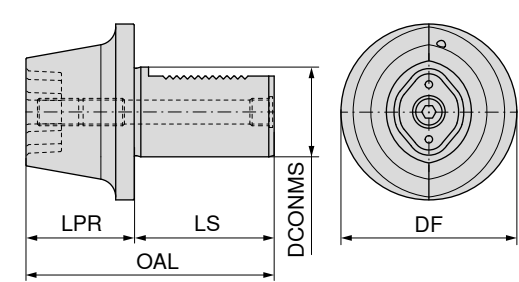
Allen key

AS

80 950 ...

188

OvalFlex – VDI to OC50 adapter



IK central
IN

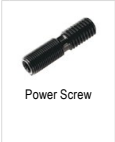
Adapter	d _i	DCONMS mm	DF mm	LF mm	OAL mm	LS mm	LPR mm
VDI 40	OC50	40	83	60	123	63	60
VDI 40	OC50	40	83	110	173	63	110
VDI 40	OC50	40	83	140	203	63	140
VDI 40	OC50	40	83	175	238	63	175
VDI 50	OC50	50	98	60	138	78	60
VDI 50	OC50	50	98	130	208	78	130
VDI 50	OC50	50	98	170	248	78	170
VDI 50	OC50	50	98	210	288	78	210

CT

74 593 ...
06026
11026
14026
17526
06025
13025
17025
21025

Spare parts
Adapter

VDI 40	M16x65 - SW8	90900	4,3x2,4	90700	303
VDI 40	M16x65 - SW8	90900	4,3x2,4	90700	303
VDI 50	M16x65 - SW8	90900	4,3x2,4	90700	303



Power Screw

AS

70 950 ...



O-Ring

AS

70 950 ...



Molykote

AS

70 950 ...

Spare parts
Adapter

VDI 40			SW8	188
VDI 40	M16x7,5x1,5 - SW8	91000	SW8	188
VDI 50	M16x7,5x1,5 - SW8	91000	SW8	188



Cylindrical screw

AS

70 950 ...

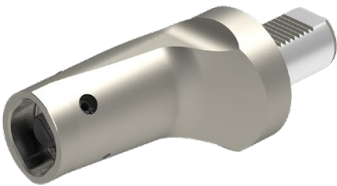
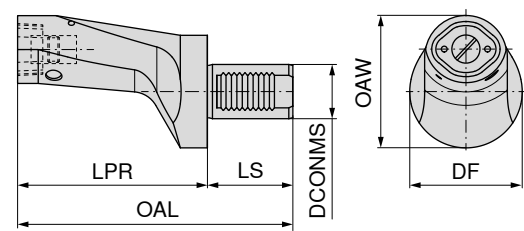


Allen key

AS

80 950 ...

OvalFlex – VDI to OC50R adapter



IK central
IL

Adapter	d _i	DCONMS mm	DF mm	LF mm	OAL mm	OAW mm	LS mm	LPR mm
VDI 40	OC50R	40	83	140	203	97,5	63	140

CT

74 593 ...

64126

Spare parts
Adapter

VDI 40	301	4,3x2,4	90700	303	T25 / SW5 / OVAL	91400	91100
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Circclip

AS

40 950 ...

O-Ring

AS

70 950 ...

Molykote

AS

70 950 ...

Combination Key

AS

70 950 ...

Installation set

AS

70 950 ...

Spare parts
Adapter

VDI 40	91300	Ø5	91600	91500
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Cylindrical pin

AS

70 950 ...

Protection plugs

AS

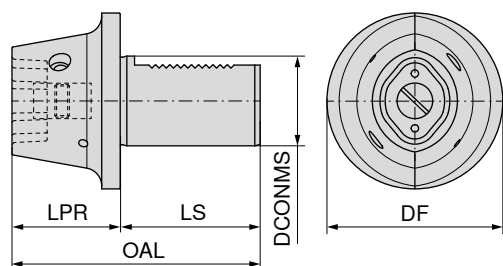
70 950 ...

Protection plugs

AS

70 950 ...

OvalFlex – VDI to OC50R adapter



IK central
IN

Adapter	d ₁	DCONMS mm	DF mm	LF mm	OAL mm	OAH mm	LS mm	LPR mm
VDI 40	OC50R	40	83	60	123		63	60
VDI 40	OC50R	40	83	110	173	86,5	63	110
VDI 40	OC50R	40	83	140	203		63	140
VDI 50	OC50R	50	98	60	138		78	60
VDI 50	OC50R	50	98	130	208		78	130
VDI 50	OC50R	50	98	170	248		78	170

CT

74 593 ...

56026

61026

64026

56025

63025

67025

Spare parts Adapter



Circlip

AS

40 950 ...



O-Ring

AS

70 950 ...



Molykote

AS

70 950 ...



Combination Key

AS

70 950 ...



Installation set

AS

70 950 ...

VDI 40	301	4,3x2,4	90700		T25 / SW5 / OVAL	91400	91100
VDI 40	301	4,3x2,4	90700	303	T25 / SW5 / OVAL	91400	91100
VDI 50	301	4,3x2,4	90700	303	T25 / SW5 / OVAL	91400	91100

Spare parts Adapter



Cylindrical pin

AS

70 950 ...



Protection plugs

AS

70 950 ...



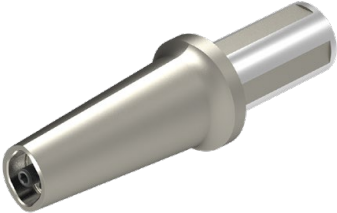
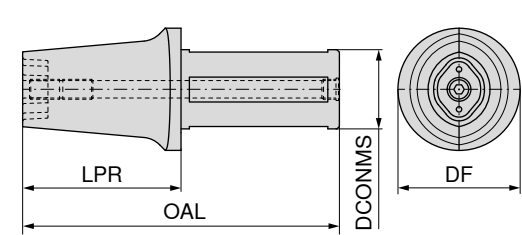
Protection plugs

AS

70 950 ...

VDI 40	Ø5	91300	SW5-SW5	91600	SW5-M5	91500
VDI 40	Ø5	91300	SW5-SW5	91600	SW5-M5	91500
VDI 50	Ø5	91300	SW5-SW5	91600	SW5-M5	91500

OvalFlex – Base holder with cylindrical shank



IK central

Adapter	d ₁	DCONMS mm	LF mm	OAL mm	LPR mm
2,500 "	OC50	63,5	127,0	254,0	127,0
2,500 "	OC50	63,5	203,2	330,2	203,2

CT

78 593 ...

12799

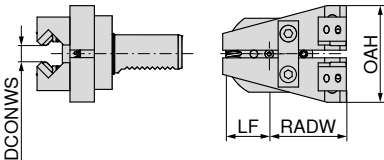
20399

CoreLine – Bar pullers for disc turrets, radial

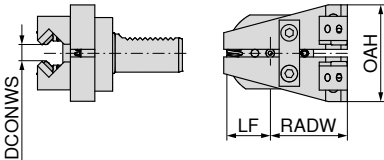
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

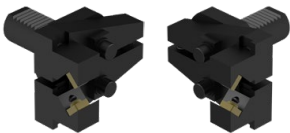
Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20



Left-hand



Right-hand



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

Spare parts
for Article no.

80 306 01600	205
80 306 02000	205
80 306 03000	205
80 309 03000	207
80 306 04000	205
80 309 04000	208



O-Ring

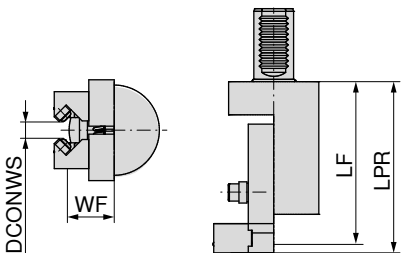
CT

83 950 ...

CoreLine – Bar pullers for star turrets

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

Scope of supply:
Bar puller with GA 3



Left-hand

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

CX
80 310 ...
03000
04000

Spare parts
for Article no.

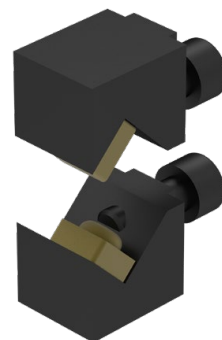
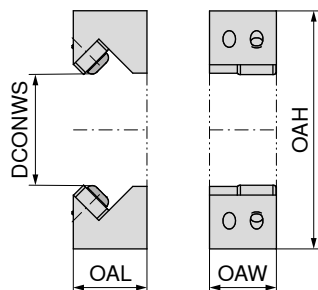
80 310 03000
80 310 04000

 O-Ring
CT
83 950 ...
207
208

Gripper accessories

▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...

▲ Price per pair



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

CT

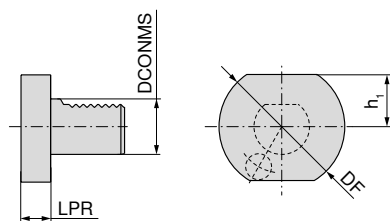
80 312 ...

12200

14200

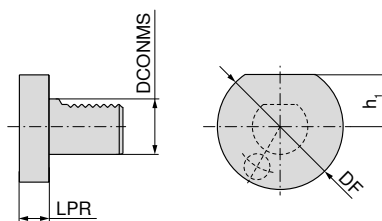
16500

CoreLine – Protection plugs



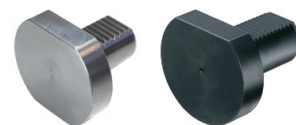
Z2

Steel



Z2

Plastic



Z2

Steel

Z2

Plastic

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

CX

82 317 ...

160

200

300

400

500

CX

83 318 ...

160

200

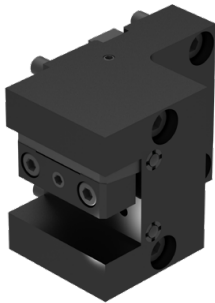
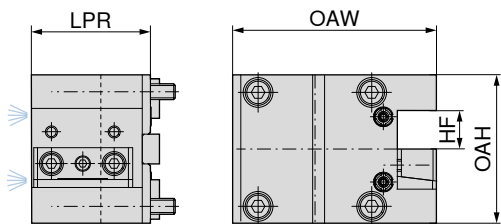
300

400

500

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

▲ directly screwed version



Left-hand

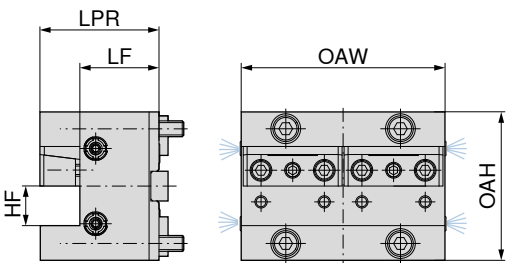
Left-hand

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

CT	CT
82 480 ...	82 480 ...
00001	00006

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

▲ directly screwed version



Left-hand

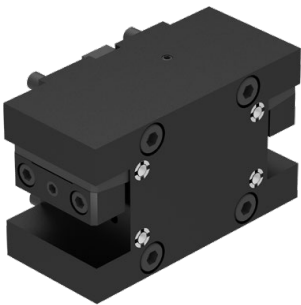
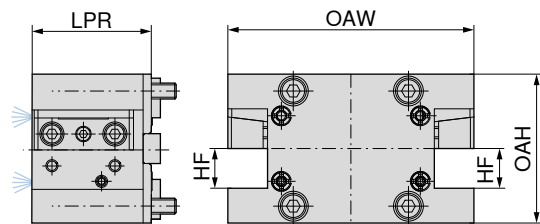
Left-hand

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

CT	CT
82 480 ...	82 480 ...
01002	01007

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

▲ directly screwed version



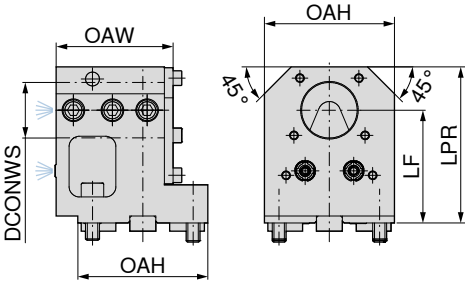
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 45	58 x 58	20	60	75	124

CT
82 480 ...
02003

CT
82 480 ...
02008

CoreLine – Doosan/Spinner – BMT 45 – Combi tool holder

▲ directly screwed version

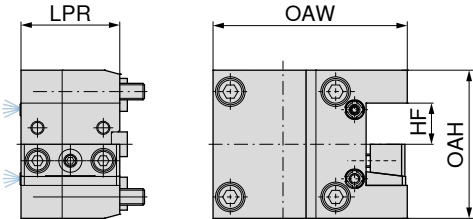


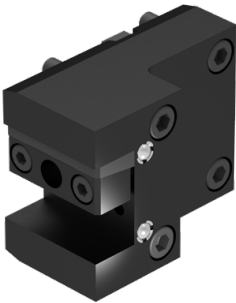
Adapter	Hole pattern	DCONWS mm	LF mm	OAW mm	OAH mm	LPR mm
BMT 45	58 x 58	32	65	67,5	75	90
BMT 45	58 x 58	32	85	67,5	75	110

CT
82 480 ...
03004
03005

CoreLine – Doosan – BMT 55 – Axial square section tool holder

▲ directly screwed version







Left-hand



Left-hand

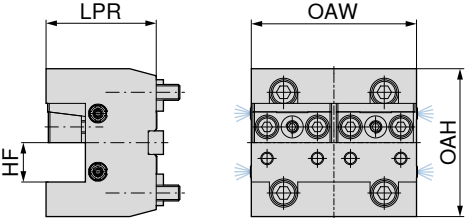
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	60	90	118

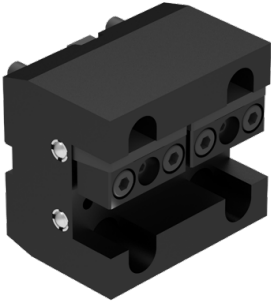
CT82 481 ...00001

CT82 481 ...00005

CoreLine – Doosan – BMT 55 – Radial square section tool holder

▲ directly screwed version







Left-hand



Left-hand

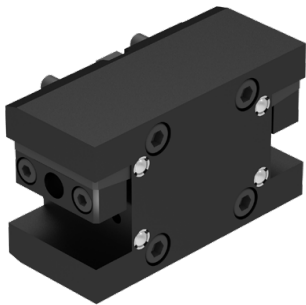
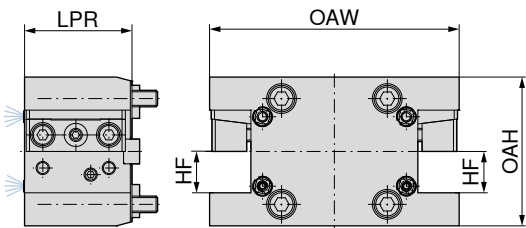
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	70	94	105
BMT 55	64 x 64	25	95	94	105

CT82 481 ...01002

CT82 481 ...01006

CoreLine – Doosan – BMT 55 – Multi square section tool holder

▲ directly screwed version



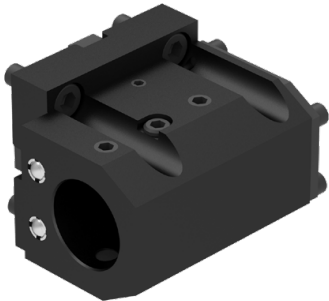
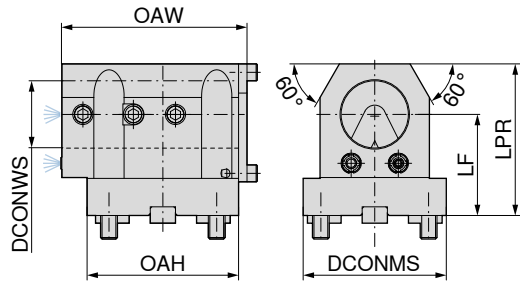
Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 55	64 x 64	25	65	90	151
BMT 55	64 x 64	25	60	90	151

CT
82 481 ...
02003

CT
82 481 ...
02007

CoreLine – Doosan – BMT 55 – Boring bar holder

▲ directly screwed version

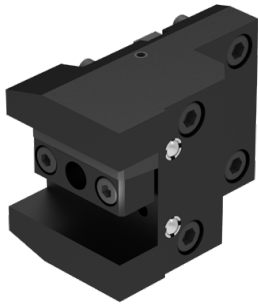
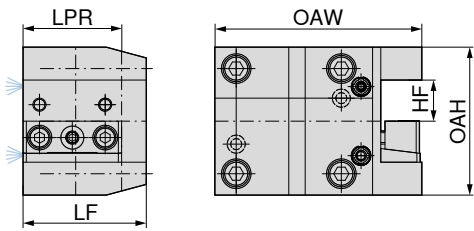


Adapter	Hole pattern	DCONWS mm	LF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT55	64 x 64	40	60	85	90	90	110

CT
82 481 ...
04004

CoreLine – EMAG – BMT 55 – Axial square section tool holder

▲ directly screwed version



Left-hand

Left-hand

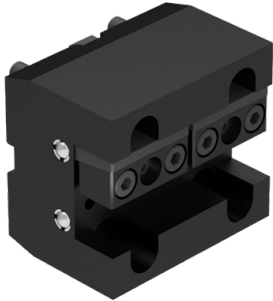
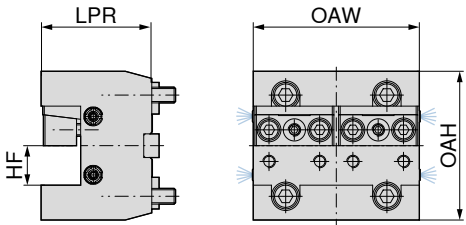
Adapter	Hole pattern	HF mm	LPR mm	LF mm	OAH mm	OAW mm
BMT 55	64 X 64	25	60	75	90	126

CT
82 482 ...
00001

CT
82 482 ...
00004

CoreLine – EMAG – BMT 55 – Radial square section tool holder

▲ directly screwed version



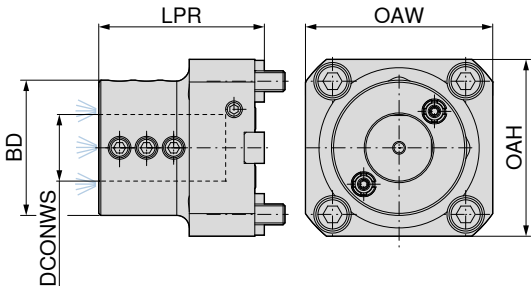
IC
Left-hand

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

CT
82 482 ...
01002

CoreLine – EMAG – BMT 55 – Boring bar holder

▲ directly screwed version



IC

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

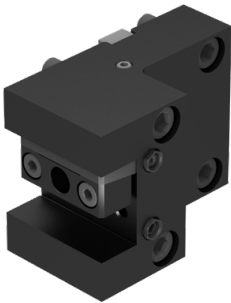
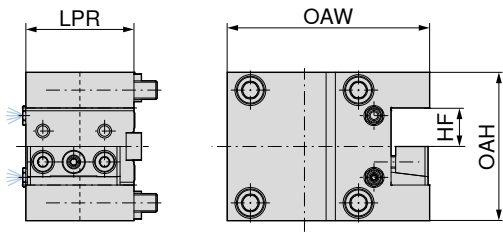
CT

82 482 ...

04003

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

▲ directly screwed version



Left-hand

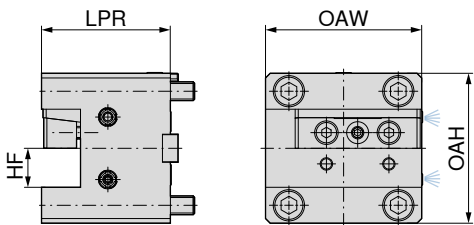
Left-hand

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

CT	CT
82 483 ...	82 483 ...
00008	00005

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

▲ directly screwed version



Right-hand

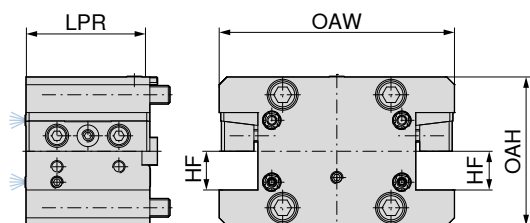
Right-hand

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

CT	CT
82 483 ...	82 483 ...
05002	05006

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

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

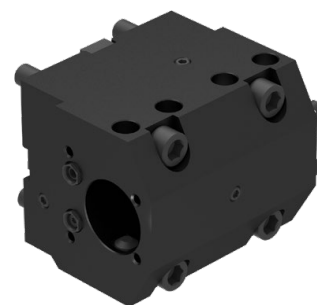
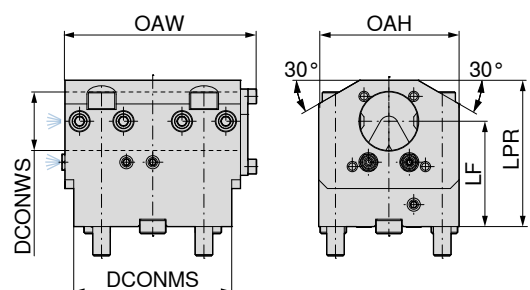


Adapter	Hole pattern	HF mm	LPR mm	OAH mm	OAW mm
BMT 65	70 x 73	25	80	96	152

CT	CT
82 483 ... 02003	82 483 ... 02007

CoreLine – HAAS/Doosan – BMT 65 – Combi tool holder

- ▲ directly screwed version
- ▲ double-sided version



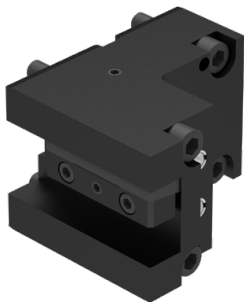
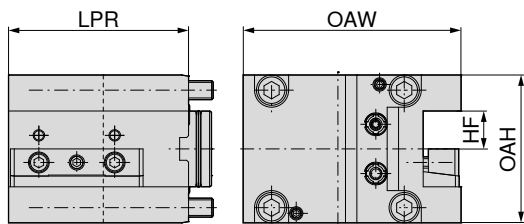
IC

Adapter	Hole pattern	DCONWS mm	LF mm	OAH mm	LPR mm	DCONMS mm	OAW mm
BMT 65	70 x 73	40	72	96	106	103	132

CT
82 483 ... 03009

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

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



Left-hand

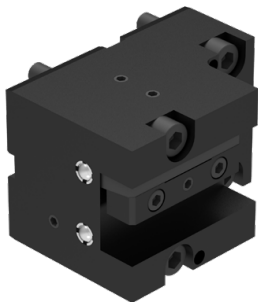
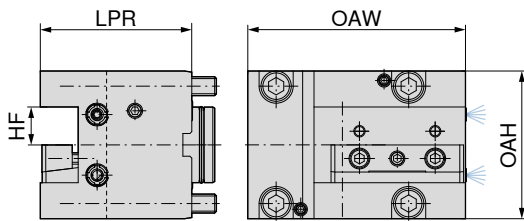
Left-hand

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

CT	CT
82 484 ... 00001	82 484 ... 00005

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

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



Left-hand

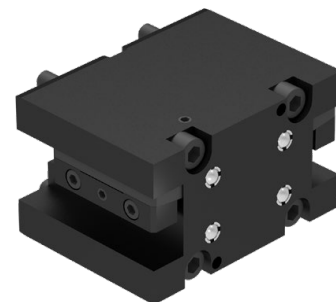
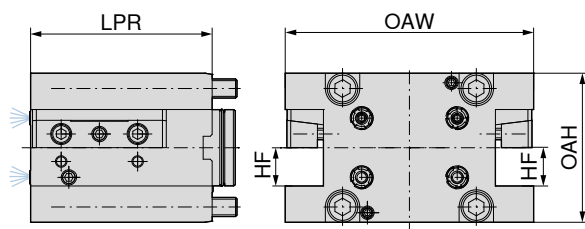
Left-hand

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

CT	CT
82 484 ... 01002	82 484 ... 01006

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

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



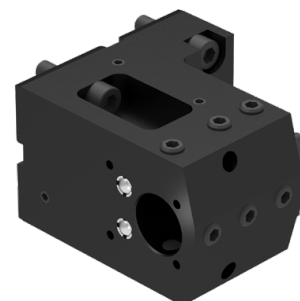
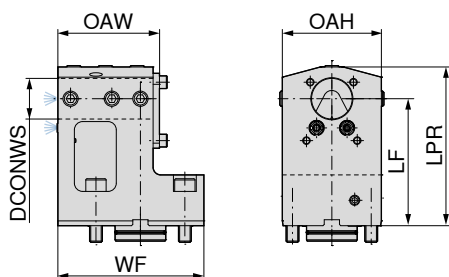
DirectCooling

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

CT	CT
82 484 ... 02003	82 484 ... 02007

CoreLine – Mori/Seiki – BMT 40 – Combi tool holder

- ▲ directly screwed version

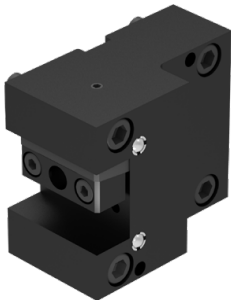
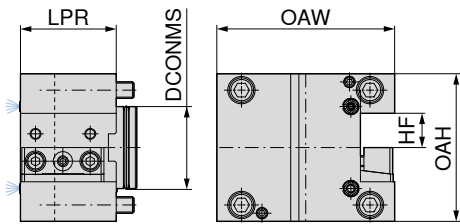


Adapter	Hole pattern	DCONWS mm	OAH mm	OAW mm	LF mm	WF mm	LPR mm
BMT 40	70 x 62	32	78	80	100	115	125

CT
82 484 ... 03004

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

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



Left-hand

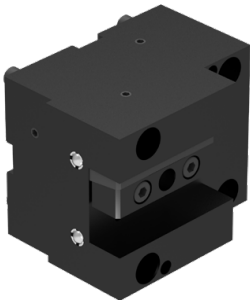
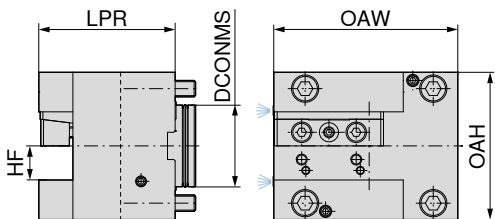
Left-hand

Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	130

CT	CT
82 485 ... 00001	82 485 ... 00005

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

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



Left-hand

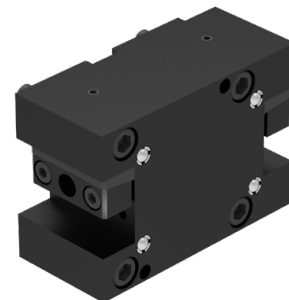
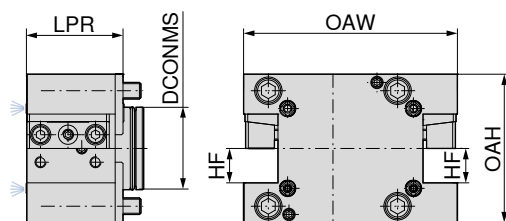
Left-hand

Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	100	108	135

CT	CT
82 485 ... 01002	82 485 ... 01006

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

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

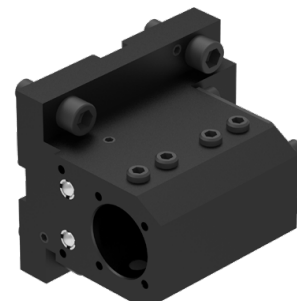
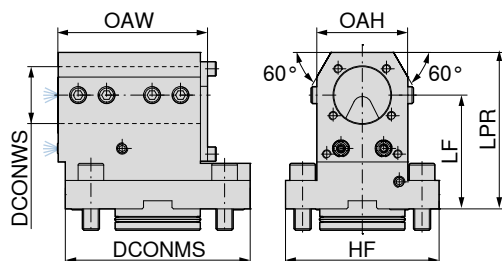


Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 60	94 x 84	25	60	70	108	155,5

CT	CT
82 485 ... 02003	82 485 ... 02007

CoreLine – Mori/Seiki – BMT 60 – Combi tool holder

- ▲ directly screwed version



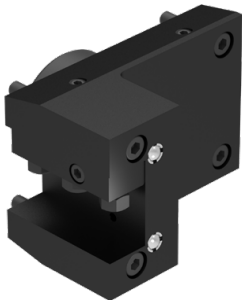
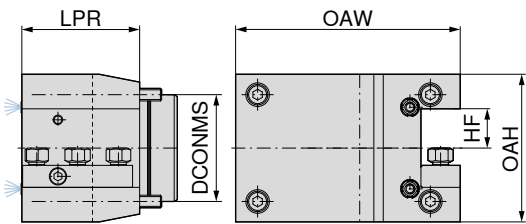
IC

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

CT
82 485 ... 03004

CoreLine – Mazak – BMT 68 – Axial square section tool holder

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



Left-hand

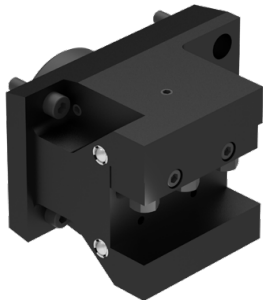
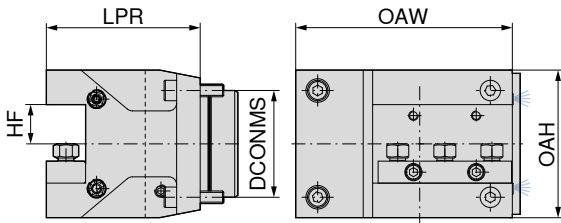
Left-hand

Adapter	Hole pattern	HF mm	DCONMS mm	LPR mm	OAH mm	OAW mm
BMT 68	110 x 68	25	68	75	94	143

CT	CT
82 486 ... 00001	82 486 ... 00005

CoreLine – Mazak – BMT 68 – Radial square section tool holder

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



Left-hand

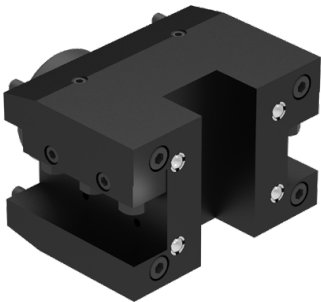
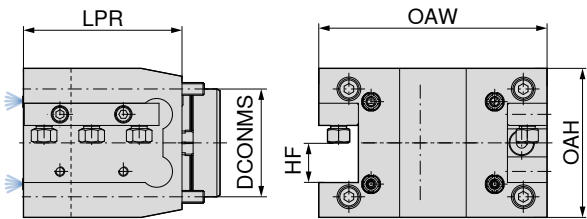
Left-hand

Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm
BMT 68	110 x 68	25	68	94	98	143

CT	CT
82 486 ... 01002	82 486 ... 01006

CoreLine – EMAG – BMT 68 – Multi square section tool holder

▲ directly screwed version

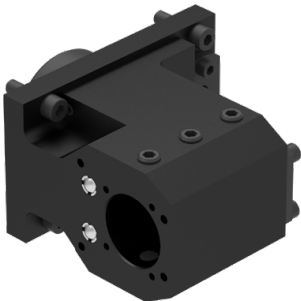
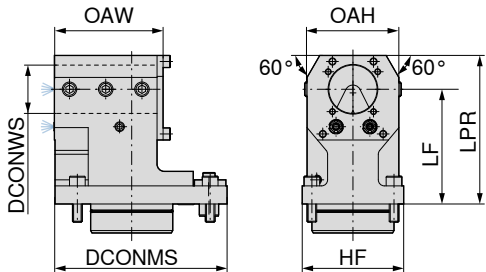


Adapter	Hole pattern	HF mm	DCONMS mm	OAH mm	LPR mm	OAW mm
BMT 68	110 x 68	25	68	94	100	144

CT	CT
82 486 ... 02003	82 486 ... 02007

CoreLine – Mazak – BMT 68 – Combi tool holder

▲ directly screwed version



Adapter	Hole pattern	DCONWS mm	OAH mm	HF mm	OAW mm	LF mm	LPR mm	DCONMS mm
BMT 68	110 x 68	40	76	84	90	95	123	142,5

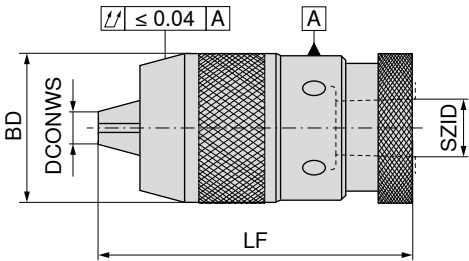
CT
82 486 ... 03004

CoreLine – Drill chuck

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

Scope of supply:

Holder with clamping key



SZID	DCONWS mm	LF mm	BD mm
B12	0 - 8	73	35
B12	0 - 10	92	43
B16	1 - 13	106	50
B16	3 - 16	110	57
B18	3 - 16	110	57

CX
83 636 ...
012
112
016
116
018

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

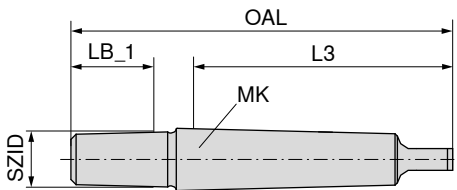


NC clamping key

CX
83 302 ...
008
010
013
016

CoreLine – Drill chuck adapter DIN 238

▲ Through-hardened and ground

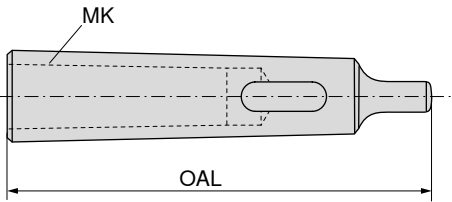


Adapter	SZID	l ₃ mm	LB_1 mm	OAL mm
MK1	B12	62,0	18,5	89,0
MK1	B16	62,0	24,0	97,0
MK1	B18	62,0	32,0	106,0
MK2	B12	75,0	18,5	106,5
MK2	B16	75,0	24,0	110,5
MK2	B18	75,0	32,0	117,5
MK3	B12	94,0	18,5	125,0
MK3	B16	94,0	24,0	134,0
MK3	B18	94,0	32,0	141,0
MK4	B16	117,5	24,0	159,0
MK4	B18	117,5	32,0	168,0
MK5	B16	149,5	24,0	196,0
MK5	B18	149,5	32,0	204,5

CX
83 642 ...
120
160
180
121
161
181
122
162
182
163
183
164
184

CoreLine – Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally

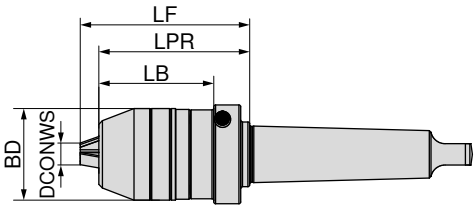


			CX
Adapter	d ₁	OAL mm	83 644 ...
MK1	MK0	80	010
MK2	MK1	92	020
MK3	MK1	99	130
MK3	MK2	112	030
MK4	MK1	124	240
MK4	MK2	124	140
MK4	MK3	140	040
MK5	MK2	156	250
MK5	MK3	156	150
MK5	MK4	171	050

CoreLine – Short drill chuck – NC 2010

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

Scope of supply:
Holder with clamping key



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

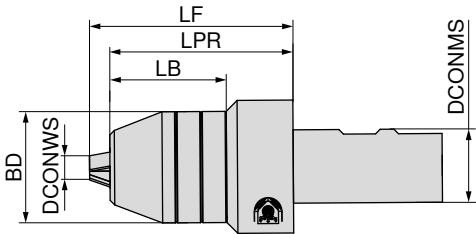
CX
84 314 ...
313
316
416

CoreLine – Short drill chuck – NC 2010

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

Scope of supply:

Holder with clamping key



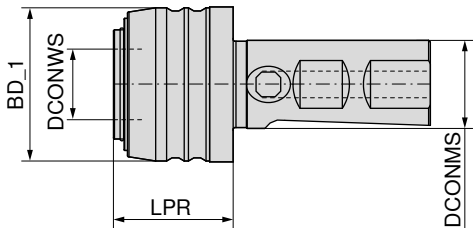
G 6,3 n_{max} 10000

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

CX
84 311 ...
213
313
316

CoreLine – Synchro quick change tapping chuck with minimum length compensation

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



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

CT
83 641 ...
012
020

Accessories



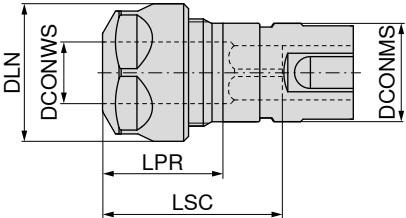
Operation



Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:
Includes lock nut



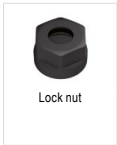
DCONWS mm	cutting range	SZID	LPR mm	DLN mm	LSC mm	DCONMS mm	for collet
2 - 10	M3 - M12	1	24	28	42	20	426E (ER16)
2 - 16	M6 - M20	2	28	42	59	32	430E (ER25)

CT
83 608 ...
012 ¹⁾
020

1) with 6 position lock nut

Spare parts
for Article no.

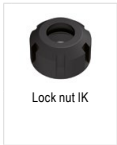
83 608 012	M22x1,5 - SW25	044	M22x1,5	054	M22x1,5	054	116
83 608 020			M32x1,5	055	M32x1,5	055	125



Lock nut

CT

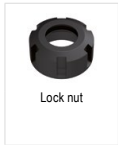
62 950 ...



Lock nut IK

CT

83 950 ...



Lock nut

CT

62 950 ...



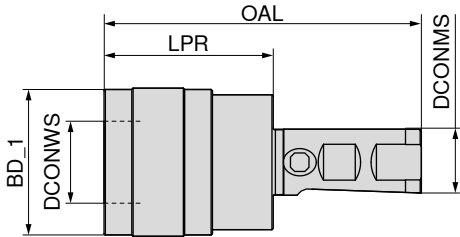
Y clamping key

CX

83 357 ...

CoreLine – Quick change tap chuck with length compensation

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



DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	CT 83 648 ... 112 120 212 220 312 320
20	M3 - M12	01	41	38	19	91	9	
20	M6 - M20	02	63	55	31	138	15	
25	M3 - M12	01	41	38	19	97	9	
25	M6 - M20	02	63	55	31	119	15	
32	M3 - M12	01	41	38	19	102	9	
32	M6 - M20	02	63	55	31	124	15	

Accessories

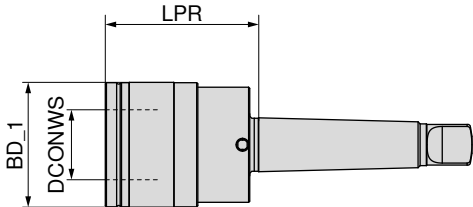


Collet



CoreLine – DIN 228B – Quick change tap chuck with length compensation

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



Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LZD±	CT	
							83 646 ...	
MK 2	M3 - M12	01	46	38	19	9		212
MK 3	M3 - M12	01	46	38	19	9		312
MK 3	M6 - M20	02	69	55	31	15		320
MK 4	M6 - M20	02	70	55	31	15		420

Accessories



Collet

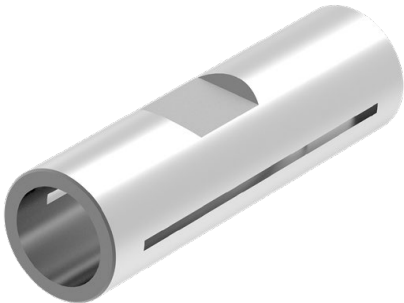
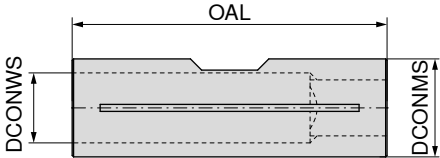


Others



CoreLine – Clamping sleeve for taps in Weldon chucks

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

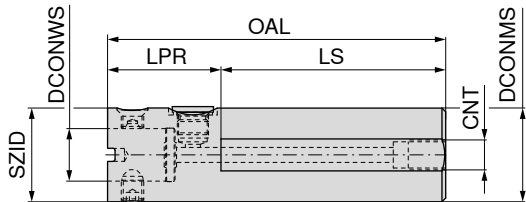


DCONWS _{H7} mm	DCONMS _{H6} mm	OAL mm
3,5	6	26
4,0	8	32
4,5	8	26
6,0	10	30
7,0	10	31
8,0	12	38
9,0	12	38
10,0	14	42
11,0	14	42
12,0	16	44
14,0	18	45
16,0	20	46

CT
80 699 ...
03500
04000
04500
06000
07000
08000
09000
10000
11000
12000
14000
16000

HyPower – Cylindrical shank adapter – ABS N

ABS N



AD

DCONWS	DCONMS	OAL	CNT	SZID	LS	LSC
mm	mm	mm			mm	mm
28	50	180	G3/8"	ABS 50 N	120	31
28	40	160	G3/8"	ABS 50 N	100	31
34	40	165	G3/8"	ABS 63 N	100	38
34	50	185	G3/8"	ABS 63 N	120	38
46	50	190	G3/8"	ABS 80 N	120	43
46	60	190	G3/8"	ABS 80 N	120	43

CT
84 232 ...
55099
45099
46399
56399
58099
68099

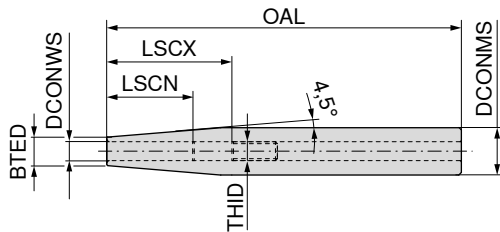
Spare parts
for Article no.

	CT	CT	CT	CT	CT	CT
	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
84 232 55099	20300	99800	31800	20200	20400	30700
84 232 45099	20300	99800	31800	20200	20400	30700
84 232 46399	25500	99400	31900	23900	27300	30800
84 232 56399	25500	99400	31900	23900	27300	30800
84 232 58099	25600	99300	32000	24000	25100	30900
84 232 68099	25600	99300	32000	24000	25100	30900

					
Clamping screw	Set	Positioning pin	Positioning pin	Taper screw	Sealing disc - ABS
CT	CT	CT	CT	CT	CT
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...

CoreLine – Shrink fit extension

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



DCONMS _{h6} mm	DCONWS mm	BTED mm	OAL mm	LSCX mm	LSCN mm	THID	DRVS mm
12	3	8	150				
12	4	8	150				
12	5	10	150				
12	6	10	150	36	26	M5	2,5
16	3	10	150				
16	4	10	150				
16	5	10	150				
16	6	10	150	36	26	M5	2,5
16	8	12	150	36	26	M6	3,0
20	3	10	150				
20	4	10	150				
20	5	10	150				
20	6	10	150	36	26	M5	2,5
20	8	12	150	36	26	M6	3,0
20	10	14	150	42	32	M8x1	3,0
20	12	16	150	47	37	M10x1	5,0
25	6	20	150	36	26	M5	2,5
25	8	20	150	36	26	M6	3,0
25	10	20	150	42	32	M8x1	3,0
25	12	20	150	47	37	M10x1	5,0
25	14	20	150	47	37	M10x1	5,0
25	16	22	150	50	40	M10x1	5,0
32	6	20	150	36	26	M5	2,5
32	8	20	150	36	26	M6	3,0
32	10	24	150	42	32	M8x1	3,0
32	12	24	150	47	37	M10x1	5,0
32	14	27	150	47	37	M10x1	5,0
32	16	27	150	50	40	M10x1	5,0
32	18	27	150	50	40	M10x1	5,0
32	20	27	150	52	42	M10x1	5,0

CT

84 310 ...

003

004

005

006

103

104

105

106

108

203

204

205

206

208

210

212

306

308

310

312

314

316

406

408

410

412

414

416

418

420



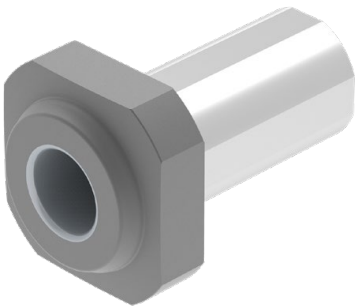
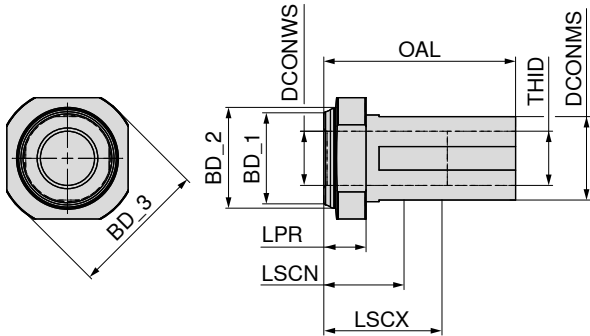
→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

CoreLine – Hydraulic chuck

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

Scope of supply:

Base body with backstop screw and pressure screw



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

CT
83 402 ...
31699
32099
41699
42099
42599



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
DCONWS

16 - 20
25



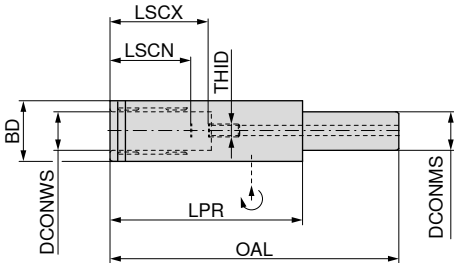
Stop screw IK

CT
83 950 ...
48500
48600

CoreLine – 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

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

CT
84 313 ...
112
120
132
232



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
for Article no.

84 313 112	
84 313 120	
84 313 132	
84 313 232	



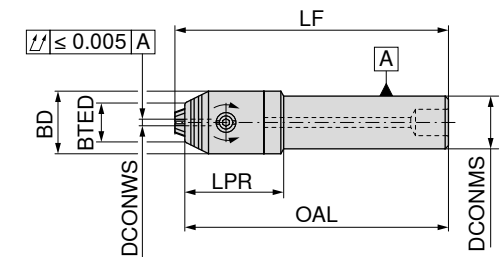
Stop screw IK

CT
83 950 ...
419
421
421
421

CoreLine – Micro-precision collet chuck

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

Scope of supply:
Holder including clamping wrench SW 2 x 60 mm





G 2,5 n_{max} 18000

CT

84 315 ...

161

162

163

201

202

203

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

Spare parts
for Article no.

84 315 161	152	0,5 - 2,0 Nm	191
84 315 162	152	0,5 - 2,0 Nm	191
84 315 163	152	0,5 - 2,0 Nm	191
84 315 201	152	0,5 - 2,0 Nm	191
84 315 202	152	0,5 - 2,0 Nm	191
84 315 203	152	0,5 - 2,0 Nm	191



Torx blade

AS

80 950 ...



Torque screwdriver

AS

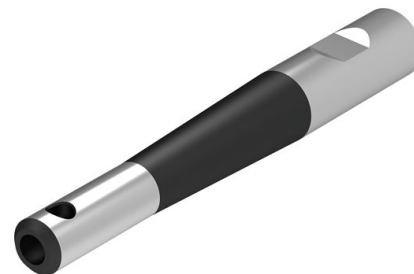
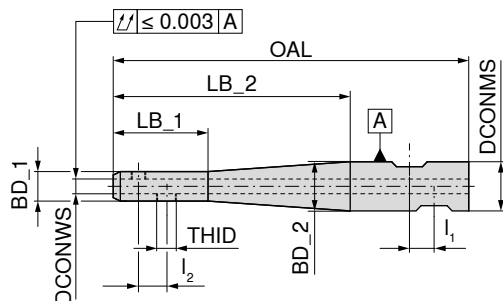
80 950 ...

CoreLine – Micro-extension

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

Scope of supply:

Holder with shank clamping screw



DCONWS mm	BD_1 mm	LB_1 mm	LB_2 mm	OAL mm	DCONMS mm	BD_2 mm	I ₁ mm	I ₂ mm	THID	TQX Nm
6	12	40	40	85	12	12	10	10	M6 x 0,5	7
6	12	40	100	150	20	20	10	10	M6 x 0,5	7
8	15	40	40	88	16	15	10	10	M8 x 0,75	8
8	15	40	100	150	20	20	10	10	M8 x 0,75	8
10	18	40	40	90	20	18	10	10	M10 x 1	12
10	18	40	100	150	20	20	10	10	M10 x 1	12
12	21	40	40	90	20	21	10	10	M12 x 1	15
12	21	40	100	150	20	21	10	10	M12 x 1	15
14	23	40	40	90	20	23	10	10	M12 x 1	15
14	23	40	100	150	20	23	10	10	M12 x 1	15
16	26	40	50	106	25	26	10	12	M14 x 1	18
16	26	40	100	156	25	26	10	12	M14 x 1	18
18	28	40	50	106	25	28	10	12	M14 x 1	18
18	28	40	100	156	25	28	10	12	M14 x 1	18
20	31	40	50	110	32	31	10	14	M16 x 1	20
20	31	40	100	160	32	31	10	14	M16 x 1	20

1) only pre-balanced design

CT

80 642 ...

00600

10600

00800

10800

01000

11000

01200

11200

01400

11400

01600 ¹⁾

11600 ¹⁾

01800 ¹⁾

11800 ¹⁾

02000 ¹⁾

12000 ¹⁾

Spare parts

DCONWS

6	21700
8	21800
10	21900
12 - 14	30000
16 - 18	31000
20	32000



Clamping screw

CT

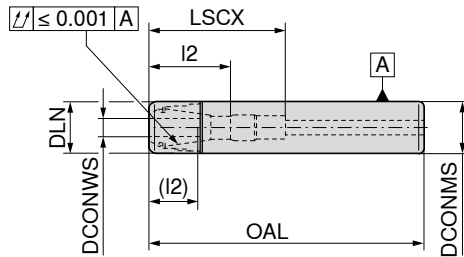
80 950 ...

CoreLine – ER-Mini precision collet chuck – Centro-P

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

Scope of supply:

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



DCONMS mm	DCONWS mm	DLN mm	OAL mm	LSCX mm	l ₂ (l ₂) mm	for collet	CT 84 456 ...
10	1 - 5	10	80	16		4004E (ER08)	00400
10	1 - 5	10	150	16		4004E (ER08)	005
10	1 - 5	10	200	16		4004E (ER08)	006
12	1 - 5	10	120	16		4004E (ER08)	11000
12	1 - 5	10	160	16		4004E (ER08)	11200
12	1 - 5	10	200	16		4004E (ER08)	11400
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	007
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	008
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	010
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	12000
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	102
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	104



LSCX = Clamping depth without back stop screw for shanks

l₂ = with back stop screw 1, dimension in brackets (l₂) = with back stop screw 2
dimension OAL when using tightening nuts with seals 4 mm longer



→ Find information on the permissible transmittable torques and minimum shank clamping depths here.

Spare parts
for collet

4004E (ER08)					
4008E (ER11)			M8x1 - SW4		
426E (ER16)			M11x1 - SW6		

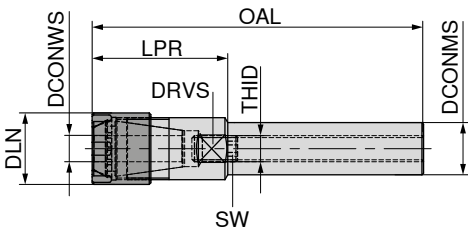
 Mini lock nut IK	 Mini lock nut	 Stop screw 2	 Stop screw 1
CT	CT	CT	CT
84 950 ...	84 950 ...	83 950 ...	83 950 ...
	040		
	041	M8x1 - SW4	M8x1 - SW4
	034	M11x1 - SW6	M11x1 - SW6
035		340	336
		341	337

Accessories

			
ER collet	Device	Roll key	Roll key device
→	→	→	→

CoreLine – ER collet chuck with mini clamping nut

▲ with cylindrical shank



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

CX
83 453 ...
081 ¹⁾
122
163
164
165
204
254
256

1) without coolant supply (form A)

Spare parts for collet

4004E (ER08)	099	M10x0,75	067			M5x0,8 SW 2,5	003
4004E (ER08)	099	M10x0,75	067				
4008E (ER11)	100	M13x0,75	065			M7,5x0,5 SW 3	004
426E (ER16)	101	M19x1	066	M19x1	058	M11x1 SW 5	006
426E (ER16)	101	M19x1	066	M19x1	058	M8x1,25 SW 4	005
428E (ER20)	102	M24x1	068	M24x1	059	M14x1 SW 5	007
430E (ER25)	103	M30x1	069	M30x1	060	M18x1 SW 5	008

Accessories



ER collet

→

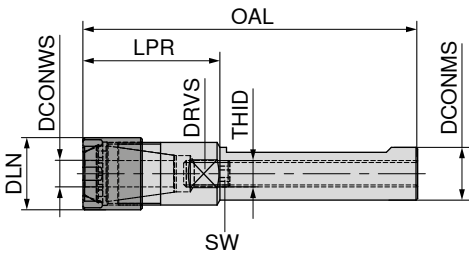


Others

→

CoreLine – ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



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

CX
83 454 ...
204
206
208
254
256

Spare parts for collet

	CT		CT		CT		CT
426E (ER16)	101	M19x1	066	M19x1	058	M11x1 SW 5	006
428E (ER20)	102	M24x1	068	M24x1	059	M14x1 SW 5	007
428E (ER20)	102	M24x1	068	M24x1	059	M11x1 SW 5	006
430E (ER25)	103	M30x1	069	M30x1	060	M18x1 SW 5	008
430E (ER25)	103	M30x1	069	M30x1	060	M14x1 SW 5	007

Accessories



ER collet

→

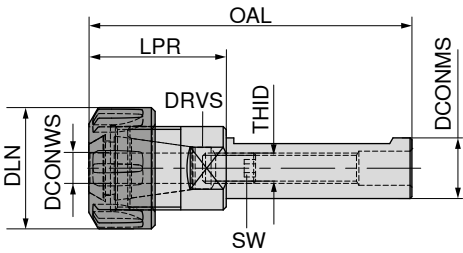


Others

→

CoreLine – ER Collet Chuck

▲ with cylindrical shank and clamping flat



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

CX
83 455 ...
401
402
405

Spare parts for collet

470E (ER32)	132							
472E (ER40)	140	M28x1,5x25 SW 6	096	M22x1,5x20 SW 5	095			



Y clamping key

CX

83 357 ...



Stop screw IK

CT

83 950 ...



Stop screw

CT

83 950 ...

Spare parts for collet

470E (ER32)	M40x1,5	056	M40x1,5	65600
472E (ER40)	M50x1,5	057	M50x1,5	65700



Lock nut IK

CT

83 950 ...



Lock nut

CT

62 950 ...

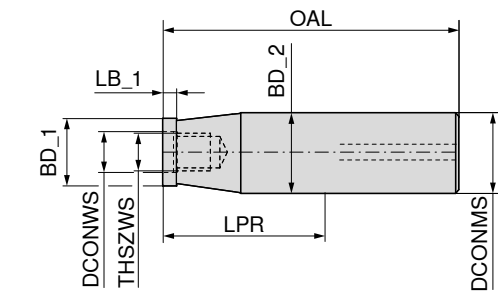
Accessories



ER collet

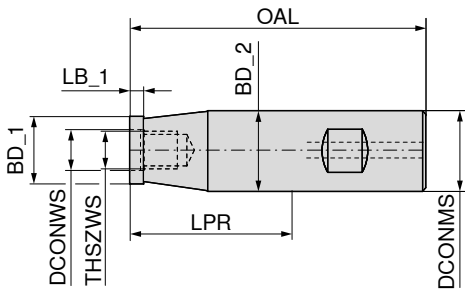
→

CoreLine – Adapter for milling cutters with threaded end with cylindrical shank



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	CX	
12	M5	5,5	20	9,5	7,8	11,8	65	82 750 ...	05266
12	M6	6,5	20	11,5	7,8	11,5	65	06066	06266
12	M6	6,5	40	11,5	7,8	11,5	85	08166	08266
16	M8	8,5	20	13,8	7,8	15,8	68	10166	10266
16	M8	8,5	40	13,8	7,8	15,8	88	12266	16266
20	M10	10,5	25	18,0	7,8	19,8	75		
20	M10	10,5	45	18,0	7,8	19,8	95		
25	M12	12,5	50	21,0	7,8	24,8	106		
32	M16	17,0	50	29,0	7,8	31,8	110		

CoreLine – Milling bar for cutters with threaded end Weldon



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
16	M8	8,5	20	13,8	7,8	15,8	68
16	M8	8,5	40	13,8	7,8	15,8	88
20	M10	10,5	25	18,0	7,8	19,8	75
20	M10	10,5	45	18,0	7,8	19,8	95
25	M12	12,5	30	21,0	7,8	24,8	86
25	M12	12,5	50	21,0	7,8	24,8	106
32	M16	17,0	50	29,0	7,8	31,8	110

CX
82 750 ...
08199
08299
10199
10299
12199
12299
16299

Accessories

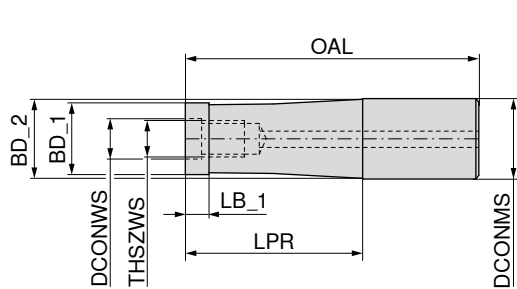


Extension-Reduction set



CoreLine – Screw-in adapter with cylindrical shank – Densimet

- ▲ Vibration-damped
- ▲ Densimet



DCONWS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
12	M5	5,5	40	9,5	9	11,3	85
12	M5	5,5	60	9,5	9	11,3	105
12	M5	5,5	80	9,5	9	11,3	125
16	M8	8,5	40	14,2	9	15,3	88
16	M8	8,5	60	14,2	9	15,3	108
16	M8	8,5	80	14,2	9	15,3	128
16	M8	8,5	100	14,2	9	15,3	148
16	M8	8,5	120	14,2	9	15,3	168
16	M8	8,5	150	14,2	9	15,3	198
20	M10	10,5	60	18,5	9	19,3	110
20	M10	10,5	80	18,5	9	19,3	130
20	M10	10,5	100	18,5	9	19,3	150
20	M10	10,5	120	18,5	9	19,3	170
20	M10	10,5	140	18,5	9	19,3	190
25	M12	12,5	75	23,0	9	24,3	131
25	M12	12,5	100	23,0	9	24,3	156
25	M12	12,5	125	23,0	9	24,3	181
25	M12	12,5	150	23,0	9	24,3	206
25	M12	12,5	175	23,0	9	24,3	231

CT
82 751 ...
05266
05366
05466
08266
08366
08466
08566
08666
08766
10366
10466
10566
10666
10766
12466
12566
12666
12766
12866

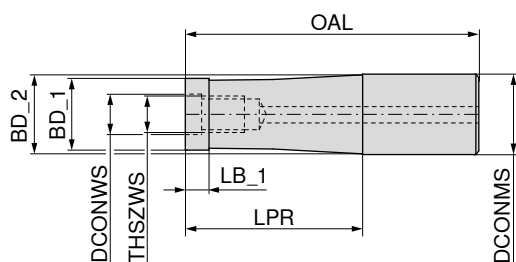
Accessories



Extension-Reduction set

CoreLine – Screw-in adapter with cylindrical shank – solid carbide

▲ Vibration-damped



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm
12	M6	6,5	20	11,5		11,5	65
12	M6	6,5	40	11,5		11,5	85
12	M6	6,5	60	11,5		11,5	105
12	M6	6,5	80	11,5		11,5	125
12	M6	6,5	100	11,5		11,5	145
16	M8	8,5	40	14,2	9	15,3	88
16	M8	8,5	60	14,2	9	15,3	108
16	M8	8,5	80	14,2	9	15,3	128
16	M8	8,5	100	14,2	9	15,3	148
16	M8	8,5	120	14,2	9	15,3	168
20	M10	10,5	60	18,5	9	19,3	110
20	M10	10,5	80	18,5	9	19,3	130
20	M10	10,5	100	18,5	9	19,3	150
20	M10	10,5	120	18,5	9	19,3	170
20	M10	10,5	140	18,5	9	19,3	190
25	M12	12,5	80	23,0	9	24,3	136
25	M12	12,5	100	23,0	9	24,3	156
25	M12	12,5	120	23,0	9	24,3	176
25	M12	12,5	140	23,0	9	24,3	196
25	M12	12,5	160	23,0	9	24,3	216
32	M16	17,0	100	29,0	9	31,5	160
32	M16	17,0	150	29,0	9	31,5	210
32	M16	17,0	200	29,0	9	31,5	260
32	M16	17,0	250	29,0	9	31,5	310
32	M16	17,0	300	29,0	9	31,5	360

CT

56 743 ...

060

062

063

064

065

082

083

084

085

086

103

104

105

106

107

124

125

126

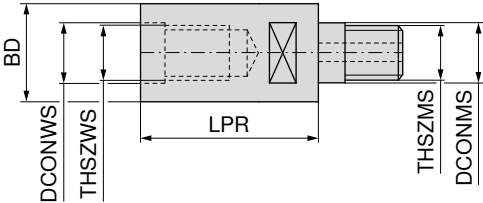
127

128

165 ¹⁾166 ¹⁾167 ¹⁾168 ¹⁾169 ¹⁾

1) On request

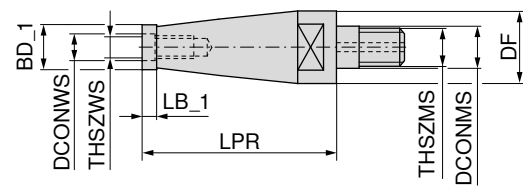
CoreLine – Extensions for milling cutters with threaded end



THSZWS	THSZMS	DCONWS mm	DCONMS mm	LPR mm	BD mm
M10	M10	10,5	10,5	60	18,0
M10	M10	10,5	10,5	40	18,0
M12	M12	12,5	12,5	40	21,0
M12	M12	12,5	12,5	60	21,0
M16	M16	17,0	17,0	40	29,0
M16	M16	17,0	17,0	60	29,0
M8	M8	8,5	8,5	60	13,8
M8	M8	8,5	8,5	40	13,8

CX
82 752 ...
10200
10100
12100
12200
16100
16200
08200
08100

CoreLine – Reductions for milling cutters with threaded end



THSZWS	THSZMS	DCONMS mm	DCONWS mm	LPR mm	BD_1 mm	DF mm	LB_1 mm
M6	M8	8,5	6,5	20	9,5	13,8	7,8
M8	M10	10,5	8,5	40	13,8	18,0	7,8
M8	M12	12,5	8,5	60	13,8	21,0	7,8
M10	M12	12,5	10,5	40	18,0	21,0	7,8
M10	M16	17,0	10,5	60	18,0	29,0	7,8
M12	M16	17,0	12,5	40	21,0	29,0	7,8

CX

82 753 ...

06000

08100

08200

10100

10200

12100

MultiChange – Programme Overview

The "MultiChange" interchangeable head system enables an extremely fast and problem free tool change. Provides quick changeover and concentricity with the highest stability at the same time. For a multitude of applications, the suitable interchangeable heads are available in the following chapters.

Exchangeable heads

→ Solid carbide drilling

Solid Carbide NC Spot Drills

Ø 8, 10, 12, 16, 20 mm
NOF 2



SIG 90°



SIG 120°



SIG 142°

→ Reaming and countersinking

Replaceable reaming heads

Ø 8,00 – 30,20 mm



Through hole

Ø 12,20 – 30,20 mm



Blind hole

→ Solid carbide milling cutters

Solid carbide shoulder mills

Ø 8, 10, 12, 16, 20 mm /
ZEFP 3+4



Type PCR-UNI



Type PCR-ALU



Type N

Solid carbide torus bull nose milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP 3+4



Type W



Type N

Solid carbide rough and finish milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP 4+6



Type NF

Solid carbide finish milling cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP 6



Type N

Solid carbide ball-nosed end mills

Ø 10, 12, 16, 20 mm / ZEFP 4



Type N

Solid carbide high-feed cutters

Ø 8, 10, 12, 16, 20 mm / ZEFP 6



Type N

Solid carbide quarter round cutter

Ø 8, 10, 12, 16, 20 mm / ZEFP 6



Type N

Solid carbide deburring cutters

Ø 10, 12, 16, 20 mm / ZEFP 4+6



Type N



Type N

NOF / ZEFP = Number of cutting edges

Tool holder

→ Adapters and accessories

OAL 60 – 90 mm



Tapered 87° / Steel



Cylindrical* / Steel

OAL 85 – 120 mm



Tapered 87° / Steel



Cylindrical* / Steel



Tapered 87° / Solid carbide



Cylindrical* / Solid carbide

OAL 110 – 150 mm



Tapered 87° / Solid carbide



Cylindrical* / Solid carbide

OAL 150 – 200 mm



Tapered 87° / Solid carbide



Cylindrical* / Steel



Cylindrical* / Solid carbide

OAL 200 – 250 mm



Cylindrical* / Steel



Cylindrical* / Solid carbide

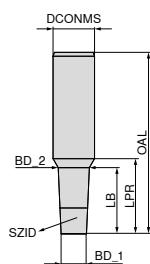
* only conditionally suitable for milling

CoreLine – Holders – MultiChange

- ▲ Tapered 87°
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



Steel



Solid carbide



Solid carbide



Solid carbide



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

CT
84 001 ...

CT
84 004 ...

CT
84 005 ...

CT
84 007 ...

CT
84 010 ...

080

080

080

080

080

100

100

100

100

100

120

120

120

120

120

160

160

160

160

160

200

200

200

200

200



→ You can find the assembly instructions here.

Accessories



insertion key



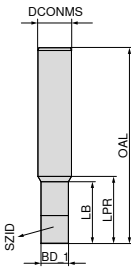
Adjustable wrench



CoreLine – Holders – MultiChange

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

Scope of supply:
Holder without mounting key



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



			
Steel	Steel	Steel	Steel
			
CT	CT	CT	CT
84 000 ...	84 002 ...	84 008 ...	84 011 ...
080	080	080	
100	100	100	
120	120	120	
160	160	160	160
200	200	200	200



→ You can find the assembly instructions here.

Accessories



insertion key

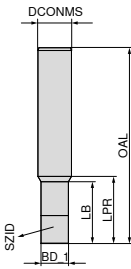


Adjustable wrench

CoreLine – Holders – MultiChange

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

Scope of supply:
Holder without mounting key



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



			
Solid carbide	Solid carbide	Solid carbide	Solid carbide
			
CT	CT	CT	CT
84 003 ...	84 006 ...	84 009 ...	84 012 ...
080	080	080	
100	100	100	
120	120	120	
160	160	160	160
200	200	200	200



→ You can find the assembly instructions here.

Accessories



insertion key



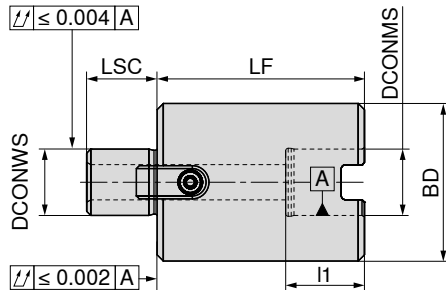
Adjustable wrench

CoreLine – 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



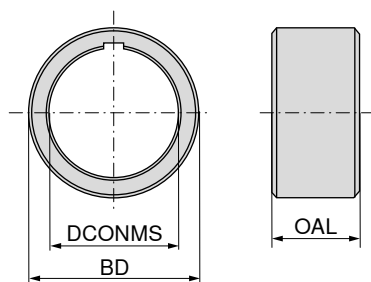
DCONWS _{h5} mm	DCONMS _{h5} mm	LF mm	BD mm	LSC mm	I ₁ mm	CX 82 648 ...
16	16	50	38	17	19	050
16	16	75	38	17	19	075
22	22	50	48	19	21	150
22	22	75	48	19	21	175
27	27	50	58	21	23	250
27	27	75	58	21	23	275
32	32	50	78	24	26	350
32	32	75	78	24	26	375
40	40	50	88	27	29	450
40	40	75	88	27	29	475



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

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

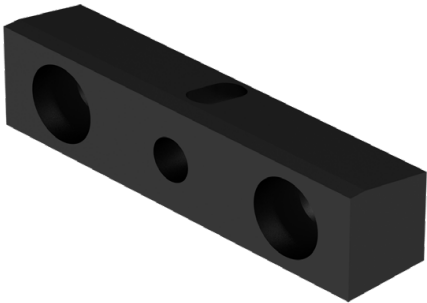
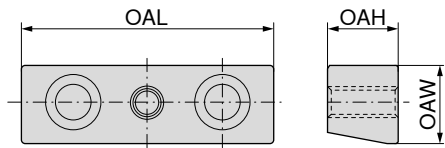
Milling Adapter Rings DIN 2084 Form B



			CX
DCONMS mm	BD mm	OAL mm	83 385 ...
13	22	2	013
13	22	3	113
13	22	4	213
13	22	5	313
13	22	6	413
13	22	10	513
16	26	2	016
16	26	3	116
16	26	4	216
16	26	5	316
16	26	6	416
16	26	10	516
16	26	20	616
16	26	30	716
22	34	2	022
22	34	3	122
22	34	4	222
22	34	5	322
22	34	6	422
22	34	10	522
22	34	20	622
22	34	30	722
27	41	2	027
27	41	3	127
27	41	4	227
27	41	5	327
27	41	6	427
27	41	10	527
27	41	20	627
27	41	30	727
32	47	2	032
32	47	3	132
32	47	4	232
32	47	5	332
32	47	6	432
32	47	10	532
32	47	20	632
32	47	30	732
40	55	2	040
40	55	3	140
40	55	4	240
40	55	5	340
40	55	6	440
40	55	10	540
40	55	20	640
40	55	30	740

Clamping rail

▲ Spare parts for VDI holders with DirectCooling

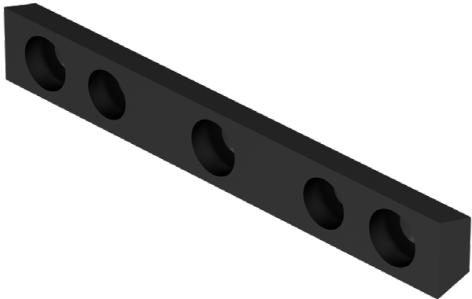
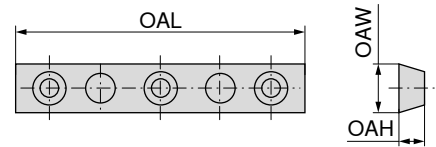


OAL mm	OAW mm	OAH mm
53,0	12,7	11,5
54,0	16,0	15,0
67,5	16,0	15,0
68,0	21,0	19,0
83,0	20,5	19,0
90,0	20,5	19,0

CT
82 250 ...
05300
05400
06750
06800
08300
09000

Clamping wedge

▲ Spare parts for VDI holders with DirectCooling

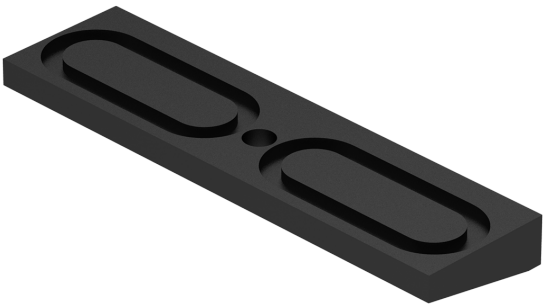
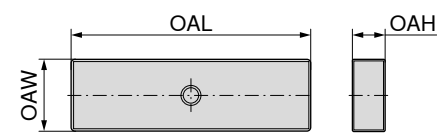


OAL mm	OAW mm	OAH mm
70	14	7,3
85	14	7,3
100	14	7,3

CT
82 250 ...
07000
08500
10000

Levelling plates

▲ Spare parts for VDI holders with DirectCooling



OAL mm	OAW mm	OAH mm
53,0	14	6,1
67,5	18	6,3
83,0	22	7,5
90,0	22	7,5

CT
82 250 ...
15300
16750
18300
19000

Screw for ball-shaped spray nozzle

▲ Spare parts for VDI holders with DirectCooling



THOD
M3x10
M4x10
M5x12
M6x12

CX
82 950 ...
31000
31300
31100
31200

Ball-shaped spray nozzle

▲ Spare parts for VDI holders with DirectCooling



THID	BD mm
M5	8
M6	10
M6	12
M6	14

CX
82 950 ...
30600
30900
30700
30800

O ring for clamping wedge

▲ Spare parts for VDI holders with DirectCooling



Size
Ø13 x Ø2
Ø18 x Ø2
Ø22 x Ø2

CX
82 950 ...
32600
32700
32800

O ring for ball-shaped spray nozzle

▲ Spare parts for VDI holders with DirectCooling



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

Quad ring

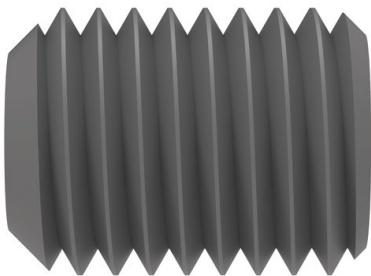
▲ Spare parts for VDI holders with DirectCooling



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

Screw plug for ball-shaped spray nozzle

▲ Spare parts for VDI holders with DirectCooling



THOD	OAL mm
M5	6
M6	6

CX
82 950 ...
32900
33000

Screw for clamping wedge

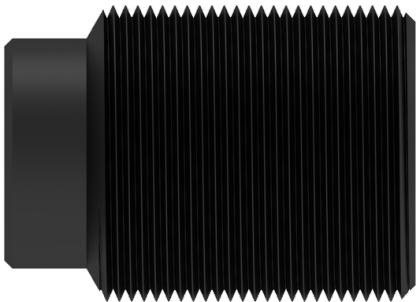
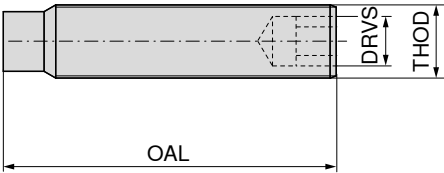
▲ Spare parts for VDI holders with DirectCooling



THOD
M5x12
M6x16
M6x20
M8x20
M8x25

CX
82 950 ...
31800
32200
31900
32300
32100

Screw for cylindrical adaptors E2



THOD	OAL mm	DRVS mm
M6	12	3
M6	16	3
M6	25	3
M8	10	4
M8	12	4
M8	16	4
M8	20	4
M8	25	4
M8	30	4
M10	16	5
M10	20	5
M10	25	5
M10	30	5
M12	12	6
M12	16	6
M12	20	6
M12	25	6

CT
83 950 ...
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477

Clamping screw for cylindrical adaptors E1

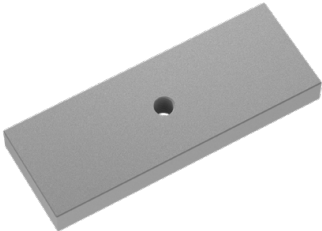
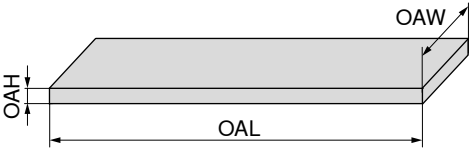


THOD
M10x1x10
M12x1x12
M16x1x13

CT
83 950 ...
180
181
182

Levelling plates

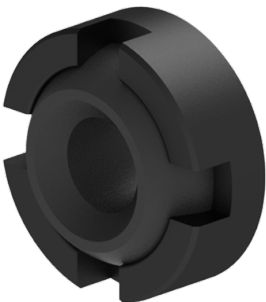
- ▲ For axial and radial tool holders
- ▲ Without mounting thread



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

Coolant nozzle

▲ For square shank holders and parting blade holders with DirectCooling

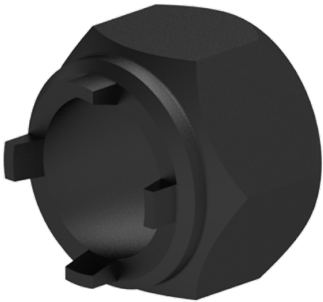


Size
M12x1

CT
70 950 ...
92800

Key

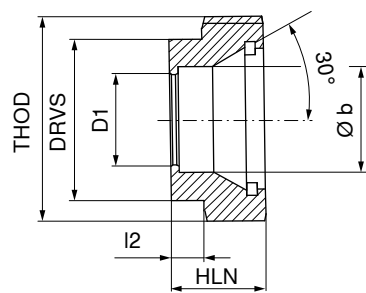
▲ For square shank holders and parting blade holders with DirectCooling



Size	OAL mm	DRVS mm
12	11	13

CT
70 950 ...
92900

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



for collet	THOD	DRVS mm	CT 83 950 ...	
ER 16	M24x1	19	45600	
ER 20	M28x1,5	22	45700	
ER 25	M32x1,5	24	45800	
ER 32	M40x1,5	32	45900	

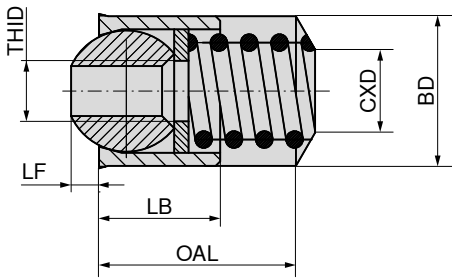
Pipe joints

▲ steel pipe



THOD	CXD mm	Type	CT 83 950 ...	
M8x1	5	A	372	
M10x1	6	A	373	
M10x1	8	A	374	
M8x1	5	B	375	
M10x1	6	B	376	
M10x1	8	B	377	

Spray nozzle element



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

CT
83 950 ...
247
248
249

Ball-shaped spray nozzle



THID
M5
M6
M8

CT
83 950 ...
200
201
202

O-Ring



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

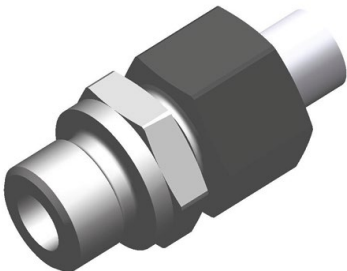
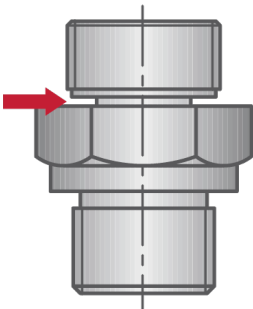
Sealing ring for coolant ring



DCONWS mm	DCONMS mm	for	OAW mm
56	50	KRD 50	4
66	60	KRD 60	4
76	70	KRD 70	4
86	80	KRD 80	4

CT
84 244 ...
00500
01600
01700
01800

Coolant connection with break section

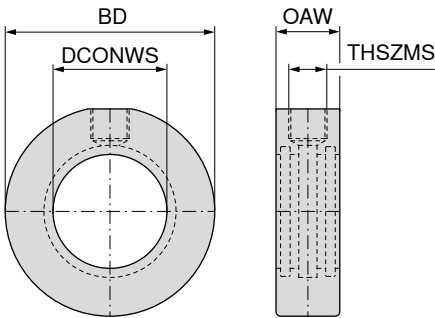


for	THOD	DRVS mm
KRD	NPT 1/8"	3/8"

CT
84 244 ...
00300

Coolant ring for rotating adaptors

- ▲ Circumferential speed 15-20 m/s
- ▲ Coolant pressure up to approx. 10 bar



DCONWS mm	THSZMS	for	OAW mm	BD mm
50	3/8"	Ø50	28	91
70	3/8"	Ø70	28	110
80	3/8"	Ø80	28	120
100	3/8"	Ø100	28	140

CT
84 244 ...
00700
00800
00900
01000

Circlip DIN 471



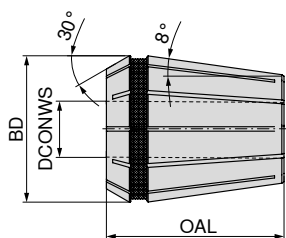
Size	BD mm
Ø50x2	50

CT
84 244 ...
00100

ER precision collet for precision collet chucks

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

ER-B
2 µm



	BD = 8,5 OAL = 13,6 4004 E / ER08	BD = 11,5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27,5 426 E / ER16	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	CT	CT	CT	CT	CT	CT
DCONWS mm	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			
9,0			090	090	090	090
9,5			095	095		
10,0			100 ¹⁾	100 ¹⁾	100 ¹⁾	100
10,5				105		
11,0				110	110	110
11,5				115		
12,0				120 ¹⁾	120 ¹⁾	120
12,5				125		

1) Included in the set

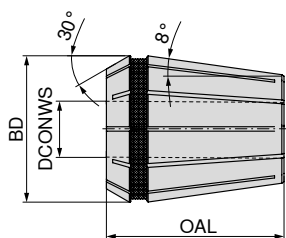


Clamping range covered: H10 corresponding to shank Ø DCONWS

ER precision collet for precision collet chucks

- ▲ 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
	CT 84 577 ...	CT 84 585 ...	CT 84 596 ...	CT 84 597 ...	CT 84 598 ...	CT 84 599 ...
13,0				130	130	130
13,5				135		
14,0				140 ¹⁾	140 ¹⁾	140
14,5				145		
15,0				150	150	150
15,5				155		
16,0				160 ¹⁾	160 ¹⁾	160
17,0					170	170
18,0					180	180
19,0					190	190
20,0					200 ¹⁾	200
21,0						210
22,0						220
23,0						230
24,0						240
25,0						250
26,0						260
Set in wooden box			999	999	999	

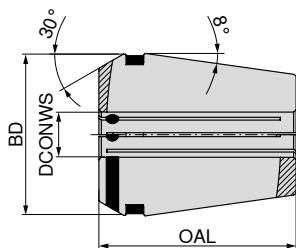
1) Included in the set



Clamping range covered: H10 corresponding to shank Ø DCONWS

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

ER-B
2 μm

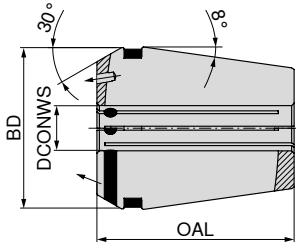


		BD = 11,3 OAL = 18 425 E / ER11	BD = 16,7 OAL = 27,5 425 E / ER16	BD = 25,7 OAL = 34 429 E / ER25	BD = 32,7 OAL = 40 469 E / ER32	BD = 40,7 OAL = 46 471 E / ER40
		CT	CT	CT	CT	CT
DCONWS		84 536 ...	84 537 ...	84 538 ...	84 539 ...	84 540 ...
mm						
3		030	030	030	030	
4		040	040	040	040	
5		050	050	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

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

ER-A
2 µm

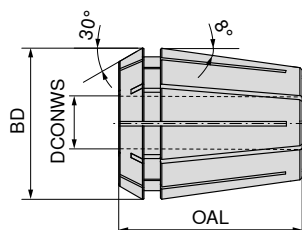


DCONWS mm	BD = 11,3 OAL = 18 4012 E / ER11	BD = 16,7 OAL = 27,5 425 E / ER16	BD = 25,7 OAL = 34 429 E / ER25	BD = 32,7 OAL = 40 469 E / ER32	BD = 40,7 OAL = 46 471 E / ER40
	CT	CT	CT	CT	CT
	84 547 ...	84 548 ...	84 549 ...	84 550 ...	84 551 ...
3	03000	03000			
4	04000	040	040	040	
6	06000	060	060	060	06000
8		080	080	080	08000
10		10000	100	100	100
12			120	120	120
14			140	140	
16			16000	160	160
18				180	
20				200	200
25					250

ER precision collet

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

ER-B
5 µm



	BD = 11,5 OAL = 18 4008 E / ER11	BD = 17 OAL = 27,5 426 E / ER16	BD = 21 OAL = 31,5 428 E / ER20	BD = 26 OAL = 34 430 E / ER25	BD = 33 OAL = 40 470 E / ER32	BD = 41 OAL = 46 472 E / ER40
	CX	CX	CX	CX	CX	CX
DCONWS mm	84 576 ...	84 578 ...	84 579 ...	84 580 ...	84 581 ...	84 582 ...
1,000	010	010	010 ¹⁾	010 ¹⁾		
1,500	015	015 ¹⁾	015 ¹⁾	015 ¹⁾		
2,000	020	020	020	020	020 ¹⁾	
2,500	025	025 ¹⁾	025 ¹⁾	025 ¹⁾	025 ¹⁾	
3,000	030	030	030	030	030	030 ¹⁾
3,175		12500 ¹⁾		12500 ¹⁾	12500 ¹⁾	
3,500	035					
3,970		15600 ¹⁾				
4,000	040	040	040	040	040	040
4,500	045					
4,750		18700 ¹⁾		18700 ¹⁾	18700 ¹⁾	
5,000	050	050	050	050	050	050
5,500	055					
5,556		21900 ¹⁾				
6,000	060	060	060	060	060	060
6,350		25000 ¹⁾		25000 ¹⁾	25000 ¹⁾	
6,500	065					
7,000	070	070	070	070	070	070
7,925		31200 ¹⁾		31200 ¹⁾	31200 ¹⁾	
8,000		080	080	080	080	080
9,000		090	090	090	090	090
9,525		37500 ¹⁾		37500 ¹⁾	37500 ¹⁾	
10,000		100	100	100	100	100
11,000			110	110	110	110
11,100				43700 ¹⁾	43700 ¹⁾	
12,000			120	120	120	120
12,700				50000 ¹⁾	50000 ¹⁾	
13,000			130	130	130	130
14,000				140	140	140
14,275				56200 ¹⁾	56200 ¹⁾	
15,000				150	150	150
15,875				62500 ¹⁾	62500 ¹⁾	
16,000				160	160	160
17,000					170	170
18,000					180	180
19,000					190	190
19,050					75000 ¹⁾	
20,000					200	200
21,000						210
22,000						220
23,000						230
24,000						240
25,000						250
26,000						260
Set in wooden box	999	999	999	999	999	999

1) not included in the set

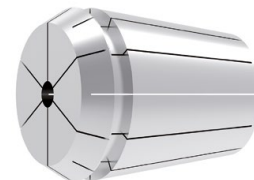
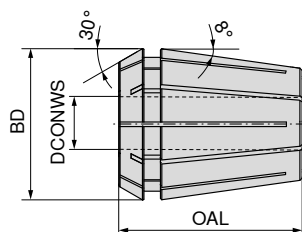


Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

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

ER-B
10 µm



DCONWS mm	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
	CX	CX	CX	CX
1,0	82 683 ...	82 684 ...	82 685 ...	82 686 ...
1,5	01000	01000		
2,0	01500	02000	02000	
2,5	02000	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

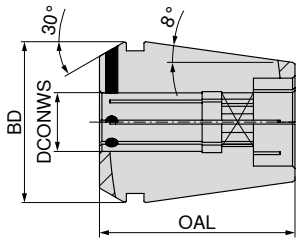


Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER precision tap collet

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

ER-A
10 µm



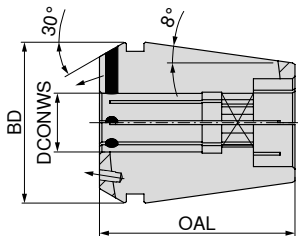
DCONWS
mm
2,8
3,5
4,0
4,5
6,0
7,0
8,0
9,0
10,0
11,0
12,0
14,0
16,0
18,0
20,0

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
CT	CT	CT
84 531 ...	84 533 ...	84 534 ...
028		
035	035	
040	040	040
045	045	045
060	060	060
070	070	070
080	080	080
090	090	090
	100	100
	110	110
	120	120
	140	140
	160	160
		180
		200

ER precision collet, sealed with coolant channels

- ▲ Similar to DIN ISO 15488-A
- ▲ 8 times slotted
- ▲ For Centro-P and standard chucks
- ▲ Coated collet

ER-A
10 µm

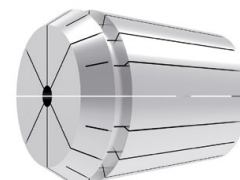
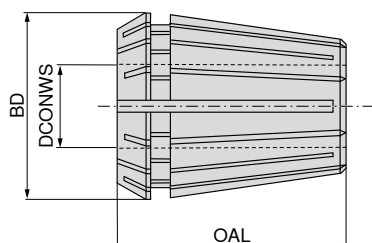


DCONWS mm	BD = 16,7 OAL = 27,5 4537 E / ER16		BD = 25,7 OAL = 34 4537 E / ER25		BD = 32,7 OAL = 40 4537 E / ER32	
	CT		CT		CT	
3,5	84 567 ...		84 568 ...		84 569 ...	
4,5	035		045		045	
6,0	045		060		060	
7,0	060		070		070	
8,0	070		080		080	
9,0	080		090		090	
10,0	09000		100		100	
11,0			110		110	
12,0			120		120	
14,0			140		140	
16,0			16000		160	
18,0					180	
20,0					200	

ER precision collet

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

ER-B
20 µm



DCONWS mm	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	
	CX		CX		CX		CX		CX	
1	82 687 ...	01000	82 688 ...	01000	82 689 ...		82 690 ...		82 691 ...	
2		02000		02000		02000				
3		03000		03000		03000		03000		03000
4		04000		04000		04000		04000		04000
5		05000		05000		05000		05000		05000
6		06000		06000		06000		06000		06000
7		07000		07000		07000		07000		07000
8		08000		08000		08000		08000		08000
9		09000		09000		09000		09000		09000
10		10000		10000		10000		10000		10000
11				11000		11000		11000		11000
12				12000		12000		12000		12000
13				13000		13000		13000		13000
14						14000		14000		14000
15						15000		15000		15000
16						16000		16000		16000
17								17000		17000
18								18000		18000
19								19000		19000
20								20000		20000
21										21000
22										22000
23										23000
24										24000
25										25000
26										26000
Set in plastic case		99900			99900		99900		99900	

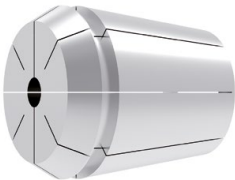
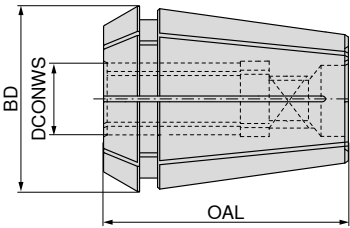


Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet with internal square

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

ER-A
15 µm

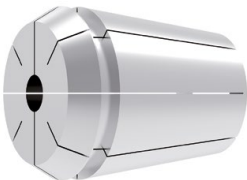
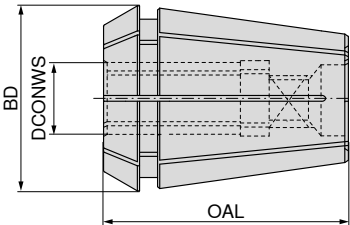


		BD = 16,7 OAL = 27,5 426 E / ER16	BD = 25,7 OAL = 34 430 E / ER25	BD = 32,7 OAL = 40 470 E / ER32	BD = 40,7 OAL = 46 472 E / ER40
		CX	CX	CX	CX
DCONWS		82 695 ...	82 692 ...	82 693 ...	82 694 ...
mm					
2,8		02800			
3,5		03500			
4,0		04000			
4,5		04500	04500	04500	
5,0		05000			
5,5		05500	05500	05500	
6,0		06000	06000	06000	
7,0		07000	07000	07000	07000
8,0		08000	08000	08000	08000
9,0		09000	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

ER collet with internal square

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

ER-A
15 µm



BD = 20,7
OAL = 31,5
428 E / ER20

DCONWS mm	
4,5	
6,0	
7,0	
8,0	
9,0	
10,0	
11,0	

CT
84 333 ...
04500
06000
07000
08000
09000
10000
11000

Wooden boxes for collets

▲ For collets form A+B

Scope of supply:
empty wooden box

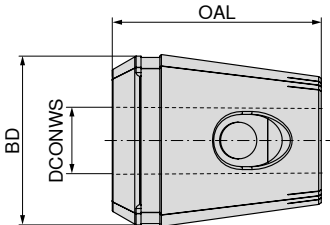


		CT	
for collet	capacity	83 689 ...	
4004E (ER08)	9		008
426E (ER16)	10		116
428E (ER20)	11		020
4008E (ER11)	13		011
430E (ER25)	14		025
470E (ER32)	18		032
472E (ER40)	24		040

ER wedge collet with pull out protection, for precision collet chucks

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

ER
5 µm



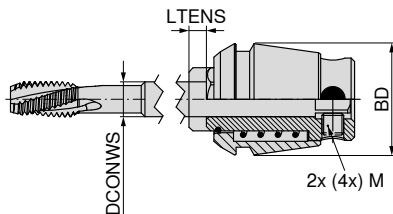
		BD = 32,7 OAL = 40 ER 32	
		CT	
DCONWS mm		83 629 ...	
12		120	
16		160	

Spare parts DCONWS		 Conical spring	
		CT	
		83 950 ...	
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



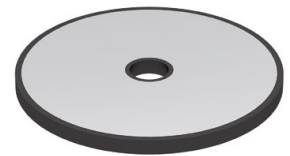
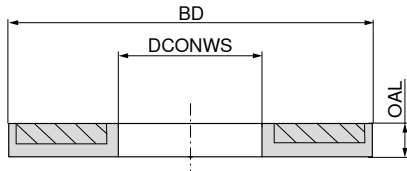
DCONWS mm	BD = 17 OAL = 30 426 E / ER16	BD = 21 OAL = 33,5 428 E / ER20	BD = 26 OAL = 33,5 430 E / ER25	BD = 33 OAL = 46 470 E / ER32	BD = 41 OAL = 58 472 E / ER40
	CT 80 661 ...	CT 80 662 ...	CT 80 663 ...	CT 80 664 ...	CT 80 665 ...
2,2	022	022			
2,5	025	025	025		
2,8	028	028	028		
3,0	030	030	030		
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

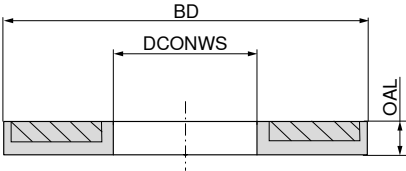
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



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)
	CT	CT	CT	CT	CT
1,0	83 690 ... 010				
1,5	015				
2,0	020	020	020	020	
2,5	025	025	025	025	
3,0	030	030	030	030	030
3,5	035	035	035	035	035
4,0	040	040	040	040	040
4,5	045	045	045	045	045
5,0	050	050	050	050	050
5,5	055	055	055	055	055
6,0	060	060	060	060	060
6,5	065	065	065	065	065
7,0	070	070	070	070	070
7,5	075	075	075	075	075
8,0	080	080	080	080	080
8,5	085	085	085	085	085
9,0	090	090	090	090	090
9,5	095	095	095	095	095
10,0	100	100	100	100	100
10,5		105	105	105	105
11,0		110	110	110	110
11,5		115	115	115	115
12,0		120	120	120	120
12,5		125	125	125	125
13,0		130	130	130	130
13,5			135	135	135
14,0			140	140	140
14,5			145	145	145
15,0			150	150	150
15,5			155	155	155
16,0			160	160	160
16,5				165	165
17,0				170	170
17,5				175	175
18,0				180	180
18,5				185	185
19,0				190	190
19,5				195	195
20,0				200	200
20,5					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

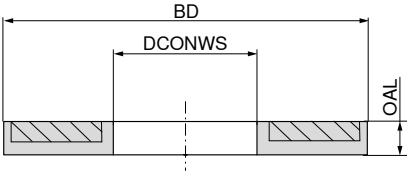
Sealing rings for precision collet chucks

- ▲ 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)
	CX 82 630 ...	CX 82 631 ...	CX 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

Sealing discs for collet chuck

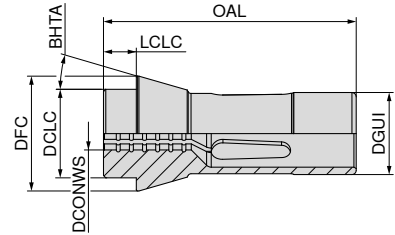


DCONWS mm
3,0
3,5
4,0
4,5
5,0
5,5
6,0
6,5
7,0
7,5
8,0
8,5
9,0
9,5
10,0
10,5
11,0
11,5
12,0
12,5
13,0
13,5
14,0
14,5
15,0
15,5
16,0
16,5
17,0
17,5
18,0
18,5
19,0
19,5
20,0

BD = 27 OAL = 4 470E (ER32)	BD = 16 OAL = 4 428E (ER20)
CT 84 331 ...	CT 84 334 ...
03000	
03500	
04000	
	04500
05000	
05500	
06000	06000
06500	
07000	07000
07500	
08000	08000
08500	
09000	09000
09500	
10000	10000
10500	
11000	11000
11500	
12000	
12500	
13000	
13500	
14000	
14500	
15000	
15500	
16000	
16500	
17000	
17500	
18000	
18500	
19000	
19500	
20000	

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
116 E / F 13	13	19	13	6	64	16



Pressure collet 116 E / F 13



Grooved
116 E / F 13

Smooth
116 E / F 13

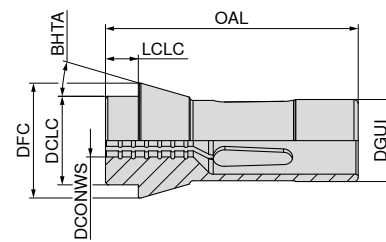
DCONWS mm
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5
5,0
5,5
6,0
6,5
7,0
7,5
8,0
8,5
9,0
9,5
10,0

CW
81 000 ...
06000
06500
07000
07500
08000
08500
09000
09500
10000

CW
81 002 ...
01000
01500
02000
02500
03000
03500
04000
04500
05000
05500
06000
06500
07000
07500
08000
08500
09000
09500
10000

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
120 E / F 15	15	21	15	6	64	16



Pressure collet 120 E / F 15



Grooved
120 E / F 15

Smooth
120 E / F 15

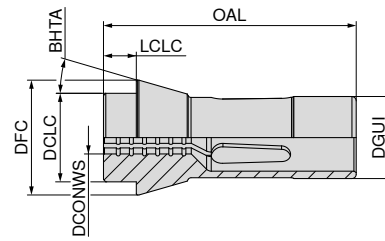
Grooved
120 E / F 15

DCONWS mm	DCONWS inch	CW 81 003 ...	CW 81 005 ...	CW 81 031 ...
1,000			01000	
1,500			01500	
2,000			02000	02000 ¹⁾
2,500			02500	
3,000			03000	03000 ¹⁾
3,175	1/8			03175 ¹⁾
3,500			03500	
4,000			04000	04000 ¹⁾
4,500			04500	
5,000			05000	05000 ¹⁾
5,500			05500	
6,000		06000	06000	06000 ¹⁾
6,350	1/4			06350 ¹⁾
6,500		06500	06500	
7,000		07000	07000	07000 ¹⁾
7,500		07500	07500	
8,000		08000	08000	08000
8,500		08500	08500	
9,000		09000	09000	09000
9,500			09500	
10,000		10000	10000	10000
10,500		10500	10500	
11,000		11000	11000	11000
11,500		11500	11500	
12,000		12000	12000	

¹⁾ Without transverse grooves

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
F 16 / 1212 E	16	21	16	6	64	16



Pressure collet F 16 / 1212 E



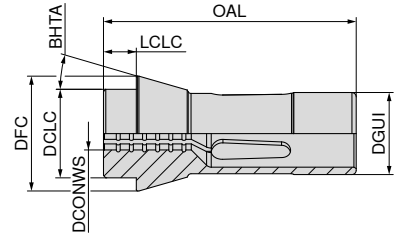
Grooved
F 16 / 1212 E

Smooth
F 16 / 1212 E

DCONWS	81 019 ...	81 021 ...
mm		
1,0		01000
1,5		01500
2,0		02000
2,5		02500
3,0		03000
3,5		03500
4,0		04000
4,5		04500
5,0		05000
5,5		05500
6,0	06000	06000
6,5	06500	06500
7,0	07000	07000
7,5	07500	07500
8,0	08000	08000
8,5	08500	08500
9,0	09000	09000
9,5	09500	09500
10,0	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

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
136 E / F 20-201	20	26	19	5	54	15



Pressure collet 136 E / F 20-201



- Grooved

136 E / F 20-201
- Smooth

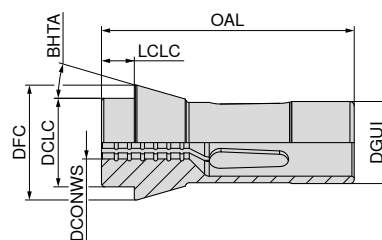
136 E / F 20-201

DCONWS mm
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5
5,0
5,5
6,0
6,5
7,0
7,5
8,0
8,5
9,0
9,5
10,0
10,5
11,0
11,5
12,0
12,5
13,0
13,5
14,0
14,5
15,0
15,5
16,0

CW	CW
81 007 ...	81 009 ...
	01000
	01500
	02000
	02500
	03000
	03500
	04000
	04500
	05000
	05500
06000	06000
06500	06500
07000	07000
07500	07500
08000	08000
08500	08500
09000	09000
09500	09500
10000	10000
10500	10500
11000	11000
11500	11500
12000	12000
12500	12500
13000	13000
13500	13500
14000	14000
14500	14500
15000	15000
15500	15500
16000	16000

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
138 E / F20-87	20	28	21	7	67	16



Pressure collet 138 E / F 20-87



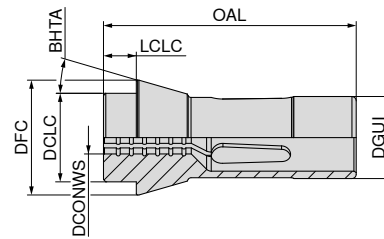
 Grooved
138 E / F20-87
  Smooth
138 E / F20-87
  Grooved
138 E / F20-87

DCONWS mm	DCONWS inch	CW 81 011 ...	CW 81 013 ...	CW 81 026 ...
1,00			01000	
1,50			01500	
2,00			02000	02000 ¹⁾
2,50			02500	
3,00			03000	03000 ¹⁾
3,50			03500	
4,00			04000	04000 ¹⁾
4,50			04500	
5,00			05000	05000 ¹⁾
5,50			05500	
6,00		06000	06000	06000 ¹⁾
6,35	1/4			06350 ¹⁾
6,50		06500	06500	
7,00		07000	07000	07000 ¹⁾
7,50		07500	07500	
8,00		08000	08000	08000
8,50		08500	08500	
9,00		09000	09000	09000
9,50		09500	09500	
10,00		10000	10000	10000
10,50		10500	10500	
11,00		11000	11000	11000
11,50		11500	11500	
12,00		12000	12000	12000
12,50		12500	12500	
13,00		13000	13000	13000
13,50		13500	13500	
14,00		14000	14000	14000
14,50		14500	14500	
15,00		15000	15000	
15,50		15500	15500	
16,00		16000	16000	

¹⁾ Without transverse grooves

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
145 E / F 25	25	35	27	10	77	16



Pressure collet 145 E / F 25



DCONWS mm	DCONWS inch	Grooved 145 E / F 25	Smooth 145 E / F 25	Grooved 145 E / F 25	Grooved 145 E / F 25
		CW	CW	CW	CW
1,500		81 015 ...	81 017 ...	81 027 ...	81 029 ...
1,501 - 1,999			01500		
2,000			xxxxx ²⁾	02000 ¹⁾	02000 ¹⁾
2,001 - 2,499			02000		
2,500			xxxxx ²⁾		
2,501 - 2,999			02500		
3,000			xxxxx ²⁾		
3,001 - 3,499			03000	03000 ¹⁾	03000 ¹⁾
3,500			xxxxx ²⁾		
3,501 - 3,999			03500		
4,000			xxxxx ²⁾		
4,001 - 4,499			04000	04000 ¹⁾	04000 ¹⁾
4,500			xxxxx ²⁾		
4,501 - 4,999			04500		
5,000			xxxxx ²⁾		
5,001 - 5,499			05000	05000 ¹⁾	05000 ¹⁾
5,500			xxxxx ²⁾		
5,501 - 5,999			05500		
6,000			xxxxx ²⁾		
6,001 - 6,349		06000	06000	06000 ¹⁾	06000 ¹⁾
6,350	1/4	xxxxx ²⁾			
6,351 - 6,499		06350	06350	06350 ¹⁾	
6,500		xxxxx ²⁾			
6,501 - 6,999		06500	06500		
7,000		xxxxx ²⁾			
7,001 - 7,499		07000	07000	07000 ¹⁾	07000 ¹⁾
7,500		xxxxx ²⁾			
7,501 - 7,937		07500	07500		
7,938	5/16	xxxxx ²⁾			
7,939 - 7,999		07938	07938		
8,000		xxxxx ²⁾			
8,001 - 8,499		08000	08000	08000	08000
8,500		xxxxx ²⁾			
8,501 - 8,999		08500	08500		
9,000		xxxxx ²⁾			
9,001 - 9,499		09000	09000	09000	09000
9,500		xxxxx ²⁾			
		09500	09500		

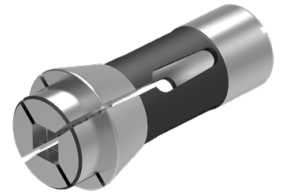
1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 015 06789).

Pressure collet 145 E / F 25



DCONWS mm	DCONWS inch	Grooved 145 E / F 25	Smooth 145 E / F 25	Grooved 145 E / F 25	Grooved 145 E / F 25
		CW	CW	CW	CW
81 015 ...		81 015 ...	81 017 ...	81 027 ...	81 029 ...
9,501 - 9,999		xxxxx ²⁾			
10,000		10000	10000	10000	10000
10,001 - 10,499		xxxxx ²⁾			
10,500		10500	10500		
10,501 - 10,999		xxxxx ²⁾			
11,000		11000	11000	11000	11000
11,001 - 11,112		xxxxx ²⁾			
11,113	7/16	11113	11113		
11,114 - 11,499		xxxxx ²⁾			
11,500		11500	11500		
11,501 - 11,999		xxxxx ²⁾			
12,000		12000	12000	12000	12000
12,001 - 12,499		xxxxx ²⁾			
12,500		12500	12500		
12,501 - 12,699		xxxxx ²⁾			
12,700	1/2	12700	12700	12700	
12,701 - 12,999		xxxxx ²⁾			
13,000		13000	13000	13000	13000
13,001 - 13,499		xxxxx ²⁾			
13,500		13500	13500		
13,501 - 13,999		xxxxx ²⁾			
14,000		14000	14000	14000	14000
14,001 - 14,499		xxxxx ²⁾			
14,500		14500	14500		
14,501 - 14,999		xxxxx ²⁾			
15,000		15000	15000	15000	15000
15,001 - 15,499		xxxxx ²⁾			
15,500		15500	15500		
15,501 - 15,999		xxxxx ²⁾			
16,000		16000	16000	16000	
16,001 - 16,499		xxxxx ²⁾			
16,500		16500	16500		
16,501 - 16,999		xxxxx ²⁾			
17,000		17000	17000	17000	
17,001 - 17,499		xxxxx ²⁾			
17,500		17500	17500		
17,501 - 17,999		xxxxx ²⁾			
18,000		18000	18000	18000	
18,001 - 18,499		xxxxx ²⁾			
18,500		18500	18500		
18,501 - 18,999		xxxxx ²⁾			
19,000		19000	19000	19000	
19,001 - 19,049		xxxxx ²⁾			
19,050	3/4	19050			
19,051 - 19,499		xxxxx ²⁾			
19,500		19500	19500		
19,501 - 19,999		xxxxx ²⁾			
20,000		20000	20000		

1) Without transverse grooves

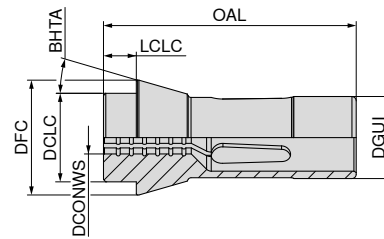
2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 015 06789).

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
F 37 / 1536 E	37	47	40	10	92	16



Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E	Smooth F 37 / 1536 E	Grooved F 37 / 1536 E	Grooved F 37 / 1536 E
1,000		CW 81 023 ...	CW 81 025 ...	CW 81 028 ...	CW 81 030 ...
1,001 - 1,499			01000		
1,500			xxxxx ²⁾		
1,501 - 1,999			01500		
2,000			xxxxx ²⁾		
2,001 - 2,499			02000		
2,500			xxxxx ²⁾		
2,501 - 2,999			02500		
3,000			xxxxx ²⁾		
3,001 - 3,499			03000	03000 ¹⁾	03000 ¹⁾
3,500			xxxxx ²⁾		
3,501 - 3,999			03500		
4,000			xxxxx ²⁾		
4,001 - 4,499			04000	04000 ¹⁾	04000 ¹⁾
4,500			xxxxx ²⁾		
4,501 - 4,999			04500		
5,000			xxxxx ²⁾		
5,001 - 5,499			05000	05000 ¹⁾	05000 ¹⁾
5,500			xxxxx ²⁾		
5,501 - 5,999			05500		
6,000		06000	xxxxx ²⁾	06000 ¹⁾	06000 ¹⁾
6,001 - 6,349		xxxxx ²⁾	06000		
6,350	1/4	06350	06350	06350 ¹⁾	06350 ¹⁾
6,351 - 6,499		xxxxx ²⁾	06500		
6,500		06500	xxxxx ²⁾		
6,501 - 6,999		xxxxx ²⁾	07000	07000 ¹⁾	07000 ¹⁾
7,000		07000	xxxxx ²⁾		
7,001 - 7,499		xxxxx ²⁾	07500		
7,500		07500	xxxxx ²⁾		
7,501 - 7,999		xxxxx ²⁾	08000	08000	08000
8,000		08000	xxxxx ²⁾		
8,001 - 8,499		xxxxx ²⁾	08500		
8,500		08500	xxxxx ²⁾		
8,501 - 8,999		xxxxx ²⁾	09000	09000	09000
9,000		09000	xxxxx ²⁾		
9,001 - 9,499		xxxxx ²⁾	09500		
9,500		09500			

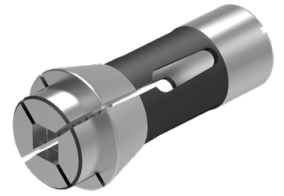
¹⁾ Without transverse grooves

²⁾ Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 **06789**).

Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E	Smooth F 37 / 1536 E	Grooved F 37 / 1536 E	Grooved F 37 / 1536 E
		CW 81 023 ...	CW 81 025 ...	CW 81 028 ...	CW 81 030 ...
9,501 - 9,524		xxxxx ²⁾			
9,525	3/8	09525			
9,526 - 9,999		xxxxx ²⁾			
10,000		10000	10000	10000	10000
10,001 - 10,499		xxxxx ²⁾			
10,500		10500	10500		
10,501 - 10,999		xxxxx ²⁾			
11,000		11000	11000	11000	11000
11,001 - 11,499		xxxxx ²⁾			
11,500		11500	11500		
11,501 - 11,999		xxxxx ²⁾			
12,000		12000	12000	12000	12000
12,001 - 12,499		xxxxx ²⁾			
12,500		12500	12500		
12,501 - 12,699		xxxxx ²⁾			
12,700	1/2	12700	12700	12700	12700
12,701 - 12,999		xxxxx ²⁾			
13,000		13000	13000	13000	13000
13,001 - 13,499		xxxxx ²⁾			
13,500		13500	13500		
13,501 - 13,999		xxxxx ²⁾			
14,000		14000	14000	14000	14000
14,001 - 14,499		xxxxx ²⁾			
14,500		14500	14500		
14,501 - 14,999		xxxxx ²⁾			
15,000		15000	15000	15000	15000
15,001 - 15,499		xxxxx ²⁾			
15,500		15500	15500		
15,501 - 15,999		xxxxx ²⁾			
16,000		16000	16000	16000	16000
16,001 - 16,499		xxxxx ²⁾			
16,500		16500	16500		
16,501 - 16,999		xxxxx ²⁾			
17,000		17000	17000	17000	17000
17,001 - 17,499		xxxxx ²⁾			
17,500		17500	17500		
17,501 - 17,999		xxxxx ²⁾			
18,000		18000	18000	18000	18000
18,001 - 18,499		xxxxx ²⁾			
18,500		18500	18500		
18,501 - 18,999		xxxxx ²⁾			
19,000		19000	19000	19000	19000
19,001 - 19,049		xxxxx ²⁾			
19,050	3/4	19050	19050		
19,051 - 19,499		xxxxx ²⁾			
19,500		19500	19500		
19,501 - 19,999		xxxxx ²⁾			
20,000		20000	20000	20000	20000
20,001 - 20,499		xxxxx ²⁾			
20,500		20500	20500		

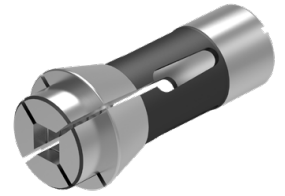
1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 06789).

Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E	Smooth F 37 / 1536 E	Grooved F 37 / 1536 E	Grooved F 37 / 1536 E
		CW	CW	CW	CW
20,501 - 20,999		81 023 ...	81 025 ...	81 028 ...	81 030 ...
21,000		xxxxx ²⁾			
21,001 - 21,499		21000	21000	21000	21000
21,500		xxxxx ²⁾			
21,501 - 21,999		21500	21500		
22,000		xxxxx ²⁾			
22,001 - 22,224		22000	22000	22000	22000
22,225	7/8	xxxxx ²⁾			
22,226 - 22,499		22225			
22,500		xxxxx ²⁾			
22,501 - 22,999		22500	22500		
23,000		xxxxx ²⁾			
23,001 - 23,499		23000	23000	23000	23000
23,500		xxxxx ²⁾			
23,501 - 23,999		23500	23500		
24,000		xxxxx ²⁾			
24,001 - 24,499		24000	24000	24000	
24,500		xxxxx ²⁾			
24,501 - 24,999		24500	24500		
25,000		xxxxx ²⁾			
25,001 - 25,499		25000	25000	25000	
25,400	1/1	xxxxx ²⁾			
25,500				25400	
25,501 - 25,999		25500	25500		
26,000		xxxxx ²⁾			
26,001 - 26,499		26000	26000	26000	
26,500		xxxxx ²⁾			
26,501 - 26,999		26500	26500		
27,000		xxxxx ²⁾			
27,001 - 27,499		27000	27000	27000	
27,500		xxxxx ²⁾			
27,501 - 27,999		27500	27500		
28,000		xxxxx ²⁾			
28,001 - 28,499		28000	28000		
28,500		xxxxx ²⁾			
28,501 - 28,999		28500	28500		
29,000		xxxxx ²⁾			
29,001 - 29,499		29000	29000		
29,500		xxxxx ²⁾			
29,501 - 29,999		29500	29500		
30,000		xxxxx ²⁾			
30,001 - 30,499		30000	30000		
30,500		xxxxx ²⁾			
30,501 - 30,999		30500	30500		
31,000		xxxxx ²⁾			
31,001 - 31,499		31000	31000		
31,500		xxxxx ²⁾			
31,501 - 31,999		31500	31500		
32,000		xxxxx ²⁾			
		32000	32000		

1) Without transverse grooves

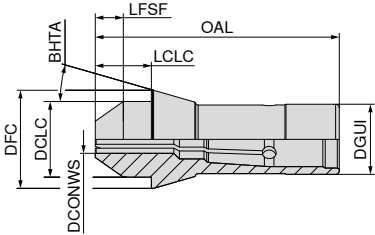
2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



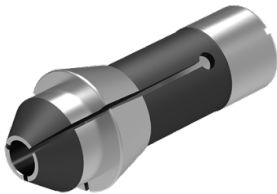
For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 06789).

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
116 E / F 13	13	19	13	12	70	16	6
120 E / F 15	15	21	15	13	71	16	7
120 E / F 15	15	21	15	15	73	16	9



Stem collet 116 E / F 13

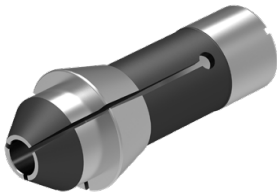


Smooth
116 E / F 13

DCONWS mm
1
2
3
4
5
6
7

CW
81 001 ...
01000
02000
03000
04000
05000
06000
07000

Stem collet 120 E / F 15



Smooth
120 E / F 15
LFSF = 7 mm

Smooth
120 E / F 15
LFSF = 9 mm

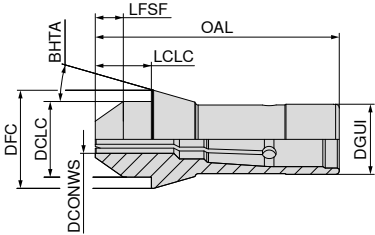
DCONWS mm
1
2
3
4
5
6
7
8

CW
81 004 ...
01000
02000
03000
04000
05000
06000
07000
08000

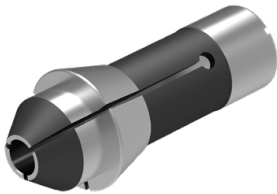
CW
81 006 ...
01000
02000
03000
04000
05000
06000
07000
08000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
136 E / F 20-201	20	26	19	13	62	15	8
136 E / F 20-201	20	26	19	15	64	15	10



Stem collet 136 E / F 20-201

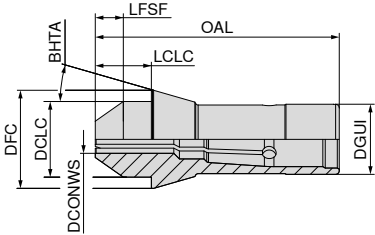


Smooth	Smooth
136 E / F 20-201	136 E / F 20-201
LFSF = 8 mm	LFSF = 10 mm

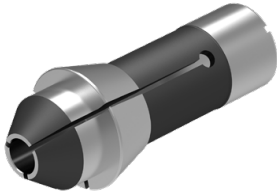
DCONWS mm	CW	CW
1	81 008 ...	81 010 ...
2	01000	01000
3	02000	02000
4	03000	03000
5	04000	04000
6	05000	05000
7	06000	06000
8	07000	07000
9	08000	08000
10	09000	09000
11	10000	10000
12	11000	11000
13	12000	12000
14		13000
		14000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
145 E / F 25	25	35	27	20	87	16	10
145 E / F 25	25	35	27	25	92	16	15



Stem collet 145 E / F 25

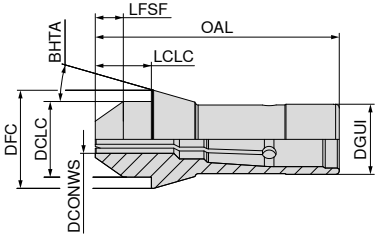


● Smooth 145 E / F 25 LFSF = 10 mm	● Smooth 145 E / F 25 LFSF = 15 mm
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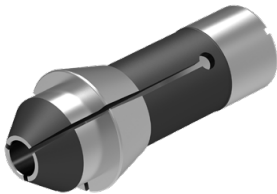
DCONWS mm	CW 81 016 ...	CW 81 018 ...
1	01000	01000
2	02000	02000
3	03000	03000
4	04000	04000
5	05000	05000
6	06000	06000
7	07000	07000
8	08000	08000
9	09000	09000
10	10000	10000
11	11000	11000
12	12000	12000
13	13000	13000
14	14000	14000
15	15000	15000
16	16000	16000
17	17000	17000
18	18000	18000
19	19000	19000
20	20000	20000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
F 16 / 1212 E	16	21	16	13	71	16	7
F 16 / 1212 E	16	21	16	15	73	16	9
138 E / F20-87	20	28	21	15	78	16	8
138 E / F20-87	20	28	21	20	80	16	13



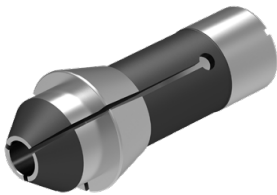
Stem collet F 16 / 1212 E



Smooth	Smooth
F 16 / 1212 E	F 16 / 1212 E
LFSF = 7 mm	LFSF = 9 mm
CW	CW
81 020 ...	81 022 ...
01000	01000
02000	02000
03000	03000
04000	04000
05000	05000
06000	06000
07000	07000
08000	08000
09000	09000

DCONWS mm
1
2
3
4
5
6
7
8
9

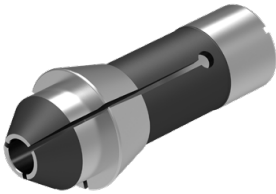
Stem collet 138 E / F 20-87



Smooth	Smooth
138 E / F20-87	138 E / F20-87
LFSF = 8 mm	LFSF = 13 mm
CW	CW
81 012 ...	81 014 ...
01000	01000
02000	02000
03000	03000
04000	04000
05000	05000
06000	06000
07000	07000
08000	08000

DCONWS mm
1
2
3
4
5
6
7
8

Stem collet 138 E / F 20-87

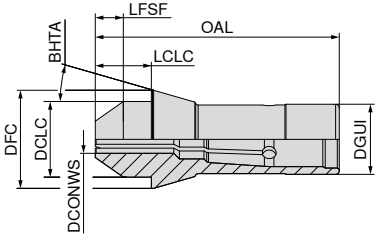


	
Smooth	Smooth
138 E / F20-87	138 E / F20-87
LFSF = 8 mm	LFSF = 13 mm

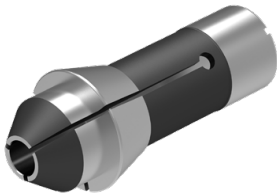
DCONWS		CW	CW
mm		81 012 ...	81 014 ...
9		09000	09000
10		10000	10000
11		11000	11000
12		12000	12000

Stem collets

Designation	DGUI	DFC	DCLC	LCLC	OAL	BHTA	LFSF
	mm	mm	mm	mm	mm	°	mm
F 37 / 1536 E	37	47	40	25	107	16	15



Stem collet F 37 / 1536 E



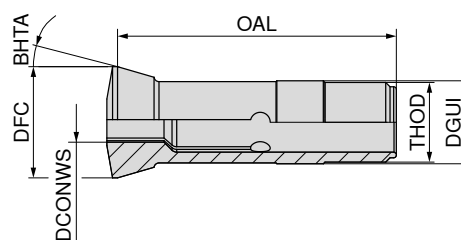
●
Smooth
F 37 / 1536 E

DCONWS mm
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

CW
81 024 ...
01000
02000
03000
04000
05000
06000
07000
08000
09000
10000
11000
12000
13000
14000
15000
16000
17000
18000
19000
20000
21000
22000
23000
24000
25000
26000
27000
28000

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 223	28	34	82	16	M25 x 1



Adjustable guide bush T 223

▲ With carbide insert



DCONWS mm	DCONWS inch	T 223 CW	T 223 CW	T 223 CW
1,000		81 037 ... 01000		
1,001 - 1,499		xxxxx ¹⁾ 01500		
1,500		xxxxx ¹⁾ 02000		
1,501 - 1,999		xxxxx ¹⁾ 02500		
2,000		xxxxx ¹⁾ 03000		
2,001 - 2,499		xxxxx ¹⁾ 03500		
2,500		xxxxx ¹⁾ 04000		
2,501 - 2,999		xxxxx ¹⁾ 04500		
3,000		xxxxx ¹⁾ 05000		
3,001 - 3,499		xxxxx ¹⁾ 05500		
3,500		xxxxx ¹⁾ 06000		
3,501 - 3,999		xxxxx ¹⁾ 06350		
4,000		xxxxx ¹⁾ 06500		
4,001 - 4,499		xxxxx ¹⁾ 07000		
4,500		xxxxx ¹⁾ 07500		
4,501 - 4,999		xxxxx ¹⁾ 08000		
5,000		xxxxx ¹⁾ 08500		
5,001 - 5,499		xxxxx ¹⁾ 09000		
5,500		xxxxx ¹⁾ 09500		
5,501 - 5,999		xxxxx ¹⁾ 09525		
6,000		xxxxx ¹⁾ 10000		
6,001 - 6,349		xxxxx ¹⁾ 10500		
6,350	1/4	xxxxx ¹⁾		
6,351 - 6,499		xxxxx ¹⁾		
6,500		xxxxx ¹⁾		
6,501 - 6,999		xxxxx ¹⁾		
7,000		xxxxx ¹⁾		
7,001 - 7,499		xxxxx ¹⁾		
7,500		xxxxx ¹⁾		
7,501 - 7,999		xxxxx ¹⁾		
7,938	5/16	xxxxx ¹⁾		
8,000		xxxxx ¹⁾		
8,001 - 8,499		xxxxx ¹⁾		
8,500		xxxxx ¹⁾		
8,501 - 8,999		xxxxx ¹⁾		
9,000		xxxxx ¹⁾		
9,001 - 9,499		xxxxx ¹⁾		
9,500		xxxxx ¹⁾		
9,501 - 9,999		xxxxx ¹⁾		
9,525	3/8	xxxxx ¹⁾		
10,000		xxxxx ¹⁾		
10,001 - 10,499		xxxxx ¹⁾		
10,500		xxxxx ¹⁾		
10,501 - 10,999		xxxxx ¹⁾		

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 037 **06789**).

Adjustable guide bush T 223

▲ With carbide insert



DCONWS mm	DCONWS inch	 T 223 CW 81 037 ...	 T 223 CW 81 038 ...	 T 223 CW 81 039 ...
11,000		11000	11000	11000
11,001 - 11,499		xxxxx ¹⁾		
11,500		11500		
11,501 - 11,999		xxxxx ¹⁾		
12,000		12000	12000	12000
12,001 - 12,499		xxxxx ¹⁾		
12,500		12500		
12,501 - 12,699		xxxxx ¹⁾		
12,700	1/2	12700	12700	
12,701 - 12,999		xxxxx ¹⁾		
13,000		13000	13000	13000
13,001 - 13,499		xxxxx ¹⁾		
13,500		13500		
13,501 - 13,999		xxxxx ¹⁾		
14,000		14000	14000	14000
14,001 - 14,499		xxxxx ¹⁾		
14,500		14500		
14,501 - 14,999		xxxxx ¹⁾		
15,000		15000	15000	
15,001 - 15,499		xxxxx ¹⁾		
15,500		15500		
15,501 - 15,999		xxxxx ¹⁾		
16,000		16000	16000	
16,001 - 16,499		xxxxx ¹⁾		
16,500		16500		
16,501 - 16,999		xxxxx ¹⁾		
17,000		17000	17000	
17,001 - 17,499		xxxxx ¹⁾		
17,500		17500		
17,501 - 17,999		xxxxx ¹⁾		
18,000		18000		
18,001 - 18,499		xxxxx ¹⁾		
18,500		18500		
18,501 - 18,999		xxxxx ¹⁾		
19,000		19000		
19,001 - 19,499		xxxxx ¹⁾		
19,500		19500		
19,501 - 19,999		xxxxx ¹⁾		
20,000		20000		
20,001 - 20,499		xxxxx ¹⁾		
20,500		20500		
20,501 - 20,999		xxxxx ¹⁾		
21,000		21000		
21,001 - 21,499		xxxxx ¹⁾		
21,500		21500		
21,501 - 21,999		xxxxx ¹⁾		
22,000		22000		

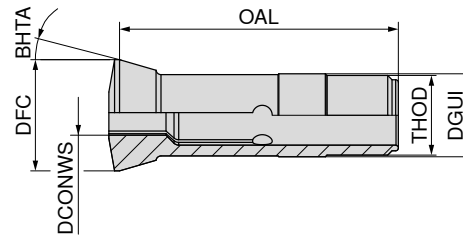
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 037 **06789**).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 227	34	41	87,5	10	M34 x 1



Adjustable guide bush T 227

▲ With carbide insert



T 227

DCONWS mm	DCONWS inch		CW
1,000			81 040 ...
1,001 - 1,499			01000
1,500			xxxxx ¹⁾
1,501 - 1,999			01500
2,000			xxxxx ¹⁾
2,001 - 2,499			02000
2,500			xxxxx ¹⁾
2,501 - 2,999			02500
3,000			xxxxx ¹⁾
3,001 - 3,499			03000
3,500			xxxxx ¹⁾
3,501 - 3,999			03500
4,000			xxxxx ¹⁾
4,001 - 4,499			04000
4,500			xxxxx ¹⁾
4,501 - 4,999			04500
5,000			xxxxx ¹⁾
5,001 - 5,499			05000
5,500			xxxxx ¹⁾
5,501 - 5,999			05500
6,000			xxxxx ¹⁾
6,001 - 6,349			06000
6,350	1/4		xxxxx ¹⁾
6,351 - 6,499			06350
6,500			xxxxx ¹⁾
6,501 - 6,999			06500
7,000			xxxxx ¹⁾
7,001 - 7,499			07000
7,500			xxxxx ¹⁾
7,501 - 7,999			07500
8,000			xxxxx ¹⁾
8,001 - 8,499			08000
8,500			xxxxx ¹⁾
8,501 - 8,999			08500
9,000			xxxxx ¹⁾
9,001 - 9,499			09000
9,500			xxxxx ¹⁾
9,501 - 9,999			09500
10,000			xxxxx ¹⁾
10,001 - 10,499			10000
10,500			xxxxx ¹⁾
10,501 - 10,999			10500
11,000			xxxxx ¹⁾
11,001 - 11,499			11000
			xxxxx ¹⁾

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 040 06789).

Adjustable guide bush T 227

▲ With carbide insert



T 227

DCONWS mm	DCONWS inch	CW 81 040 ...
11,500		11500
11,501 - 11,999		xxxxx ¹⁾
12,000		12000
12,001 - 12,499		xxxxx ¹⁾
12,500		12500
12,501 - 12,699		xxxxx ¹⁾
12,700	1/2	12700
12,701 - 12,999		xxxxx ¹⁾
13,000		13000
13,001 - 13,499		xxxxx ¹⁾
13,500		13500
13,501 - 13,999		xxxxx ¹⁾
14,000		14000
14,001 - 14,499		xxxxx ¹⁾
14,500		14500
14,501 - 14,999		xxxxx ¹⁾
15,000		15000
15,001 - 15,499		xxxxx ¹⁾
15,500		15500
15,501 - 15,999		xxxxx ¹⁾
16,000		16000
16,001 - 16,499		xxxxx ¹⁾
16,500		16500
16,501 - 16,999		xxxxx ¹⁾
17,000		17000
17,001 - 17,499		xxxxx ¹⁾
17,500		17500
17,501 - 17,999		xxxxx ¹⁾
18,000		18000
18,001 - 18,499		xxxxx ¹⁾
18,500		18500
18,501 - 18,999		xxxxx ¹⁾
19,000		19000
19,001 - 19,499		xxxxx ¹⁾
19,500		19500
19,501 - 19,999		xxxxx ¹⁾
20,000		20000
20,001 - 20,499		xxxxx ¹⁾
20,500		20500
20,501 - 20,999		xxxxx ¹⁾
21,000		21000
21,001 - 21,499		xxxxx ¹⁾
21,500		21500
21,501 - 21,999		xxxxx ¹⁾
22,000		22000
22,001 - 22,499		xxxxx ¹⁾
22,500		22500
22,501 - 22,999		xxxxx ¹⁾
23,000		23000
23,001 - 23,499		xxxxx ¹⁾
23,500		23500
23,501 - 23,999		xxxxx ¹⁾
24,000		24000
24,001 - 24,499		xxxxx ¹⁾
24,500		24500
24,501 - 24,999		xxxxx ¹⁾
25,000		25000

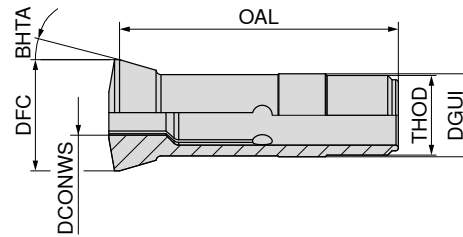
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 040 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 229	42	49	82	16	M40 x 1



Adjustable guide bush T 229

▲ With carbide insert



●
T 229

●
T 229

DCONWS mm	DCONWS inch	CW 81 041 ...	CW 81 042 ...
2,000		02000	
2,001 - 2,499		xxxxx ¹⁾	
2,500		02500	
2,501 - 2,999		xxxxx ¹⁾	
3,000		03000	
3,001 - 3,499		xxxxx ¹⁾	
3,500		03500	
3,501 - 3,999		xxxxx ¹⁾	
4,000		04000	04000
4,001 - 4,499		xxxxx ¹⁾	
4,500		04500	
4,501 - 4,999		xxxxx ¹⁾	
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,349		xxxxx ¹⁾	
6,350	1/4	06350	06350
6,351 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	09000
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,524		xxxxx ¹⁾	
9,525	3/8	09525	
9,526 - 9,999		xxxxx ¹⁾	
10,000		10000	10000
10,001 - 10,499		xxxxx ¹⁾	
10,500		10500	
10,501 - 10,999		xxxxx ¹⁾	
11,000		11000	11000
11,001 - 11,499		xxxxx ¹⁾	
11,500		11500	
11,501 - 11,999		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 041 06789).

Adjustable guide bush T 229

▲ With carbide insert



T 229

T 229

DCONWS mm	DCONWS inch	CW 81 041 ...	CW 81 042 ...
12,000		12000	12000
12,001 - 12,499		xxxxx ¹⁾	
12,500		12500	
12,501 - 12,699		xxxxx ¹⁾	
12,700	1/2	12700	
12,701 - 12,999		xxxxx ¹⁾	
13,000		13000	13000
13,001 - 13,499		xxxxx ¹⁾	
13,500		13500	
13,501 - 13,999		xxxxx ¹⁾	
14,000		14000	14000
14,001 - 14,499		xxxxx ¹⁾	
14,500		14500	
14,501 - 14,999		xxxxx ¹⁾	
15,000		15000	15000
15,001 - 15,499		xxxxx ¹⁾	
15,500		15500	
15,501 - 15,999		xxxxx ¹⁾	
16,000		16000	16000
16,001 - 16,499		xxxxx ¹⁾	
16,500		16500	
16,501 - 16,999		xxxxx ¹⁾	
17,000		17000	17000
17,001 - 17,499		xxxxx ¹⁾	
17,500		17500	
17,501 - 17,999		xxxxx ¹⁾	
18,000		18000	18000
18,001 - 18,499		xxxxx ¹⁾	
18,500		18500	
18,501 - 18,999		xxxxx ¹⁾	
19,000		19000	19000
19,001 - 19,049		xxxxx ¹⁾	
19,050	3/4	19050	
19,051 - 19,499		xxxxx ¹⁾	
19,500		19500	
19,501 - 19,999		xxxxx ¹⁾	
20,000		20000	20000
20,001 - 20,499		xxxxx ¹⁾	
20,500		20500	
20,501 - 20,999		xxxxx ¹⁾	
21,000		21000	21000
21,001 - 21,499		xxxxx ¹⁾	
21,500		21500	
21,501 - 21,999		xxxxx ¹⁾	
22,000		22000	22000
22,001 - 22,224		xxxxx ¹⁾	
22,225	7/8	22225	
22,226 - 22,499		xxxxx ¹⁾	
22,500		22500	
22,501 - 22,999		xxxxx ¹⁾	
23,000		23000	23000
23,001 - 23,499		xxxxx ¹⁾	
23,500		23500	
23,501 - 23,999		xxxxx ¹⁾	
24,000		24000	24000
24,001 - 24,499		xxxxx ¹⁾	
24,500		24500	
24,501 - 24,999		xxxxx ¹⁾	
25,000		25000	25000

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 041 06789).

Adjustable guide bush T 229

▲ With carbide insert



T 229

T 229

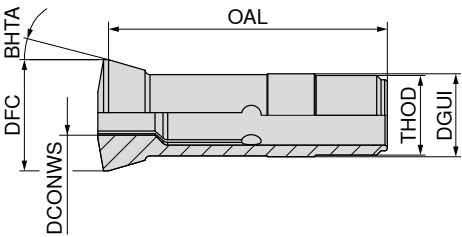
DCONWS		CW	
mm	inch	81 041 ...	81 042 ...
25,001 - 25,499		xxxxx ¹⁾	
25,500		25500	
25,501 - 25,999		xxxxx ¹⁾	
26,000		26000	26000
26,001 - 26,499		xxxxx ¹⁾	
26,500		26500	
26,501 - 26,999		xxxxx ¹⁾	
27,000		27000	27000
27,001 - 27,499		xxxxx ¹⁾	
27,500		27500	
27,501 - 27,999		xxxxx ¹⁾	
28,000		28000	
28,001 - 28,499		xxxxx ¹⁾	
28,500		28500	
28,501 - 28,999		xxxxx ¹⁾	
29,000		29000	
29,001 - 29,499		xxxxx ¹⁾	
29,500		29500	
29,501 - 29,999		xxxxx ¹⁾	
30,000		30000	
30,001 - 30,499		xxxxx ¹⁾	
30,500		30500	
30,501 - 30,999		xxxxx ¹⁾	
31,000		31000	
31,001 - 31,499		xxxxx ¹⁾	
31,500		31500	
31,501 - 31,999		xxxxx ¹⁾	
32,000		32000	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request

For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 041 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
I 353 SR	16	19,5	56,79	16	M14 x 1



Adjustable guide bush I 353 SR

- ▲ For Star* CNC sliding head lathes
- ▲ With carbide insert



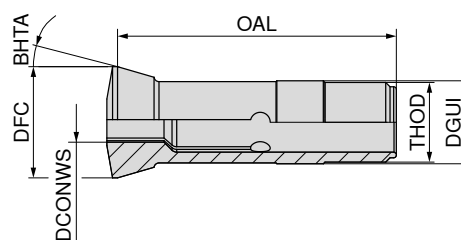
I 353 SR

DCONWS mm
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5
5,0
5,5
6,0
6,5
7,0
7,5
8,0
8,5
9,0
9,5
10,0
10,5

CW
81 035 ...
01000
01500
02000
02500
03000
03500
04000
04500
05000
05500
06000
06500
07000
07500
08000
08500
09000
09500
10000
10500

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
I 357	28	38	81	30	M25 x 1



Adjustable guide bush I 357

▲ With carbide insert



I 357

DCONWS mm	DCONWS inch	CW
2,000		81 036 ... 02000
2,001 - 2,499		xxxxx ¹⁾
2,500		02500
2,501 - 2,999		xxxxx ¹⁾
3,000		03000
3,001 - 3,174		xxxxx ¹⁾
3,175	1/8	03175
3,176 - 3,499		xxxxx ¹⁾
3,500		03500
3,501 - 3,999		xxxxx ¹⁾
4,000		04000
4,001 - 4,499		xxxxx ¹⁾
4,500		04500
4,501 - 4,999		xxxxx ¹⁾
5,000		05000
5,001 - 5,499		xxxxx ¹⁾
5,500		05500
5,501 - 5,999		xxxxx ¹⁾
6,000		06000
6,001 - 6,499		xxxxx ¹⁾
6,500		06500
6,501 - 6,999		xxxxx ¹⁾
7,000		07000
7,001 - 7,143		xxxxx ¹⁾
7,144	9/32	07144
7,145 - 7,499		xxxxx ¹⁾
7,500		07500
7,501 - 7,999		xxxxx ¹⁾
8,000		08000
8,001 - 8,499		xxxxx ¹⁾
8,500		08500
8,501 - 8,999		xxxxx ¹⁾
9,000		09000
9,001 - 9,499		xxxxx ¹⁾
9,500		09500
9,501 - 9,999		xxxxx ¹⁾
10,000		10000
10,001 - 10,499		xxxxx ¹⁾

¹⁾ Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 036 06789).

Adjustable guide bush I 357

▲ With carbide insert



I 357

DCONWS mm	DCONWS inch	CW 81 036 ...
10,500		10500
10,501 - 10,999		xxxxx ¹⁾
11,000		11000
11,001 - 11,499		xxxxx ¹⁾
11,500		11500
11,501 - 11,999		xxxxx ¹⁾
12,000		12000
12,001 - 12,499		xxxxx ¹⁾
12,500		12500
12,501 - 12,699		xxxxx ¹⁾
12,700	1/2	12700
12,701 - 12,999		xxxxx ¹⁾
13,000		13000
13,001 - 13,499		xxxxx ¹⁾
13,500		13500
13,501 - 13,999		xxxxx ¹⁾
14,000		14000
14,001 - 14,499		xxxxx ¹⁾
14,500		14500
14,501 - 14,999		xxxxx ¹⁾
15,000		15000
15,001 - 15,499		xxxxx ¹⁾
15,500		15500
15,501 - 15,999		xxxxx ¹⁾
16,000		16000
16,001 - 16,499		xxxxx ¹⁾
16,500		16500
16,501 - 16,999		xxxxx ¹⁾
17,000		17000
17,001 - 17,499		xxxxx ¹⁾
17,500		17500
17,501 - 17,999		xxxxx ¹⁾
18,000		18000
18,001 - 18,499		xxxxx ¹⁾
18,500		18500
18,501 - 18,999		xxxxx ¹⁾
19,000		19000
19,001 - 19,499		xxxxx ¹⁾
19,500		19500
19,501 - 19,999		xxxxx ¹⁾
20,000		20000
20,001 - 20,499		xxxxx ¹⁾
20,500		20500
20,501 - 20,999		xxxxx ¹⁾
21,000		21000
21,001 - 21,499		xxxxx ¹⁾
21,500		21500
21,501 - 21,999		xxxxx ¹⁾
22,000		22000

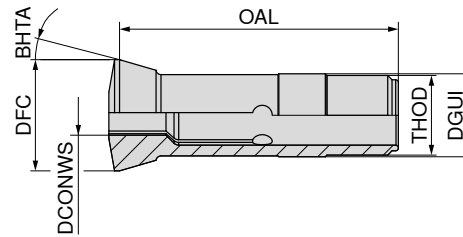
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 036 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 391	22	29	68	16	M22 x 1



Adjustable guide bush F 391

▲ With carbide insert



F 391

DCONWS mm	DCONWS inch	CW
1,000		81 032 ...
1,001 - 1,499		01000
1,500		xxxxx ¹⁾
1,501 - 1,999		01500
2,000		xxxxx ¹⁾
2,001 - 2,499		02000
2,500		xxxxx ¹⁾
2,501 - 2,999		02500
3,000		xxxxx ¹⁾
3,001 - 3,499		03000
3,500		xxxxx ¹⁾
3,501 - 3,999		03500
4,000		xxxxx ¹⁾
4,001 - 4,499		04000
4,500		xxxxx ¹⁾
4,501 - 4,999		04500
5,000		xxxxx ¹⁾
5,001 - 5,499		05000
5,500		xxxxx ¹⁾
5,501 - 5,999		05500
6,000		xxxxx ¹⁾
6,001 - 6,349		06000
6,350	1/4	xxxxx ¹⁾
6,351 - 6,499		06350
6,500		xxxxx ¹⁾
6,501 - 6,999		06500
7,000		xxxxx ¹⁾
7,001 - 7,499		07000
7,500		xxxxx ¹⁾
7,501 - 7,999		07500
8,000		xxxxx ¹⁾
8,001 - 8,499		08000
8,500		xxxxx ¹⁾
8,501 - 8,999		08500
9,000		xxxxx ¹⁾
9,001 - 9,499		09000
9,500		xxxxx ¹⁾
9,501 - 9,999		09500
		xxxxx ¹⁾

¹⁾ Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 032 **06789**).

Adjustable guide bush F 391

▲ With carbide insert



F 391

DCONWS mm	DCONWS inch	CW 81 032 ...
10,000		10000
10,001 - 10,499		xxxxx ¹⁾
10,500		10500
10,501 - 10,999		xxxxx ¹⁾
11,000		11000
11,001 - 11,499		xxxxx ¹⁾
11,500		11500
11,501 - 11,999		xxxxx ¹⁾
12,000		12000
12,001 - 12,499		xxxxx ¹⁾
12,500		12500
12,501 - 12,699		xxxxx ¹⁾
12,700	1/2	12700
12,701 - 12,999		xxxxx ¹⁾
13,000		13000
13,001 - 13,499		xxxxx ¹⁾
13,500		13500
13,501 - 13,999		xxxxx ¹⁾
14,000		14000
14,001 - 14,499		xxxxx ¹⁾
14,500		14500
14,501 - 14,999		xxxxx ¹⁾
15,000		15000
15,001 - 15,499		xxxxx ¹⁾
15,500		15500
15,501 - 15,999		xxxxx ¹⁾
16,000		16000
16,001 - 16,499		xxxxx ¹⁾
16,500		16500
16,501 - 16,999		xxxxx ¹⁾
17,000		17000
17,001 - 17,499		xxxxx ¹⁾
17,500		17500
17,501 - 17,999		xxxxx ¹⁾
18,000		18000

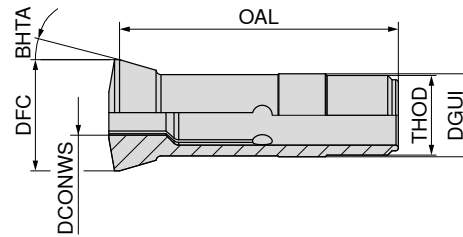
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 032 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 605	24	29,5	61	30	M24 x 1



Adjustable guide bush F 605

▲ With carbide insert



F 605

DCONWS mm	DCONWS inch	CW
1,000		81 033 ... 01000
1,001 - 1,499		xxxxx ¹⁾
1,500		01500
1,501 - 1,999		xxxxx ¹⁾
2,000		02000
2,001 - 2,499		xxxxx ¹⁾
2,500		02500
2,501 - 2,999		xxxxx ¹⁾
3,000		03000
3,001 - 3,174		xxxxx ¹⁾
3,175	1/8	03175
3,176 - 3,499		xxxxx ¹⁾
3,500		03500
3,501 - 3,999		xxxxx ¹⁾
4,000		04000
4,001 - 4,499		xxxxx ¹⁾
4,500		04500
4,501 - 4,762		xxxxx ¹⁾
4,763	3/16	04763
4,764 - 4,999		xxxxx ¹⁾
5,000		05000
5,001 - 5,499		xxxxx ¹⁾
5,500		05500
5,501 - 5,999		xxxxx ¹⁾
6,000		06000
6,001 - 6,349		xxxxx ¹⁾
6,350	1/4	06350
6,351 - 6,499		xxxxx ¹⁾
6,500		06500
6,501 - 6,999		xxxxx ¹⁾
7,000		07000
7,001 - 7,499		xxxxx ¹⁾
7,500		07500
7,501 - 7,999		xxxxx ¹⁾
8,000		08000
8,001 - 8,499		xxxxx ¹⁾
8,500		08500
8,501 - 8,999		xxxxx ¹⁾

¹⁾ Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 033 06789).

Adjustable guide bush F 605

▲ With carbide insert



F 605

DCONWS mm	DCONWS inch	CW 81 033 ...
9,000		09000
9,001 - 9,499		xxxxx ¹⁾
9,500		09500
9,501 - 9,999		xxxxx ¹⁾
10,000		10000
10,001 - 10,499		xxxxx ¹⁾
10,500		10500
10,501 - 10,999		xxxxx ¹⁾
11,000		11000
11,001 - 11,499		xxxxx ¹⁾
11,500		11500
11,501 - 11,999		xxxxx ¹⁾
12,000		12000
12,001 - 12,499		xxxxx ¹⁾
12,500		12500
12,501 - 12,699		xxxxx ¹⁾
12,700	1/2	12700
12,701 - 12,999		xxxxx ¹⁾
13,000		13000
13,001 - 13,499		xxxxx ¹⁾
13,500		13500
13,501 - 13,999		xxxxx ¹⁾
14,000		14000
14,001 - 14,499		xxxxx ¹⁾
14,500		14500
14,501 - 14,999		xxxxx ¹⁾
15,000		15000
15,001 - 15,499		xxxxx ¹⁾
15,500		15500
15,501 - 15,999		xxxxx ¹⁾
16,000		16000
16,001 - 16,499		xxxxx ¹⁾
16,500		16500
16,501 - 16,999		xxxxx ¹⁾
17,000		17000

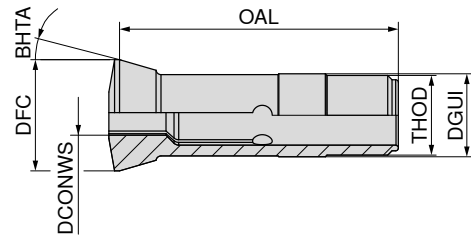
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 033 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 853	18	22	60	30	M16 x 1



Adjustable guide bush F 853

▲ With carbide insert



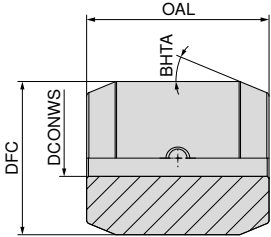
F 853

DCONWS mm
1,0
1,5
2,0
2,5
3,0
3,5
4,0
4,5
5,0
5,5
6,0
6,5
7,0
7,5
8,0
8,5
9,0
9,5
10,0
10,5
11,0
11,5
12,0
12,5
13,0

CW
81 034 ...
01000
01500
02000
02500
03000
03500
04000
04500
05000
05500
06000
06500
07000
07500
08000
08500
09000
09500
10000
10500
11000
11500
12000
12500
13000

Flexible guide bushes

Designation	DFC mm	OAL mm	BHTA °
GBE 28	28	40	22,5



Guide bush GBE 28



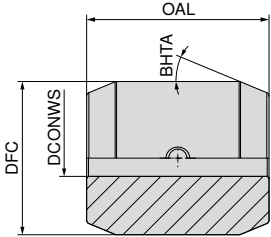
GBE 28

DCONWS mm	DCONWS inch
3,000	
4,000	
5,000	
6,000	
6,350	1/4
7,000	
8,000	
9,000	
9,525	3/8
10,000	
11,000	
12,000	
12,700	1/2
13,000	
14,000	
15,000	
16,000	
17,000	
18,000	
19,000	
19,050	3/4
20,000	

CW
81 059 ...
03000
04000
05000
06000
06350
07000
08000
09000
09525
10000
11000
12000
12700
13000
14000
15000
16000
17000
18000
19000
19050
20000

Flexible guide bushes

Designation	DFC mm	OAL mm	BHTA °
GBE 42	42	50	22,5



Guide bush GBE 42



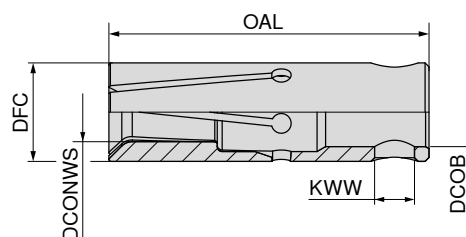
GBE 42

DCONWS mm	DCONWS inch
3,000	
4,000	
5,000	
6,000	
6,350	1/4
7,000	
8,000	
9,000	
10,000	
11,000	
12,000	
12,700	1/2
13,000	
14,000	
15,000	
15,875	5/8
16,000	
17,000	
18,000	
19,000	
19,050	3/4
20,000	
21,000	
22,000	
22,225	7/8
23,000	
24,000	
25,000	
25,400	1/1
26,000	
27,000	
28,000	
29,000	
30,000	
31,000	
32,000	

CW
81 060 ...
03000
04000
05000
06000
06350
07000
08000
09000
10000
11000
12000
12700
13000
14000
15000
15880
16000
17000
18000
19000
19050
20000
21000
22000
22225
23000
24000
25000
25400
26000
27000
28000
29000
30000
31000
32000

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 10 / 210 E	D 10	10	4	7	40



Clamping sleeve S 10 / 210 E

▲ Also suitable for all INDEX multi-spindle machines



S 10 / 210 E

S 10 / 210 E

DCONWS mm	DCONWS inch	CW 81 043 ...	CW 81 044 ...
3,000		03000	03000
3,001 - 3,499		xxxxx ¹⁾	
3,500		03500	
3,501 - 3,999		xxxxx ¹⁾	
4,000		04000	04000
4,001 - 4,499		xxxxx ¹⁾	
4,500		04500	
4,501 - 4,999		xxxxx ¹⁾	
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,349		xxxxx ¹⁾	
6,350	1/4	06350	
6,351 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,143		xxxxx ¹⁾	
7,144	9/32	07144	
7,145 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,937		xxxxx ¹⁾	
7,938	5/16	07938	
7,939 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,999		xxxxx ¹⁾	
10,000		10000	

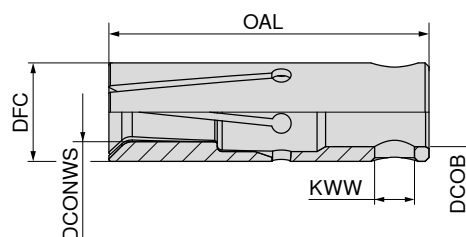
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 043 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 12 / 212 E	D 12	12	4	8	40



Clamping sleeve S 12 / 212 E

▲ Also suitable for all INDEX multi-spindle machines



S 12 / 212 E

S 12 / 212 E

DCONWS mm	DCONWS inch	CW 81 045 ...	CW 81 046 ...
3,000		03000	03000
3,001 - 3,499		xxxxx ¹⁾	
3,500		03500	
3,501 - 3,999		xxxxx ¹⁾	
4,000		04000	04000
4,001 - 4,499		xxxxx ¹⁾	
4,500		04500	
4,501 - 4,762		xxxxx ¹⁾	
4,763	3/16	04763	
4,764 - 4,999		xxxxx ¹⁾	
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,349		xxxxx ¹⁾	
6,350	1/4	06350	06350
6,351 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,937		xxxxx ¹⁾	
7,938	5/16	07938	
7,939 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	09000
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,524		xxxxx ¹⁾	
9,525	3/8	09525	
9,526 - 9,999		xxxxx ¹⁾	
10,000		10000	
10,001 - 10,499		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 045 06789).

Clamping sleeve S 12 / 212 E

▲ Also suitable for all INDEX multi-spindle machines



S 12 / 212 E



S 12 / 212 E

DCONWS mm	DCONWS inch
10,500	
10,501 - 10,999	
11,000	

CW	CW
81 045 ...	81 046 ...
10500	
xxxxx ¹⁾	
11000	

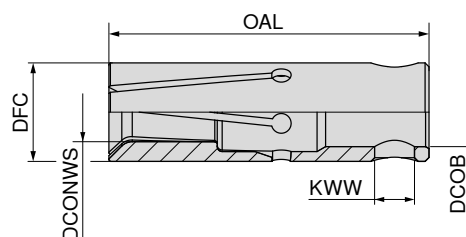
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 045 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 15 / 203 E	D 15	15	6	11	40



Clamping sleeve S 15 / 203 E

▲ Also suitable for all INDEX multi-spindle machines



S 15 / 203 E

S 15 / 203 E

DCONWS mm	DCONWS inch	CW	CW
3,000		81 047 ...	81 048 ...
3,001 - 3,174		03000	03000
3,175	1/8	xxxxx ¹⁾	
3,176 - 3,499		03175	
3,500		xxxxx ¹⁾	
3,501 - 3,999		03500	
4,000		xxxxx ¹⁾	
4,001 - 4,499		04000	04000
4,500		xxxxx ¹⁾	
4,501 - 4,999		04500	
5,000		xxxxx ¹⁾	
5,001 - 5,499		05000	05000
5,500		xxxxx ¹⁾	
5,501 - 5,999		05500	
6,000		xxxxx ¹⁾	
6,001 - 6,349		06000	06000
6,350	1/4	xxxxx ¹⁾	
6,351 - 6,499		06350	06350
6,500		xxxxx ¹⁾	
6,501 - 6,999		06500	
7,000		xxxxx ¹⁾	
7,001 - 7,499		07000	07000
7,500		xxxxx ¹⁾	
7,501 - 7,937		07500	
7,938	5/16	xxxxx ¹⁾	
7,939 - 7,999		07938	07938
8,000		xxxxx ¹⁾	
8,001 - 8,499		08000	08000
8,500		xxxxx ¹⁾	
8,501 - 8,999		08500	
9,000		xxxxx ¹⁾	
9,001 - 9,499		09000	09000
9,500		xxxxx ¹⁾	
9,501 - 9,524		09500	
9,525	3/8	xxxxx ¹⁾	
9,526 - 9,999		09525	
10,000		xxxxx ¹⁾	
10,001 - 10,499		10000	10000
		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 047 06789).

Clamping sleeve S 15 / 203 E

▲ Also suitable for all INDEX multi-spindle machines



S 15 / 203 E



S 15 / 203 E

DCONWS mm	DCONWS inch
10,500	
10,501 - 10,999	
11,000	
11,001 - 11,112	
11,113	7/16
11,114 - 11,499	
11,500	
11,501 - 11,999	
12,000	
12,001 - 12,499	
12,500	
12,501 - 12,699	
12,700	1/2
12,701 - 12,999	
13,000	
13,001 - 13,499	
13,500	
13,501 - 13,999	
14,000	

CW	CW
81 047 ...	81 048 ...
10500	
xxxxx ¹⁾	
11000	11000
xxxxx ¹⁾	
11113	
xxxxx ¹⁾	
11500	
xxxxx ¹⁾	
12000	12000
xxxxx ¹⁾	
12500	
xxxxx ¹⁾	
12700	
xxxxx ¹⁾	
13000	
xxxxx ¹⁾	
13500	
xxxxx ¹⁾	
14000	

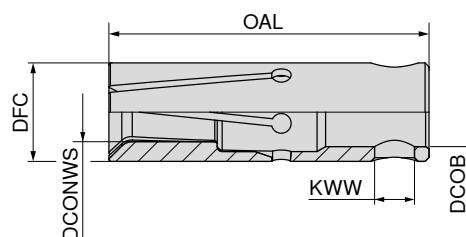
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 047 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 16	D 16	16	6	11	40



Clamping sleeve S 16

▲ Also suitable for all INDEX multi-spindle machines



●
S 16

●
S 16

DCONWS mm	DCONWS inch	CW 81 049 ...	CW 81 050 ...
3,000		03000	03000
3,001 - 3,499		xxxxx ¹⁾	
3,500		03500	
3,501 - 3,999		xxxxx ¹⁾	
4,000		04000	04000
4,001 - 4,499		xxxxx ¹⁾	
4,500		04500	
4,501 - 4,999		xxxxx ¹⁾	
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,349		xxxxx ¹⁾	
6,350	1/4	06350	
6,351 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	09000
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,524		xxxxx ¹⁾	
9,525	3/8	09525	
9,526 - 9,999		xxxxx ¹⁾	
10,000		10000	10000
10,001 - 10,499		xxxxx ¹⁾	
10,500		10500	
10,501 - 10,999		xxxxx ¹⁾	
11,000		11000	11000
11,001 - 11,112		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 049 06789).

Clamping sleeve S 16

▲ Also suitable for all INDEX multi-spindle machines



S 16

S 16

DCONWS mm	DCONWS inch
11,113	7/16
11,114 - 11,499	
11,500	
11,501 - 11,999	
12,000	
12,001 - 12,499	
12,500	
12,501 - 12,699	
12,700	1/2
12,701 - 12,999	
13,000	
13,001 - 13,499	
13,500	
13,501 - 13,999	
14,000	
14,001 - 14,287	
14,288	9/16
14,289 - 14,499	
14,500	
14,501 - 14,999	
15,000	

CW	CW
81 049 ...	81 050 ...
11113	
xxxxx ¹⁾	
11500	
xxxxx ¹⁾	
12000	12000
xxxxx ¹⁾	
12500	
xxxxx ¹⁾	
12700	
xxxxx ¹⁾	
13000	13000
xxxxx ¹⁾	
13500	
xxxxx ¹⁾	
14000	
xxxxx ¹⁾	
14288	
xxxxx ¹⁾	
14500	
xxxxx ¹⁾	
15000	

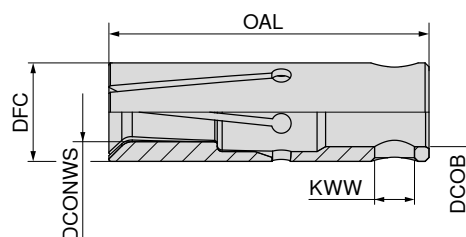
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 049 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 18 / 218 E	D 18	18	6	11	40



Clamping sleeve S 18 / 218 E

▲ Also suitable for all INDEX multi-spindle machines



S 18 / 218 E

S 18 / 218 E

DCONWS mm	DCONWS inch	CW 81 051 ...	CW 81 052 ...
3,000		03000	
3,001 - 3,174		xxxxx ¹⁾	
3,175	1/8	03175	
3,176 - 3,499		xxxxx ¹⁾	
3,500		03500	
3,501 - 3,999		xxxxx ¹⁾	
4,000		04000	
4,001 - 4,499		xxxxx ¹⁾	
4,500		04500	
4,501 - 4,762		xxxxx ¹⁾	
4,763	3/16	04763	
4,764 - 4,999		xxxxx ¹⁾	
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,937		xxxxx ¹⁾	
7,938	5/16	07938	
7,939 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	09000
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,524		xxxxx ¹⁾	
9,525	3/8	09525	
9,526 - 9,999		xxxxx ¹⁾	
10,000		10000	10000
10,001 - 10,499		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 051 06789).

Clamping sleeve S 18 / 218 E

▲ Also suitable for all INDEX multi-spindle machines



● S 18 / 218 E

⬡ S 18 / 218 E

DCONWS mm	DCONWS inch	CW 81 051 ...	CW 81 052 ...
10,500		10500	
10,501 - 10,999		xxxxx ¹⁾	
11,000		11000	11000
11,001 - 11,112		xxxxx ¹⁾	
11,113	7/16	11113	
11,114 - 11,499		xxxxx ¹⁾	
11,500		11500	
11,501 - 11,999		xxxxx ¹⁾	
12,000		12000	12000
12,001 - 12,499		xxxxx ¹⁾	
12,500		12500	
12,501 - 12,699		xxxxx ¹⁾	
12,700	1/2	12700	12700
12,701 - 12,999		xxxxx ¹⁾	
13,000		13000	13000
13,001 - 13,499		xxxxx ¹⁾	
13,500		13500	
13,501 - 13,999		xxxxx ¹⁾	
14,000		14000	14000
14,001 - 14,287		xxxxx ¹⁾	
14,288	9/16	14288	
14,289 - 14,499		xxxxx ¹⁾	
14,500		14500	
14,501 - 14,999		xxxxx ¹⁾	
15,000		15000	
15,001 - 15,499		xxxxx ¹⁾	
15,500		15500	
15,501 - 15,874		xxxxx ¹⁾	
15,875	5/8	15875	
15,876 - 15,999		xxxxx ¹⁾	
16,000		16000	

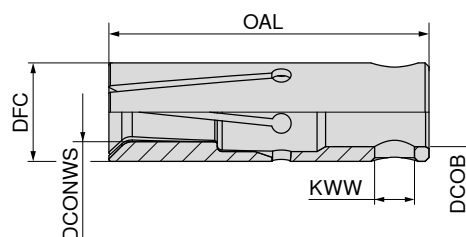
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 051 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 20 / 225 E	D 20	20	8	14	65



Clamping sleeve S 20 / 225 E

▲ Also suitable for all INDEX multi-spindle machines



S 20 / 225 E

S 20 / 225 E

DCONWS mm	DCONWS inch	CW	CW
4,000		81 053 ...	81 054 ...
4,001 - 4,499		04000	
4,500		xxxxx ¹⁾	
4,501 - 4,762		04500	
4,763	3/16	xxxxx ¹⁾	
4,764 - 4,999		04763	
5,000		xxxxx ¹⁾	
5,001 - 5,499		05000	05000
5,500		xxxxx ¹⁾	
5,501 - 5,999		05500	
6,000		xxxxx ¹⁾	
6,001 - 6,349		06000	06000
6,350	1/4	xxxxx ¹⁾	
6,351 - 6,499		06350	06350
6,500		xxxxx ¹⁾	
6,501 - 6,999		06500	
7,000		xxxxx ¹⁾	
7,001 - 7,499		07000	07000
7,500		xxxxx ¹⁾	
7,501 - 7,937		07500	
7,938	5/16	xxxxx ¹⁾	
7,939 - 7,999		07938	
8,000		xxxxx ¹⁾	
8,001 - 8,499		08000	08000
8,500		xxxxx ¹⁾	
8,501 - 8,999		08500	
9,000		xxxxx ¹⁾	
9,001 - 9,499		09000	09000
9,500		xxxxx ¹⁾	
9,501 - 9,524		09500	
9,525	3/8	xxxxx ¹⁾	
9,526 - 9,999		09525	
10,000		xxxxx ¹⁾	
10,001 - 10,499		10000	10000
10,500		xxxxx ¹⁾	
10,501 - 10,999		10500	
11,000		xxxxx ¹⁾	
11,001 - 11,112		11000	11000
		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 053 06789).

Clamping sleeve S 20 / 225 E

▲ Also suitable for all INDEX multi-spindle machines



● S 20 / 225 E

⬡ S 20 / 225 E

DCONWS mm	DCONWS inch	CW 81 053 ...	CW 81 054 ...
11,113	7/16	11113	
11,114 - 11,499		xxxxx ¹⁾	
11,500		11500	
11,501 - 11,999		xxxxx ¹⁾	
12,000		12000	12000
12,001 - 12,499		xxxxx ¹⁾	
12,500		12500	
12,501 - 12,699		xxxxx ¹⁾	
12,700	1/2	12700	12700
12,701 - 12,999		xxxxx ¹⁾	
13,000		13000	13000
13,001 - 13,499		xxxxx ¹⁾	
13,500		13500	
13,501 - 13,999		xxxxx ¹⁾	
14,000		14000	14000
14,001 - 14,499		xxxxx ¹⁾	
14,500		14500	
14,501 - 14,999		xxxxx ¹⁾	
15,000		15000	15000
15,001 - 15,499		xxxxx ¹⁾	
15,500		15500	
15,501 - 15,999		xxxxx ¹⁾	
16,000		16000	16000
16,001 - 16,499		xxxxx ¹⁾	
16,500		16500	
16,501 - 16,999		xxxxx ¹⁾	
17,000		17000	
17,001 - 17,499		xxxxx ¹⁾	
17,500		17500	
17,501 - 17,999		xxxxx ¹⁾	
18,000		18000	
18,001 - 18,499		xxxxx ¹⁾	
18,500		18500	
18,501 - 18,999		xxxxx ¹⁾	
19,000		19000	

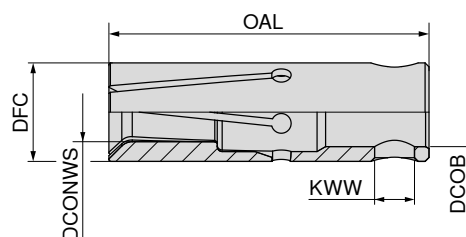
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 053 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 25 / 222 E	D 25	25	8	20	65



Clamping sleeve S 25 / 222 E

▲ Also suitable for all INDEX multi-spindle machines



Hexagon icon
S 25 / 222 E

Circle icon
S 25 / 222 E

DCONWS mm	DCONWS inch	CW 81 056 ...	CW 81 055 ...
4,000			04000
4,001 - 4,499			xxxxx ¹⁾
4,500			04500
4,501 - 4,999			xxxxx ¹⁾
5,000		05000	05000
5,001 - 5,499			xxxxx ¹⁾
5,500			05500
5,501 - 5,999			xxxxx ¹⁾
6,000		06000	06000
6,001 - 6,349			xxxxx ¹⁾
6,350	1/4	06350	06350
6,351 - 6,499			xxxxx ¹⁾
6,500			06500
6,501 - 6,999			xxxxx ¹⁾
7,000		07000	07000
7,001 - 7,499			xxxxx ¹⁾
7,500			07500
7,501 - 7,999			xxxxx ¹⁾
8,000		08000	08000
8,001 - 8,499			xxxxx ¹⁾
8,500			08500
8,501 - 8,999			xxxxx ¹⁾
9,000		09000	09000
9,001 - 9,499			xxxxx ¹⁾
9,500			09500
9,501 - 9,999			xxxxx ¹⁾
10,000		10000	10000
10,001 - 10,499			xxxxx ¹⁾
10,500			10500
10,501 - 10,999			xxxxx ¹⁾
11,000		11000	11000
11,001 - 11,499			xxxxx ¹⁾
11,500			11500
11,501 - 11,999			xxxxx ¹⁾
12,000		12000	12000
12,001 - 12,499			xxxxx ¹⁾
12,500			12500
12,501 - 12,699			xxxxx ¹⁾

¹⁾ Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 056 06789).

Clamping sleeve S 25 / 222 E

▲ Also suitable for all INDEX multi-spindle machines



⬡ S 25 / 222 E

● S 25 / 222 E

DCONWS mm	DCONWS inch	CW 81 056 ...	CW 81 055 ...
12,700	1/2		12700
12,701 - 12,999			xxxxx ¹⁾
13,000		13000	13000
13,001 - 13,499			xxxxx ¹⁾
13,500			13500
13,501 - 13,999			xxxxx ¹⁾
14,000		14000	14000
14,001 - 14,499			xxxxx ¹⁾
14,500			14500
14,501 - 14,999			xxxxx ¹⁾
15,000		15000	15000
15,001 - 15,499			xxxxx ¹⁾
15,500			15500
15,501 - 15,999			xxxxx ¹⁾
16,000		16000	16000
16,001 - 16,499			xxxxx ¹⁾
16,500			16500
16,501 - 16,999			xxxxx ¹⁾
17,000		17000	17000
17,001 - 17,499			xxxxx ¹⁾
17,500			17500
17,501 - 17,999			xxxxx ¹⁾
18,000		18000	18000
18,001 - 18,499			xxxxx ¹⁾
18,500			18500
18,501 - 18,999			xxxxx ¹⁾
19,000		19000	19000
19,001 - 19,049			xxxxx ¹⁾
19,050	3/4		19050
19,051 - 19,499			xxxxx ¹⁾
19,500			19500
19,501 - 19,999			xxxxx ¹⁾
20,000		20000	20000
20,001 - 20,499			xxxxx ¹⁾
20,500			20500
20,501 - 20,999			xxxxx ¹⁾
21,000			21000
21,001 - 21,499			xxxxx ¹⁾
21,500			21500
21,501 - 21,999			xxxxx ¹⁾
22,000			22000
22,001 - 22,499			xxxxx ¹⁾
22,500			22500
22,501 - 22,999			xxxxx ¹⁾
23,000			23000
23,001 - 23,499			xxxxx ¹⁾
23,500			23500
23,501 - 23,999			xxxxx ¹⁾
24,000			24000

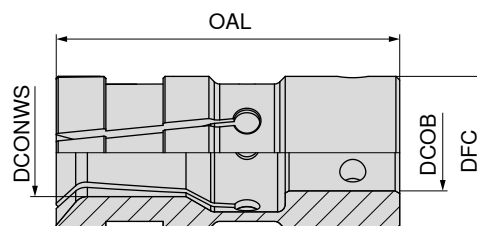
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 056 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	DCOB _{HT} mm	OAL mm
ST 32	D 32	32	20	90



Clamping sleeve ST 32 (turbo version)

▲ Also suitable for all INDEX multi-spindle machines



ST 32

ST 32

DCONWS mm	DCONWS inch	CW 81 057 ...	CW 81 058 ...
5,000		05000	05000
5,001 - 5,499		xxxxx ¹⁾	
5,500		05500	
5,501 - 5,999		xxxxx ¹⁾	
6,000		06000	06000
6,001 - 6,349		xxxxx ¹⁾	
6,350	1/4	06350	
6,351 - 6,499		xxxxx ¹⁾	
6,500		06500	
6,501 - 6,999		xxxxx ¹⁾	
7,000		07000	07000
7,001 - 7,499		xxxxx ¹⁾	
7,500		07500	
7,501 - 7,999		xxxxx ¹⁾	
8,000		08000	08000
8,001 - 8,499		xxxxx ¹⁾	
8,500		08500	
8,501 - 8,999		xxxxx ¹⁾	
9,000		09000	09000
9,001 - 9,499		xxxxx ¹⁾	
9,500		09500	
9,501 - 9,524		xxxxx ¹⁾	
9,525	3/8	09525	
9,526 - 9,999		xxxxx ¹⁾	
10,000		10000	10000
10,001 - 10,499		xxxxx ¹⁾	
10,500		10500	
10,501 - 10,999		xxxxx ¹⁾	
11,000		11000	11000
11,001 - 11,499		xxxxx ¹⁾	
11,500		11500	
11,501 - 11,999		xxxxx ¹⁾	
12,000		12000	12000
12,001 - 12,499		xxxxx ¹⁾	
12,500		12500	
12,501 - 12,699		xxxxx ¹⁾	
12,700	1/2	12700	
12,701 - 12,999		xxxxx ¹⁾	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 057 06789).

Clamping sleeve ST 32 (turbo version)

▲ Also suitable for all INDEX multi-spindle machines



ST 32

ST 32

DCONWS mm	DCONWS inch	CW 81 057 ...	CW 81 058 ...
13,000		13000	13000
13,001 - 13,499		xxxxx ¹⁾	
13,500		13500	
13,501 - 13,999		xxxxx ¹⁾	
14,000		14000	14000
14,001 - 14,499		xxxxx ¹⁾	
14,500		14500	
14,501 - 14,999		xxxxx ¹⁾	
15,000		15000	15000
15,001 - 15,499		xxxxx ¹⁾	
15,500		15500	
15,501 - 15,874		xxxxx ¹⁾	
15,875	5/8	15875	
15,876 - 15,999		xxxxx ¹⁾	
16,000		16000	16000
16,001 - 16,499		xxxxx ¹⁾	
16,500		16500	
16,501 - 16,999		xxxxx ¹⁾	
17,000		17000	17000
17,001 - 17,462		xxxxx ¹⁾	
17,463	11/16	17463	
17,464 - 17,499		xxxxx ¹⁾	
17,500		17500	
17,501 - 17,999		xxxxx ¹⁾	
18,000		18000	18000
18,001 - 18,499		xxxxx ¹⁾	
18,500		18500	
18,501 - 18,999		xxxxx ¹⁾	
19,000		19000	19000
19,001 - 19,049		xxxxx ¹⁾	
19,050	3/4	19050	
19,051 - 19,499		xxxxx ¹⁾	
19,500		19500	
19,501 - 19,999		xxxxx ¹⁾	
20,000		20000	20000
20,001 - 20,499		xxxxx ¹⁾	
20,500		20500	
20,501 - 20,999		xxxxx ¹⁾	
21,000		21000	21000
21,001 - 21,499		xxxxx ¹⁾	
21,500		21500	
21,501 - 21,999		xxxxx ¹⁾	
22,000		22000	22000
22,001 - 22,224		xxxxx ¹⁾	
22,225	7/8	22225	
22,226 - 22,499		xxxxx ¹⁾	
22,500		22500	
22,501 - 22,999		xxxxx ¹⁾	
23,000		23000	23000
23,001 - 23,499		xxxxx ¹⁾	
23,500		23500	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 057 06789).

Clamping sleeve ST 32 (turbo version)

▲ Also suitable for all INDEX multi-spindle machines



ST 32

ST 32

DCONWS mm	DCONWS inch	CW 81 057 ...	CW 81 058 ...
23,501 - 23,999		xxxxx ¹⁾	
24,000		24000	24000
24,001 - 24,499		xxxxx ¹⁾	
24,500		24500	
24,501 - 24,999		xxxxx ¹⁾	
25,000		25000	25000
25,001 - 25,399		xxxxx ¹⁾	
25,400	1/1	25400	
25,401 - 25,499		xxxxx ¹⁾	
25,500		25500	
25,501 - 25,999		xxxxx ¹⁾	
26,000		26000	26000
26,001 - 26,499		xxxxx ¹⁾	
26,500		26500	
26,501 - 26,999		xxxxx ¹⁾	
27,000		27000	
27,001 - 27,499		xxxxx ¹⁾	
27,500		27500	
27,501 - 27,999		xxxxx ¹⁾	
28,000		28000	
28,001 - 28,499		xxxxx ¹⁾	
28,500		28500	
28,501 - 28,574		xxxxx ¹⁾	
28,575	1 1/8	28575	
28,576 - 28,999		xxxxx ¹⁾	
29,000		29000	
29,001 - 29,499		xxxxx ¹⁾	
29,500		29500	
29,501 - 29,999		xxxxx ¹⁾	
30,000		30000	

1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time on request



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 057 06789).

Reduction sleeve

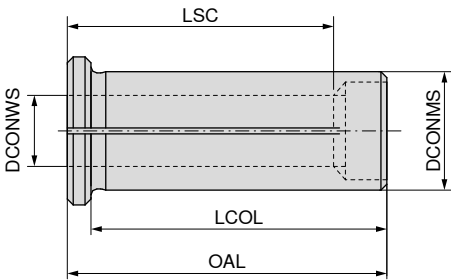
- ▲ for tools with cylindrical shank
- ▲ Radial run-out accuracy < 0.01 mm



DCONMS _{g6} mm	DCONMS _{g6} inch	DCONWS _{H7} mm	OAL mm	CW 81 427 ...
15,875	5/8	12	30	15912
16,000		12	30	16012
19,050	3/4	8	40	19108
19,050	3/4	10	40	19110
19,050	3/4	12	40	19112
19,050	3/4	14	40	19114
19,050	3/4	16	40	19116
20,000		10	40	20010
20,000		12	40	20012
20,000		16	40	20016
22,000		12	40	22012
22,000		16	40	22016
25,000		12	40	25012
25,000		16	40	25016
25,000		20	40	25020
25,400	1	12	40	25412
25,400	1	16	40	25416
25,400	1	20	40	25420
33,000		20	40	33020
33,000		22	40	33022
33,000		25	40	33025

Reducing sleeves for hydraulic and high pressure chucks

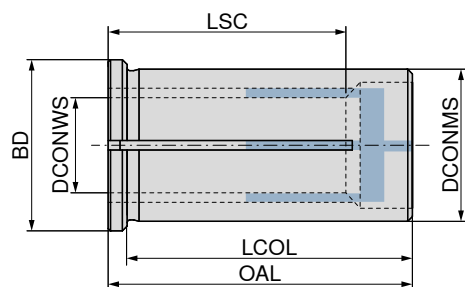
▲ Thro' coolant to 80 bar



					CT	
DCONMS	DCONWS	OAL	LCOL	LSC	83 609 ...	
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	

Reduction sleeves with coolant hole for hydraulic and high pressure chucks

▲ with coolant holes, for flexible diameter application



DCONMS mm	DCONWS mm	BD mm	OAL mm	LCOL mm	LSC mm	
12	3	16	44	40	29	
12	4	16	44	40	29	
12	5	16	44	40	29	
12	6	16	44	40	36	
12	8	16	44	40	37	
20	3	25	54	50	28	
20	4	25	54	50	28	
20	5	25	54	50	28	
20	6	25	54	50	36	
20	8	25	54	50	37	
20	10	25	54	50	40	
20	12	25	54	50	45	
20	14	25	54	50	45	
20	16	25	54	50	48	
32	6	36	64	60	36	
32	8	36	64	60	36	
32	10	36	64	60	40	
32	12	36	64	60	45	
32	14	36	64	60	46	
32	16	36	64	60	48	
32	18	36	64	60	49	
32	20	36	64	60	50	
32	25	36	64	60	56	

CT

83 611 ...

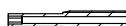
10300
10400
10500
10600
10800

20300
20400
20500
20600
20800
21000
21200
21400
21600

30600
30800
31000
31200
31400
31600
31800
32000
32500

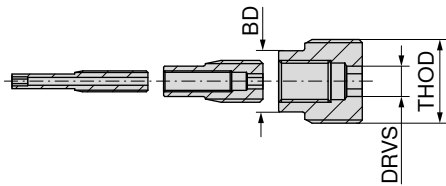
Adaptation for the use of stop screws for reducing sleeves

DCONMS in mm



12			
20	83 950 425	83 950 428	83 950 426
25	83 950 425	83 950 428	83 950 427
32		83 950 428	83 950 427

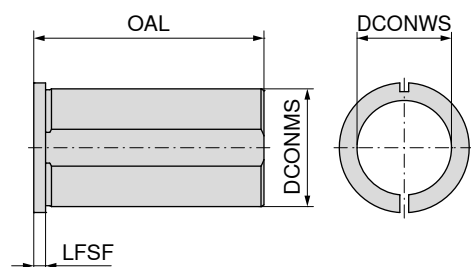
Stop screw for use with reducing sleeves in hydraulic chuck



THOD	BD mm	DRVS mm	CT	
M4x0,5x26	2,8	2	83 950 ...	425
M8x1x19	5,8	2,5		428
M10x1x16	5,8	3		426
M16x1x16	11,7	5		427

Slotted reduction sleeves

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



DCONMS mm	DCONWS mm	OAL mm	LFSF mm
20	6	30	4
20	8	30	4
20	10	30	4
20	12	30	4
20	15	30	4
20	16	30	4
25	6	40	4
25	8	40	4
25	10	40	4
25	12	40	4
25	15	40	4
25	16	40	4
25	20	40	4
32	6	50	4
32	8	50	4
32	10	50	4
32	12	50	4
32	15	50	4
32	16	50	4
32	20	50	4
40	10	78	4
40	12	78	4
40	15	78	4
40	16	78	4
40	20	78	4
40	25	78	4
40	32	78	4
50	20	88	4
50	25	88	4
50	32	88	4
50	40	88	4

CX

83 271 ...

206

208

210

212

215

216

256

258

260

262

265

266

270

326

328

330

332

335

336

340

410

412

415

416

420

425

432

520

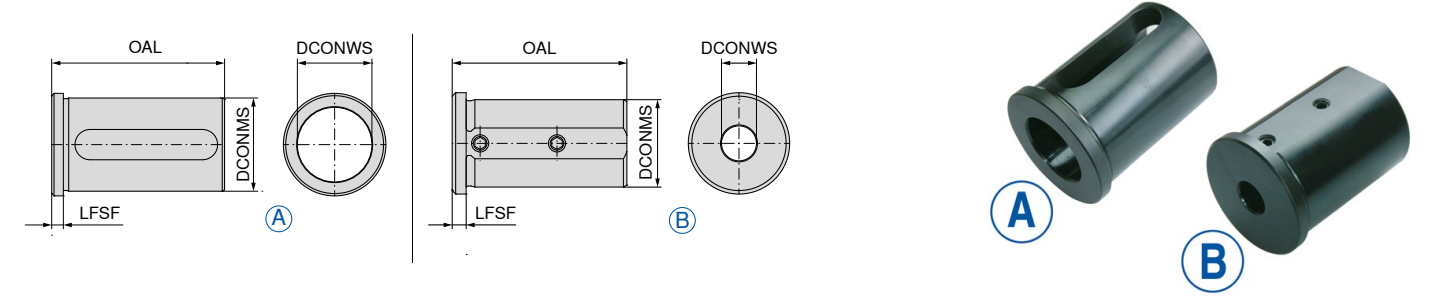
525

532

540

Reduction sleeves for direct clamping

▲ For tools with cylindrical shank



DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	
25	6	50	4	B	
25	8	50	4	B	
25	10	50	4	B	
25	12	50	4	B	
25	14	50	4	A	
25	16	50	4	A	
25	20	50	4	A	
32	6	58	5	B	
32	8	58	5	B	
32	10	58	5	B	
32	12	58	5	B	
32	16	58	5	A	
32	20	58	5	A	
32	25	58	5	A	
40	8	58	5	B	
40	10	58	5	B	
40	12	58	5	B	
40	16	58	5	A	
40	20	58	5	A	
40	25	58	5	A	
40	32	58	5	A	
50	12	75	5	B	
50	16	75	5	A	
50	20	75	5	A	
50	25	75	5	A	
50	32	75	5	A	
50	40	75	5	A	

CX

83 272 ...

256

258

260

262

264

266

270

326

328

330

332

336

340

345

408

410

412

416

420

425

432

512

516

520

525

532

540

Taper wiper

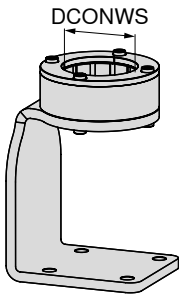
▲ Version made from hard wood with felt inserts



Adapter		CX	
		83 715 ...	
MK 1			001
MK 2			002
MK 3			003
MK 4			004
MK 5			005
HSK 32			320
HSK 40			400
HSK 50			500
HSK 63			630
HSK 80			800
HSK 100			100
SK 30			130
SK 40			140
SK 50			150

Assembly fixture for tool holders

- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary



Holder Type		DCONWS	CT	
		mm	80 722 ...	
HSK 32, PSC 32		32,0		032
HSK 40, PSC 40		40,0		040
MAS-BT 30		46,0		046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50		50,0		050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40		63,0		063
ISO 7388-1 - SK 50		97,5		097
HSK 100, MAS-BT 50, ANSI-CAT 50		100,0		100



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

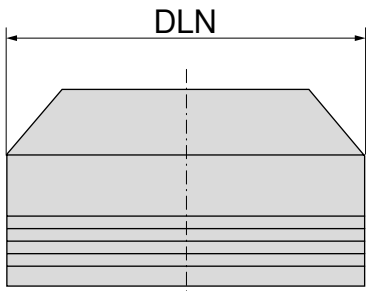
Assembly device for ISO adapters

▲ Aluminium



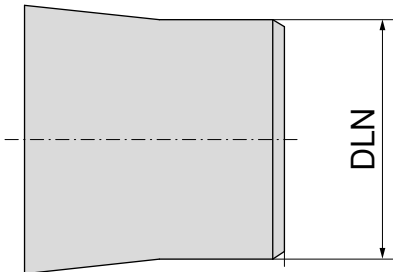
Adapter		CT
SK 30		80 720 ... 030
SK 40		040
SK 50		050

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



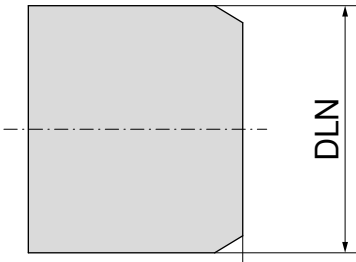
for collet	DCONWS mm	DLN mm	TQX Nm	for seals	
				CT	CT
426E (ER16)	1 - 10	30	80	84 950 ...	84 950 ...
430E (ER25)	2 - 16	40	90	001	011
470E (ER32)	2 - 20	50	180	003	013
472E (ER40)	3 - 26	63	200	005	015
				007	017

CoreLine – Tapered lock nut for precision collet chucks – Centro-P



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

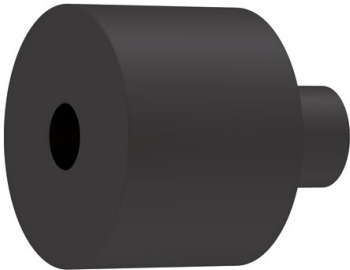
Mini lock nut for precision collet chucks



for collet	DCONWS mm	DLN mm	TQX Nm	for seals	
				CT	CT
4004E (ER08)	1 - 5	10	5 - 8	84 950 ...	84 950 ...
4008E (ER11)	1 - 7	16	10	040	
4008E (ER11)	Ø 3,0	16	10	041	
4008E (ER11)	Ø 4,0	16	10	042 ¹⁾	
4008E (ER11)	Ø 5,0	16	10	043 ¹⁾	
4008E (ER11)	Ø 6,0	16	10	044 ¹⁾	
4008E (ER11)	Ø 7,0	16	10	045 ¹⁾	
426E (ER16)	1 - 10	22	30	046 ¹⁾	
426E (ER16)	1 - 10	22	28	034	035

1) directly sealed

Collet removal aid for Mini lock nuts for precision collet chucks



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

Roll key

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



for lock nut	DLN mm
4008E / ER 11 CP mini	16
426E / ER 16 CP / ER 16 mini	22
426E / ER 16 CP Conical	24
426E / ER 16 CP	30
426E / ER 16 STD	32
430E / ER 25 CP	40
470E / ER 32 CP + STD	50
470E / ER 32 HDC	53
472E / ER 40 CP + STD	63

CT
84 950 ...
080 ¹⁾
026 ¹⁾
082 ²⁾
027
028
054
056
30200
057

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

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



for lock nut	DLN mm	TQX Nm	Square mm
4004E / ER08 CP mini	10	5 - 30	9 x 12
4008E / ER 11 CP mini	16	5 - 30	9 x 12
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12
426E / ER 16 CP Conical	24	10 - 80	9 x 12
426E / ER 16 CP	30	20 - 200	14 x 18
426E / ER 16 STD	32	20 - 200	14 x 18
430E / ER 25 CP	40	20 - 200	14 x 18
470E / ER 32 CP + STD	50	20 - 200	14 x 18
470E / ER 32 HDC	53	20 - 200	14 x 18
472E / ER 40 CP + STD	63	20 - 200	14 x 18

CT
84 950 ...
53300 ¹⁾
060 ¹⁾
170 ¹⁾
061 ²⁾
171
172
065
067
30300
068

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

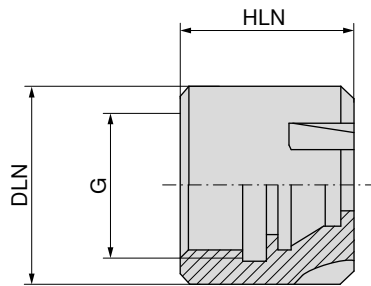
Torque key



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

AS
84 435 ...
030
080
200

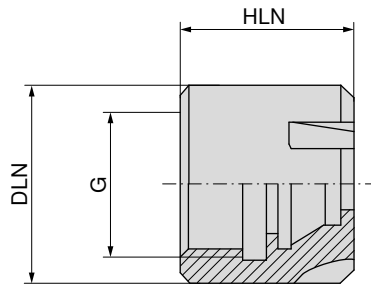
Mini ER lock nut



for collet	THSZMS	DLN mm	HLN mm	TQX Nm
4004E (ER08)	M10x0,75	12	11,0	8
4008E (ER11)	M13x0,75	16	12,0	18
426E (ER16)	M19x1	22	18,0	28
428E (ER20)	M24x1	28	19,5	35
430E (ER25)	M30x1	35	21,0	40

CT
62 950 ...
067
065
066
068
069

Mini ER lock nut for sealing rings



for collet	THSZMS	DLN mm	HLN mm	TQX Nm
426E (ER16-DS)	M19x1	22	22,0	28
428E (ER20-DS)	M24x1	28	23,2	35
430E (ER25-DS)	M30x1	35	24,7	40

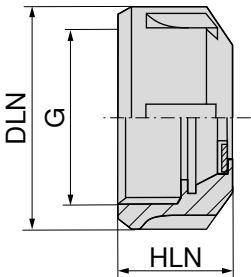
for seals
CT
83 950 ...
058
059
060

ER Mini clamping key



for collet		CT
		83 950 ...
4004E (ER08)		099
4008E (ER11)		100
426E (ER16)		101
428E (ER20)		102
430E (ER25)		103

ER Lock nut



				for seals	
for collet		THSZMS		CT	CT
				62 950 ...	83 950 ...
DLN	HLN				
mm	mm				
426E (ER16)	M22x1,5	32,0	17,0	054	054
426E (ER16)	M22x1,5	32,0	22,0		51900
428E (ER20)	M25x1,5	33,7	24,0		053
428E (ER20)	M25x1,5	35,0	23,2		055
430E (ER25)	M32x1,5	42,0	20,0	055	055
430E (ER25)	M32x1,5	42,0	24,7		51400
470E (ER32)	M40x1,5	49,7	27,5		056
470E (ER32)	M40x1,5	50,0	22,3	65600	
470E (ER32)	M40x1,5	50,0	27,0		057
472E (ER40)	M50x1,5	63,0	25,3	65700	
472E (ER40)	M50x1,5	63,0	30,7		

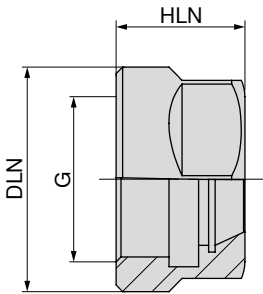
Y clamping key



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

ER Lock nut

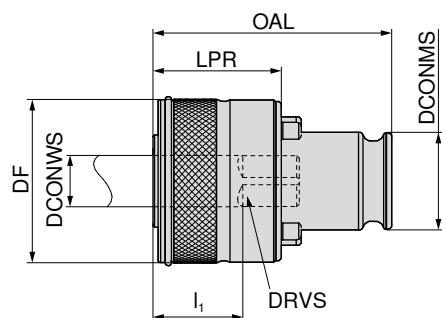
▲ DRVS = Drive size



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

Quick change tap adapter with overload clutch

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



SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR
	mm	mm			mm	mm	mm	mm	mm
01	2,8	2,1	M2		33	19	46,5	17	25
01	2,8	2,1	M2,5		33	19	46,5	17	25
01	3,5	2,7	M3		33	19	46,5	17	25
01	4,0	3,0	M3,5		33	19	46,5	17	25
01	4,5	3,4	M4		33	19	46,5	17	25
01	6,0	4,9	M4,5		33	19	46,5	17	25
01	6,0	4,9	M5		33	19	46,5	17	25
01	4,5	3,4		M6	33	19	46,5	17	25
01	6,0	4,9	M6		33	19	46,5	17	25
01	5,5	4,3		M7	33	19	46,5	17	25
01	7,0	5,5	M7		33	19	46,5	17	25
01	6,0	4,9		M8	33	19	46,5	17	25
01	8,0	6,2	M8		33	19	46,5	17	25
01	9,0	7,0	M9		33	19	46,5	17	25
01	7,0	5,5		M10	33	19	46,5	17	25
01	10,0	8,0	M10		33	19	46,5	17	25
01	8,0	6,2		M11	33	19	46,5	17	25
01	9,0	7,0		M12	33	19	46,5	17	25
02	6,0	4,9	M4,5 - M6		50	31	69,0	30	34
02	6,0	4,9	M7 (DIN 352)		50	31	69,0	30	34
02	7,0	5,5	M7		50	31	69,0	30	34
02	6,0	4,9		M8	50	31	69,0	30	34
02	8,0	6,2	M8		50	31	69,0	30	34
02	9,0	7,0	M9		50	31	69,0	30	34
02	7,0	5,5		M10	50	31	69,0	30	34
02	10,0	8,0	M10		50	31	69,0	30	34
02	8,0	6,2		M11	50	31	69,0	30	34
02	9,0	7,0		M12	50	31	69,0	30	34
02	11,0	9,0		M14	50	31	69,0	30	34
02	12,0	9,0		M16	50	31	69,0	30	34
02	14,0	11,0		M18	50	31	69,0	30	34
02	16,0	12,0		M20	50	31	69,0	30	34

CT

83 612 ...

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

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117

200

201

202

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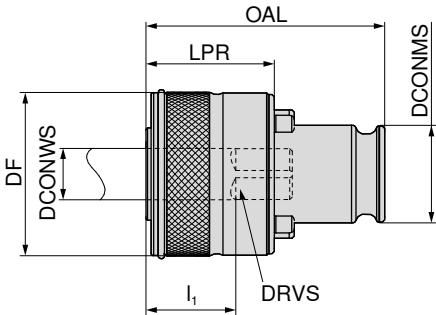
211

212

213

Quick change tap adapter with overload clutch, with through coolant

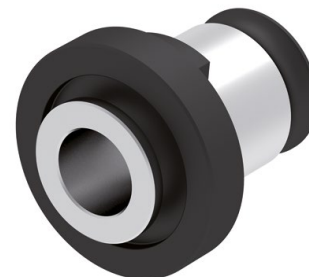
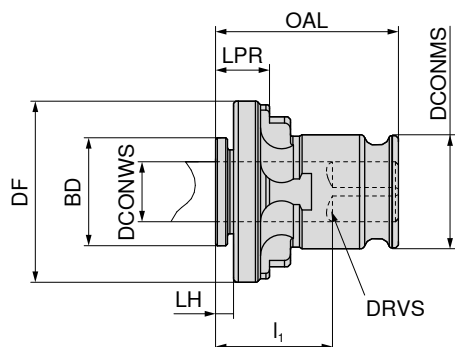
- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps



										CT	
SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	I ₁	LPR	83 616 ...	
	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

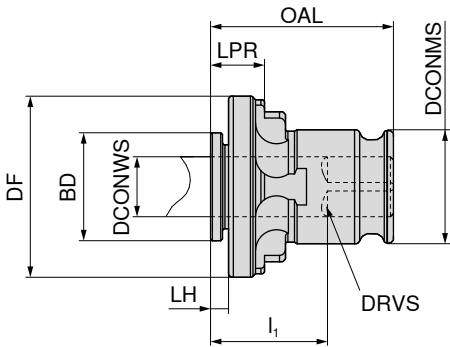
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS	BD	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LH	I ₁	LPR	CT
mm	mm	mm	mm			mm	mm	mm	mm	mm	mm	
01	3,5	18	2,7	M3		30,2	19	31	3,5	17	9,5	83 610 ...
01	4,5	18	3,4	M4		30,2	19	31	3,5	17	9,5	100
01	4,0	18	3,0	M3,5		30,2	19	31	3,5	17	9,5	101
01	2,8	18	2,1	M2 - M2,6		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	103
01	6,0	18	4,9	M4,5 - M6	M8	30,2	19	31	3,5	17	9,5	104
01	7,0	18	5,5	M7	M10	30,2	19	31	3,5	17	9,5	105
01	8,0	18	6,2	M8	M11	30,2	19	31	3,5	17	9,5	106
01	9,0	18	7,0	M9	M12	30,2	19	31	3,5	17	9,5	107
01	10,0	18	8,0	M10		30,2	19	31	3,5	17	9,5	108
01	11,0	18	9,0		M14	30,2	19	31	3,5	17	9,5	109
												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

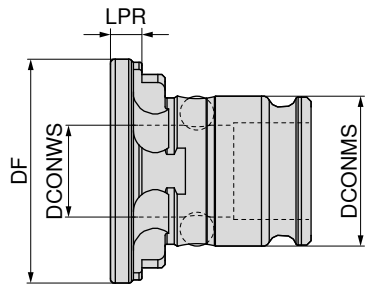
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS	BD	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LH	I ₁	LPR	CT 83 614 ...
	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.



SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm
02	46	31	19	8,5

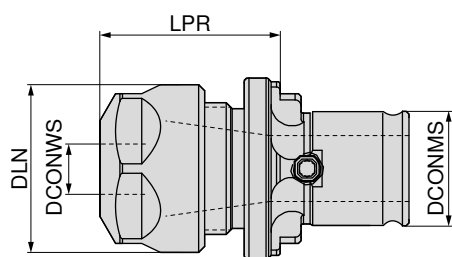
CT

83 624 ...

200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



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

CT

83 618 ...

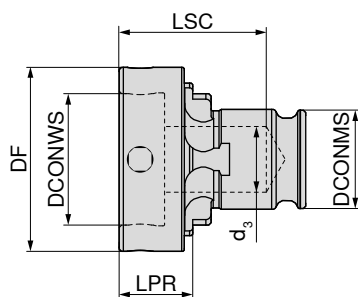
010 ¹⁾

016

1) with 6 position lock nut

Quick change adapter for dies

▲ For mounting dies according to DIN 223



SZID	for size	DF mm	DCONMS mm	DCONWS mm	LPR mm	d ₃ mm	LSC mm
01	16 x 5	25	19	16	9	12,5	23
01	20 x 5	30	19	20	9	12,5	23
01	20 x 7	30	19	20	11	12,5	25
01	25 x 9	35	19	25	14	12,5	28
01	38 x 10	48	19	38	15	14,2	29
01	30 x 11	40	19	30	16	12,5	30
01	38 x 14	48	19	38	19	14,2	33
02	20 x 5	30	31	20	22	15,0	57
02	20 x 7	30	31	20	22	15,0	57
02	25 x 9	35	31	35	22	15,0	57
02	38 x 10	48	31	38	22	22,0	57
02	30 x 11	40	31	30	22	22,0	57
02	38 x 14	48	31	38	25	22,0	60
02	45 x 14	57	31	45	29	22,0	64
02	45 x 18	57	31	45	29	22,0	64

CT

83 622 ...

116

120

121

125

138

130

139

220

221

225

238

230

239

245

246

Spanner



DRVS	TQX
mm	Nm
6	5
8	12,5
10	15
13	20
16	25
19	25
21	25
24	25

CT
84 357 ...
006
008
010
013
016
019 ¹⁾
021 ¹⁾
024 ¹⁾

1) only for MultiChange reamers

Spanner Head



DRVS mm	TQX Nm	Square mm
6	5	9 x 12
8	12,5	9 x 12
10	15	9 x 12
13	20	9 x 12
16	25	9 x 12
19	25	9 x 12
19	25	14 x 18
21	25	9 x 12
21	25	14 x 18
24	25	9 x 12
24	25	14 x 18

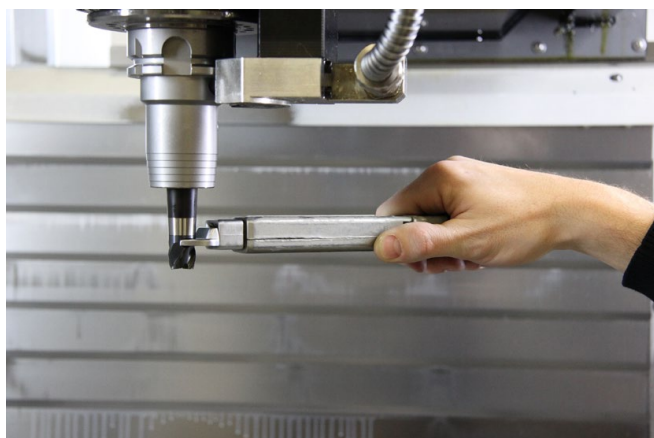
CT

84 358 ...
006
008
010
013
016
190
019 ¹⁾
210
021 ¹⁾
240
024 ¹⁾

1) only for MultiChange reamers

Assembly instructions for MultiChange head

- ▲ Cleaning of cone, thread and face of the milling head
- ▲ Cleaning of cone and thread face of the holder
- ▲ Cleaning of cone, thread and face of the holders
- ▲ Cutter head screwed clockwise by hand into the holder (be careful if using gloves)
- ▲ Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- ▲ The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area



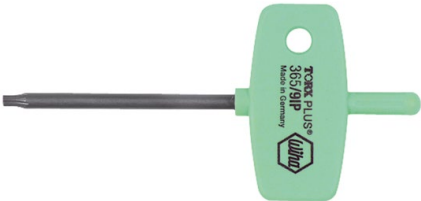
Important for the sensitive tuning is an additional placing of the hand on the exchange milling head. This means the torque can be better maintained.

TORX® Screwdriver



Size	LB mm	TQX Nm	AS	
			80 950 ...	
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 PLUS® Screwdriver



Size	LB mm	TQX Nm	AS	
			80 950 ...	
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

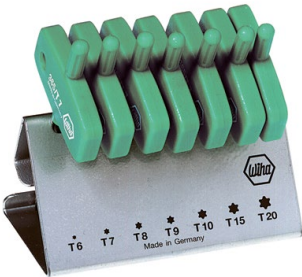
Allen key with cross handle



DRVS	TQX
mm	Nm
2	1,9
2,5	3,8
3	6,6
4	16
5	30
6	52
8	120
10	220

AS
80 397 ...
020
025
030
040
050
060
080
100

TORX® Screwdriver sets



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

AS
80 950 ...
090

TORX PLUS® Screwdriver sets



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

AS
80 950 ...
091

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



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

AS
80 397 ...
99900

TORX® Screwdriver



Size	LB mm
T06	60
T07	60
T08	60
T09	60
T10	80
T15	80
T20	100
T25	100
T30	115

AS
80 950 ...
100
101
102
103
104
105
106
107
092

TORX® MagicSpring®



Size	LB mm
MS T06	60
MS T07	60
MS T08	60
MS T09	60
MS T10	80
MS T15	80
MS T20	100
MS T25	100
MS T30	100

AS
80 950 ...
108
109
110
111
112
113
114
115
131

TORX PLUS® Screwdriver



Size		LB mm	AS	
			80 950 ...	
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



A stainless steel spring holds MagicSpring® TORX® and TORX PLUS® screws in place.



TorqueFix® Handle

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



TQX Nm	AS	
	80 021 ...	
0,4		00400
0,5		00500
0,6		006
0,7		007
0,8		008
0,9		00900
1		010
1,1		01100
1,2		012
1,5		01500
1,6		016
2		020
2,5		02500
3		030
3,2		032
3,8		03800
4		040
5		050
5,5		055
6		060

TorqueFix® Handle

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



TQX		AS	
Nm		80 021 ...	
7,2			07200

TorqueFix® key

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

Scope of supply:
incl. Plastic box and inspection report



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

easyTorque® Handle

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



TQX Nm	DRVS mm	BD mm	OAL mm	WT kg
0,5	4	34	130	0,950
0,6	4	34	130	0,950
0,9	4	34	130	0,940
1,1	4	34	130	0,101
1,2	4	34	130	0,990
1,4	4	34	130	0,101
2,0	4	34	130	0,101
2,5	4	34	130	0,106
3,0	4	34	130	0,104
3,8	4	34	130	0,105
4,0	4	34	130	0,105
4,5	4	34	130	0,105
5,0	4	34	130	0,105

AS
80 024 ...
00500
00600
00900
01100
01200
01400
02000
02500
03000
03800
04000
04500
05000

TorqueVario®-S

- ▲ Patented handle

Scope of supply:
incl. Torque-Setter setting tool



TQX Nm
0,4 - 1,0
0,5 - 2,0
0,8 - 5,0
2,0 - 7,0

AS
80 950 ...
046
191
192
193

Universal holder for Bits

▲ 162 mm long





for

DIN3126-C/E 6,3-1/4"

AS

80 950 ...

014

Interchangeable blade for hex drive





Size	TQX Nm	short AS	long AS
SW1,5	0,9	80 393 ...	80 950 ...
SW2	1,8	01500	151
SW2,5	3,8	02000	152
SW3	5,5	02500	153
SW4	8,0	03000	154
		04000	155



Short 75 mm suitable for TorqueFix® key, article number 80 392 ...

Long 175 mm suitable for TorqueFix® handle, article number 80 021 ... and TorqueVario®-S, article number 80 950 ...

Replaceable Blade for TORX®





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



Short 75 mm suitable for TorqueFix® key, article number 80 392 ...

Long 175 mm suitable for TorqueFix® handle, article number 80 021 ... and TorqueVario®-S, article number 80 950 ...

Replaceable Blade for TORX PLUS®



		long	
		AS	
Size	TQX Nm	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



Short 75 mm suitable for TorqueFix® key, article number 80 392 ...
Long 175 mm suitable for TorqueFix® handle, article number 80 021 ... and TorqueVario®-S, article number 80 950 ...

TORX® short bit (25 mm)

▲ DIN3126-C 6.3 – 1/4"



Size	TQX Nm
T06	0,9
T07	1,7
T08	2,6
T09	3,4
T10	4,5
T15	7,7
T20	12,7
T25	19
T30	37,4

AS
80 950 ...
015
016
017
018
019
020
021
022
093

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6.3 – 1/4"



Size	TQX Nm
T08-IP	2,6
T10-IP	4,5
T15-IP	7,7
T20-IP	12,7
T25-IP	19

AS
80 950 ...
068
070
071
072
073

Bit – hexagonal (50 mm)

▲ DIN3126-E 6.3 – 1/4"



Size		AS
		80 398 ...
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® long bit (50 mm)

▲ DIN3126-E 6.3 – 1/4"



Size		TQX Nm	AS
			80 950 ...
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® long bit (50 mm)

▲ DIN3126-E 6.3 – 1/4"



TORX® Bits long (70 mm)

▲ DIN3126-E 6.3 - 1/4"



Size	TQX Nm
T20	12,7

AS
80 950 ...
179

TORX PLUS® Allen key



Size	OAL mm
T15-IP	58
T20-IP	62

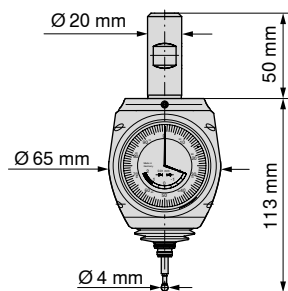
AS
80 951 ...
01500
02000

CoreLine – Universal 3D-tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.01 mm

Scope of supply:

3D tester including tracer insert and Allen key



Universal-3D-Tester

CT

85 290 ...

100

CoreLine – Zero height setting gauge

- ▲ to determine the point of reference and/or for adjusting tools „to zero“
- ▲ Plate Ø 10 mm
- ▲ Plate is hardened, non magnetic



OAH
mm

100

CT

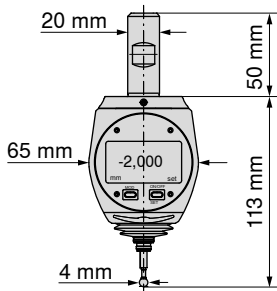
85 900 ...

018

CoreLine – Digital 3D tester

- ▲ Quick and accurate positioning
- ▲ For locating and/or setting the zero point of the workpiece
- ▲ with adjustable concentricity
- ▲ Usable in all 3 axes (x, y, z)
- ▲ For all CNC and erosion machines (insulation between stylus and case)
- ▲ Reading of actual dimensions is independent of direction
- ▲ Reading precision 0.001 mm

Scope of supply:
3D tester including tracer insert and Allen key

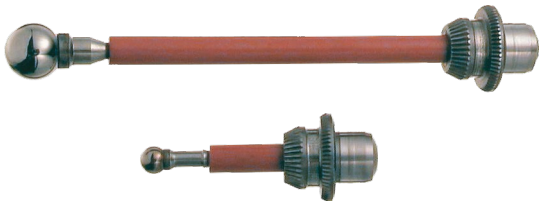
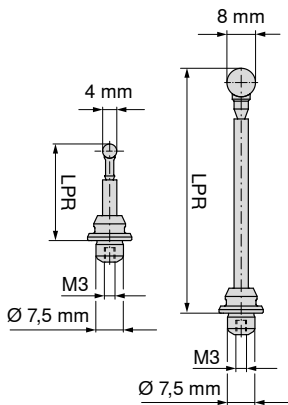


Digital 3D Tester

CT
85 291 ...
100

Stylus for 3D-tester

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



LPR
mm
25
65

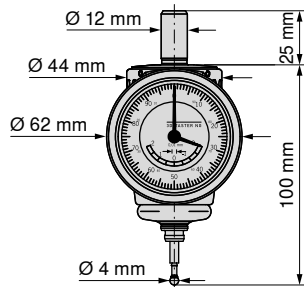
CT
85 290 ...
102
104

CoreLine – Universal 3D-Tester HQ

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

Scope of supply:

3D tester including tracer insert and Allen key



CT

85 292 ...

100

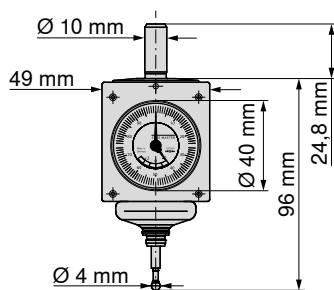
Universal 3D-Tester HQ

CoreLine – Universal 3D-Tester Mini

- ▲ fast and accurate positioning at reference edges
- ▲ very small universal 3D-Tester
- ▲ particularly suitable for machines with small spindle taper e.g. SK 30 or HSK 32
- ▲ low overhang length thanks to short housing
- ▲ characterised by over travel safety
- ▲ Functionality as with 85 290 100
- ▲ Accuracy 0,01 mm

Scope of supply:

3D tester including tracer insert and Allen key



CT

85 295 ...

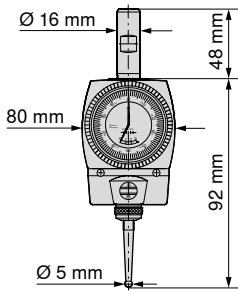
100

Universal 3D-Tester Mini

Centre finder

- ▲ Centralise holes and features quickly and accurately
- ▲ simple operation
- ▲ Dial gauge remains in the operators vision during process
- ▲ Centring accuracy 0,003 mm

Scope of supply:
3D-Tester incl. straight stylus and telescopic stop

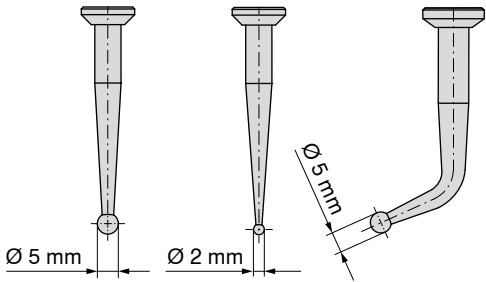


CT
85 299 ...
100

Centre finder

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

Stylii for Centre Finder



CT
85 299 ...
102
104
106

Straight stylus / Ball-Ø 2 mm
Straight stylus / Ball-Ø 5 mm
Curved stylus / Ball Ø 5 mm

Telescopic rod for Centre Finder



DCONMS mm	OAL mm
6	478

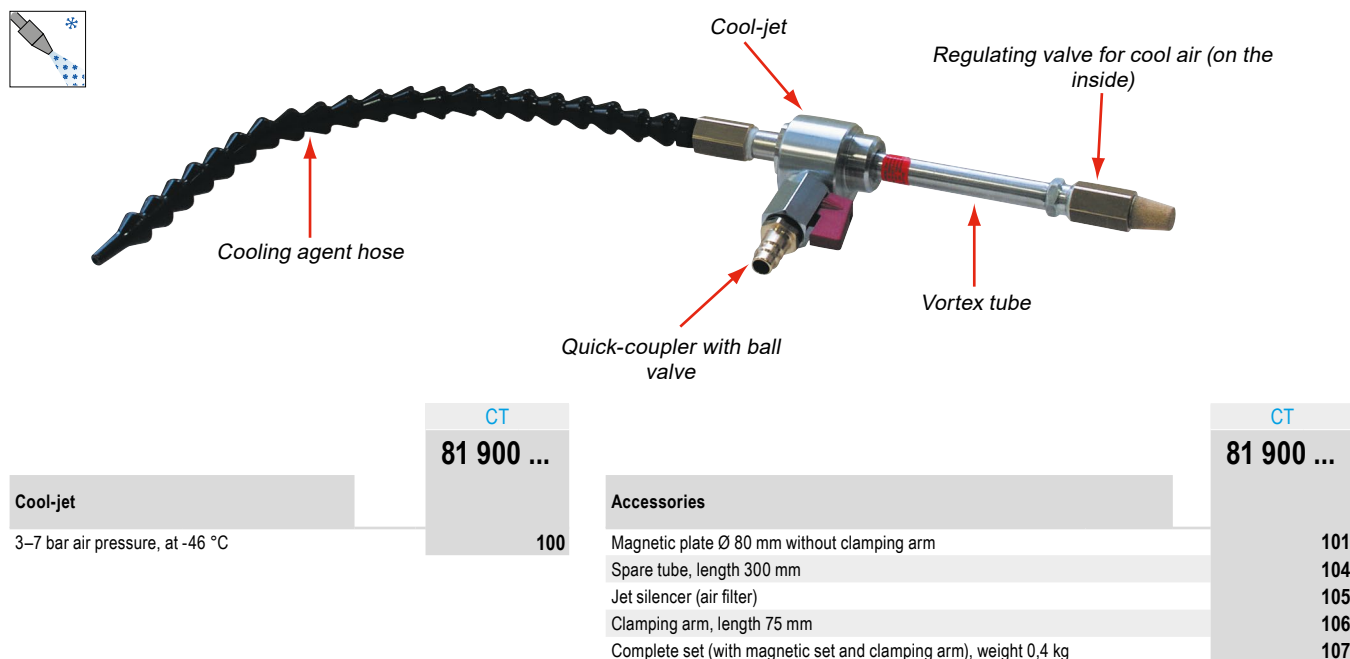
CT
85 299 ...
111

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100 % when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

Not only for **cooling the tool and workpiece** it is primarily for **chip removal** to prevent **chip jamming**.

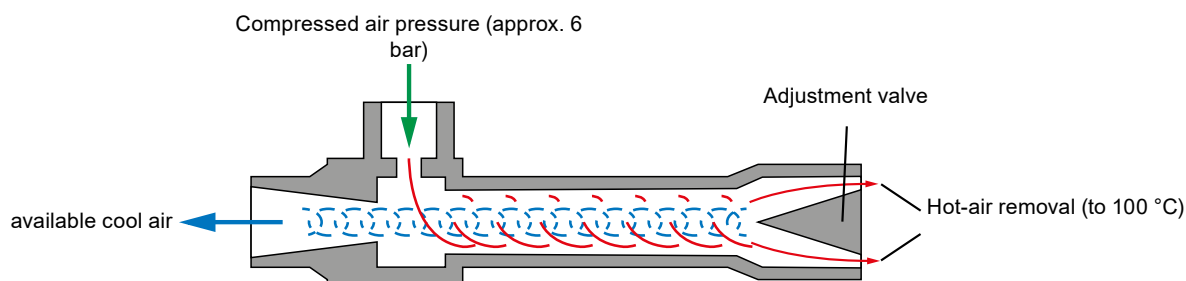


Technical description – operating instruction

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

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

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



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

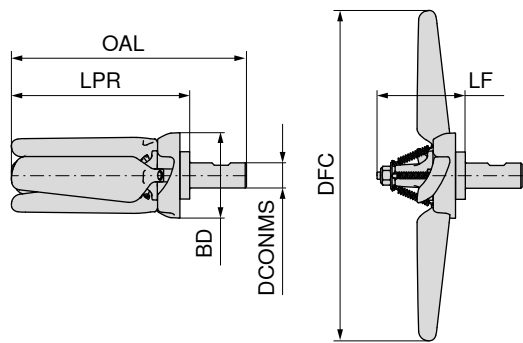
Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

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

CoreLine – Cleaning propeller – large

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



IK central

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	186,3	141,3	69,75	254	67,68	5000 - 8000

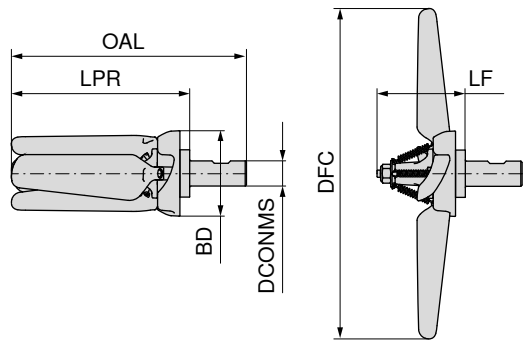
CT

80 399 ...

02000

CoreLine – Cleaning propeller – small

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



IK central

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	135	90	70	160	68	6000 - 12000

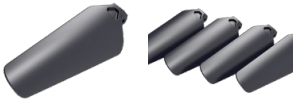
CT

80 399 ...

16000

Rotor blade kit

Scope of supply:
4 rotary blades and 4 tension springs



1 rotary blade
and 1 tension
spring

4 rotary blades
and 4 tension
springs

Size	CT	CT
	80 399 ...	80 399 ...
klein	36000	46000
groß	30100	30200

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



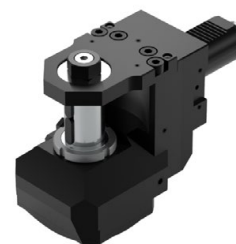
Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- ▲ Sauter
- ▲ Baruffaldi
- ▲ Duplomatic
- ▲ DIN1809
- ▲ DIN5480
- ▲ DIN5482
- ▲ Baruffaldi Toem
- ▲ Bevel gear milling
- ▲ Spline / tooth milling
- ▲ BMT (bolt on)

Technical Advice

Are you interested in our driven tools ? If so please contact your technical sales engineer who will be glad to assist you. Alternatively, you can contact our office based internal technical sales engineers who can be reached on our freephone number.

Enquiry Form

Should you have questions about driven tools you can find a detailed questionnaire on our website in the download area. Carefully complete the form and send it via e-mail or printed fax → cutting.tools/en/download

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options!
With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining

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

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.



The advantages at a glance

- ▲ Cutting tools are preset off the machine
- ▲ Quick change thanks to only one clamping point
- ▲ No risk of injury when changing tools
- ▲ Transverse force-free clamping of the tools
- ▲ Safe torque transmission
- ▲ No loose parts



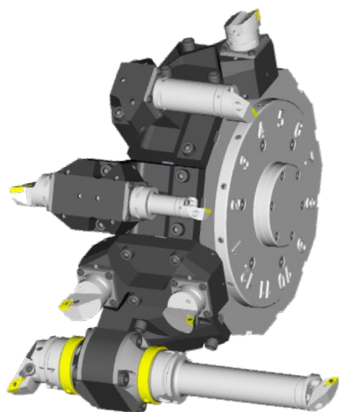
System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.



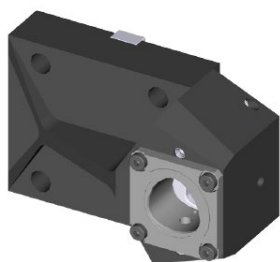
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and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

Quick-Change

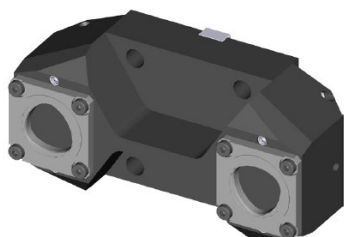


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

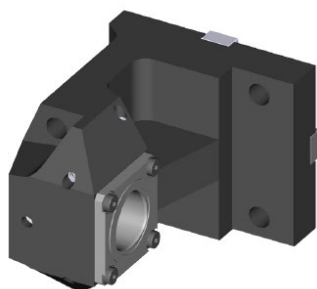
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



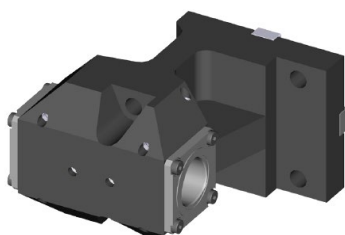
Tool holder single and straight



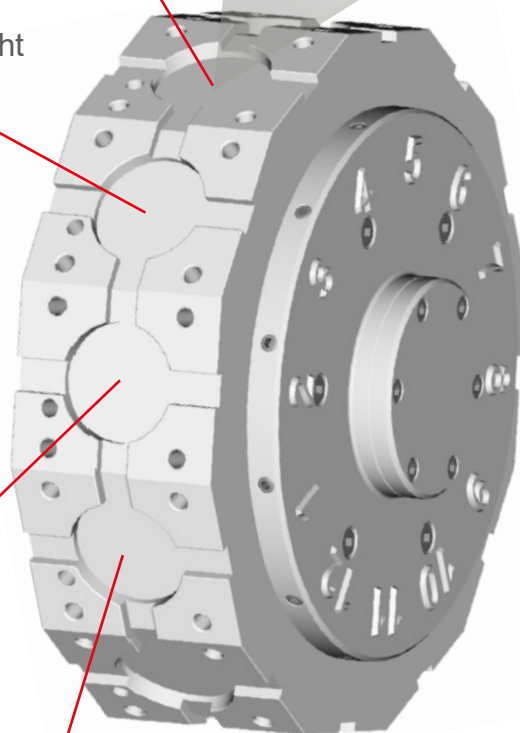
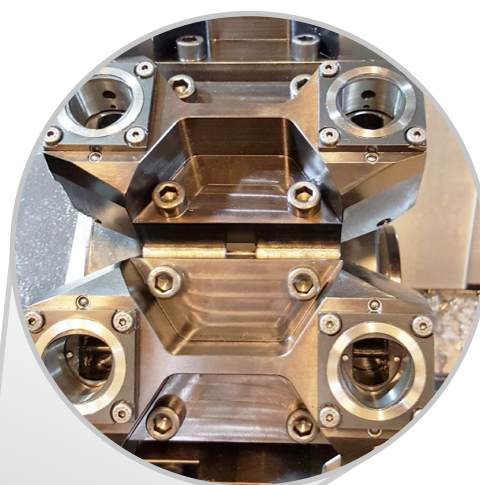
Tool holder double and straight



Single angle tool holder



Double angle tool holder

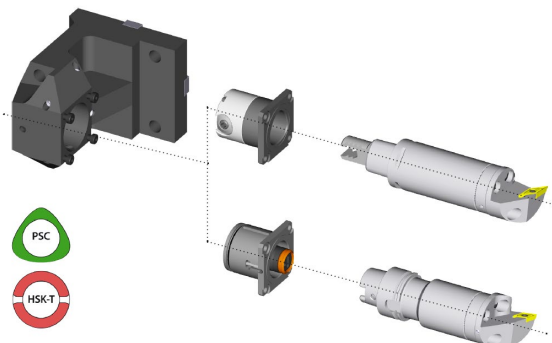


Revolverdisk BMT/VDI/...

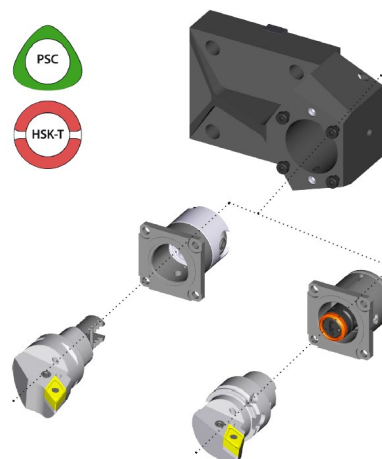
HSK/PSC clamping units

▲ The tool holders are fitted with either an HSK or PSC clamping unit.

▲ Clamping units are available in sizes HSK 40/63/100 and PSC 40/50/63.

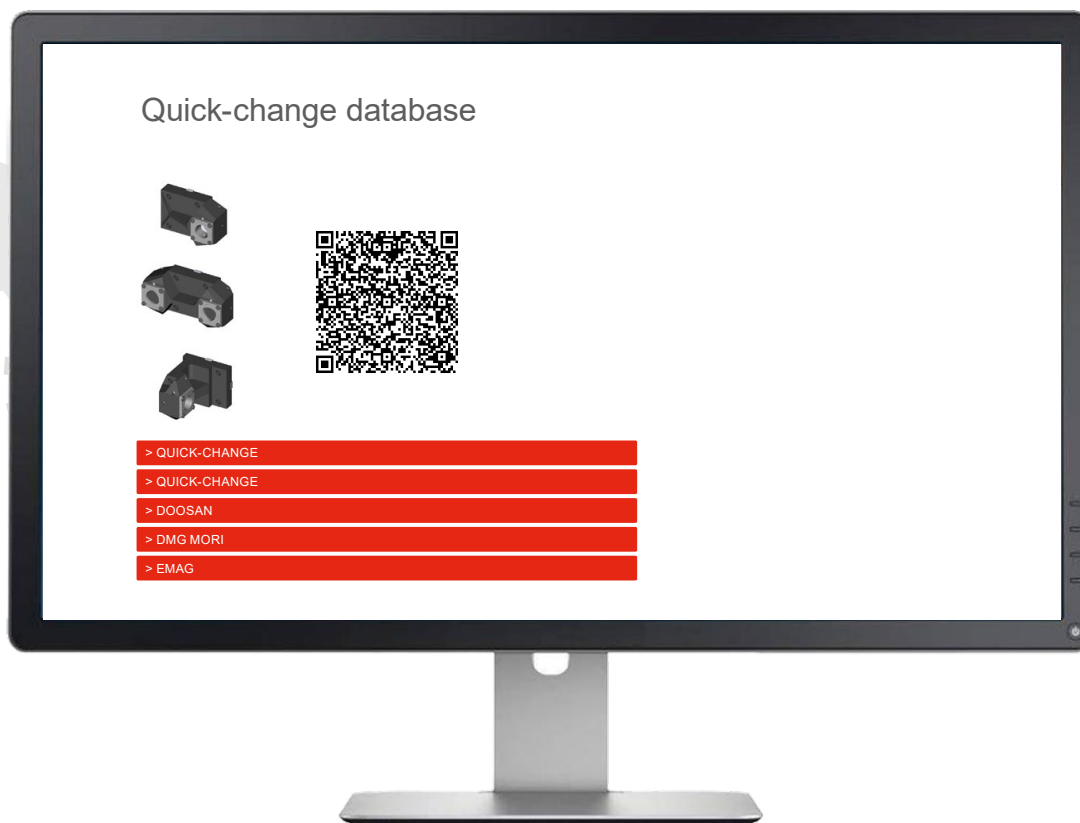


▲ The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



Information on enquiry process

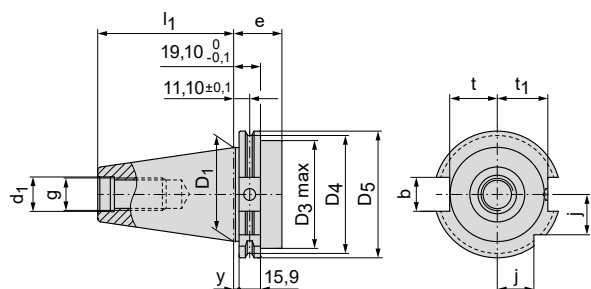
▲ To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

Please fill in this form carefully and send it to us by email or fax. → cutting.tools/en/download-quickchange

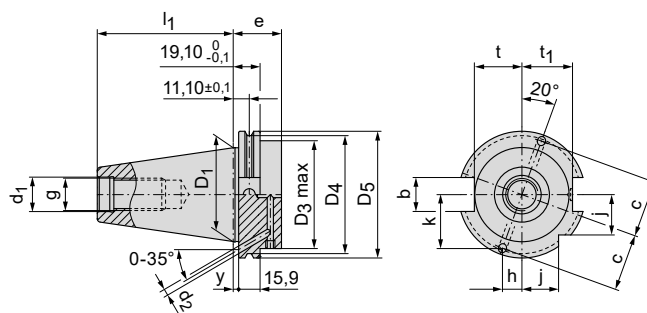
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

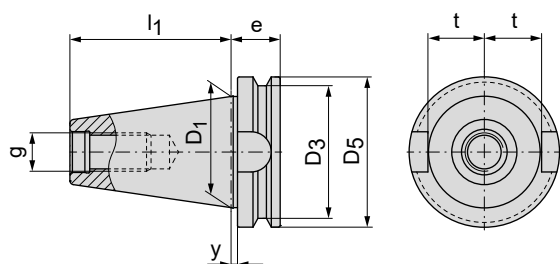


ISO 7388-1 – 871 Form B



	D_1 mm	$D_3 \max$ mm	D_4 mm	D_5 mm	$l_1 +0,20$ mm	g	$d_1 H7$ mm	e mm	$y_{\pm 0,1}$ mm	t mm	t_1 mm	j mm	d_2 mm	h mm	k mm	c mm	b mm
SK 30	31,75	45	44,30	50	47,8	M 12	13	35	3,2	16,4	19	15					16,1
SK 40	44,45	50	56,25	63,55	68,4	M 16	17	35	3,2	22,8	25	18,5	4	9,2	25,4	27	16,1
SK 50	69,85	80	91,25	97,5	101,75	M 24	25	35	3,2	35,5	37,7	30	6	14,4	39,5	42	25,7

ISO 7388-2



Maximum recommended rpm for steep taper toolholders:

SK / BT 30 to 20,000 $1/\min$.

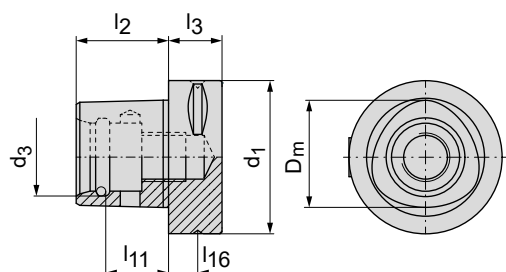
SK / BT 40 to 20,000 $1/\min$.

SK / BT 50 to 16,000 $1/\min$.

	D_1 mm	D_3 mm	D_5 mm	l_1 mm	g	e mm	t mm	y mm	b mm
BT 30	31,75	38	46	48,4	M 12	22	16,3	2	16,1
BT 40	44,45	53	63	65,4	M 16	27	22,5	2	16,1
BT 50	69,85	85	100	101,8	M 24	38	35,3	3,2	25,7

Technical Data for Polygon shank adapters

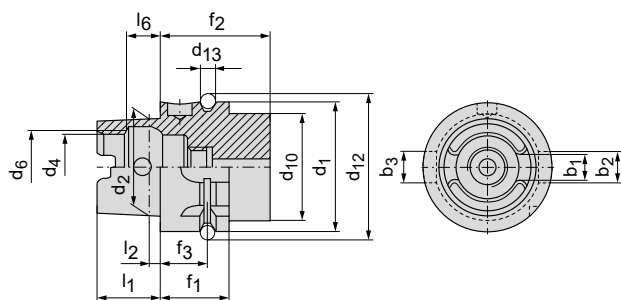
ISO 26623-1



	d_1 mm	$d_3 \pm 0,05$ mm	$l_2 \pm 0,1$ mm	l_3 mm	$l_{11} \pm 0,1$ mm	l_{16} mm	D_m 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 $\frac{1}{\text{min}}$.

HSK-A 40 to 42.000 $\frac{1}{\text{min}}$.

HSK-A 50 to 30.000 $\frac{1}{\text{min}}$.

HSK-A 63 to 25.000 $\frac{1}{\text{min}}$.

HSK-A 100 to 16.000 $\frac{1}{\text{min}}$.

	b_1 mm	b_2 mm	b_3 mm	d_1 mm	d_2 mm	d_4 mm	d_6 mm	d_{10} mm	d_{12} mm	d_{13} mm	f_1 mm	f_2 mm	f_3 mm	l_1 mm	l_2 mm	l_6 mm
HSK 32	7,05	7	9	32	24	17	19	26	37	4	20	35	16	16	3,2	8,92
HSK 40	8,05	9	11	40	30	21	23	34	45	4	20	35	16	20	4	11,42
HSK 50	10,54	12	14	50	38	26	29	42	59,3	7	26	42	18	25	5	14,13
HSK 63	12,54	16	18	63	48	34	37	53	72,3	7	26	42	18	32	6,3	18,13
HSK 100	20,02	20	22	100	75	53	58	88	109,75	7	29	45	20	50	10	28,56

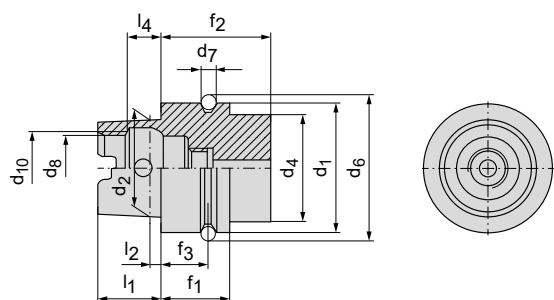
ISO 12164 – HSK-A

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

ISO 12164 – HSK-C

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

ISO 12164 – HSK-E



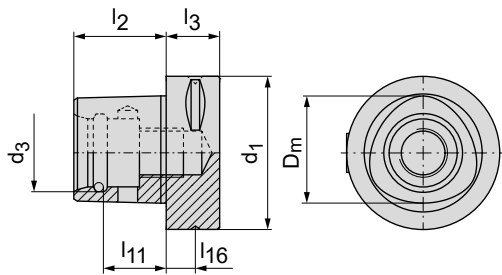
	d_1 mm	d_2 mm	d_4 mm	d_6 mm	d_7 mm	d_8 mm	d_{10} mm	f_1 mm	f_2 mm	f_3 mm	l_1 mm	l_2 mm	l_4 mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

ISO 12164 – HSK-E

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

Technical Information for Polygon Shank Adapters

ISO 26623-1



	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.

High pressure and hydraulic chucks

The right hydraulic chuck for so many different machining scenarios!

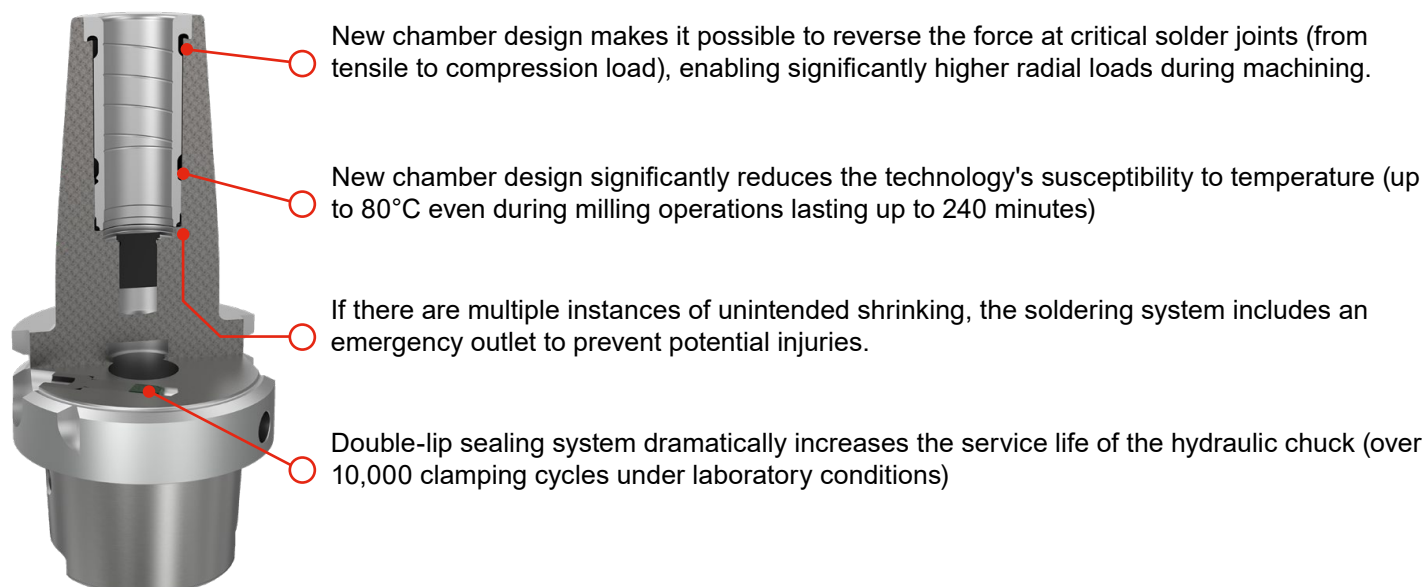
Are you looking for higher cutting speeds to enhance productivity and facilitate handling? The entire range of high pressure chucks and the range of hydraulic chucks from CERATIZIT guarantee easy, process-secure tool clamping for every application.

High pressure chuck		Application range		
Rough	Milling with strong forces > roughing	▽▽▽	▽▽	▽
Complus	All-rounder	▽▽▽	▽▽	▽
Access 3°	Optimum accessibility	▽▽▽		
Access 4.5°	Optimum accessibility thanks to same interference contour as heat shrink adapter, latest technology	▽▽▽	▽▽	

Hydraulic chuck		Application range	
Fit	All-rounder	▽▽▽	▽▽
Turn	Perfect for turning operations	▽▽▽	▽▽
Compact	affordable all-round alternative	▽▽▽	▽▽

Main Application	▽▽▽	▽▽	▽
Extended application	▽▽▽	▽▽	▽
	Finishing	Roughing - Finishing	Roughing

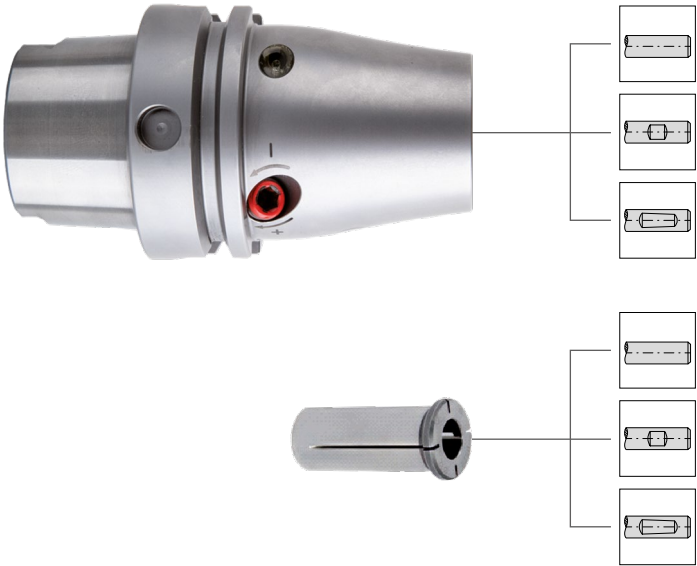
Maximum performance and productivity



High pressure and hydraulic chucks

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 high pressure chuck. A high clamping force is particularly important in the HPC machining of larger clamping diameters, as otherwise the tool may be pulled out of the adapter. The high pressure chuck now offers this process security.

Key Benefits

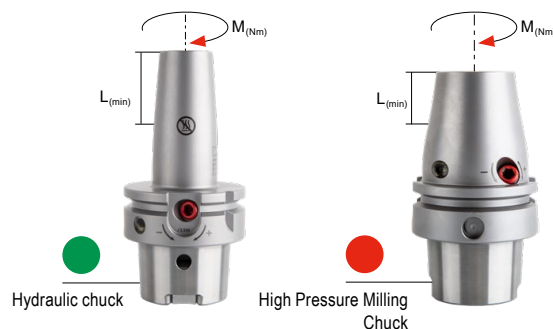
- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

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

Symbol explanation

-  Plain cylindrical shank
-  Cylindrical shank with lateral driving face „Weldon“
-  Cylindrical shank with angled clamping flat „Whistle Notch“

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
●	Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm
●	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
●	Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
●	Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm
●	Md with shank at minimum size						280	360	550	650	800	Nm
●	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
●	Md with shank at minimum size	30	45	60	120	120	180	220	250	330	Nm
●	Md with shank at maximum size	45	65	110	170	170	230	300	320	440	Nm

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
●	Md with shank at minimum size	6	9	16	30	55	90	120	135	190	Nm
●	Md with shank at maximum size	10	12	22	40	75	120	150	170	260	Nm

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

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

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

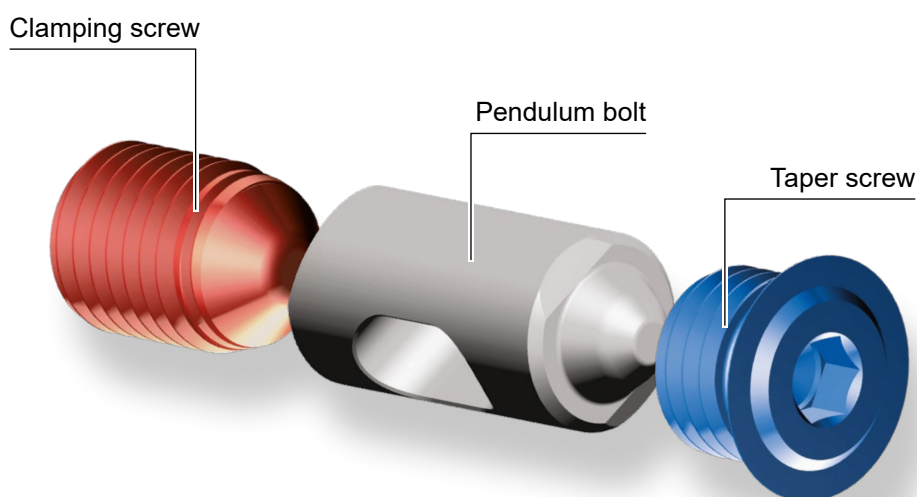
Clamping diameter (d1 h6)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	mm
ER 32 tightening torque 40 Nm			25	37	50															Nm
ER 32 torque moment 120 Nm						93	112	137	150	168	187	200	225	237						Nm
ER 32 torque moment 140 Nm															275	300	325	350		Nm
ER 32 tightening torque 180 Nm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

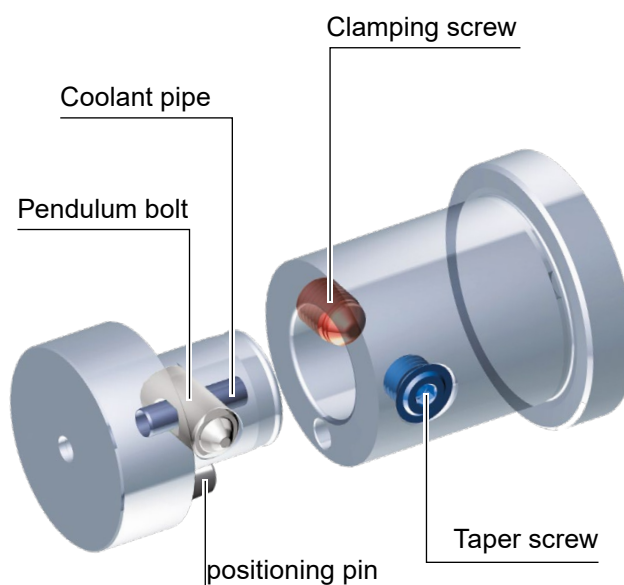
Even better connected

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	8495027000	8495026000	8495026800	8495099700	8495024400	8495023600	8495098900	8495030400
32	8495027100	8495026100	6295013989	8495099600	8495024500	8495023700	8495098800	8495030500
40	8495027200	8495026200	8495026900	8495099500	8495024600	8495023800	8495098700	8495030600
50	8495020400	8495020000	8495020300	8495099800	8495020100	8495020200	8495099900	8495030700
63	8495027300	8495026300	8495025500	8495099400	8495024700	8495023900	8495098600	8495030800
80	8495025100	8495026400	8495025600	8495099300	8495024800	8495024000	8495098500	8495030900
100	8495025200	8495026500	8495025700	8495099200	8495024900	8495024100	8495098400	8495031000
125	8495025300	8495026600	8495025800	8495099100	8495025000	8495024200	8495098300	
160	8495025400	8495026700	8495025900		8495023500	8495024300		



Workpiece clamping

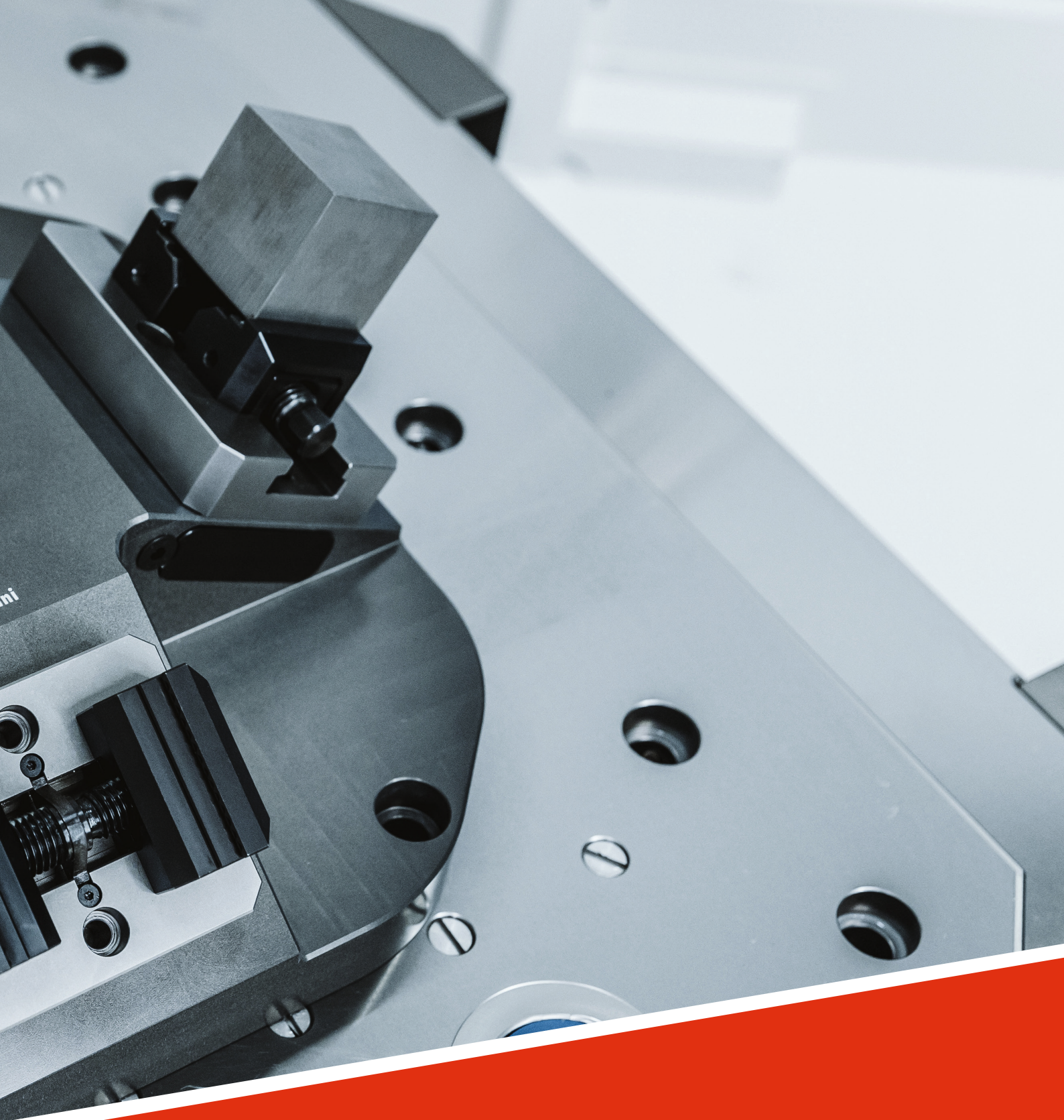
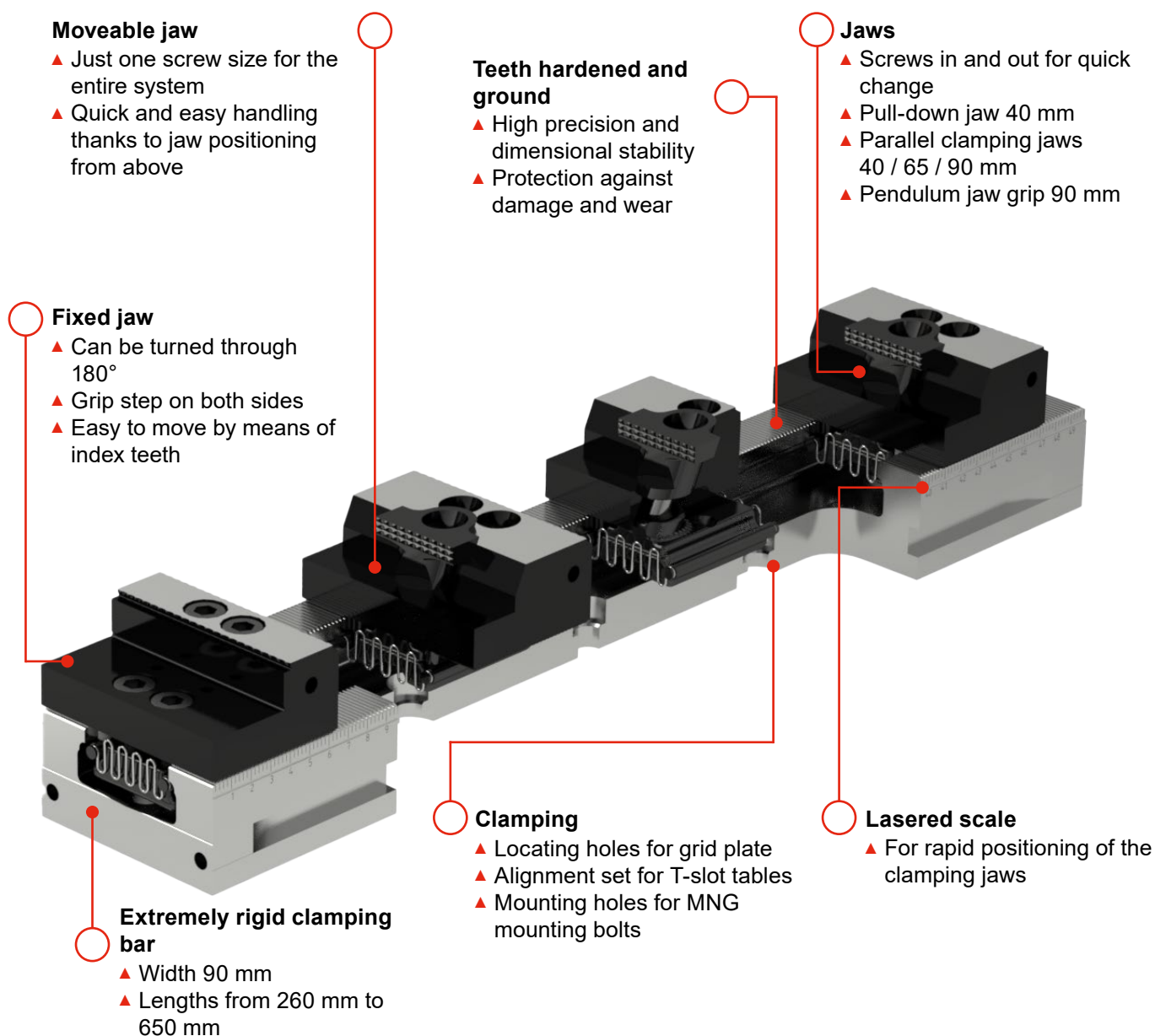


Table of contents

- Clamping systems overview
- Toolfinder – Clamping systems
- Product programme
- General top jaws overview
- Workpiece supports overview
- Accessories General Overview
- Clamping levers overview
- Screws Overview



Clamping systems overview

Single vice

- ▲ Power-assisted systems NCG, HDG 2 and H5G
- ▲ Fixed jaws as reference
- ▲ High repeatability
- ▲ Very good angular accuracy



High precision and force amplification

Centric vice

- ▲ symmetrical clamping
- ▲ very good accessibility for 5-sided machining
- ▲ part datum always centered
- ▲ high repeatability



High process security with encapsulated system

Multiple vice

- ▲ Faster set up times
- ▲ multifunctional use
- ▲ optimum utilization of the machine table
- ▲ high repeatability



Increased machine uptime

Stationary three-jaw chuck – SBF 3

- ▲ Suitable for 3/5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems
- ▲ Wedge bar drive
- ▲ Hardened and stiff base body
- ▲ Optimised lubrication system



Ø 200 mm



Ø 315 mm



The perfect clamping situation for round components

Clamping variants

- ▲ Zero point clamping systems
- ▲ Zero point clamping system grid plates
- ▲ MNG – Mechanical zero point clamping system
- ▲ PNG – Pneumatic zero point clamping system



Reduction in setup times

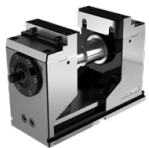
Clamping Towers

- ▲ Double sided clamping tower
- ▲ Triangular clamping tower
- ▲ Cruciform clamping tower
- ▲ Cube clamping tower



Automation made easy

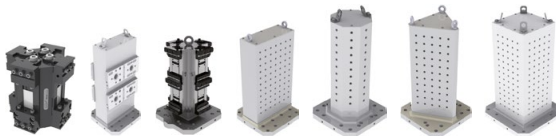
Toolfinder clamping systems

Type	Description	3 axis	4 axis	5 axis	
Single vice	NCG  ▲ 160° quick clamping ▲ rapid installation and removal of the spindle assembly ▲ quick span adjustment	✓	✓		
	NCG 5A  ▲ 160° quick clamping ▲ for 5 axis machining ▲ quick span adjustment	✓		✓	
	H5G  ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100% encapsulated	✓		✓	
	X5G -Z  ▲ 100 % encapsulated ▲ Optimum accessibility ▲ 5- and 6-sided machining possible ▲ Fast jaw changeover without tools	✓		✓	
	ESG 4  ▲ 100 % encapsulated ▲ Precision base body ▲ High clamping force ▲ Large clamping range	✓	✓	✓	
	ESG 5  ▲ New version of the sealed centric vice ZSG 4 as single vice ▲ Identical dimensions and function as the ZSG 4	✓	✓	✓	
	HDG 2  ▲ mechanical power transmission ▲ clamping force with only one turn of the handle ▲ infinitely variable clamping force setting	✓			
Centric vice	ZSG 4  ▲ ball bearing, backlash free spindle ▲ high precision, clamping force and process security ▲ repeatability ± 0.01 mm	✓	✓	✓	
	ZSG mini  ▲ Fast jaw changeover without tools ▲ compact and precise ▲ optimum accessibility from all sides ▲ stainless, hardened base body	✓	✓	✓	

	Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Page No.
	100 125 160	305 390 530	245 343 506	✓	✓	✓	30 40 40	→
	100 125	305 390	199 269	✓		✓	18 24	→
	125	300	249	✓	✓	✓	40	→
	125	330 430 500 630 800	80-210 80-310 80-380 80-510 80-688	✓	✓	✓	40	→
	80 125 160	214 362 480	192 308 434	✓	✓	✓	25 40 50	→
	80 125 160	130+190 160+235+300 280+480	63-171 84-281 125-448	✓	✓	✓	35 35 50	→
	100 125 160	342 400 544	278 338 470	✓		✓	30 40 60	→
	80 125 160	130+190 160+235+300 280+480	121-185 163-303 134-462	✓	✓	✓	25 40 50	→
	45 70	80 100	7-77	✓	✓	✓	16	→

Toolfinder clamping systems

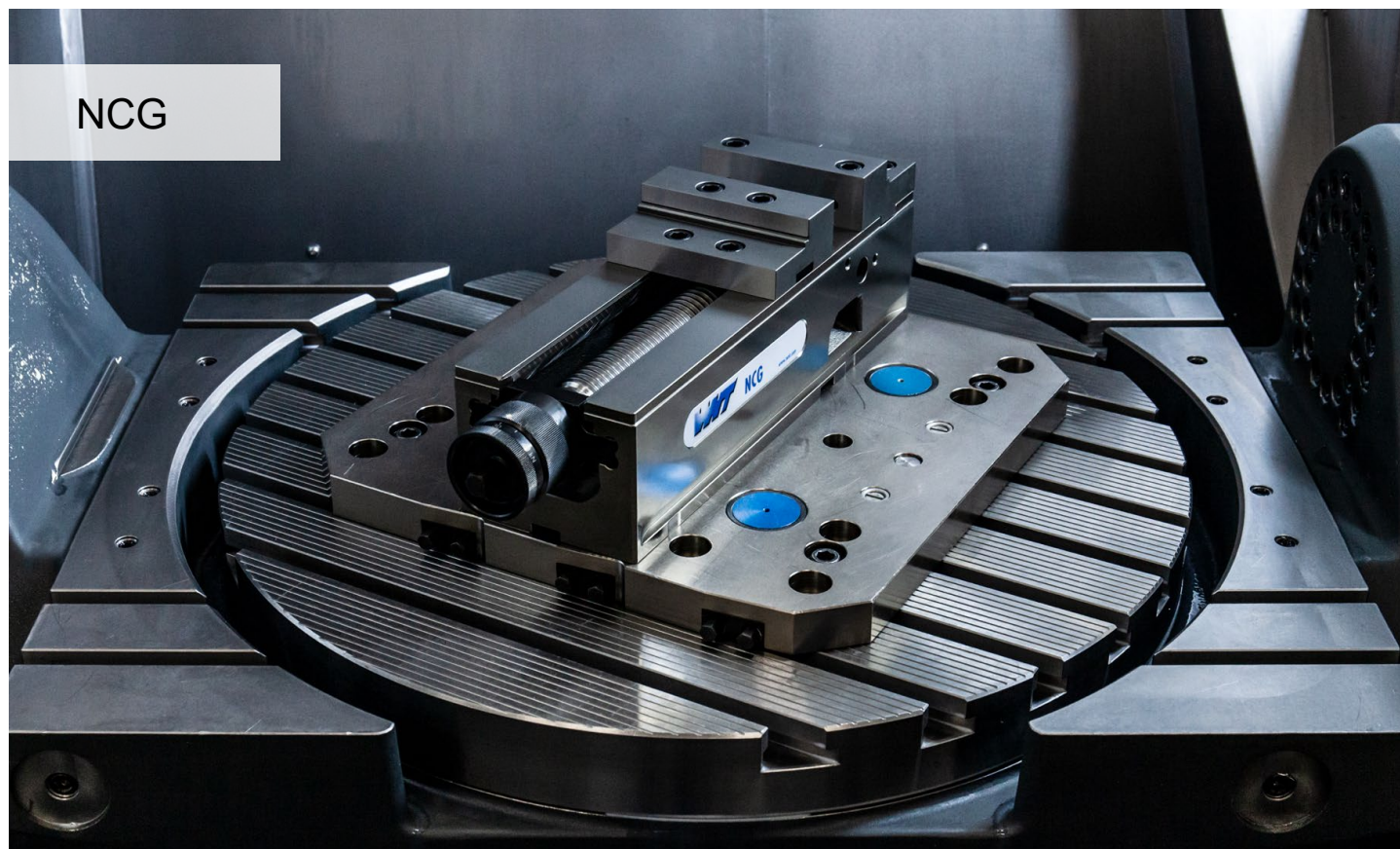
Type	Description	3 axis	4 axis	5 axis
Multiple vice	DSG 4  ▲ Quick assembly and disassembly ▲ Flexible clamping system ▲ Can be converted into single vice	✓	✓	✓
	Verso  ▲ Variable clamping system ▲ Clamp several small and large components ▲ Innovative multiple vice system	✓	✓	✓
Stationary three-jaw chuck	SBF 3  ▲ Suitable for 3/5-axis machining of round components ▲ Compatible with PNG and MNG zero point clamping systems	✓		✓
	 ▲ Suitable for 3/5-axis machining of round components ▲ Compatible with PNG and MNG zero point clamping systems	✓		✓

Type		Description
Zero point clamping systems	mechanical	MNG  ▲ All round plate for all machine tables
		MNG mini  ▲ For workpiece clamping in the smaller dimension range
	pneumatic	PNG  ▲ Process security thanks to self-locking mechanism
Clamping Towers		 ▲ Increased machine uptime

Manual machine vice

Drilling machine vice	HSG  ▲ fast jaw adjustment, compact and precise
-----------------------	---

	Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Page No.
	80	300	102				25	
	125	320+390+460 530+600+670+740	114+149+184 219+254+289+324	✓	✓	✓	40	→
	40 65 90	260 -650	524	✓	✓	✓	30	→
		Ø 200	SB-H jaws 6–180			✓	100	
		Ø 315	SB-H jaws 12–420			✓	180	→
	mechanical		pneumatic		Comments			Page No.
	✓							→
	✓							→
			✓					→
	✓							→
	✓							→



Systematic clamping

Modular machine vice as system with clamping under tension. Unique, patented fast handle clamping with mechanical power assist and minimum setup times.

Your benefits:

- ▲ Quick adjustment using a crank handle
- ▲ Quick positioning with MNG on the machine table without an intermediate pallet
- ▲ Clamping force can be continuously adjusted 4 – 40 kN
- ▲ 160° quick clamping
- ▲ Quick and easy jaw change with 4 screws
- ▲ Easy cleaning thanks to rapid disassembly of the entire spindle unit
- ▲ Extensive modular jaw range



Clamping/aligning:



Clamping with two dowel screws
dia. 12_{H7} / M12 (NCG 100)
Article no. 80 890 313 or dia. 16_{g5} / M16
(NCG 125 / 160) **Article no. 80 890 314**



Alignment through 20^{H7} precision slot
nuts in the base body and clamping with
clamping claws



Alignment and clamping with MNG zero
point clamping system (2-3 mounting bolts)

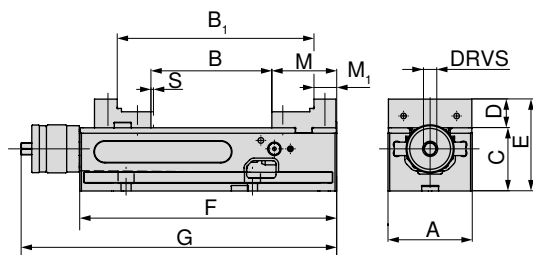
CoreLine – NC-quick clamping vice with combi reversible jaw plus – NCG

▲ thanks to additional threads, top jaws with heights of 18 mm and 40 mm can be used

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 combi reversible jaw plus, clamping lever

NCG	MNG	PNG
-----	-----	-----



A	B	B ₁	C -0.02	D	E	F	G	M	M ₁	S	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3	14	4 - 40	34

CW

80 890 ...
12500

CoreLine – NC-quick clamping vice with combination jaw – NCG

▲ Fast 160° handle clamping

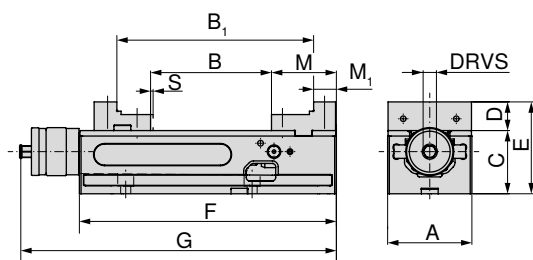
▲ Rapid installation and removal of the spindle assembly

▲ S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 combi reversible jaws (one side stepped, one side smooth), clamping lever

NCG	MNG	PNG
-----	-----	-----



A	B	B ₁	C -0.02	D	E	F	G	M	M ₁	S	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
100	0 - 155	91 - 245	75	34	109	305	374	77	27	2,5	14	4 - 30	19
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3	14	4 - 40	34
160	0 - 314	113 - 426	115	49	164	530	600	108	52	3	14	4 - 40	68

CW

80 890 ...
602
627
662

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

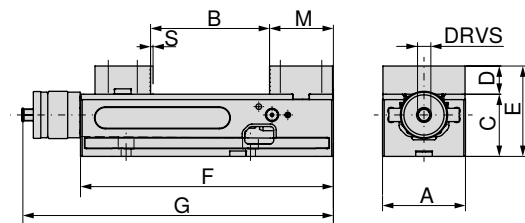
CoreLine – NC-quick clamping vice with standard jaw – NCG

- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 standard reversible jaws (one side smooth, one side serrated), clamping lever

NCG	MNG	PNG
-----	-----	-----



A	B	C _{-0.02}	D	E	F	G	M	S	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
100	0 - 155	75	34	109	305	374	77	2,5	14	4 - 30	19,5
125	0 - 212	100	39	139	390	457	89	3	14	4 - 40	35,0
160	0 - 314	115	49	164	530	600	108	3	14	4 - 40	70,0

CW

80 890 ...
600
625
660

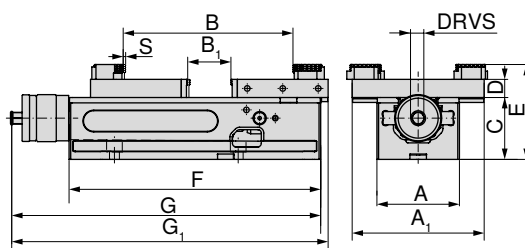
CoreLine – NC-quick clamping vice with adapter and pendulum jaws – NCG

- ▲ fast 160° lever clamping
- ▲ rapid installation and removal of the spindle assembly
- ▲ S = powerstroke
- ▲ simple raw part clamping
- ▲ free positioning of the 6-face reversible jaw which can be found in the accessories

Scope of supply:

NC-quick vice (type NCG base body) with 1 fixed adapter plate and 1 pendulum jaw, clamping lever, 4 clamping claws, without 6-face indexable jaws

NCG	MNG	PNG
-----	-----	-----



A	A ₁	B	B ₁	C _{-0.02}	D	E	F	G	G ₁	S	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
100	160	10 - 230	0 - 77	75	22	115	305	374	383	2,5	14	4 - 30	19
125	192	16 - 343	0 - 152	100	22	140	390	457	478	3	14	4 - 40	34
160	256	15 - 506	0 - 237	115	22	155	530	600	631	3	14	4 - 40	68

CW

80 890 ...
636
637
638

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

CoreLine – NC quick vice 5A with high support jaws – NCG 5A

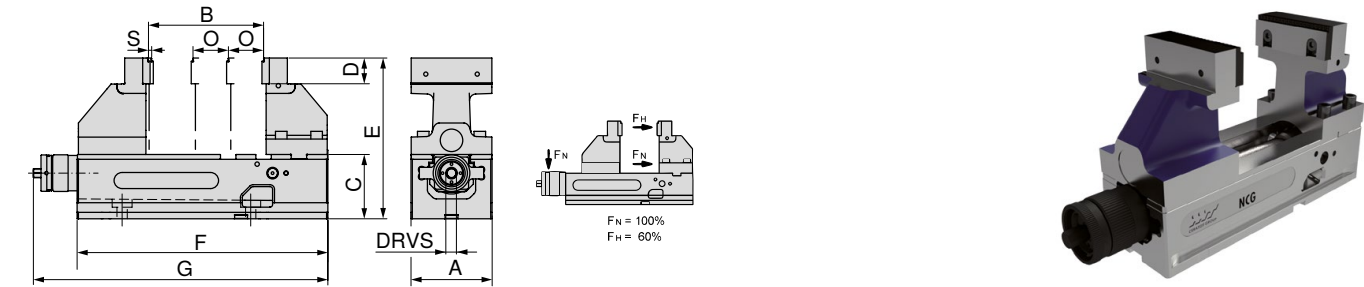
- ▲ Fast 160° handle clamping
- ▲ Rapid installation and removal of the spindle assembly
- ▲ S = powerstroke
- ▲ Ideally suited to 5-axis machining due to optimum accessibility
- ▲ Reversible jaws for clamping range extension
- ▲ 100 mm base body has 2 slots for moving the fixed jaw
- ▲ 125 mm base body has 3 slots for moving the fixed jaw

Scope of supply:
NC quick clamping vice incl. 2 high base jaws, 2 'grip' stepped jaws 5 mm, 1 clamping lever, 4 clamping claws

NCG
5A

MNG

PNG



A	B	C	D	E	F	G	O	S	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	6 - 179	100	40	250	390	457	55	3	14	4 - 24 (40)	42

CW

80 890 ...

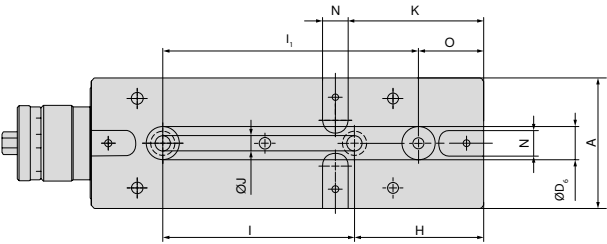
635

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

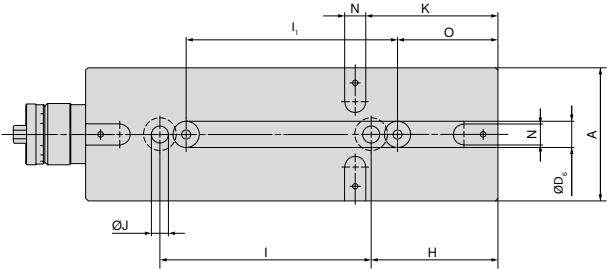
NCG underside dimensions

Base width 100 mm



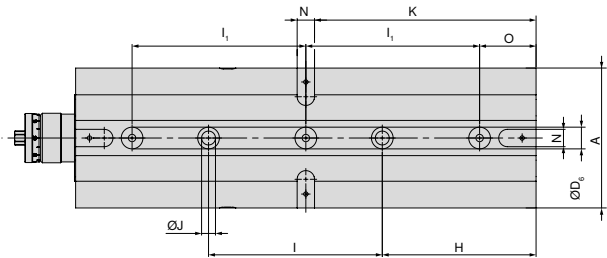
A	H	I	J	K	N	O	I ₁	D ₆
mm	mm	mm	mm	mm	mm	mm	mm	mm
100	100	150	12	105	20	50	200	25

Base width 125 mm



A	H	I	J	K	N	O	I ₁	D ₆
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	120	200	16	125	20	95	200	25

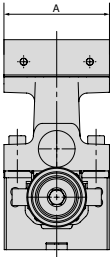
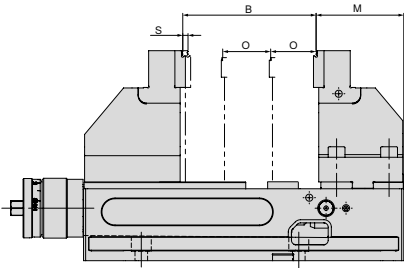
Base width 160 mm



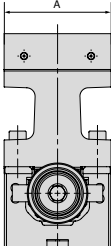
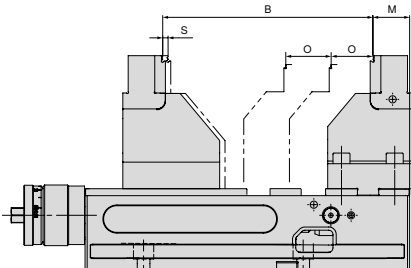
A	H	I	J	K	N	O	I ₁	D ₆
mm	mm	mm	mm	mm	mm	mm	mm	mm
160	177	200	16	255	20	65	200	25

NCG 5A structural dimension table for different jaw positions

NCG 5A 125 mm



A	B	M	O	S
mm	mm	mm	mm	mm
125	6 - 182	91	55	3



A	B	M	O	S
mm	mm	mm	mm	mm
125	117 - 269	36	55	3

[illegible]

[illegible]

5A carrier jaw, fixed

-

●	●	NCG
		H5G / -S / -Z
		X5G-Z / -S
		ESG 4
		ESG 5
		HDG 2
		ZSG 4
		ZSG mini
		DSG 4
		Verso
		HSG

Technical drawing of a 1000V 1P+N terminal block. The drawing shows a side view with dimensions: A (width of the top terminal), E (height of the terminal block), and A (width of the base). The drawing is labeled '1000V 1P+N'.

	●	●	NCG
			H5G / -S / -Z
			X5G-Z / -S
			ESG 4
			ESG 5
			HDG 2
			ZSG 4
			ZSG mini
			DSG 4
			Verso
			HSG

[illegible][illegible]

6 function indexable jaw

-

80892246	●	NCG	●	H5G / -S / -Z	●	X5G-Z / -S	●	ESG 4	●	ESG 5	●	HDG 2	●	ZSG 4	●	ZSG mini	●	DSG 4	●	Verso	●	HSG
CU																						

Technical drawing of a square nut. The left view is a perspective drawing showing a square nut with a central hole. A dimension line indicates the height of the nut is D . The text "DRVS 10" is written next to the nut. The right view is a 3D perspective drawing of the same nut, showing its square shape and central hole.

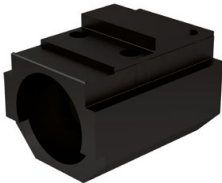
CW		NCG	H5G / S / Z	X5G / Z / S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	8089035300	●	●	●	●			●		●	●	

System accessories overview

Spindle body

▲ For the conversion of the NCG 5AC into an NCG vice

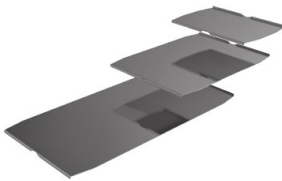
- NCG
- NCG 5A



for width mm	CW
100	80 890 ... 385
125	387
160	389

Cover plate set

- NCG
- NCG 5AC



for width mm	CW
100	80 890 ... 442
125	443
160	444

System accessories overview

Carrying handle

▲ for simple and safe transporting

Scope of supply:
1 piece Hand grip including fixing bolts

- NCG
- NCG
5AC



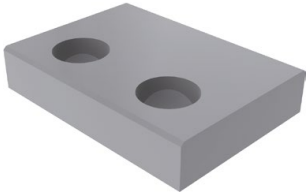
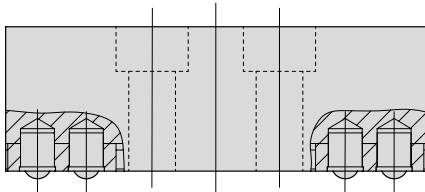
for width
mm
100/125

CW
80 890 ...
685

Protection plate

▲ For standard moving and combi reversible jaw

- NCG



for width
mm
100
125
160

CW
80 890 ...
010
012
013

System accessories overview

Spring Loaded Locator

NCG



for width mm	CW
100/125	80 890 ...
160	008 014

Clamping lever

▲ including control accessories

NCG

NCG 5A

H5G



for width mm	DRVS mm	CW
100/125/160	14	80 890 ...
		501

System accessories overview

High-speed operation device

▲ For faster span adjustment with removable grip

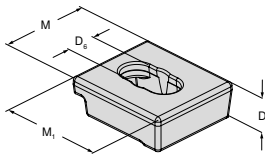
- NCG
- NCG
5AC



for width mm		CW
100		80 890 ...
125/160		550
		551

Clamping claws

▲ Price for 2 pieces



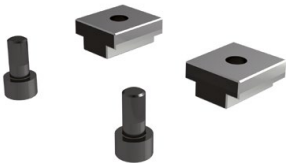
D mm	D ₆ mm	M mm	M ₁ mm	CW
20	16	50	57	80 890 ...
				315

System accessories overview

Tenon incl. screw

▲ Price per 2 pieces

- NCG
- H5G
- H5G-S
- ESG4
- HDG2
- DSG4
- DSG
- X5G-Z



for width		CW
mm		80 898 ...
12		412
14		414
16		416
18		418

Clamping screw and T-Nuts

▲ For mounting the clamping claw
▲ Price per 2 pieces

Scope of supply:
Incl. washers

- NCG
- H5G
- ESG4
- HDG2
- ZSG4
- DSG4
- Verso



for slot width		G	CW
mm			80 890 ...
12		M10	308
14		M12	309
16		M14	310
18		M16	311

System accessories overview

Dowel screws

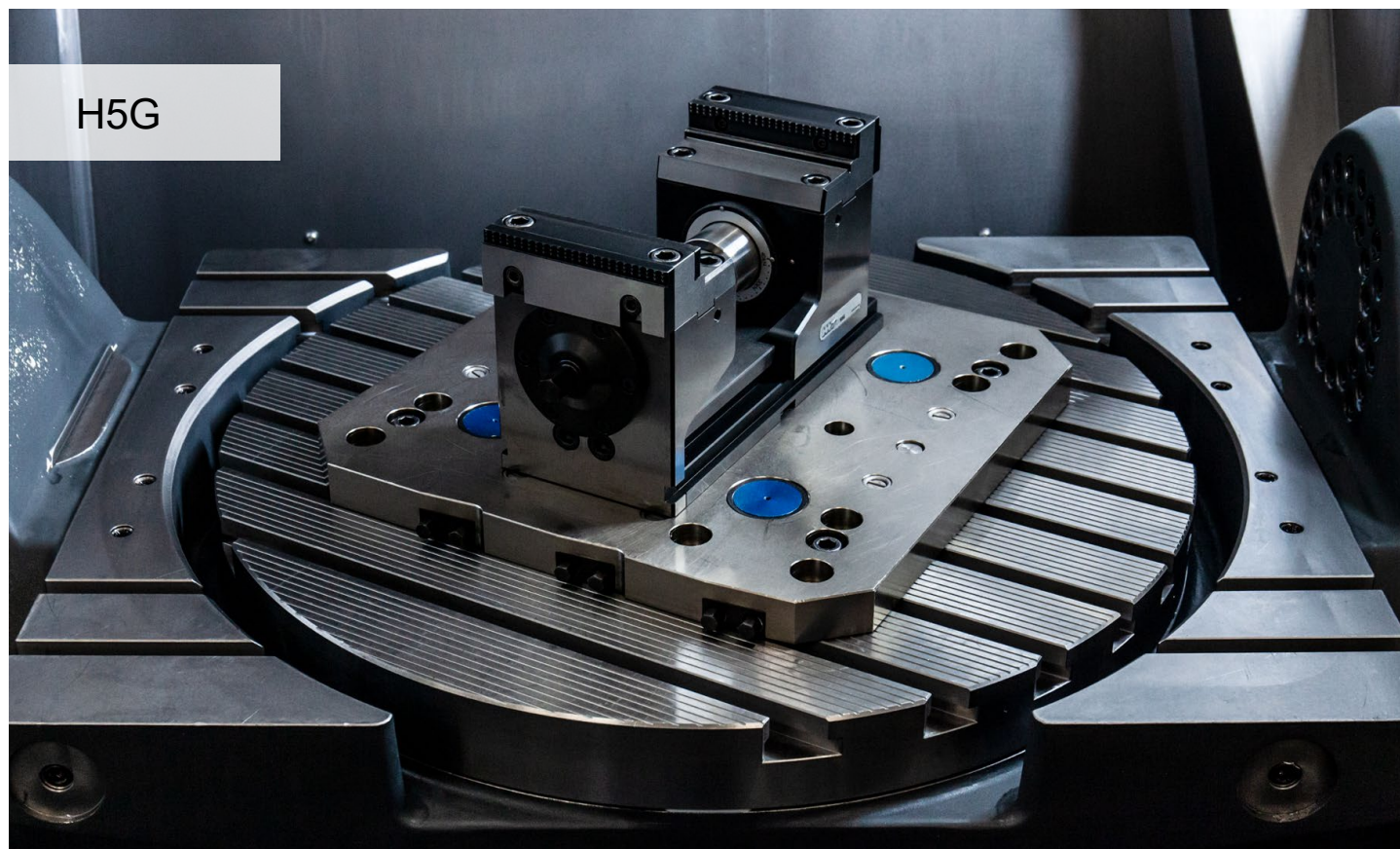
▲ Price for 2 pieces

- NCG
- ESG
4



for width mm	G	J mm
100	M12x38	12
125 / 160	M16x55	16

CW
80 890 ...
313
314



5-axis-optimised clamping system

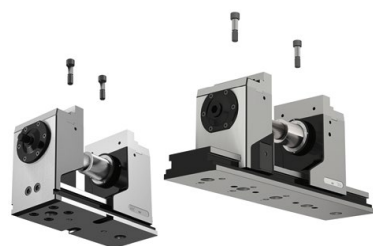
The power-assisted clamping system for 'real' 5-axis complete and simultaneous machining. 1 and 2-sided machining with clamping under tension and 40 kN directly on the workpiece.

Your benefits:

- ▲ Quick conversion – adjustment of entire clamping range in just a few seconds
- ▲ Quick positioning with MNG on the machine table without an intermediate plate
- ▲ Clamping force can be continuously adjusted 4 – 40 kN
- ▲ 160° quick clamping
- ▲ Rotate jaws – quick and easy jaw change with 4 screws
- ▲ Easy cleaning, spindle fully protected
- ▲ Extensive modular jaw range



Clamping/aligning:



Clamping with two dowel screws dia. 12₁₇ / M12 **Article no. 80 895 019**



Alignment through 20^{H7} precision slot nuts in the base body (H5G) and alignment sets 14 / 16 / 18 in the machine table's T-slot. Clamping with clamping claws.



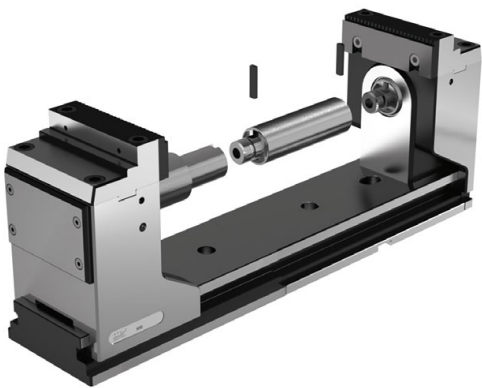
Alignment and clamping with MNG zero point clamping system (2-3 mounting bolts). **Optional:** Positioning and fixing holes at the customer's request.

Alignment of extension base body:



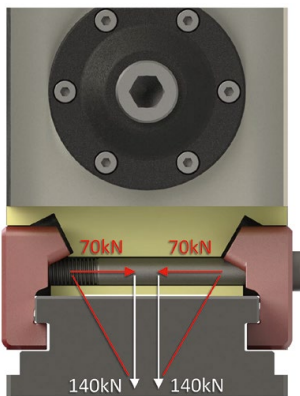
- ▲ Loosely mount the extension base body
- ▲ Distance to basic base body 0.2 – 10 mm
- ▲ Slide movable supporting jaw overlapping onto both base bodies
- ▲ Align the extension base body so it is parallel with the basic base body
- ▲ Secure the extension base body

Fitting the drawbar extension:



- ▲ Fit the extension base body (see alignment above)
- ▲ Screw the drawbar extension onto the spindle
- ▲ Insert the first anti-twist protection
- ▲ Slide the movable supporting jaw onto the extension base body
- ▲ Connect the extended drawbar to the fixed supporting jaw
- ▲ Insert the second anti-twist protection

Movable fixed jaw functional principle:



In the case of the H5G-Z and H5G-Z-S, both supporting jaws can be moved as desired. The movable fixed jaw can be clamped on any position on the base body via 1 or 2 screws (1 = H5G-Z / 2 = H5G-Z-S) (tighten screw with 90 Nm). The clamping force of the fixed jaw is almost identical to that of the H5G which is secured with four screws.

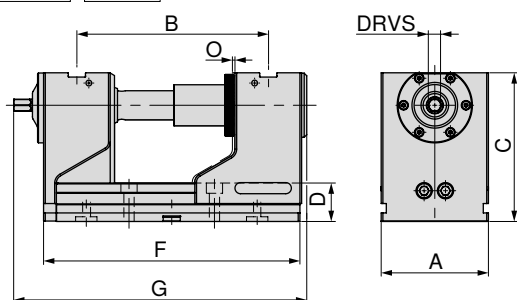
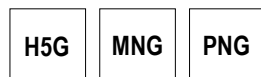
Double-acting screw = double the force
 angled surfaces = double the force

CoreLine – 5-axis vice with quick adjustment – H5G

- ▲ Crank handle quick clamping
- ▲ Vice with quick span adjustment
- ▲ 100 % encapsulated
- ▲ Vice with longitudinal and transverse grooves 20 H7 and alignment holes Ø 12 F7

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench

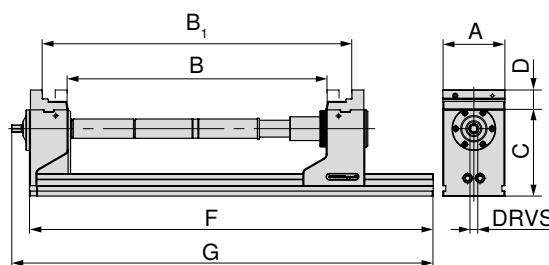
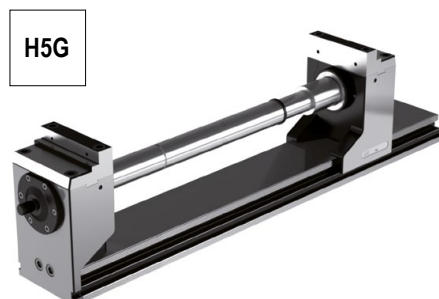


A	B	C	D	F	G	O	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	97 - 223	174	45	300	336,5	1	14	40	30,2

CW

80 898 ...
125

5 axis high power vice



A	C	D	F	G	DRVS	Clamping force
mm	mm	mm	mm	mm	mm	kN
125	174	40	815	851	14	40

B	B _i	Article no.						
0 – 126	123 – 251	80898125						
125 – 252	248 – 374	80898125	+	80898826	+	80898725		
250 – 376	372 – 499	80898125	+	80898827	+	80898725		
375 – 501	498 – 624	80898125	+	80898826	+	80898827	+	80898725
500 – 626	622 – 749	80898125	+	2 x	80898827	+	80898725	



The H5G 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10% loss of clamping force. Base plate available in long version with the desired hole pattern **on request**.

Vice guide

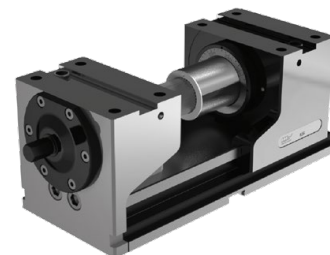
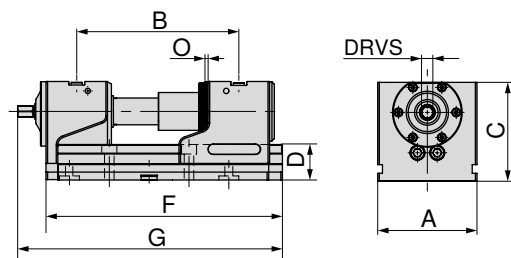
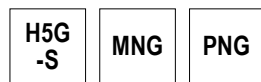
- Underside Dimensions
- Structural dimension tables for the different jaws
- System jaws
- System accessories
- MNG-/PNG zero point clamping system
- General top jaws
- Workpiece location
- General accessories
- Clamping lever
- Screws

CoreLine – 5-Axis vice with quick adjustment – H5G-S

- ▲ Crank handle quick clamping
- ▲ Vice with quick span adjustment
- ▲ 100 % encapsulated
- ▲ Length F = 300 mm with Ø 25 H7 centering
- ▲ Length F = 265 mm with Ø 32 H6
- ▲ Vice with longitudinal and transverse grooves 20 H7 and alignment holes Ø 12 F7

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench



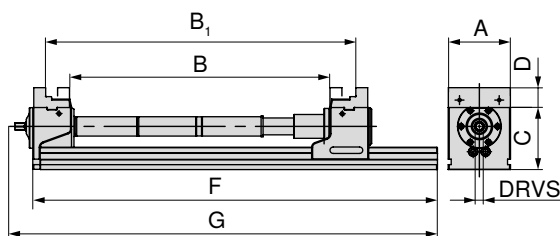
A mm	B mm	C mm	D mm	F mm	G mm	O mm	DRVS mm	MXC kN	WT kg
125	97 - 186	125	45	265	301,5	1	14	40	21,0
125	97 - 223	125	45	300	336,5	1	14	40	22,6

CW

80 898 ...
123
124

5 axis high power vice

H5G
-S



A mm	C mm	D mm	F mm	G mm	DRVS mm	Clamping force kN
125	125	40	815	851	14	40

B	B ₁	Article no.			
0 – 126	123 – 250	80898124			
125 – 251	248 – 374	80898124	+	80898826	+ 80898725
250 – 376	372 – 499	80898124	+	80898827	+ 80898725
375 – 501	498 – 624	80898124	+	80898826	+ 80898827 + 80898725
500 – 626	622 – 749	80898124	+ 2 x	80898827	+ 80898725



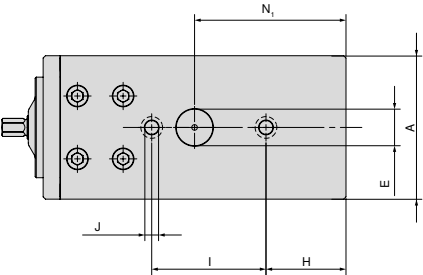
The H5G-S 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10% loss of clamping force. Base plate available in long version with the desired hole pattern **on request**.

Vice guide

- Underside Dimensions
- Structural dimension tables for the different jaws
- System jaws
- System accessories
- MNG-/PNG zero point clamping system
- General top jaws
- Workpiece location
- General accessories
- Clamping lever
- Screws

H5G underside dimensions

Base width 125 mm and 265 mm length

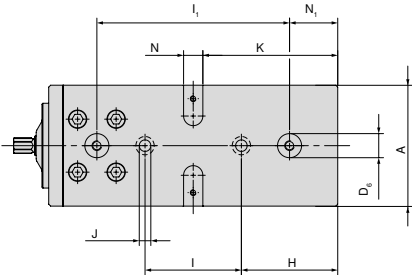


A	E _{H6}	H	I _{±0,015}	J _{F7}	N ₁
mm	mm	mm	mm	mm	mm
125	32	70	100	12	132,5



H5G with 265 mm length is not compatible with MNG

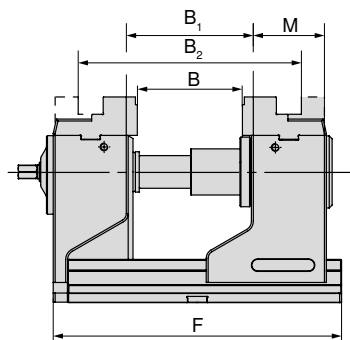
Base width 125 mm and length 300 mm



A	D ₆ _{H7}	H	I _{±0,015}	J _{F7}	K	N _{H7}	I ₁ _{±0,015}	N ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	25	100	100	12	140	20	200	50

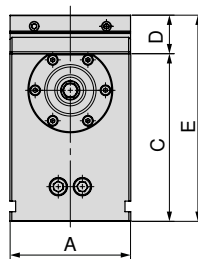
H5G/H5G-S – Structural dimension table for the different jaws

With combi jaws



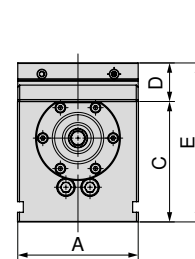
F mm	B mm	B ₁ mm	B ₂ mm	M mm	Article no. System jaws
265	0 - 89	22 - 112	123 - 212	76	80898225
300	0 - 126	22 - 149	123 - 249	76	80898225

H5G



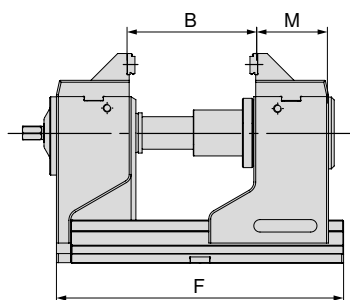
A mm	C mm	D mm	E mm
-	-	-	-
125	174	40	214

H5G-S



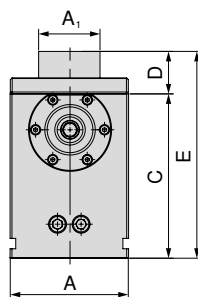
A mm	C mm	D mm	E mm
125	125	40	165
125	125	40	165

With 5A top jaws, jaw width 65 mm



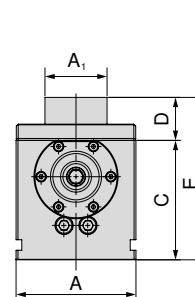
F mm	B mm	M mm	Article no. System jaws
265	16 - 105	79,5	80898325
300	16 - 142	79,5	80898325

H5G



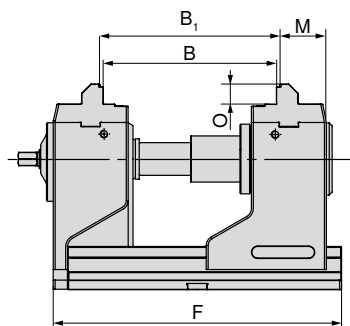
A mm	A ₁ mm	C mm	D mm	E mm
-	-	-	-	-
125	65	174	45	219

H5G-S



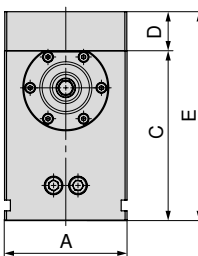
A mm	A ₁ mm	C mm	D mm	E mm
125	65	125	45	170
125	65	125	45	170

With 5A top jaws, jaw width 125 mm



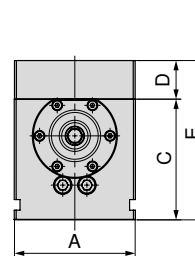
F mm	B mm	B ₁ mm	O mm	M mm	Article no. System jaws
265	74 - 162	80 - 168	21	49	80907300
300	74 - 199	80 - 205	21	49	80907300

H5G



A mm	C mm	D mm	E mm
-	-	-	-
125	174	40	214

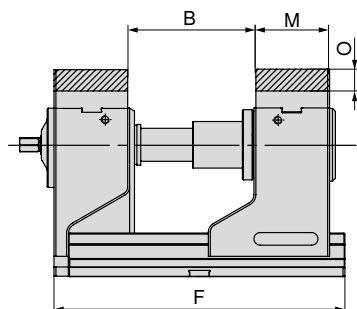
H5G-S



A mm	C mm	D mm	E mm
125	125	40	165
125	125	40	165

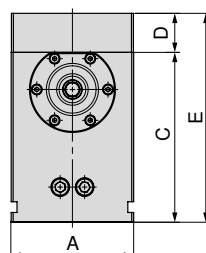
H5G/H5G-S – Structural dimension table for the different jaws

With indexable jaws, grip 3 mm



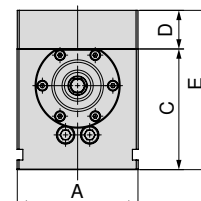
F mm	B mm	O mm	M mm	Article no. System jaws
265	23 - 112	22	76	80898625
300	23 - 149	22	76	80898625

H5G



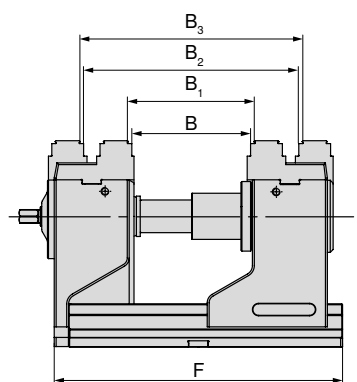
A mm	C mm	D mm	E mm
-	-	-	-
125	174	40	214

H5G-S



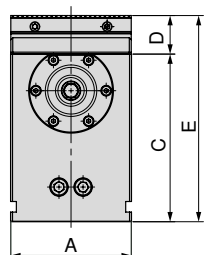
A mm	C mm	D mm	E mm
125	125	40	165
125	125	40	165

With indexable jaws, grip 3 mm



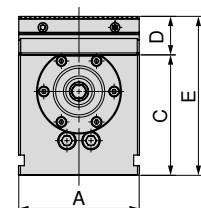
F mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	Article no. System jaws
265	17 - 106	23 - 112	117 - 206	123 - 212	8089835000
300	17 - 140	23 - 146	117 - 240	123 - 246	8089835000

H5G



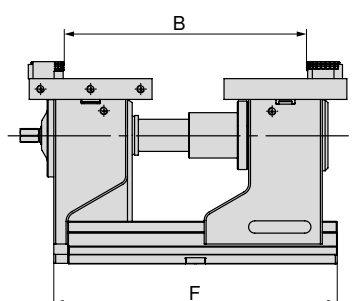
A mm	C mm	D mm	E mm
-	-	-	-
125	174	40	214

H5G-S



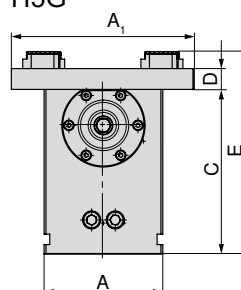
A mm	C mm	D mm	E mm
125	125	40	165
125	125	40	165

With pendulum and adapter plate



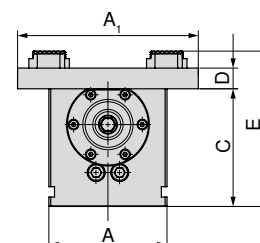
F mm	B mm	Article no. System jaws
265	17 - 236	80898525 + 80898425
300	17 - 274	80898525 + 80898425

H5G



A mm	A ₁ mm	C mm	D mm	E mm
-	-	-	-	-
125	192	174	22	214

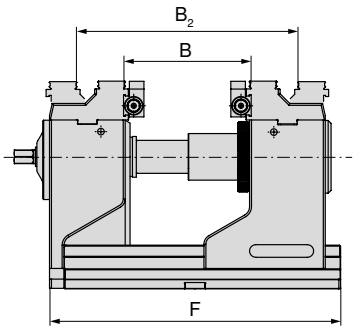
H5G-S



A mm	A ₁ mm	C mm	D mm	E mm
125	192	125	22	165
125	192	125	22	165

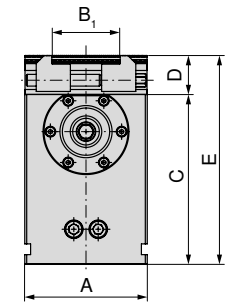
H5G/H5G-S – Structural dimension table for the different jaws

With 6-face jaw system



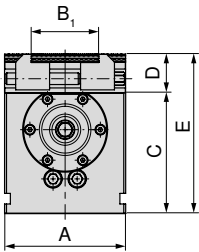
F	B	B ₂	O	M	Article no.
mm	mm	mm	mm	mm	System jaws
265	39-115	119-191	22	76	80898230
300	39-152	119-228	22	76	80898230

H5G



A	B ₁	C	D	E
mm	mm	mm	mm	mm
-	-	-	-	-
125	37-101	174	40	214

H5G-S



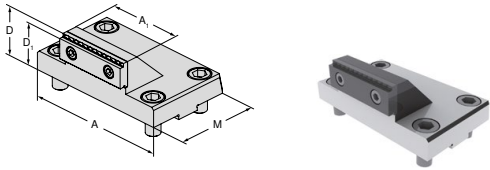
A	B ₁	C	D	E
mm	mm	mm	mm	mm
125	37-101	125	40	165
125	37-101	125	40	165

System jaws overview

5A stepped top jaw

- ▲ including 125/65 mm attachment and 3 mm grip step
- ▲ price per piece

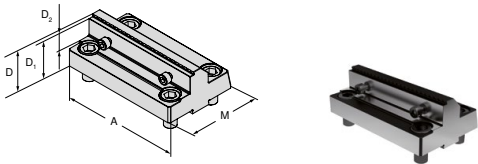
For vice width										CW												
A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	NCG		H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG		
125	125	65	45	42		76				80898325	●											



5A – Top jaw

- ▲ Improved accessibility through tapered rear section
- ▲ Price per piece

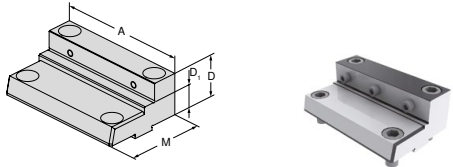
For vice width										CW										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	80907300																					
125	125	40	37	18		78																								



Combi reversable jaw

- ▲ to extend the clamping range
- ▲ Price per piece

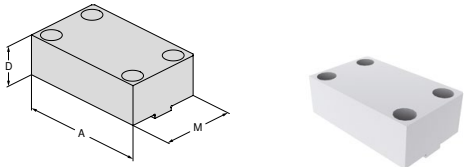
For vice width										CW										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂																							
125	125	40	22			76				80898225											●										



Soft Alu-jaw

- ▲ for producing shaped jaws
- ▲ Price per piece

										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
125	125		40				76															
80898625												●										



System jaws overview

Indexable jaw, grip 3 mm, 16 mm smooth step, on both sides

▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

125

125

40

37

24

82,5

CW

8089835000

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

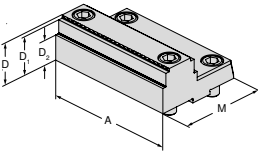
ZSG 4

ZSG mini

DSG 4

Verso

HSG



Pendulum jaw, movable

▲ to accommodate 6-way reversible jaws

▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

125

192

22

130

CW

80898525

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

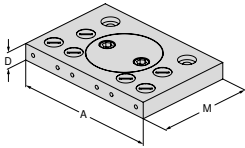
ZSG 4

ZSG mini

DSG 4

Verso

HSG



Adapter plate

▲ to accommodate 6-way reversible jaws

▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

125

192

22

130

CW

80898425

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

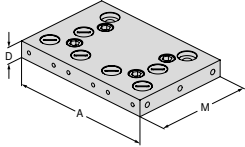
ZSG 4

ZSG mini

DSG 4

Verso

HSG



6 function indexable jaw

- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

18

CW

80892246

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

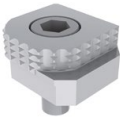
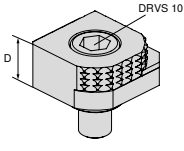
ZSG 4

ZSG mini

DSG 4

Verso

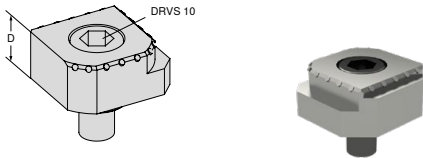
HSG



System jaws overview

6x indexable jaw, carbide grip

- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8 mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws

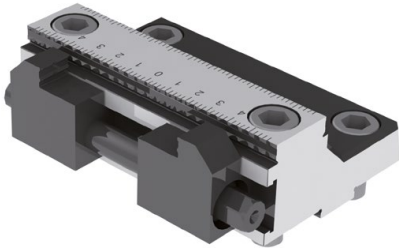
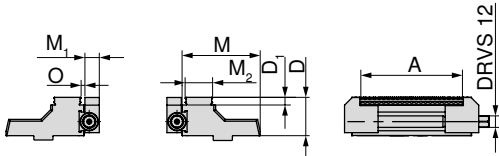


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
18									

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089035300	●	●	●	●			●		●	●	

6 face jaw system for 125 mm jaw width

Scope of supply:
2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws



for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	WT kg
125	37 - 101	40	8	81,5	15	28,7	3,2	4,5

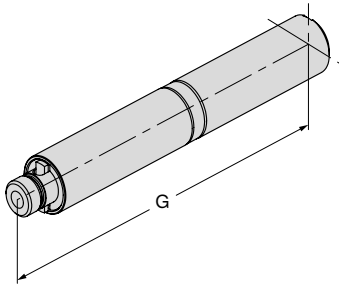
CW
80 898 ...
230

System accessories overview

Drawbar

▲ Incl. anti-rotation

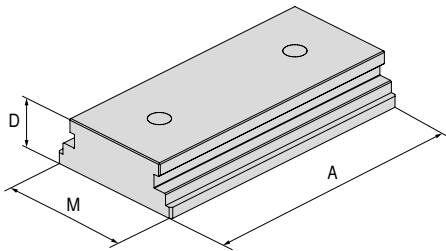
- H5G
- H5G-S



G		CW	
mm		80 898 ...	
125			826
250			827

Base plate to extend

- H5G



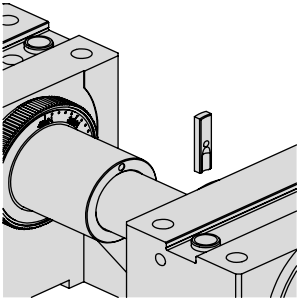
			CW	
A	D	M	80 898 ...	
mm	mm	mm		
250	45	125,5		725

System accessories overview

Anti-twist plate

H5G

H5G-S





CW

80 898 ...

024

Hand crank

▲ for fast adjustment

H5G



DRVS
mm
14

H5G-S
CW

80 898 ...

026

H5G
CW

80 898 ...

025

System accessories overview

Protection plugs

▲ Price per piece

H5G
-Z



D ₁ mm 19	CW 80 907 ... 501
----------------------------	-------------------------

Clamping lever

▲ including control accessories

NCG

NCG
5A

H5G

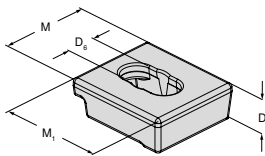


DRVS mm 14	CW 80 890 ... 501
------------------	-------------------------

System accessories overview

Clamping claws

▲ Price for 2 pieces



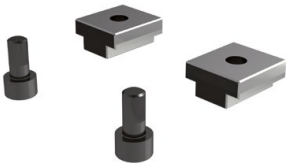
D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW
80 890 ...
315

Tenon incl. screw

▲ Price per 2 pieces

NCG	H5G	H5G-S	ESG 4	HDG 2	DSG 4	DSG	X5G-Z
-----	-----	-------	-------	-------	-------	-----	-------



for width mm
12
14
16
18

CW
80 898 ...
412
414
416
418

System accessories overview

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

NCG

H5G

ESG
4

HDG
2

ZSG
4

DSG
4

Verso



for slot width		G		CW	
mm				80 890 ...	
12		M10			308
14		M12			309
16		M14			310
18		M16			311

Dowel screw

- ▲ Price for 2 pieces

H5G

ESG
4

ZSG
4

DSG
4

MNG

X5G
-Z



for width		G	J	CW	
mm			mm	80 895 ...	
125		M12x45	12		019

System accessories overview

Socket

▲ Suitable for 1/2" or 3/8" square drive

- H5G
-Z
- ESG
mini
- X5G
-Z



DRVS	AS
mm	80 877 ...
14	214

Clamping Handle with Joint

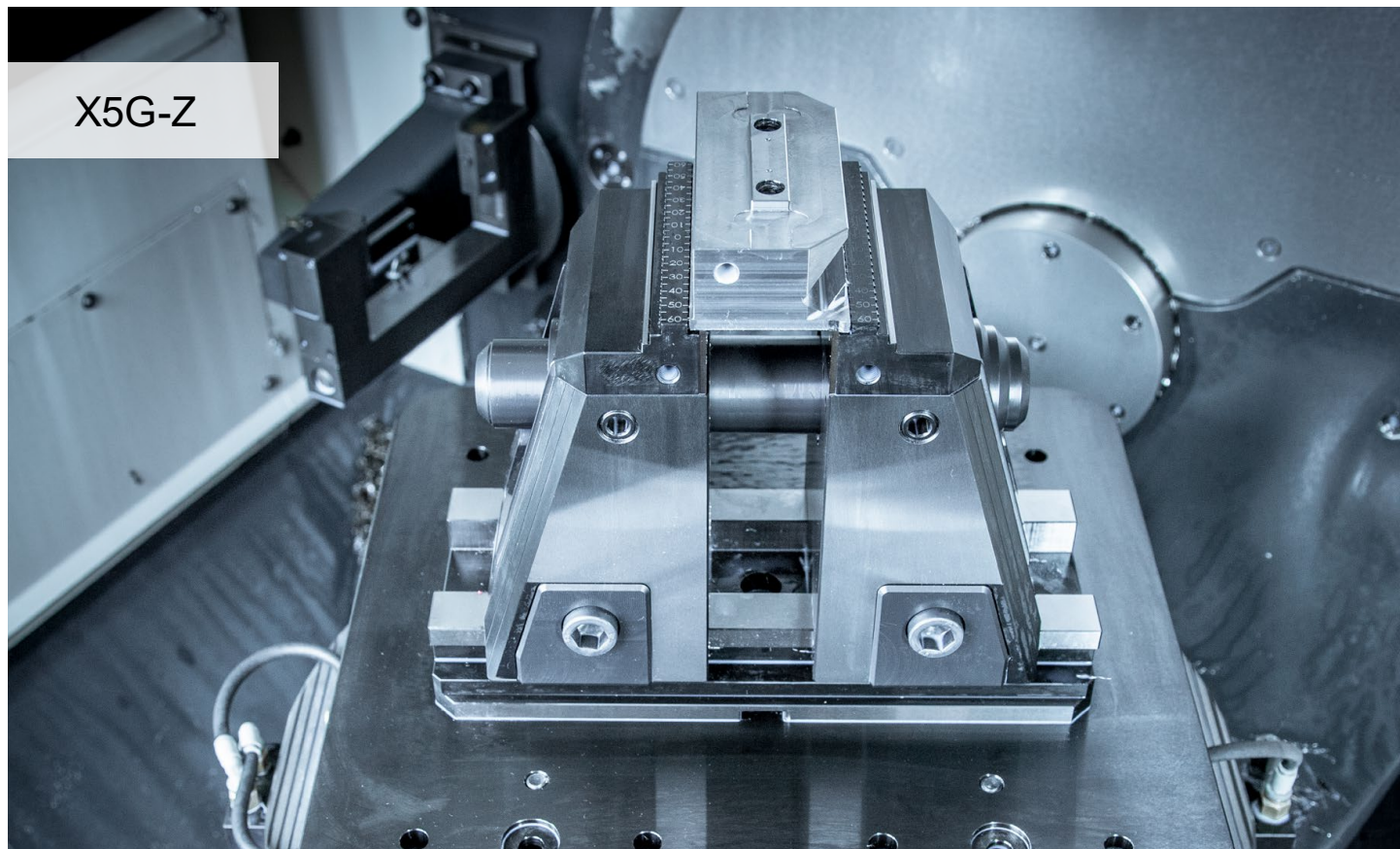
▲ without socket

- H5G
-Z
- H5G
-Z-S
- ESG
4
- ESG
mini
- ZSG
4



Square	CW
1/2"	80 891 ...
	600

X5G-Z



5-axis machining to perfection

Maximum ease of handling and integrated pull-down action for 6-sided machining. X5G-Z is the new 5-axis vice from CERATIZIT. All the advantages that ensure optimum and simple 5- and 6-sided machining combined in a single clamping device.

Your benefits:

- ▲ Either 5 and 6-axis machining thanks to clamping of one or both supporting jaws
- ▲ Fast jaw changeover without tools
- ▲ Optimum accessibility from all sides and large base clamping stroke of 130 mm
- ▲ Fully encapsulated, mechanical spindle
- ▲ Integrated, internal elastomer damping to minimise vibrations
- ▲ Extensive modular jaw range



Clamping/aligning:



Clamping with two dowel screws dia. 12_{H7} / M12 and clamping screws **Article no. 80 895 019**



Alignment through 20^{H7} precision slot nuts in the base body in the machine table's T-slot. Clamping with clamping claws.



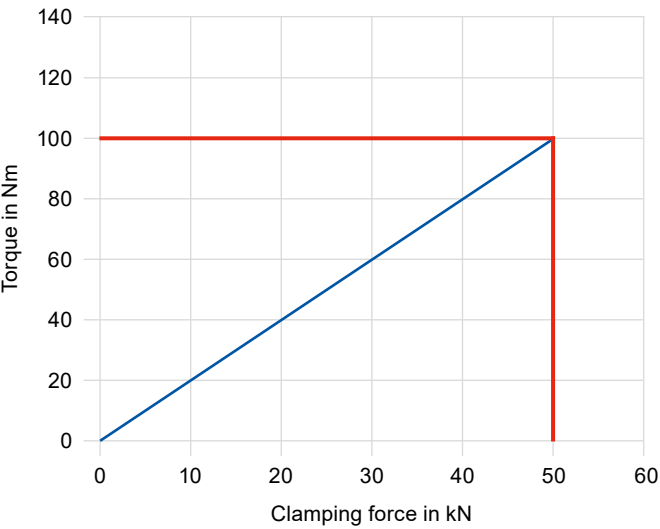
Alignment and clamping with MNG zero point clamping system (2-3 mounting bolts). **Optional:** Positioning and fixing holes at the customer's request.

Clamping force:

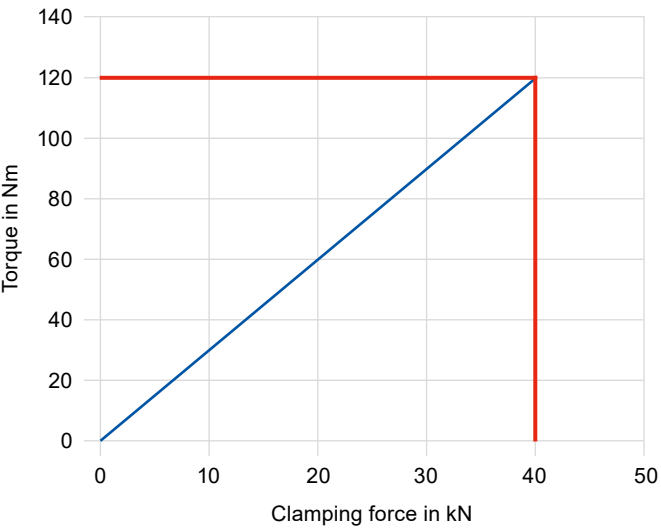
Size		Max. tightening torque in Nm	max. clamping force in kN
X5G-Z	Blank clamping	100	50
X5G-Z	Precision clamping	120	40
X5G-Z-S	Blank clamping	100	50
X5G-Z-S	Precision clamping	120	34

X5G-Z tightening torque/clamping force

Blank clamping

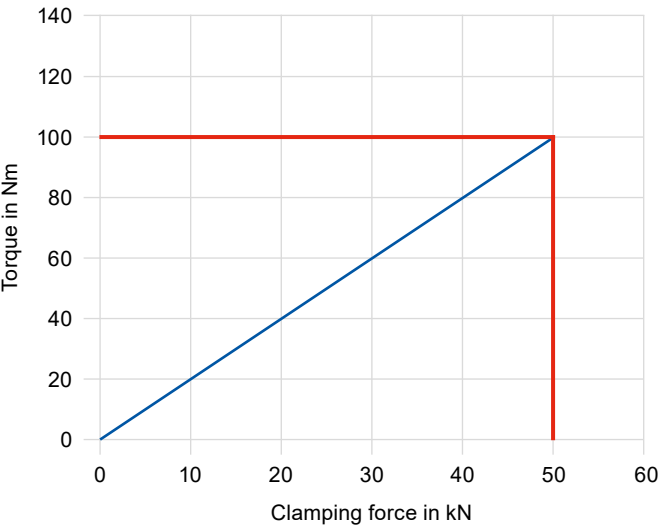


Precision clamping

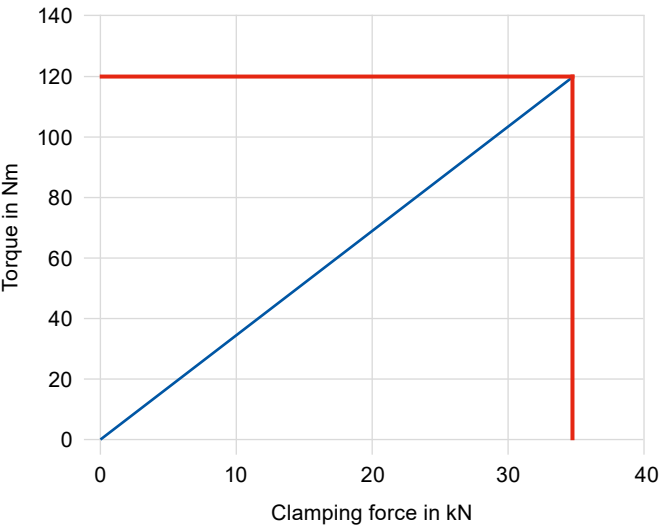


X5G-Z-S tightening torque/clamping force

Blank clamping



Precision clamping



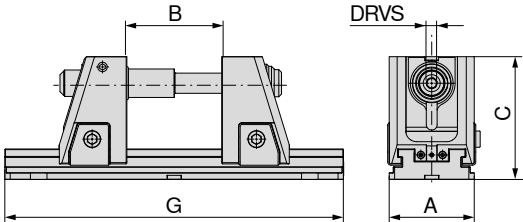
HyPower – Mechanical 5-axis vice with movable fixed jaws – X5G-Z

- ▲ Without system jaws
- ▲ Optimum accessibility
- ▲ 5- and 6-sided machining possible
- ▲ Fast jaw changeover
- ▲ Clamping on the machine table is possible with MNG/PNG, or directly through the base body

MNG

PNG

X5G-Z



A	B	C	G	DRVS	MXC	WT
mm	mm	mm	mm	mm	kN	kg
125	4 - 134	181	330	14	40	33,2
125	4 - 234	181	430	14	40	36,1
125	4 - 304	181	500	14	40	38,1
125	4 - 434	181	630	14	40	41,8
125	4 - 604	181	800	14	40	46,6

CW
80 908 ...
52500
52600
52700
52800
52900

Basic clamping stroke 130 mm

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

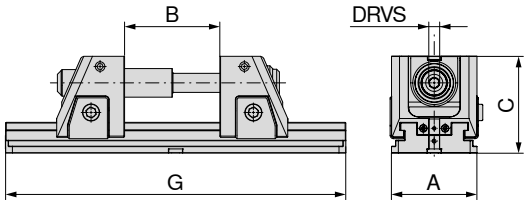
HyPower – Mechanical 5-axis vice with movable fixed jaws – X5G-Z-S

- ▲ Without system jaws
- ▲ Optimum accessibility
- ▲ 5- and 6-sided machining possible
- ▲ Fast jaw changeover
- ▲ Clamping on the machine table is possible with MNG/PNG, or directly through the base body

MNG

PNG

X5G
-Z-S



A mm	B mm	C mm	G mm	DRVS mm	MXC kN	WT kg
125	4 - 134	142	330	14	40	27,3
125	4 - 234	142	430	14	40	30,2
125	4 - 304	142	500	14	40	32,2
125	4 - 434	142	630	14	40	35,9
125	4 - 604	142	800	14	40	40,7

CW
80 908 ...
42500
42600
42700
42800
42900

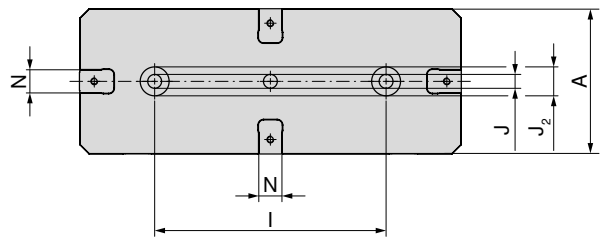
Basic clamping stroke 130 mm

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

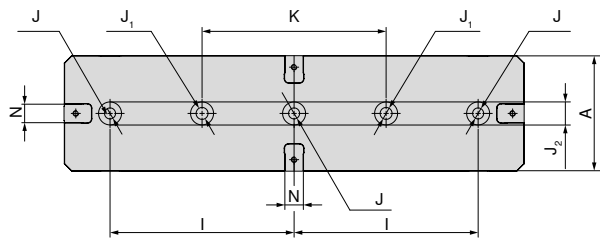
X5G-Z/-S underside dimensions

Base width 125 mm and 330 mm length



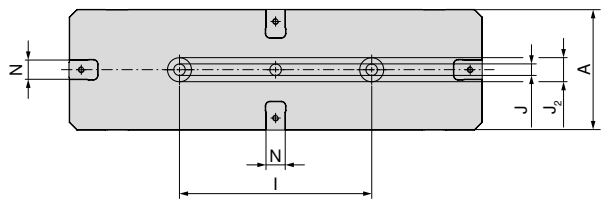
A	I	J	J ₂	N
mm	$\pm 0,02$ mm	H7 mm	H6 mm	H7 mm
125	200	12	25	20

Base width 125 mm and 630 mm length



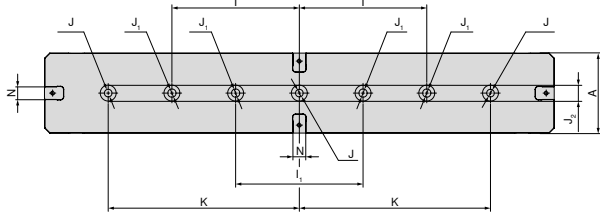
A	I	J	J ₁	J ₂	K	N
mm	$\pm 0,02$ mm	H7 mm	mm	H6 mm	$\pm 0,02$ mm	H7 mm
125	200	12	13	25	200	20

Base width 125 mm and 430 mm length



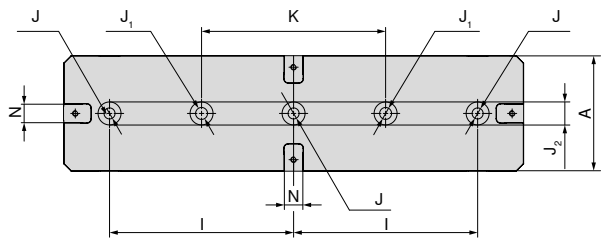
A	I	J	J ₂	N
mm	$\pm 0,02$ mm	H7 mm	H6 mm	H7 mm
125	200	12	25	20

Base width 125 mm and 800 mm length



A	I	I ₁	J	J ₁	J ₂	K	N
mm	$\pm 0,02$ mm	$\pm 0,02$ mm	H7 mm	mm	H6 mm	$\pm 0,02$ mm	H7 mm
125	200	200	12	13	25	300	20

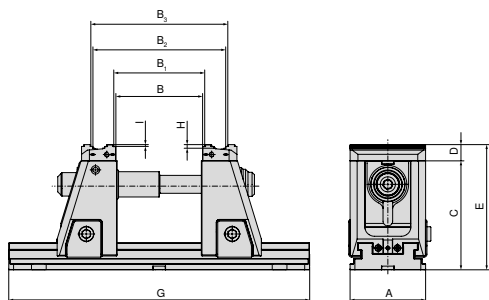
Base width 125 mm and 500 mm length



A	I	J	J ₁	J ₂
mm	$\pm 0,02$ mm	H7 mm	mm	H6 mm
125	200	12	13	25

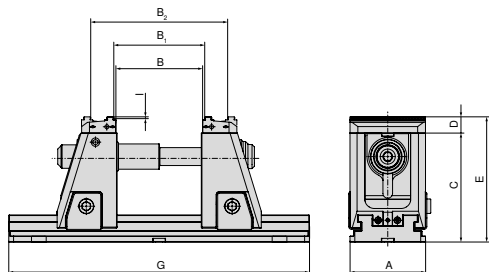
X5G-Z/-S structural dimension table for the different jaws

With indexable jaws, grip 3 mm



Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	B ₁	B ₂	B ₃	C	D	E	G	H	I
8090852500					125	5-134	12-141	80-210	88-217	181	27	208	330	6	3
8090842500					125	5-134	12-141	80-210	88-217	142	27	169	330	6	3
8090852600	1 x				125	5-234	12-241	80-310	88-317	181	27	208	430	6	3
8090842600	1 x				125	5-234	12-241	80-310	88-317	142	27	169	430	6	3
8090852700	1 x	1 x			125	5-304	12-311	80-380	88-387	181	27	208	500	6	3
8090842700	1 x	1 x			125	5-304	12-311	80-380	88-387	142	27	169	500	6	3
8090852800	1 x	1 x	1 x		125	5-434	12-441	80-510	88-517	181	27	208	630	6	3
8090842800	1 x	1 x	1 x		125	5-434	12-441	80-510	88-517	142	27	169	630	6	3
8090852900	1 x	1 x	1 x	1 x	125	5-604	12-611	80-680	88-687	181	27	208	800	6	3
8090842900	1 x	1 x	1 x	1 x	125	5-604	12-611	80-680	88-687	142	27	169	800	6	3

With indexable jaws, grip 5 mm



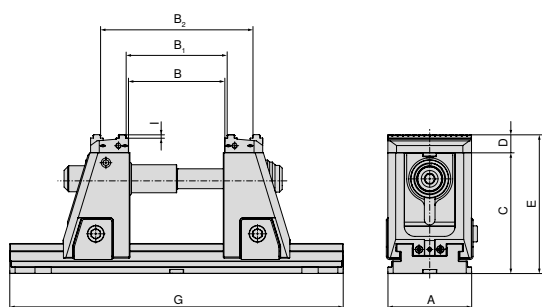
Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	B ₁	B ₂	C	D	E	G	I
8090852500					125	5-134	12-141	88-217	181	27	208	330	5
8090842500					125	5-134	12-141	88-217	142	27	169	330	5
8090852600	1 x				125	5-234	12-241	88-317	181	27	208	430	5
8090842600	1 x				125	5-234	12-241	88-317	142	27	169	430	5
8090852700	1 x	1 x			125	5-304	12-311	88-387	181	27	208	500	5
8090842700	1 x	1 x			125	5-304	12-311	88-387	142	27	169	500	5
8090852800	1 x	1 x	1 x		125	5-434	12-441	88-517	181	27	208	630	5
8090842800	1 x	1 x	1 x		125	5-434	12-441	88-517	142	27	169	630	5
8090852900	1 x	1 x	1 x	1 x	125	5-604	12-611	88-687	181	27	208	800	5
8090842900	1 x	1 x	1 x	1 x	125	5-604	12-611	88-687	142	27	169	800	5



→ Here you will find the suitable drawbar extensions.

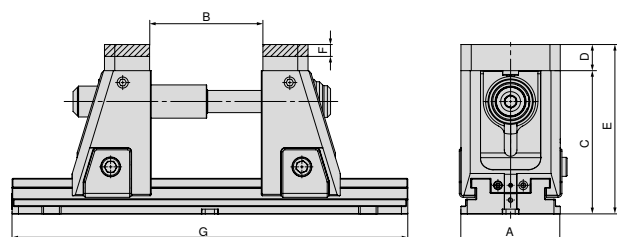
X5G-Z/-S structural dimension table for the different jaws

With stepped jaws, carbide grip 5 mm



Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	B ₁	B ₂	C	D	E	G	I
8090852500					125	5-134	12-141	88-217	181	27	208	330	5
8090842500					125	5-134	12-141	88-217	142	27	169	330	5
8090852600	1 x				125	5-234	12-241	88-317	181	27	208	430	5
8090842600	1 x				125	5-234	12-241	88-317	142	27	169	430	5
8090852700	1 x	1 x			125	5-304	12-311	88-387	181	27	208	500	5
8090842700	1 x	1 x			125	5-304	12-311	88-387	142	27	169	500	5
8090852800	1 x	1 x	1 x		125	5-434	12-441	88-517	181	27	208	630	5
8090842800	1 x	1 x	1 x		125	5-434	12-441	88-517	142	27	169	630	5
8090852900	1 x	1 x	1 x	1 x	125	5-604	12-611	88-687	181	27	208	800	5
8090842900	1 x	1 x	1 x	1 x	125	5-604	12-611	88-687	142	27	169	800	5

With soft jaws, steel



Article no.
System jaws

2 x 8090931200

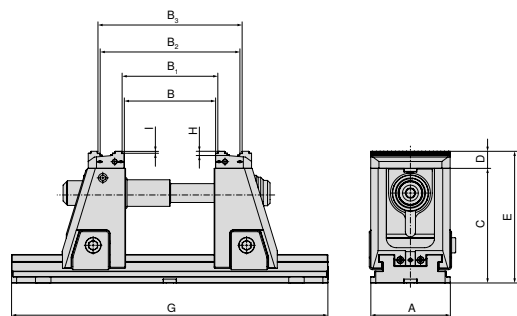
Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	C	D	E	F	G
8090852500					125	4-134	181	33	214	15	330
8090842500					125	4-134	142	33	175	15	330
8090852600	1 x				125	4-234	181	33	214	15	430
8090842600	1 x				125	4-234	142	33	175	15	430
8090852700	1 x	1 x			125	4-304	181	33	214	15	500
8090842700	1 x	1 x			125	4-304	142	33	175	15	500
8090852800	1 x	1 x	1 x		125	4-434	181	33	214	15	630
8090842800	1 x	1 x	1 x		125	4-434	142	33	175	15	630
8090852900	1 x	1 x	1 x	1 x	125	4-604	181	33	214	15	800
8090842900	1 x	1 x	1 x	1 x	125	4-604	142	33	175	15	800



→ Here you will find the suitable drawbar extensions.

X5G-Z/-S structural dimension table for the different jaws

With indexable jaws embossed profile

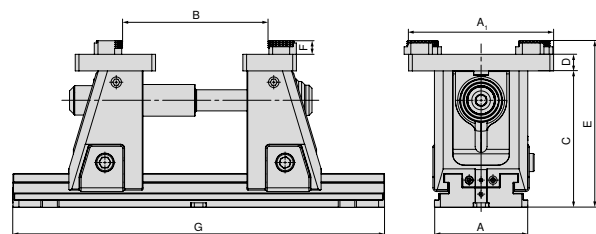


Article no.
System jaws

2 x 8090831200

Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	B ₁	B ₂	B ₃	C	D	E	G	H	I
8090852500					125	5-134	12-141	82-210	89-217	181	27	208	330	6	3
8090842500					125	5-134	12-141	82-210	89-217	142	27	169	330	6	3
8090852600	1 x				125	5-234	12-241	82-310	89-317	181	27	208	430	6	3
8090842600	1 x				125	5-234	12-241	82-310	89-317	142	27	169	430	6	3
8090852700	1 x	1 x			125	5-304	12-311	82-380	89-387	181	27	208	500	6	3
8090842700	1 x	1 x			125	5-304	12-311	82-380	89-387	142	27	169	500	6	3
8090852800	1 x	1 x	1 x		125	5-434	12-441	82-510	89-517	181	27	208	630	6	3
8090842800	1 x	1 x	1 x		125	5-434	12-441	82-510	89-517	142	27	169	630	6	3
8090852900	1 x	1 x	1 x	1 x	125	5-604	12-611	82-680	89-687	181	27	208	800	6	3
8090842900	1 x	1 x	1 x	1 x	125	5-604	12-611	82-680	89-687	142	27	169	800	6	3

With pendulum and adapter plate



Article no.
System jaws

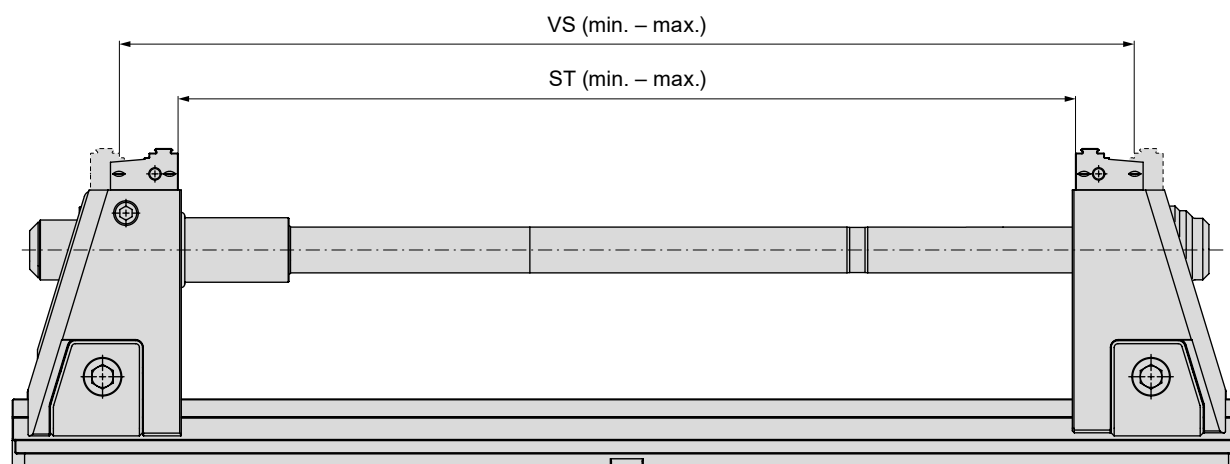
80 909 31500 + 80 909 31300

Type	Drawbar 430 mm 8090880000	Drawbar 500 mm 8090880100	Drawbar 630 mm 8090880200	Drawbar 800 mm 8090880300	A	B	C	D	E	F	G
8090852500					125	42-210	181	22	221	18	330
8090842500					125	42-210	142	22	182	18	330
8090852600	1 x				125	42-310	181	22	221	18	430
8090842600	1 x				125	42-310	142	22	182	18	430
8090852700	1 x	1 x			125	42-380	181	22	221	18	500
8090842700	1 x	1 x			125	42-380	142	22	182	18	500
8090852800	1 x	1 x	1 x		125	42-510	181	22	221	18	630
8090842800	1 x	1 x	1 x		125	42-510	142	22	182	18	630
8090852900	1 x	1 x	1 x	1 x	125	42-680	181	22	221	18	800
8090842900	1 x	1 x	1 x	1 x	125	42-680	142	22	182	18	800

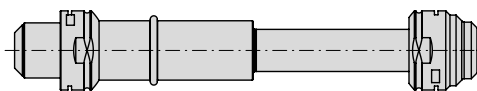


→ Here you will find the suitable drawbar extensions.

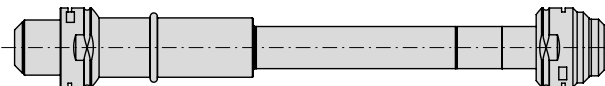
Clamping range depending on extension



ST (5 mm – 144 mm)
VS (82 mm – 220 mm)



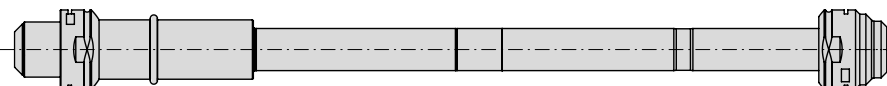
ST (94 mm – 235 mm)
VS (170 mm – 310 mm)



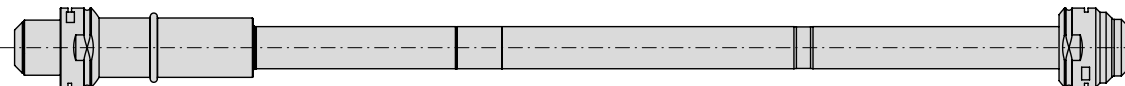
ST (164 mm – 304 mm)
VS (240 mm – 380 mm)



ST (294 mm – 434 mm)
VS (370 mm – 510 mm)



ST (464 mm – 604 mm)
VS (540 mm – 680 mm)



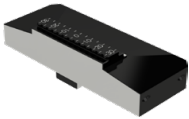
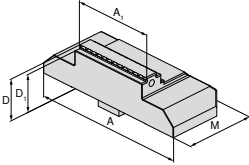
System jaws overview

Indexable grip jaw, 3 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125	40	27	24			57		
125	125	65	27	24			57		
125	125	80	27	24			57		
125	125	125	27	24			57		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090830300			●								
8090830200			●								
8090830100			●								
8090830000			●								

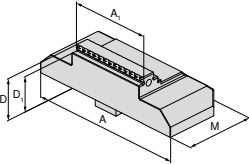


Indexable grip jaw, 5 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125	65	27	22			57		
125	125	80	27	22			57		
125	125	125	27	22			57		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090830600			●								
8090830500			●								
8090830400			●								

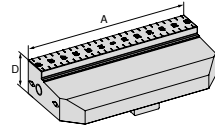


Indexable smooth jaw

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		27						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090831400			●								

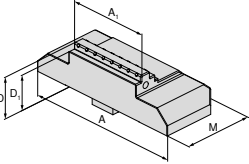


Stepped jaw, carbide grip 5 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125	80	27	22			57		
125	125	125	27	22			57		

	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090830900			●								
8090830800			●								

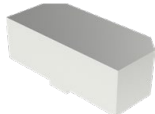
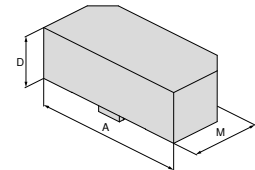


System jaws overview

Soft jaw, steel

- ▲ Material: 16MnCr5
- ▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		33				57		

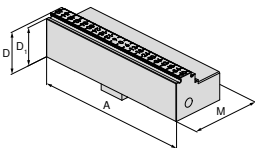


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090931200			●								

Indexable jaw embossed profile

- ▲ Price per piece
- ▲ suitable for LANG embossed profile

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		27	24			57		

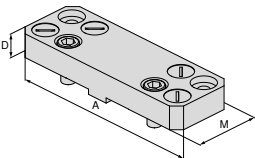


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090831200			●								

Adapter plate

- ▲ for holding 6-function indexable jaws
- ▲ Price per piece
- ▲ incl. cover screws

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	195		22				72		

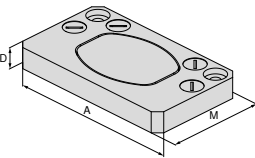


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090931500			●								

Floating jaw

- ▲ for holding 6-function indexable jaws
- ▲ Price per piece
- ▲ incl. cover screws

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	195		22				105		

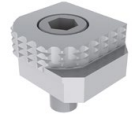
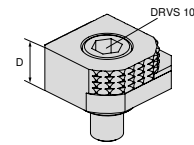


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090931300			●								

System jaws overview

6 function indexable jaw

- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ $M_{max} = 60 \text{ Nm}$
- ▲ Including fixation screws

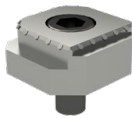
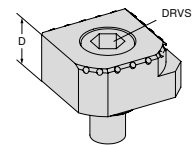


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892246	●	●	●	●			●		●	●	

6x indexable jaw, carbide grip

- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8 mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws

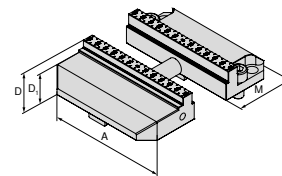


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089035300	●	●	●	●			●		●	●	

Precision jaw

- ▲ Price per set



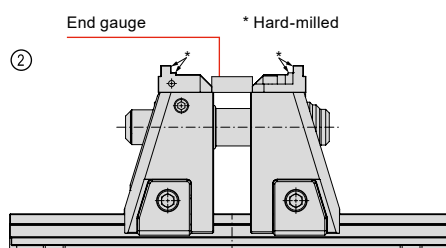
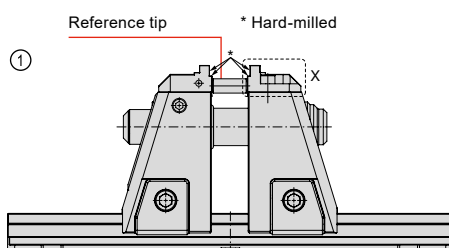
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		27	24			57		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090831300			●								

Procedure for hardened precision jaw set

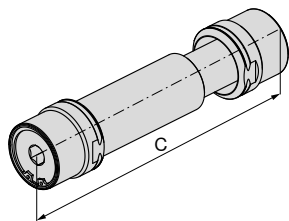
The X5G-Z impresses with its extreme accuracy. All the components have been ground or hard-milled to a high level of precision. Despite this, there are still applications whereby the precision requirements cannot be satisfied in full due to the tolerance chain of the indexable grip jaws. For these situations we offer a hardened precision jaw set (article no. **8090831300**) that can be hard-milled by the customer on the clamping flat (both sides).

Hard machining is carried out in the precision vice (both screws on the supporting jaws tightened to 140 Nm). The precision jaws must be hard-milled as per the views shown (1+2). The reference tip supplied is used for clamping in the standard position (1). An end gauge can be used for clamping in the increased clamping range position (2).



System accessories overview

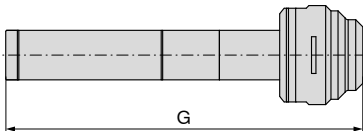
HyPower – Spindle unit – X5G-Z



C mm	WT kg
227,5	2,5

CW
80 908 ...
50100

HyPower – Drawbar – X5G-Z



for width mm	G mm
125	430
125	500
125	630
125	800

CW
80 908 ...
80000
80100
80200
80300

System accessories overview

Torque Wrench

▲ without socket

- ESG
4
- ESG
mini
- HDG
2
- ZSG
4
- ZSG
mini
- DSG
4



Square	TQX Nm	AS
1/2"	10 - 100	80 884 ...
		502

Hand crank

- ▲ Version with external hex
- ▲ For quick adjustment

- H5G
-Z
- X5G
-Z



for width mm	DRVS mm	CW
125	14	80 907 ...
		500

System accessories overview

Socket

▲ Suitable for 1/2" or 3/8" square drive

- H5G
-Z
- ESG
mini
- X5G
-Z



Square	DRVS mm
1/2"	14

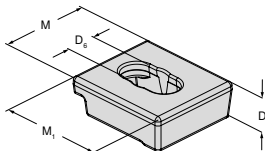
AS

80 877 ...

214

Clamping claws

▲ Price for 2 pieces



D mm	D ₆ mm	M mm	M ₁ mm
20	16	50	57

CW

80 890 ...

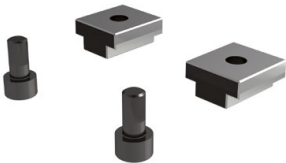
315

System accessories overview

Tenon incl. screw

▲ Price per 2 pieces

- NCG
- H5G
- H5G-S
- ESG4
- HDG2
- DSG4
- DSG
- X5G-Z



for width		CW
mm		80 898 ...
12		412
14		414
16		416
18		418

Clamping screw and T-Nuts

▲ For mounting the clamping claw
▲ Price per 2 pieces

Scope of supply:
Incl. washers

- NCG
- H5G
- ESG4
- HDG2
- ZSG4
- DSG4
- Verso



for slot width		G	CW
mm			80 890 ...
12		M10	308
14		M12	309
16		M14	310
18		M16	311

System accessories overview

Dowel screw

▲ Price for 2 pieces

- H5G
- ESG
4
- ZSG
4
- DSG
4
- MNG
- X5G
-Z



for width mm	G	J mm
125	M12x45	12

CW

80 895 ...

019

Clamping Handle with Joint

▲ without socket

- H5G
-Z
- H5G
-Z-S
- ESG
4
- ESG
mini
- ZSG
4



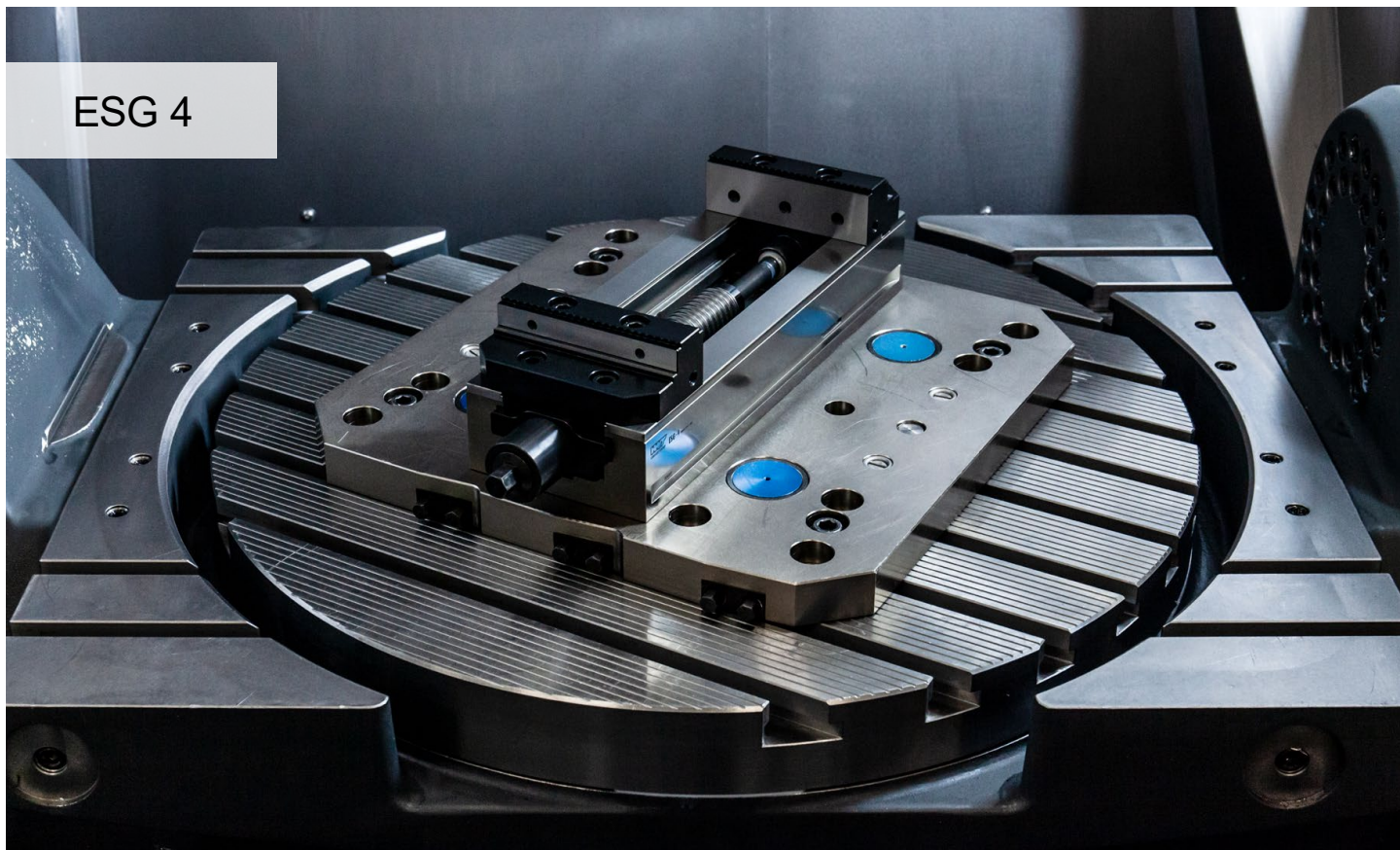
Square
1/2"

CW

80 891 ...

600

ESG 4



Highly-efficient all-rounder for machining unfinished and finished parts

The ESG 4 single vice impresses with fast handle clamping, quick setting of the clamping range, a flat design and low weight.

Your benefits:

- ▲ Several cooling lubricant flows for problem-free working and controlled outflow
- ▲ Quick and easy positioning on the MNG zero point clamping system
- ▲ High clamping force between 5 – 50 kN with low tightening torque
- ▲ Quick and easy jaw change with 2 screws
- ▲ Quick, simple disassembly of the spindle unit
- ▲ Extensive modular jaw range

Clamping/aligning:



ESG 4 – 80 mm = mounting with M8 screws through the base body
 ESG 4 – 125 mm / 160 mm = mounting with M12 screws and dowel screws through the base body



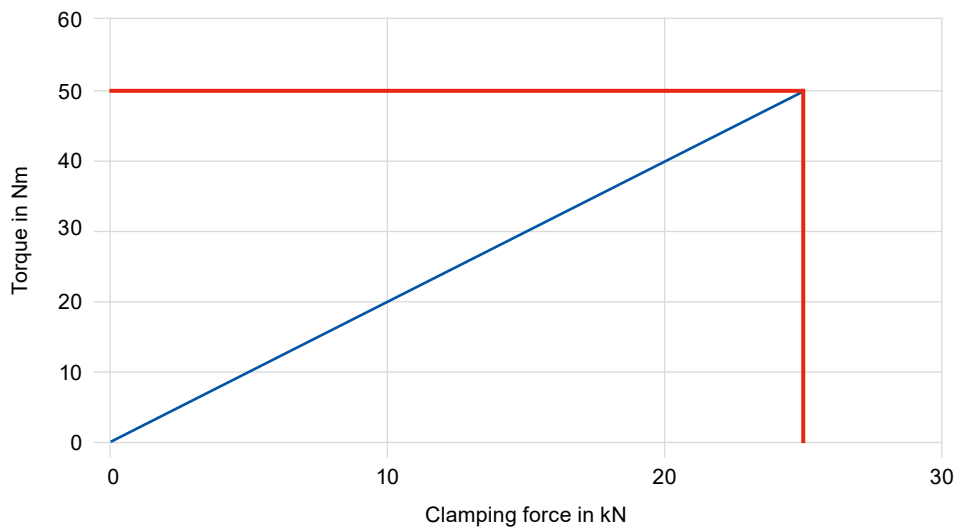
Mounting with 4 clamping claws **Article no. 80 890 315**



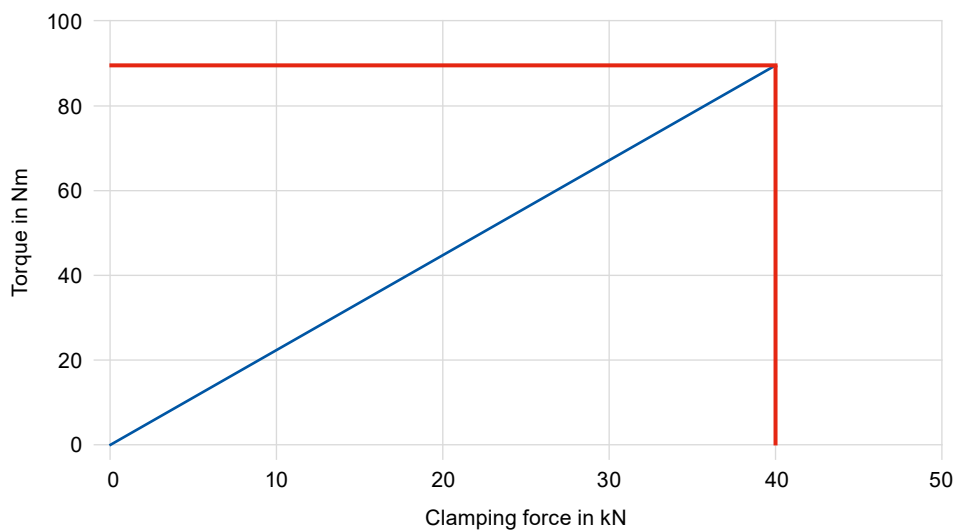
Mounting with zero point clamping systems
 ESG 4 – 80 mm = 1 mounting bolt + anti-twist protection
 ESG 4 – 125 / 160 mm = 2 mounting bolts, centre distance 200 mm

Clamping force:

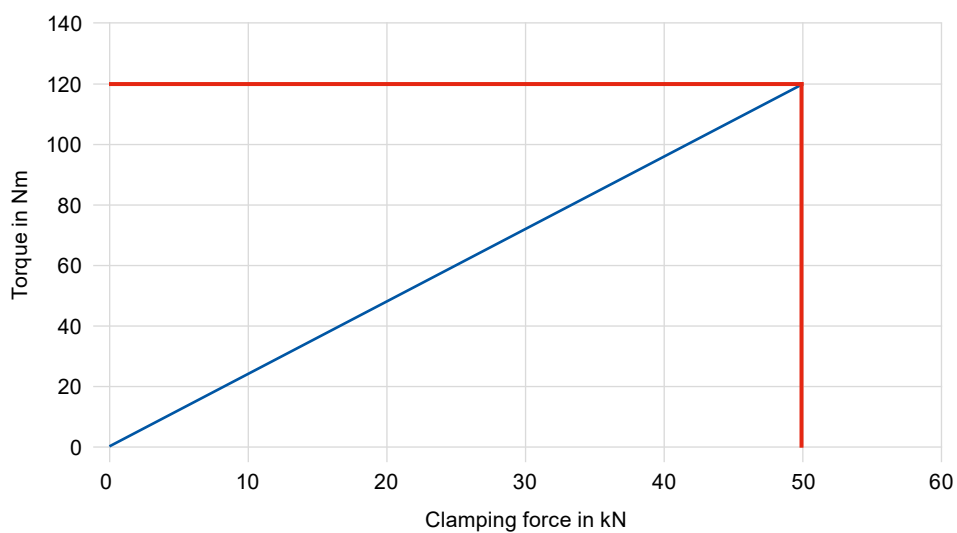
ESG 4 – 80 mm tightening torque / clamping force



ESG 4 – 125 mm tightening torque/clamping force



ESG 4 – 160 mm tightening torque / clamping force



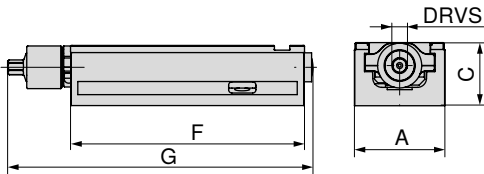
CoreLine – Single vice without system jaws – ESG 4

- ▲ Fast 160° handle clamping with torque key
- ▲ Rapid installation and removal of the spindle assembly
- ▲ ±0.01 mm repeatability (±0.015 mm when A = 160 mm)

ESG
4

MNG

PNG



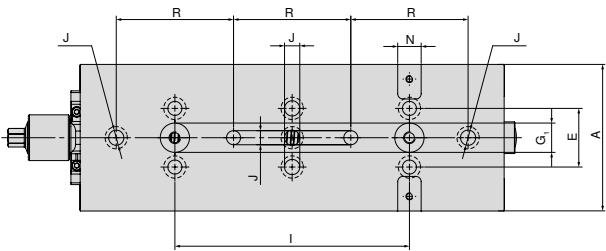
A	C _{-0.02}	F	G	DRVS	MXC	WT	clamping range	CW 80 901 ... 125 160
mm	mm	mm	mm	mm	kN	kg	mm	
125	60	362	433	14	40	15,0	0-308	
160	70	480	559	14	50	28,5	0-434	

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

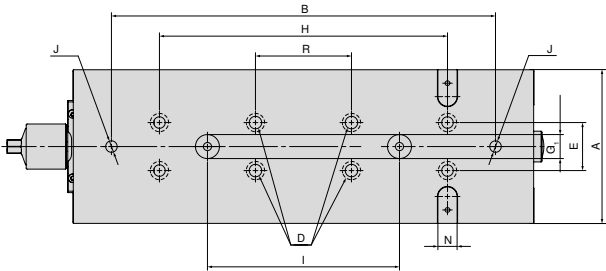
ESG 4 underside dimensions

Base width 125 mm and length 362 mm



A	E	G ₁	I	J	N _{H7}	R
mm	mm	mm	mm	mm	mm	mm
125	50	25	200	13	20	100

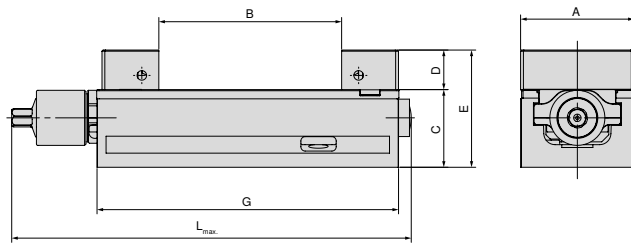
Base width 160 mm and length 480 mm



A	B	D	E	G ₁	H	I	J	N _{H7}	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	400	13	50	25	300	200	12	20	100

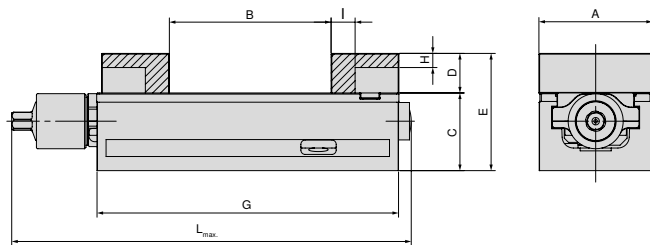
ESG 4 structural dimension table for the different jaws

With block jaws



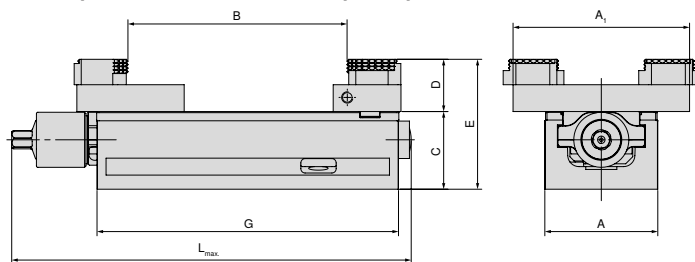
A mm	B mm	C mm	D mm	E mm	G mm	L _{max} mm	Article no. System jaws
125	0 - 231	60	40	100	362	432	8090131400 + 8090131500
160	0 - 312	70	50	120	480	559	8090131600 + 8090131700

With soft alu jaws



A mm	B mm	C mm	D mm	E mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
125	0 - 219	60	40	100	362	23	27	432	80901304 + 80878550
160	0 - 309	70	50	120	480	23	30	559	80901301 + 80878305

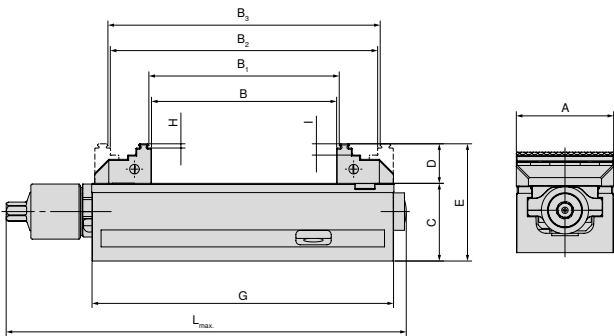
With pendulum and adapter plate



A mm	A ₁ mm	B mm	C mm	D mm	E mm	G mm	L _{max} mm	Article no. System jaws
125	180	4 - 306	60	22	100	362	432	80878570 + 80901502
160	256	11 - 463	70	22	110	480	559	80878670 + 80901503

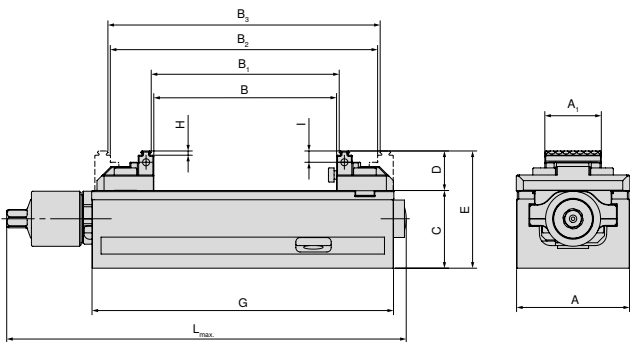
ESG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



A	B	B ₁	B ₂	B ₃	C	D	E	G	H	I	L _{max}	Article no. System jaws	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
125	0 - 231	8 - 238	71 - 301	78 - 308	60	40	100	362	3	18	433	80901302 + 80901303	
160	0 - 310	8 - 317	117 - 427	125 - 434	70	50	120	480	3	10	559	80901300 + 80878610	

With indexable jaws, grip 3 mm, height 65 mm



A	A ₁	B	B ₁	B ₂	B ₃	C	D	E	G	H	I	L _{max}	Article no. System jaws	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
125	65	0 - 240	8 - 247	77 - 317	84 - 324	60	33	93	362	3	9	432	80901305 + 8087851900	

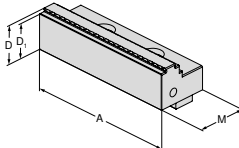
System jaws overview

Indexable jaw, grip 3 mm, fixed

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40	37			66		
160	160		50	47			81		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80901302				●	●				●		
80901300				●	●						

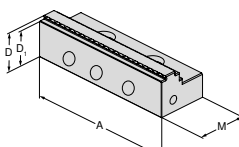


Indexable jaw, grip 3 mm, movable

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40	37			66		
160	160		50	47			81		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80901303				●	●				●		
80878610				●	●		●				

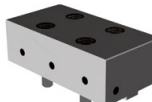
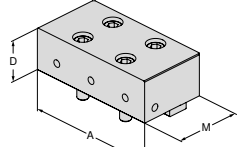


Block jaw, fixed

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40				66		
160	160		50				81		

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090131400				●							
8090131600				●	●						

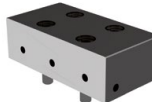
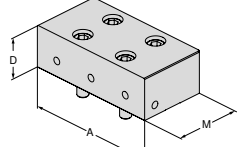


Block jaw, movable

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40				66		
160	160		50				81		

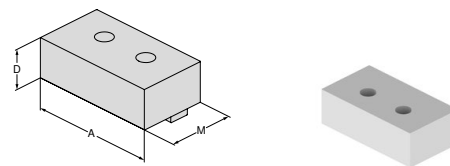
CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8090131500				●					●		
8090131700				●	●		●				



System jaws overview

Alu jaw, fixed

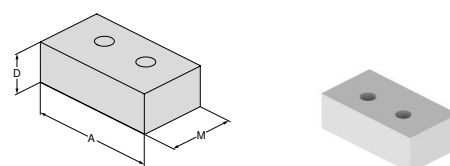
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	125		40				68			80901304				●							
160	160		50				85			80901301				●	●						

Alu jaw, movable

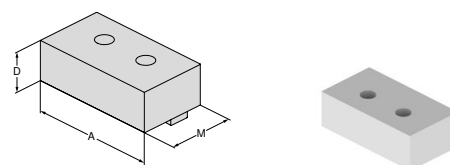
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	125		40				68			80878550				●						●	
160	160		50				85			80878305				●	●		●				

Soft jaw, steel, fixed

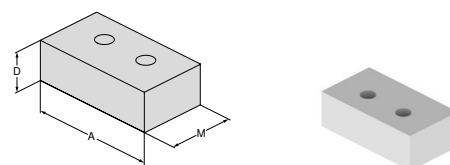
- ▲ Material: 16MnCr5
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	125		40				68			8090131900				●	●						

Soft jaw, steel, movable

- ▲ Material: 16MnCr5
- ▲ for producing shaped jaws
- ▲ Price per piece



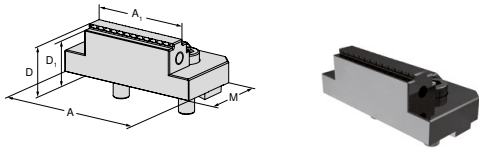
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	125		40				68			8087832100				●	●		●				

System jaws overview

5-axis reversible grip jaw, width 65 mm, fixed

- ▲ price per piece
- ▲ double sided grip step

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	95	65	33	30			57		

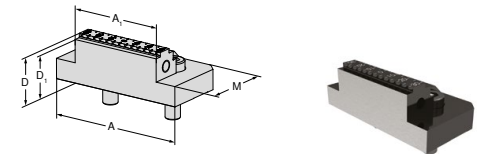


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80901305				●							

5-axis indexable jaw, grip 3 mm, width 65 mm, movable

- ▲ double sided grip step
- ▲ price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	95	65	33	30			57		

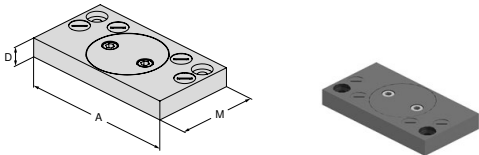


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8087851900							●				

Pendulum jaw, movable

- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	180		22				95		
160	256		22				170		

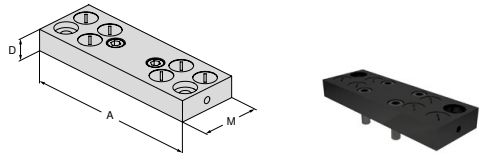


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80878570				●			●		●		
80878670				●			●				

Adapter jaw

- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	180		22				62		
160	256		22				125		



CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80901502				●							
80901503				●							

6 function indexable jaw

-

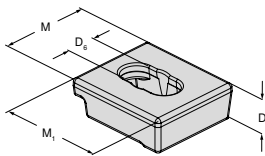
6x indexable jaw, carbide grip

-

System accessories overview

Clamping claws

▲ Price for 2 pieces



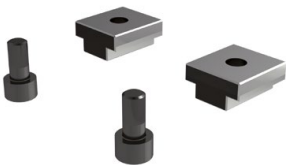
D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW
80 890 ...
315

Tenon incl. screw

▲ Price per 2 pieces

NCG	H5G	H5G-S	ESG 4	HDG 2	DSG 4	DSG	X5G-Z
-----	-----	-------	-------	-------	-------	-----	-------



for width mm
12
14
16
18

CW
80 898 ...
412
414
416
418

System accessories overview

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

NCG

H5G

ESG
4

HDG
2

ZSG
4

DSG
4

Verso



for slot width		G		CW	
mm				80 890 ...	
12		M10			308
14		M12			309
16		M14			310
18		M16			311

Dowel screws

- ▲ Price for 2 pieces

NCG

ESG
4



for width		G	J	CW	
mm			mm	80 890 ...	
100	M12x38		12		313

System accessories overview

Torque Wrench

▲ without socket

- ESG
4
- ESG
mini
- HDG
2
- ZSG
4
- ZSG
mini
- DSG
4
- X5G
-Z



TQX
Nm
10 - 100
20 - 200

AS
80 884 ...
502
504

Socket

▲ Suitable for 1/2" or 3/8" square drive

- ESG
4
- ZSG
4
- DSG
4



DRVS
mm
12
14

AS
80 875 ...
212
214

System accessories overview

Clamping Handle with Joint

▲ without socket

- H5G
-Z
- H5G
-Z-S
- ESG
4
- ESG
mini
- ZSG
4



Square

1/2"

CW

80 891 ...

600

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

- ESG
4
- ZSG
4
- DSG
4



for width
mm

18

G

M12

CW

80 899 ...

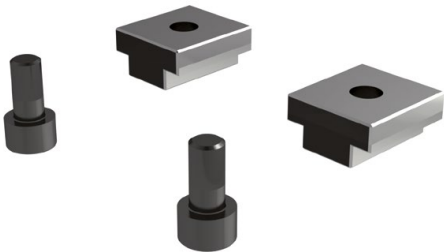
318

System accessories overview

Tenon incl. screw

▲ Price per 2 pieces

- NCG
- NCG
2
- H5G
- H5G
-S
- ESG
4
- HDG
2
- ZSG
- DSG
4



for width mm	G
12	M6

CW

80 898 ...

412

Dowel screw

▲ Price for 2 pieces

- H5G
- ESG
4
- ZSG
4
- DSG
4
- MNG
- X5G
-Z



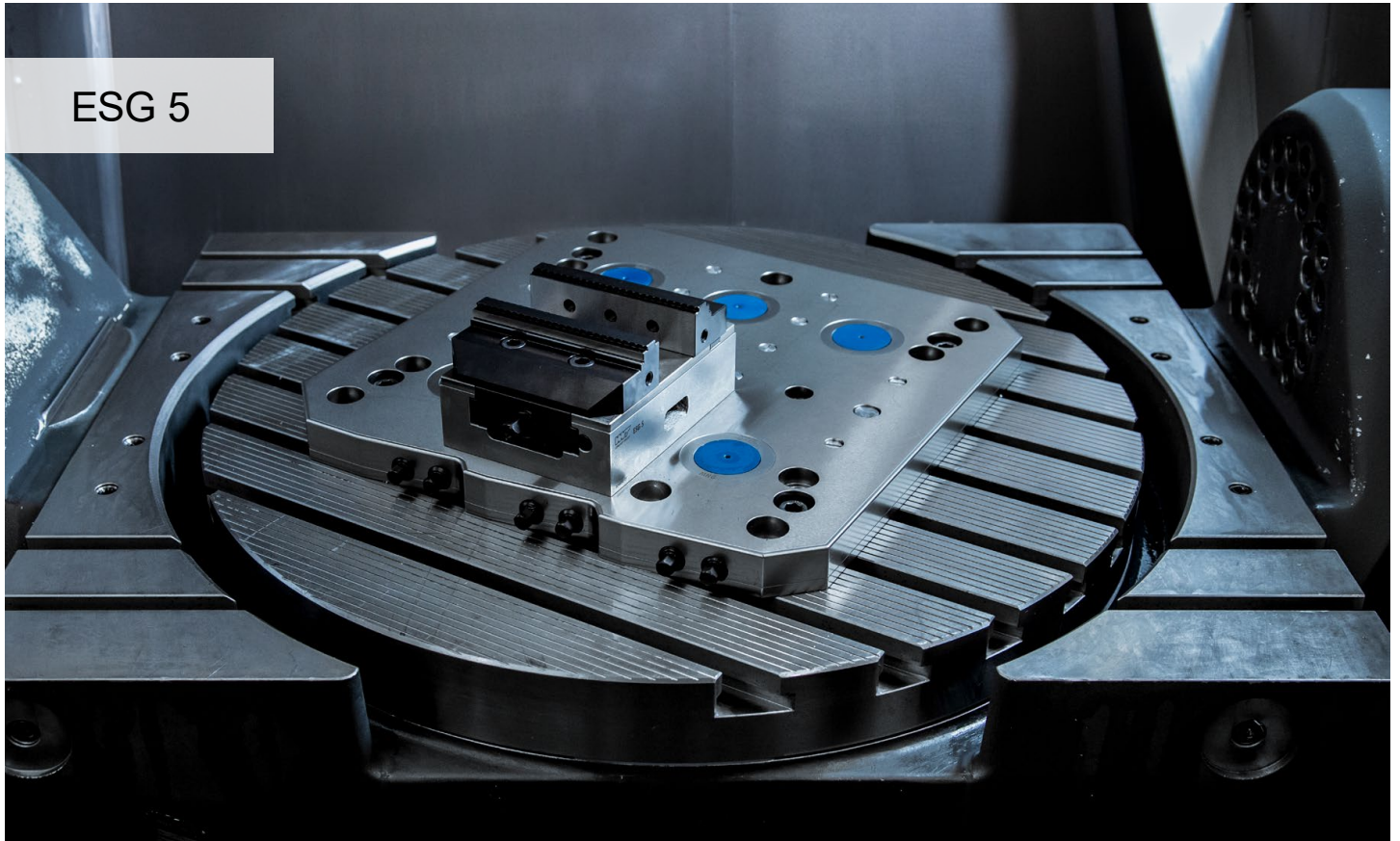
for width mm	G	J mm
125	M12x45	12

CW

80 895 ...

019

ESG 5



The optimised ESG 5 – Maximum precision and process security

The new ESG 5 retains all the cherished characteristics of its predecessor and raises the bar significantly with regard to user-friendliness and durability. Optimised handling and improved durability were top of the list in the update for the single vice.

Your benefits:

- ▲ Specially designed for second side machining through high angular accuracy
- ▲ Compact design with ideal accessibility
- ▲ Jaw change Quick and easy with two screws
- ▲ The same clamping ranges, significantly improved interference contour, comprehensive modular jaw range
- ▲ Sustainable model with nickel-plated base body ensures a long service life

Clamping/aligning:



Mounting with zero point clamping system
 ESG 5 – 80 mm L-130 mm + L-190 mm
 ESG 5 – 125 mm L-160 mm + L-235 mm

1 mounting bolt + MNG-indexing bolt



Mounting with zero point clamping system
 ESG 5 – 125 mm + L-300 mm
 ESG 5 – 160 mm + L-280 mm + L-480 mm

2 mounting bolts



Dia. 12^{JS} precision holes are present in all variants for positioning the ESG 5 with precision. All variants can be mounted with screws from above through the base body.

Clamping/aligning:

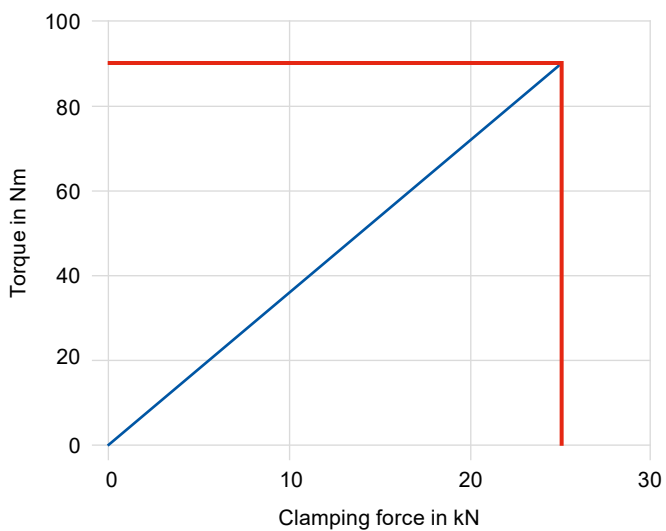


ESG 5 – 125 mm L-235 mm + L-300 mm
ESG 5 – 160 mm L-280 mm + L-480 mm

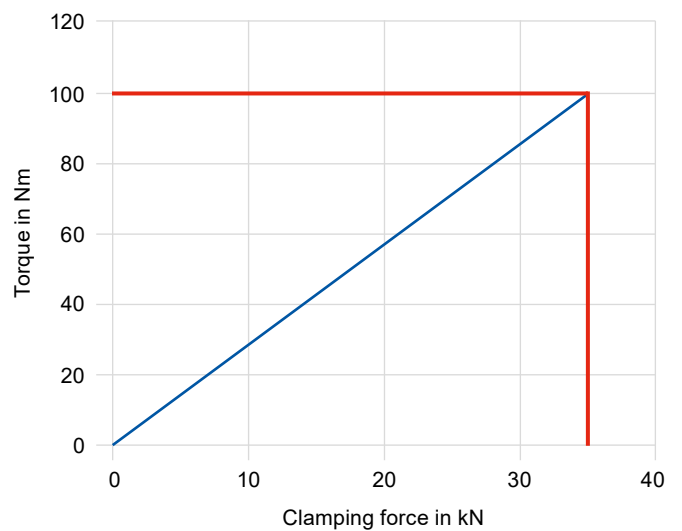
These 4 variants can also be clamped with clamping claws as an alternative.

Clamping force:

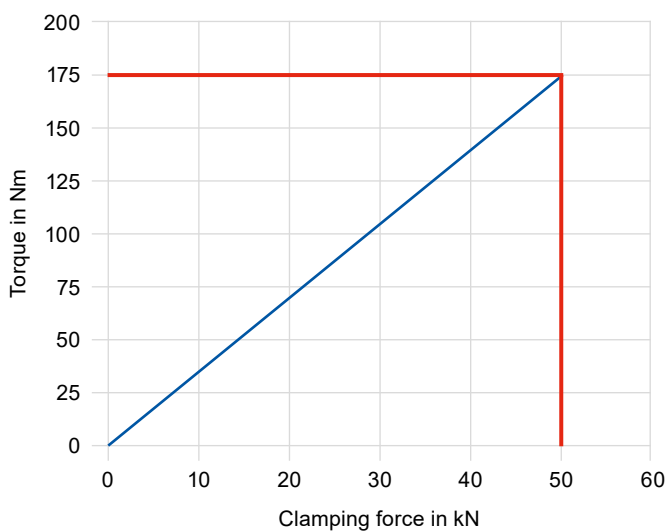
ESG 5 – 80 mm tightening torque / clamping force



ESG 5 – 125 mm tightening torque / clamping force

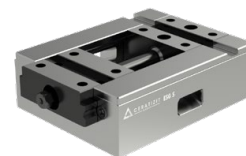
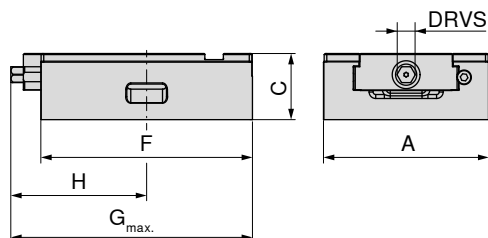
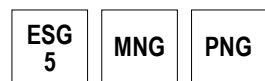


ESG 5 – 160 mm tightening torque / clamping force



CoreLine – Sealed single vice without system jaws – ESG 5

- ▲ Specially designed for second side machining through high angular accuracy
- ▲ ± 0.01 mm repeatability between the clamping processes
- ▲ Suitable for PNG and MNG



A mm	C _{±0.01} mm	F mm	G _{max.} mm	H mm	DRVS mm	MXC kN	WT kg
80	50	130	155,0	82	12	25	2,9
80	50	190	203,0	102	12	25	4,4
125	50	160	169,0	103	12	35	6,0
125	50	235	235,0	132	12	35	8,4
125	50	300	300,0	170	12	35	10,5
160	70	280	309,0	169	14	50	25,0
160	70	480	512,5	267	14	50	30,0

CW
80 857 ...
08500
08600
15000
15100
15200
26100
26200

Suitable for zero point clamping system							LANG Quick Point	LANG Quick Point
Article no.	Type	Width in mm	Height in mm	MNG	MNG mini	PNG	96 x 96	52 x 52
80 857 08500	ESG 5	80	130	✓	✓	✗	✗	✓
80 857 08600		80	190	✓	✗	✓	✗	✓
80 857 15000		125	160	✓	✗	✓	✓	✓
80 857 15100		125	235	✓	✗	✓	✓	✗
80 857 15200		125	300	✓	✗	✓	✓	✗
80 857 26100		160	280	✓	✗	✓	✓	✗
80 857 26200		160	480	✓	✗	✓	✗	✗

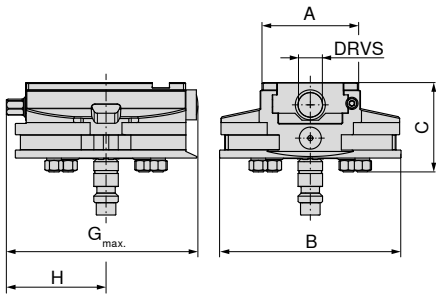
Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

CoreLine – Sealed single vice without system jaws – ESG 5

- ▲ for Erowa ITS 148
- ▲ Specially designed for second side machining through high angular accuracy
- ▲ ±0.01 mm repeatability between the clamping processes

ESG
5



A	B	C	G _{max}	H	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	kN	kg
80	148	73	157	81	12	25	5,6

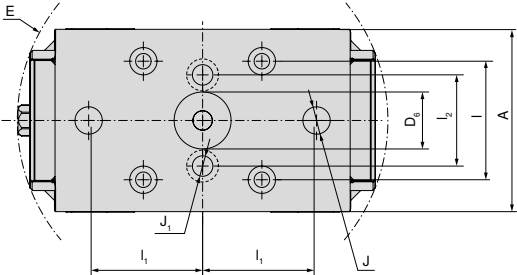
CW
80 857 ...
08900

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

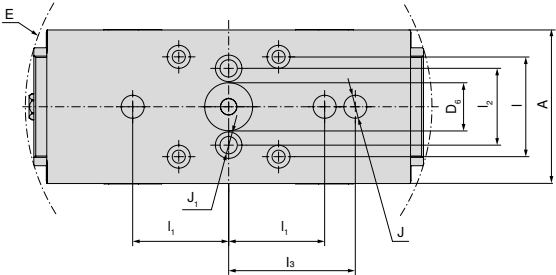
ESG 5 underside dimensions

Base width 80 mm and length 130 mm



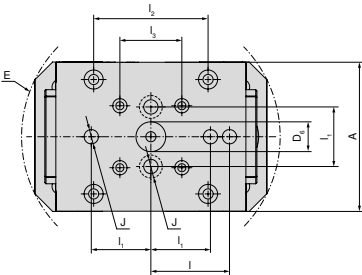
A	D ₆ H6	E	I ±0.015	I ₁ ±0.015	I ₂	J H7	J ₁
mm	mm	mm	mm	mm	mm	mm	mm
80	25	163	52	50	40	12	9

Base width 80 mm and length 190 mm



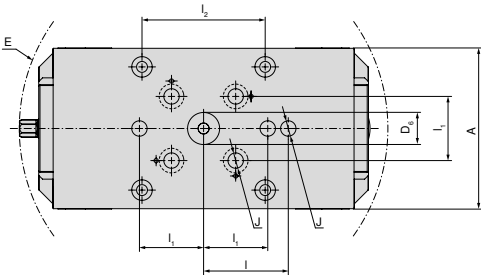
A	D ₆ H6	E	I ±0.015	I ₁ ±0.015	I ₂	I ₃ ±0.015	J H7	J ₁
mm	mm	mm	mm	mm	mm	mm	mm	mm
80	25	213	52	50	40	66	12	9

Base width 125 mm and length 160 mm



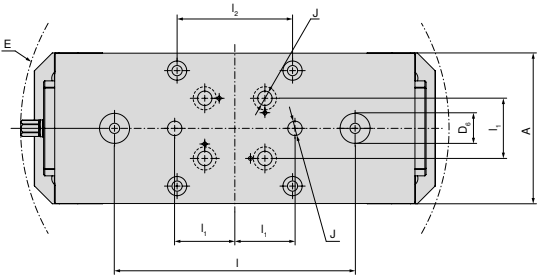
A	D ₆ H6	E	I ±0.015	I ₁ ±0.015	I ₂	I ₃ ±0.015	J H7
mm	mm	mm	mm	mm	mm	mm	mm
125	25	288	66	50	96		12
125	25	218	66	50	96	52	12

Base width 125 mm and length 235 mm



A	D ₆ H6	E	I ±0.015	I ₁ ±0.015	I ₂	J H7
mm	mm	mm	mm	mm	mm	mm
125	25	288	66	50	96	12

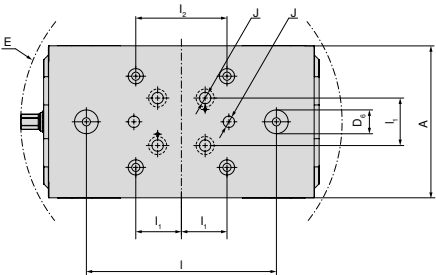
Base width 125 mm and length 300 mm



A	D ₆ H6	E	I ±0.015	I ₁ ±0.015	I ₂	J H7
mm	mm	mm	mm	mm	mm	mm
125	25	357	200	50	96	12

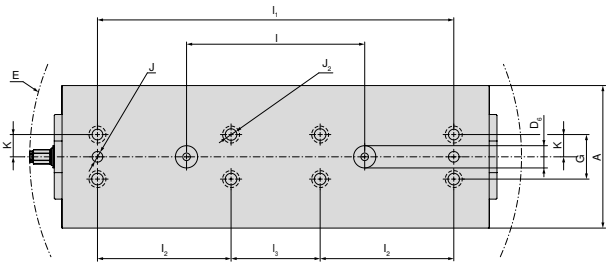
ESG 5 underside dimensions

Base width 160 mm and length 280 mm



A	D6 H6	E	I ±0,015	I1 ±0,015	I2	J H7
mm	mm	mm	mm	mm	mm	mm
160	25	339	200	50	96	12

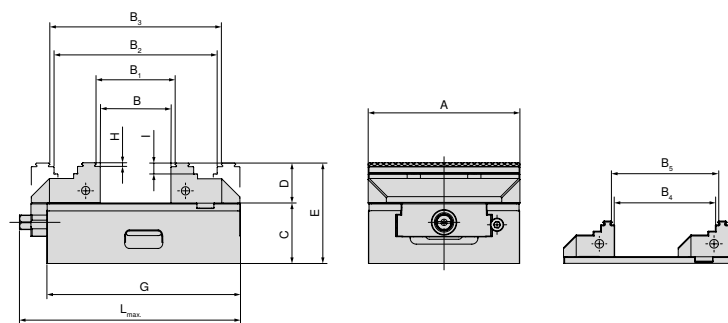
Base width 160 mm and length 480 mm



A	D6 H6	E	I ±0,015	I1 ±0,015	I2	I3 ±0,015	J H7	J2 F7	K ±0,02	G
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	25	550	200	400	150	100	13	12	25	50

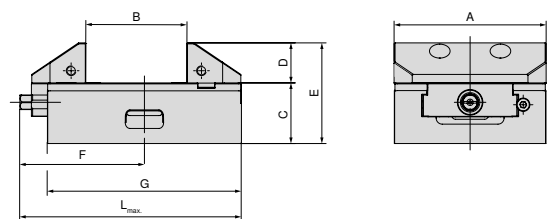
ESG 5 structural dimension table for the different jaws

With indexable jaw grip 3 mm, fixed and movable



A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	B ₄ mm	B ₅ mm	C mm	D mm	E mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
80	0-49	4-53	59-107	63-111	30-78	34-82	50	28	78	130	3	8	155	80901306 + 80878810
80	0-109	4-113	59-167	63-171	29-134	35-136	50	28	78	190	3	8	206	80901306 + 80878810
125	0-57	8-64	77-134	84-141	40-95	47-102	50	33	83	160	3	9	183	8085730000 + 80878510
125	0-127	8-134	77-204	84-211	40-165	47-172	50	33	83	235	3	9	250	8085730000 + 80878510
125	0-197	8-204	77-274	84-281	40-235	47-242	50	33	83	300	3	9	320	8085730000 + 80878510
160	0-121	8-128	118-238	125-245	–	–	70	50	120	280	3	10	328	80901300 + 80878610
160	0-324	8-331	118-441	125-448	–	–	70	50	120	480	3	10	506	80901300 + 80878610

With 5-axis jaws

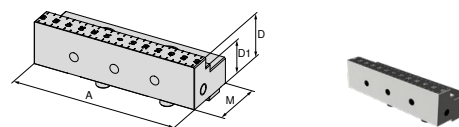


A mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws
125	25-82	50	33	83	103	160	183	8085730200 + 8085730100
125	25-152	50	33	83	132	235	250	8085730200 + 8085730100
125	25-222	50	33	83	170	300	320	8085730200 + 8085730100

System jaws overview

Indexable jaw, smooth, fixed

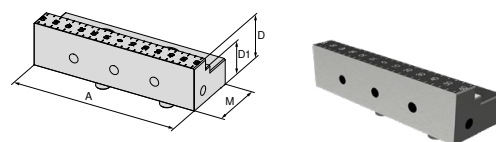
▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
80	80		28	20			40			8085730400					●							
125	125		33	25			57			8085730300					●							

Indexable jaw, smooth, movable

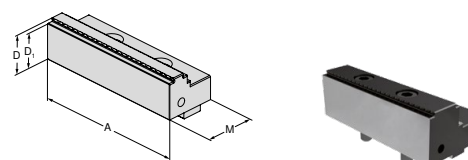
▲ Price per piece



										CW	NCG	H5G / -S / Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
80	80		28	20			40															
125	125		33	25			57			8087834700				●			●					
										8087834600					●		●					

Indexable jaw, grip 3 mm, fixed

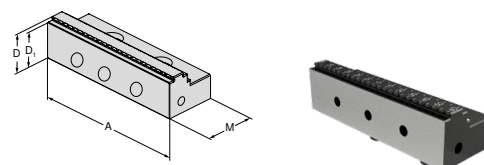
▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
80	80		28	25			40															
125	125		33	30			57															
160	160		50	47			81			80901306			●	●								
										8085730000				●								
										80901300				●	●							

Indexable jaw, grip 3 mm, movable

▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂												
80	80		28	25			40														
125	125		33	30			57														
160	160		50	47			81			80878810			●	●		●		●			
										80878510			●	●		●					
										80878610			●	●		●					

System jaws overview

5-axis indexable jaw, fixed

▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

125

125

33

44,5

CW

8085730100

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

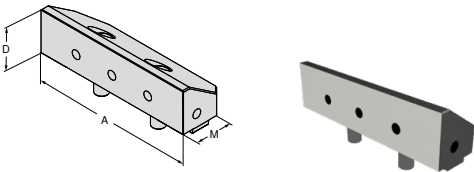
ZSG 4

ZSG mini

DSG 4

Verso

HSG



5-axis indexable jaw, movable

▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

125

125

33

44,5

CW

8085730200

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

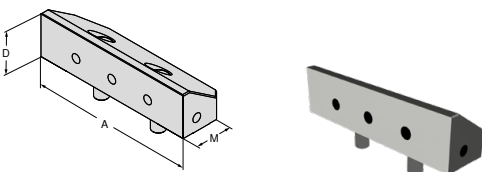
ZSG 4

ZSG mini

DSG 4

Verso

HSG



Soft jaw, steel, fixed

- ▲ Material: 16MnCr5
- ▲ for producing shaped jaws
- ▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

80

80

28

48

125

125

40

68

CW

8090131800

8090131900

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

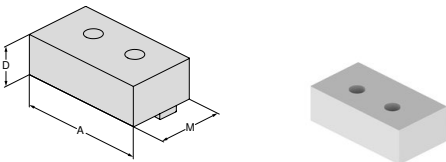
ZSG 4

ZSG mini

DSG 4

Verso

HSG



Soft jaw, steel, movable

- ▲ Material: 16MnCr5
- ▲ for producing shaped jaws
- ▲ Price per piece

For vice width

A

A₁

D

D₁

D₂

E

M

M₁

M₂

80

80

28

48

125

125

40

68

CW

8087832000

8087832100

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

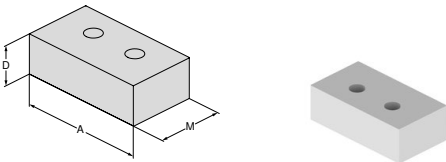
ZSG 4

ZSG mini

DSG 4

Verso

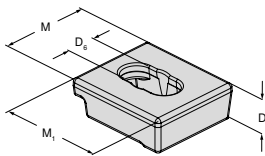
HSG



System accessories overview

Clamping claws

▲ Price for 2 pieces



D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW

80 890 ...

315

Clamping Handle with Joint

▲ without socket

- H5G
-Z
- H5G
-Z-S
- ESG
4
- ESG
mini
- ZSG
4



Square

1/2"

CW

80 891 ...

600

System accessories overview

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

ESG
4

ZSG
4

DSG
4



for width mm	G	CW	
		80 899 ...	
12	M10		312 ¹⁾
14	M12		314
16	M12		316
18	M12		318

1) Version with washers

Tenon incl. screw

▲ Price per 2 pieces

NCG

NCG
2

H5G

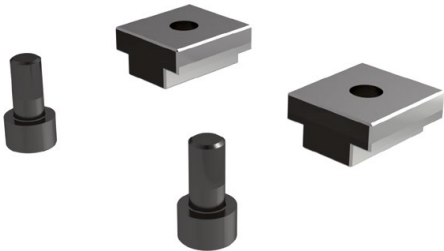
H5G
-S

ESG
4

HDG
2

ZSG

DSG
4



for width mm	G	CW	
		80 898 ...	
12	M6		412
14	M6		414
16	M6		416
18	M6		418

System accessories overview

Torque Wrench

▲ without socket

- ESG
4
- ESG
mini
- HDG
2
- ZSG
4
- ZSG
mini
- DSG
4
- X5G
-Z



TQX
Nm
10 - 100
20 - 200

AS
80 884 ...
502
504

Socket

▲ Suitable for 1/2" or 3/8" square drive

- ESG
4
- ZSG
4
- DSG
4



DRVS
mm
12
14

AS
80 875 ...
212
214

System accessories overview

Dowel screw

▲ Price for 2 pieces

- H5G
- ESG
4
- ZSG
4
- DSG
4
- MNG
- X5G
-Z



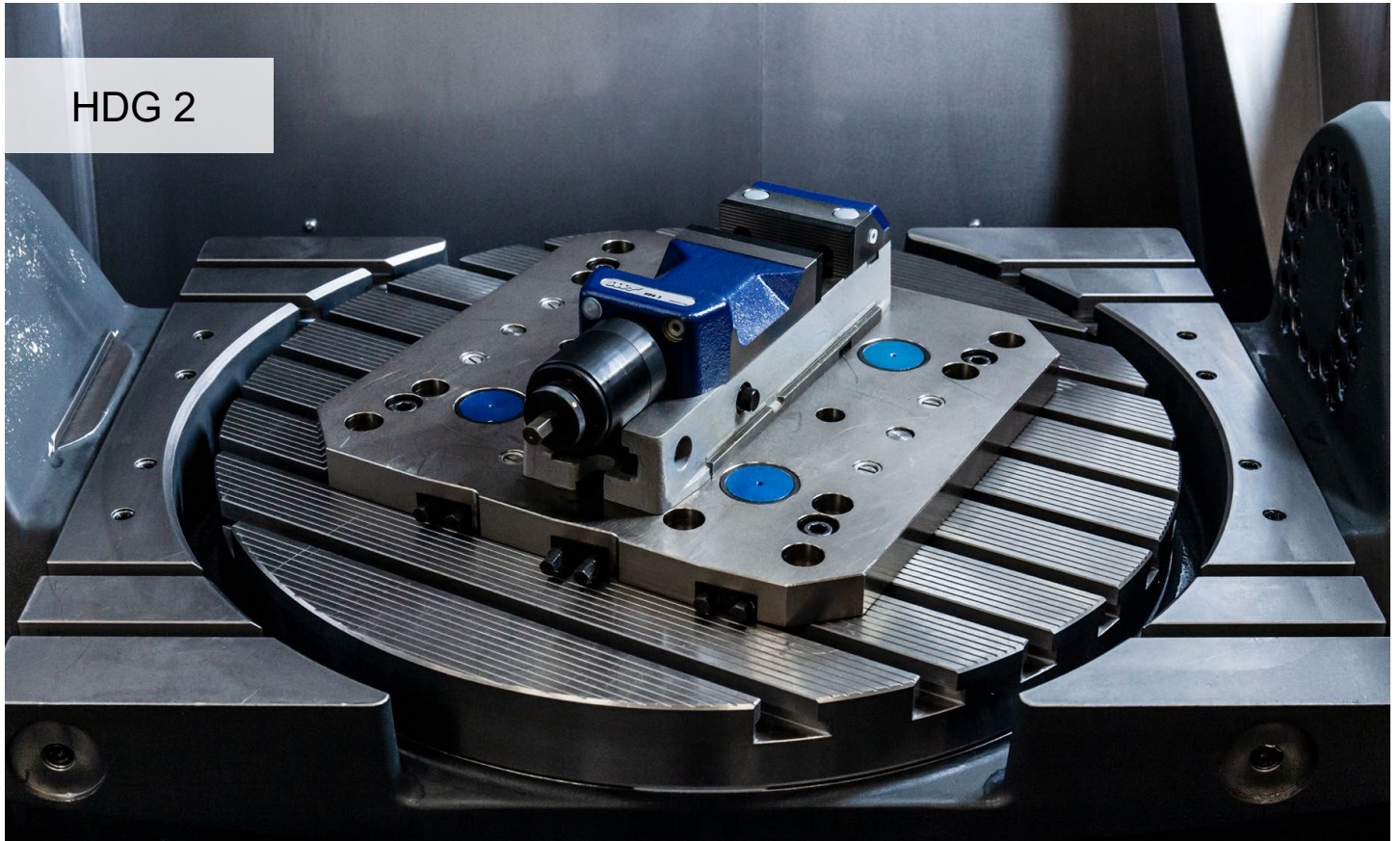
for width mm	G	J mm
125	M12x45	12

CW

80 895 ...

019

HDG 2



Tried-and-tested high pressure clamping system

Mechanical machine vice with continuous force adjustment from 10% to 100% of the clamping force with just one crank turn and always the same final crank position. Quick clamping range adjustment via locking pins.

Your benefits:

- ▲ Save time and effort – just one crank turn
- ▲ Clamping time of less than one second
- ▲ Easy handling
- ▲ Can be continuously adjusted without tools
- ▲ High machining precision

Clamping/aligning:



Alignment through precision slot nuts on the slot table with 20^{H7} longitudinal/transverse slot in the base body



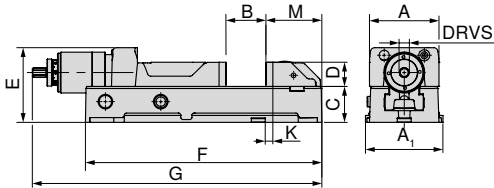
Clamp with screws through the base body or laterally with clamping claws

CoreLine – High pressure vice – HDG 2

- ▲ stepless power adjustment
- ▲ mechanical power transmission
- ▲ clamping force with only a single turn of the handle
- ▲ flexible Jaws, pre-machined to accommodate jaws for clamping range extension

Scope of supply:
High pressure vice incl. 4 clamping jaws, hand crank, 2 top jaws profiled and hardened

HDG
2



A	A ₁	B	C _{+0/-0,02}	D	E	F	G _{max.}	K _{±0,015}	M	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
100	112	0 - 159	52	35	108	342	521	11	81	12	4 - 30	20
125	140	0 - 201	62	40	118	400	584	28	85	12	4 - 40	27
160	176	0 - 300	78	50	149	544	784	40	112	12	5 - 60	55

CW
80 892 ...
100 ¹⁾
125 ¹⁾
160 ¹⁾

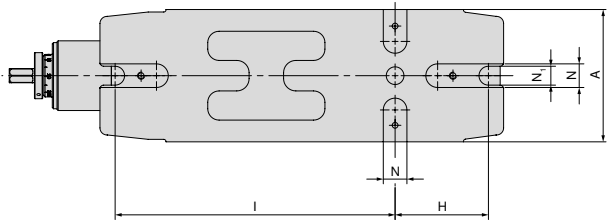
1) Not ex-stock

Vice guide

→ Underside Dimensions	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws
→ General top jaws	
→ Workpiece location	

HDG 2 underside dimensions

Base width 100 mm, 125 mm, 160 mm



A mm	H mm	I mm	N _{H7} mm	N _I mm
100	80	240	20	15
125	100	280	20	18
160	130	380	20	22

System accessories overview

Angular drive

HDG
2

for width
mm

100/125



A blue, L-shaped metal bracket with a central threaded hole and two long, parallel mounting slots.

CW

80 892 ...

314

Hand crank

▲ for fast adjustment

HDG
2

for width mm	DRVS mm
100/125	12
160	12



A black, L-shaped hand crank with a textured grip on the long arm and a threaded end on the short arm.

CW

80 892 ...

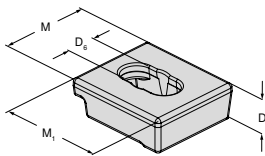
124

164

System accessories overview

Clamping claws

▲ Price for 2 pieces



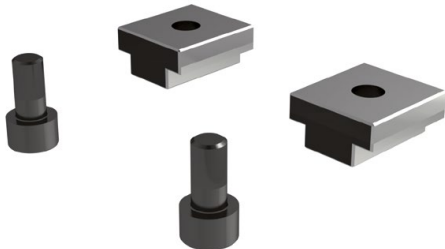
D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW
80 890 ...
315

Tenon incl. screw

▲ Price per 2 pieces

NCG	NCG 2	H5G	H5G -S	ESG 4	HDG 2	ZSG	DSG 4
-----	-------	-----	--------	-------	-------	-----	-------



for width mm	G
12	M6
14	M6
16	M6
18	M6

CW
80 898 ...
412
414
416
418

System accessories overview

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

NCG	H5G	ESG 4	HDG 2	ZSG 4	DSG 4	Verso
-----	-----	----------	----------	----------	----------	-------



for slot width		G		CW	
mm				80 890 ...	
12		M10			308
14		M12			309
16		M14			310
18		M16			311

ZSG 4



The optimised ZSG 4 – Maximum precision and process security

The new ZSG 4 retains all the cherished characteristics of its predecessor and raises the bar significantly with regard to user-friendliness and durability. Optimised handling and improved durability were top of the list in the update for the popular centric vice.

Your benefits:

- ▲ Specially designed for second side machining through high angular accuracy
- ▲ Compact design with ideal accessibility
- ▲ Jaw change Quick and easy with two screws
- ▲ The same clamping ranges, significantly improved interference contour, comprehensive modular jaw range
- ▲ Sustainable model with nickel-plated base body ensures a long service life



Clamping/aligning:



Mounting with zero point clamping system
ZSG 4 – 80 mm L-130 mm + L-190 mm
ZSG 4 – 125 mm L-160 mm + L-235 mm

1 mounting bolt + MNG-indexing bolt



Mounting with zero point clamping system
ZSG 4 – 125 mm + L-300 mm
ZSG 4 – 160 mm + L-280 mm + L-480 mm

2 mounting bolts



Dia. 12^{JS} precision holes are present in all variants for positioning the ZSG 4 with precision. All variants can be mounted with screws from above through the base body.

Clamping/aligning:



ZSG 4 – 125 mm L-235 mm + L-300 mm
 ZSG 4 – 160 mm L-280 mm + L-480 mm

These 4 variants can also be clamped with clamping claws as an alternative.

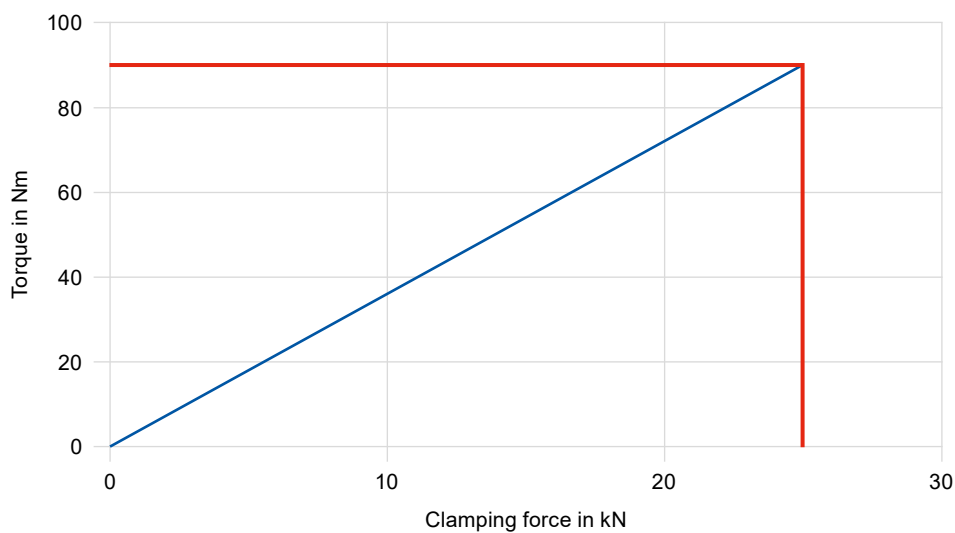


ZSG 4 – 80 mm L-130 mm + L-190 mm
 ZSG 4 – 125 mm L-160 mm + L-235 mm + L-300 mm
 ZSG 4 – 160 mm L-280 mm

All 5 variants are also available with mounting holes for the LANG zero point clamping system.

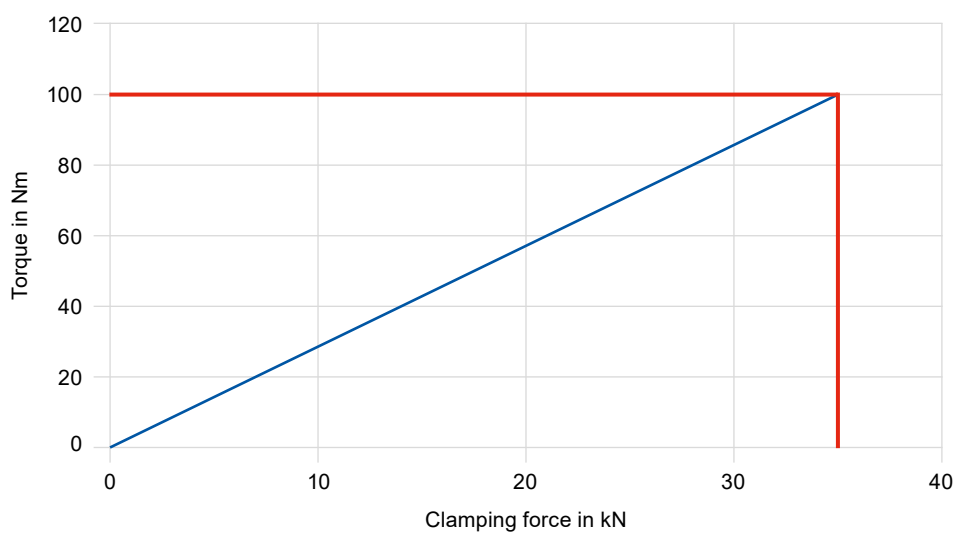
Clamping force:

ZSG 4 – 80 mm tightening torque/clamping force

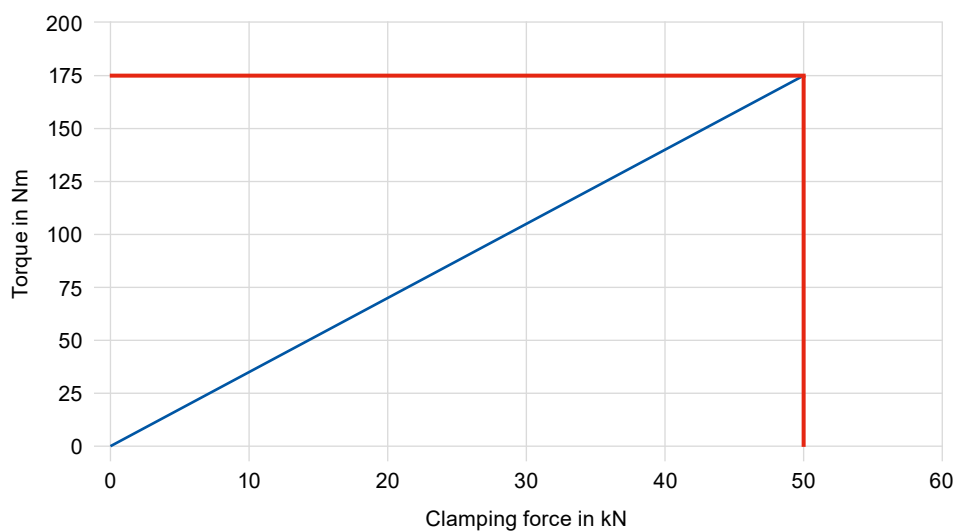


Clamping force:

ZSG 4 – 125 mm tightening torque / clamping force

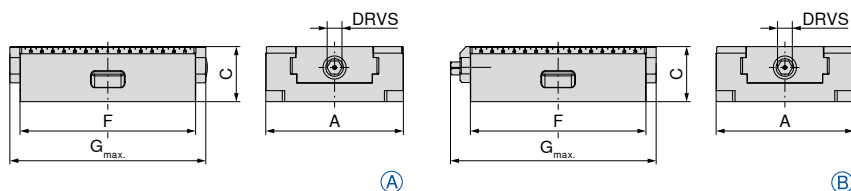
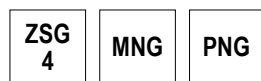


ZSG 4 – 160 mm tightening torque / clamping force



CoreLine – Sealed centric vice without system jaws – ZSG 4

- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability between the clamping processes
- ▲ Suitable for PNG and MNG



Internal actuating spindle

External actuating spindle



A mm	C ± 0.01 mm	F mm	G _{max} mm	DRVS mm	MXC kN	WT kg	Designation
80	50	130	157	12	25	3,1	A
80	50	190	206	12	25	4,5	B
125	50	160	200	12	35	6,3	A
125	50	235	272	12	35	9,5	B
125	50	300	340	12	35	12,5	B
125	60	390	433	12	35	17,0	B
125	60	460	503	12	35	20,0	B
125	60	530	573	12	35	24,0	B
125	60	600	643	12	35	27,0	B
125	60	670	713	12	35	30,5	B
125	60	740	783	12	35	34,0	B
160	70	280	315	14	50	25,0	A
160	70	480	524	14	50	35,0	B

CW
80 878 ...
08500
08600
15000
15100
15200
17000
17100
17200
17300
17400
17500
26100
26200

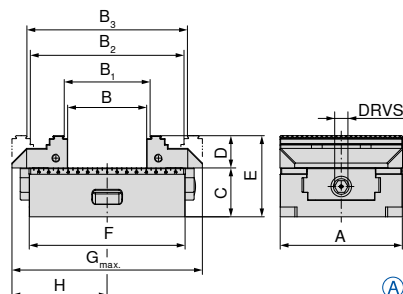
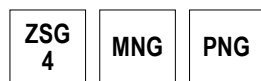
Suitable for zero point clamping system							LANG Quick Point	LANG Quick Point
Article no.	Type	Width in mm	Length in mm	MNG	MNG mini	PNG	96 x 96	52 x 52
8087808500	ZSG 4	80	130	✓	✓	✗	✓	✓
8087808600		80	190	✓	✗	✓	✓	✓
8087815000		125	160	✓	✗	✓	✓	✓
8087815100		125	235	✓	✗	✓	✓	✗
8087815200		125	300	✓	✗	✓	✓	✗
8087817000		125	390	✓	✗	✓	✗	✗
8087817100		125	460	✓	✗	✓	✗	✗
8087817200		125	530	✓	✗	✓	✗	✗
8087817300		125	600	✓	✗	✓	✗	✗
8087817400		125	670	✓	✗	✓	✗	✗
8087817500		125	740	✓	✗	✓	✗	✗
8087826200		160	480	✓	✗	✓	✗	✗

Vice guide

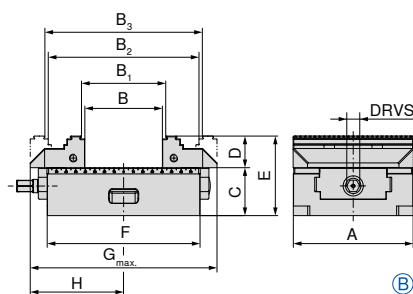
→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws

CoreLine – Sealed centric vice with grip jaws – ZSG 4

- ▲ Ball bearing mounted spindle
- ▲ ± 0.01 mm repeatability between the clamping processes
- ▲ Suitable for PNG and MNG



Internal actuating spindle



External actuating spindle



A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C _{±0,01} mm	D mm	E mm	F mm	G _{max} mm	H mm	DRVS mm	MXC kN	WT kg	Designation
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81	12	25	3,9	A
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104	12	25	5,5	B
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	12	35	8,7	A
125	0 - 142	8 - 149	77 - 218	84 - 225	50	33	83	235	273	143,5	12	35	12,0	B
125	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	300	348	181	12	35	14,0	B

CW

80 878 ...

08700

08800

15300

15400

15500



It is not possible to fit top jaws with a height of 40 mm, if this height is required, please use the reversible jaws with D = 40 mm (Article No. 80 878 520).

Suitable for zero point clamping system							LANG Quick Point		LANG Quick Point	
Article no.	Type	Width in mm	Length in mm	MNG	MNG mini	PNG	96 x 96	52 x 52	96 x 96	52 x 52
8087808700	ZSG 4	80	130	✓	✓	✗	✗	✓	✗	✓
8087808800		80	190	✓	✗	✓	✗	✓	✗	✓
8087815300		125	160	✓	✗	✓	✓	✓	✗	✓
8087815400		125	235	✓	✗	✓	✓	✓	✗	✗
8087815500		125	300	✓	✗	✓	✓	✓	✗	✗

Vice guide

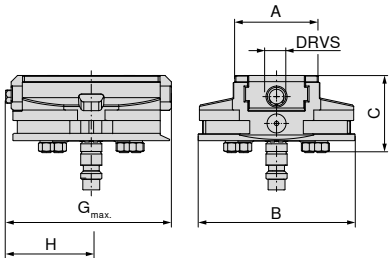
- Underside Dimensions
- Structural dimension tables for the different jaws
- System jaws
- System accessories
- MNG-/PNG zero point clamping system
- General top jaws
- Workpiece location
- General accessories
- Clamping lever
- Screws

CoreLine – Sealed centric vice without system jaws – ZSG 4

- ▲ for Erowa ITS 148
- ▲ Ball bearing mounted spindle
- ▲ ±0.01 mm repeatability between the clamping processes

ZSG
4

MNG



A	B	C	G _{max.}	H	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	kN	kg
80	148	73	157	81	12	25	5,6

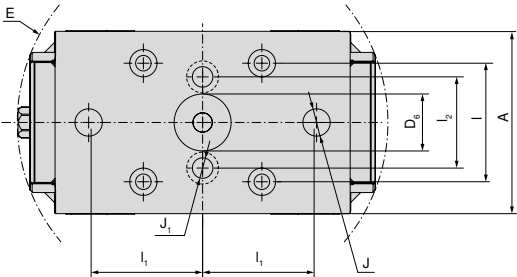
CW

80 878 ...

08900

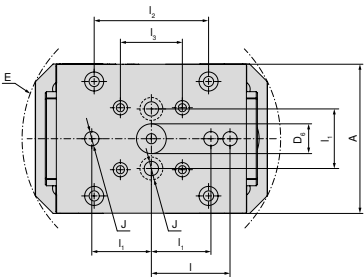
ZSG 4 underside dimensions

Base width 80 mm and length 130 mm



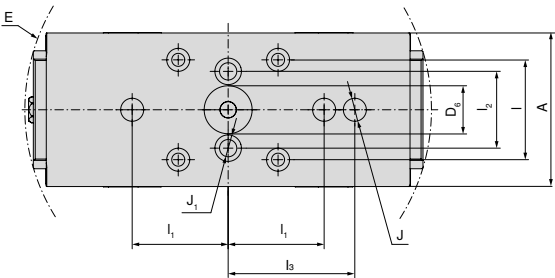
A	D6 H6	E	I ±0.015	I1 ±0.015	I2	J H7	J1
mm	mm	mm	mm	mm	mm	mm	mm
80	25	163	52	50	40	12	9

Base width 125 mm and length 160 mm



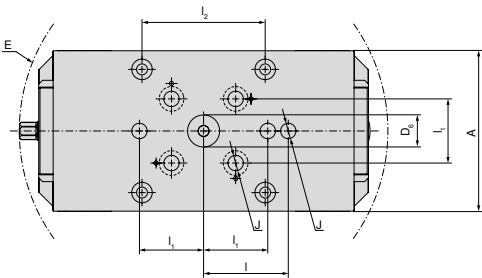
A	D6 H6	E	I ±0.015	I1 ±0.015	I2	I3 ±0.015	J H7
mm	mm	mm	mm	mm	mm	mm	mm
125	25	288	66	50	96		12
125	25	218	66	50	96	52	12

Base width 80 mm and length 190 mm



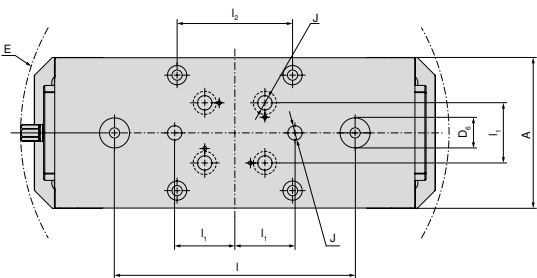
A	D6 H6	E	I ±0.015	I1 ±0.015	I2	I3 ±0.015	J H7	J1
mm	mm	mm	mm	mm	mm	mm	mm	mm
80	25	213	52	50	40	66	12	9

Base width 125 mm and length 235 mm



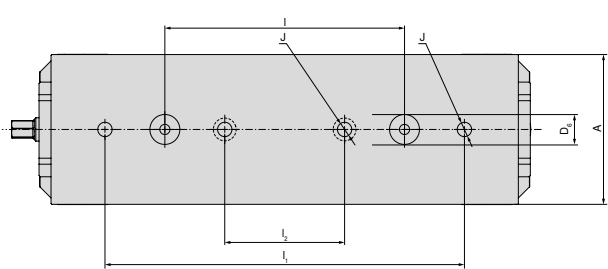
A	D6 H6	E	I ±0.015	I1 ±0.015	I2	J H7
mm	mm	mm	mm	mm	mm	mm
125	25	288	66	50	96	12

Base width 125 mm and length 300 mm



A	D6 H6	E	I ±0.015	I1 ±0.015	I2	J H7
mm	mm	mm	mm	mm	mm	mm
125	25	357	200	50	96	12

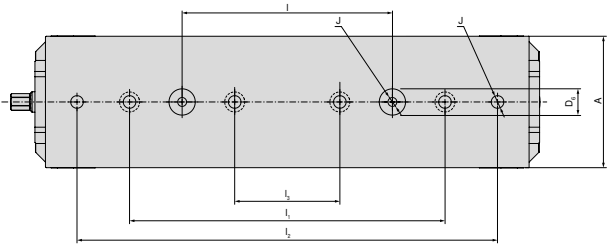
Base width 125 mm and length 390 mm



A	D6 H6	I ±0.015	I1 ±0.01	I2 ±0.02	J H7
mm	mm	mm	mm	mm	mm
125	25	200	300	100	12

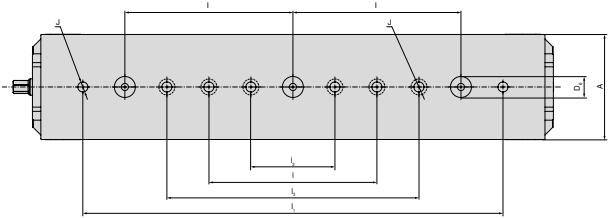
ZSG 4 underside dimensions

Base width 125 mm and length 460 mm,
530 mm



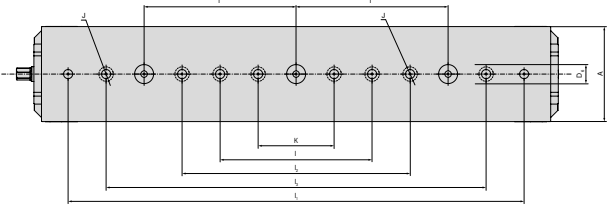
A	D ₆	I	I ₁	I ₂	I ₃	J
mm	H6	mm	mm	mm	mm	H7
125	25	200	300	400	100	12
125	25	200	300	500	100	12

Base width 125 mm and length 600 mm



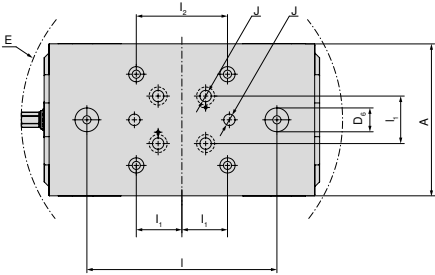
A	D ₆	I	I ₁	I ₂	I ₃	J
mm	H6	mm	mm	mm	mm	H7
125	25	200	500	100	300	12

Base width 125 mm and length 670 mm,
740 mm



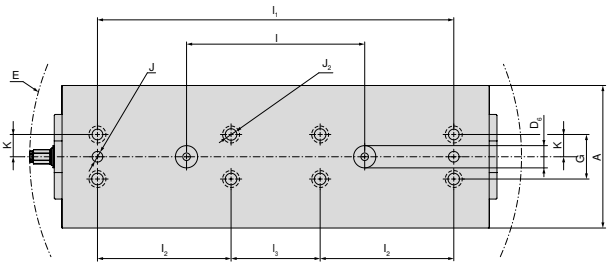
A	D ₆ H6	K	I _{±0,015}	I _{2 ±0,02}	I _{3 ±0,025}	I _{1 ±0,01}	J H7
mm	mm	mm	mm	mm	mm	mm	mm
125	25	100	200	300	500	600	12
125	25	100	200	300	500	700	12

Base width 160 mm and length 280 mm



A	D ₆	E	I	I ₁	I ₂	J
mm	H6	mm	mm	mm	mm	H7
160	25	339	200	50	96	12

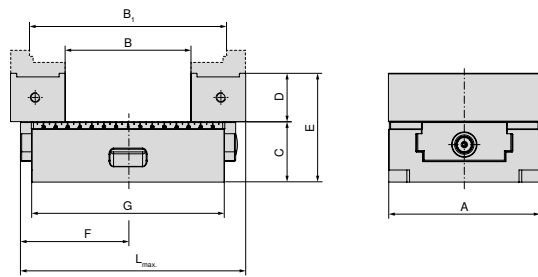
Base width 160 mm and length 480 mm



A	D ₆	E	I	I ₁	I ₂	I ₃	J	J ₂	K	G
mm	H6	mm	mm	mm	mm	mm	mm	F7	mm	mm
160	25	550	200	400	150	100	13	12	25	50

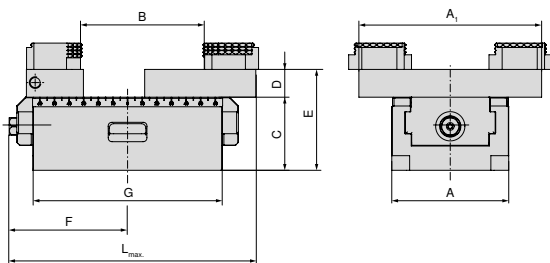
ZSG 4 structural dimension table for the different jaws

With combi jaws



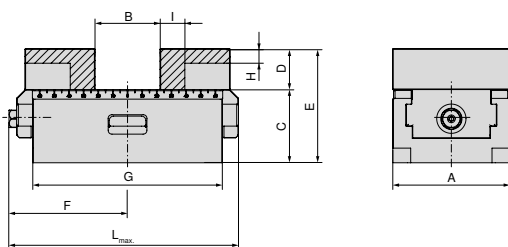
A mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws
125	23 - 103	82 - 161	50	40	90	111,5	160	208	2 x 80878530
125	23 - 165	82 - 223	50	40	90	143,5	235	272	2 x 80878530
125	23 - 241	82 - 300	50	40	90	181	300	348	2 x 80878530

With pendulum and adapter plate



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws
80	125	3 - 84	50	28	78	81	130	157	80878890 + 80878870
80	125	3 - 145	50	28	78	104	190	206	80878890 + 80878870
125	180	7 - 126	50	22	90	111,5	160	212	80878590 + 80878570
125	180	7 - 207	50	22	90	143,5	235	272	80878590 + 80878570
125	180	7 - 250	50	22	90	181	300	352	80878590 + 80878570
160	256	16 - 292	70	22	110	170	280	315	80878690 + 80878670
160	256	16 - 406	70	22	110	276	480	524	80878690 + 80878670

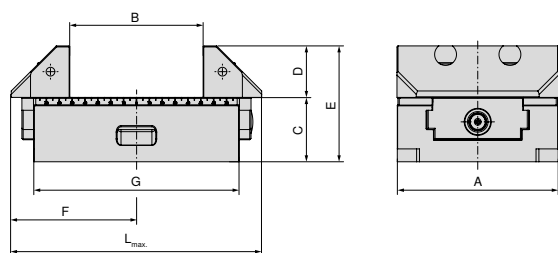
With aluminium jaws



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
80	0 - 44	50	28	78	81	130	10	17	157	2 x 80878850
80	0 - 108	50	28	78	104	190	10	17	206	2 x 80878850
125	0 - 58	50	40	90	111,5	160	17	27	208	2 x 80878550
125	0 - 133	50	40	90	143,5	235	17	27	272	2 x 80878550
125	0 - 198	50	40	90	181	300	17	27	348	2 x 80878550
160	0 - 123	70	50	120	170	280	26	25	315	2 x 80878305
160	10 - 336	70	50	120	276	480	26	25	524	2 x 80878305

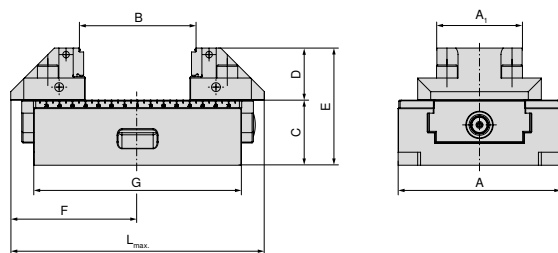
ZSG 4 structural dimension table for the different jaws

With 5-axis jaws



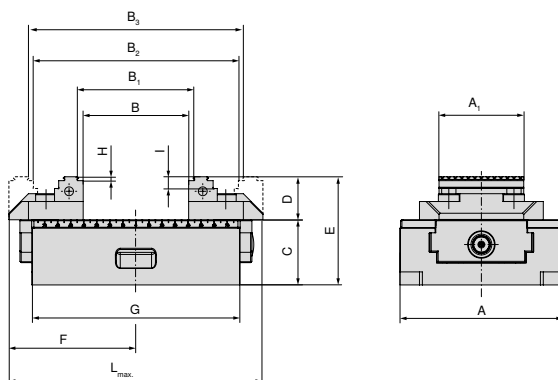
A mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws
125	22 - 102	50	40	90	115,5	160	208	2 x 80878625
125	22 - 165	50	40	90	143,5	235	272	2 x 80878625
125	22 - 242	50	40	90	181	300	348	2 x 80878625
160	15 - 140	70	50	120	170	280	315	2 x 80878660
160	28 - 354	70	50	120	276	480	524	2 x 80878660

With 5 axis jaws, grip 3 mm, width 65 mm



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws
125	65	8 - 87	50	40	90	115,5	160	208	2 x 80878665
125	65	8 - 162	50	40	90	143,5	235	272	2 x 80878665
125	65	8 - 227	50	40	90	181	300	348	2 x 80878665

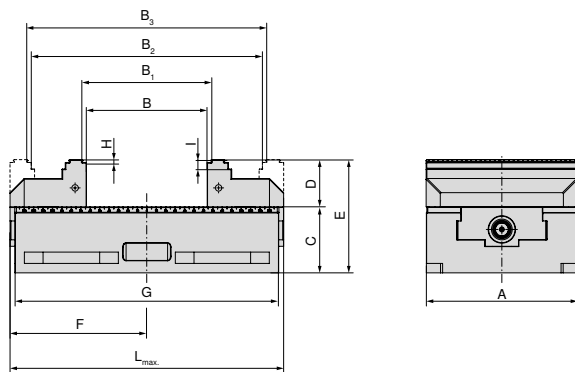
With indexable jaws, grip 3 mm, height 65 mm



A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
125	65	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	111,5	160	3	9	208	2 x 8087851900
125	65	0 - 142	8 - 149	77 - 218	84 - 225	50	33	83	143,5	235	3	9	272	2 x 8087851900
125	65	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	181	300	3	9	348	2 x 8087851900

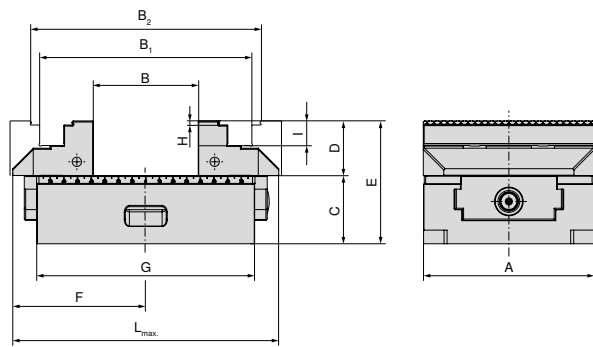
ZSG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



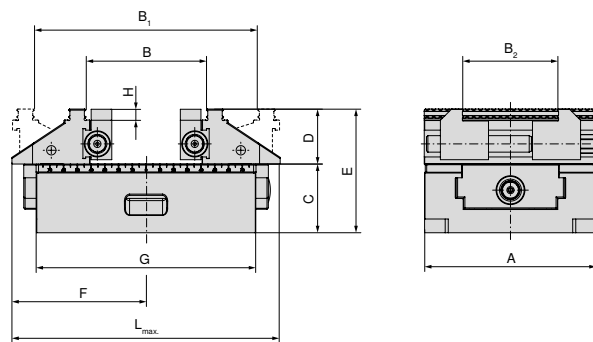
A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
160	0 - 127	8 - 134	118 - 244	125 - 251	70	50	120	170	280	3	10	315	2 x 80878610
160	15 - 341	22 - 348	132 - 458	139 - 465	70	50	120	276	480	3	10	524	2 x 80878610

With indexable jaws, grip, height 40 mm



A mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
125	0 - 75	75 - 154	88 - 166	50	40	90	111,5	160	3	9	208	2 x 80878520
125	0 - 138	75 - 217	88 - 229	50	40	90	143,5	235	3	9	272	2 x 80878520
125	0 - 215	75 - 294	88 - 306	50	40	90	181	300	3	9	348	2 x 80878520

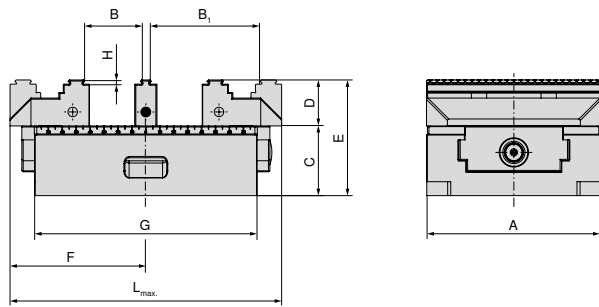
With 6 face jaw system for 125 mm jaw width



A mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	H mm	L _{max} mm	Article no. System jaws
125	39 - 86	83 - 161	37 - 101	50	40	90	111,5	160	8	209	80878525
125	39 - 149	83 - 224	37 - 101	50	40	90	143,5	235	8	272	80878525
125	39 - 226	83 - 301	37 - 101	50	40	90	181	300	8	349	80878525

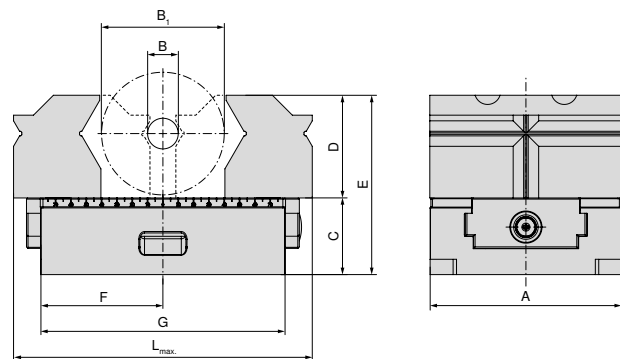
ZSG 4 structural dimension table for the different jaws

With middle jaw, grip 3 mm (height 28 mm / 33 mm) for jaw width 125 mm



A mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G mm	H mm	L _{max} mm	Article no. System jaws	
80	8 - 28	37 - 57	50	28	78	81	130	3	157	2 x	80878810 + 8087831200
80	14 - 22	31 - 51	50	28	78	81	130	3	157	2 x	80878810 + 8087833400
80	8 - 58	37 - 87	50	28	78	104	190	3	206	2 x	80878810 + 8087831200
80	14 - 52	31 - 81	50	28	78	104	190	3	206	2 x	80878810 + 8087833400
125	9 - 40	47 - 78	50	33	83	111,5	160	3	208	2 x	80878510 + 8087831300
125	15 - 34	41 - 72	50	33	83	111,5	160	3	208	2 x	80878510 + 8087833500
125	9 - 72	47 - 110	50	33	83	143,5	235	3	272	2 x	80878510 + 8087831300
125	15 - 66	41 - 104	50	33	83	143,5	235	3	272	2 x	80878510 + 8087833500
125	9 - 110	47 - 148	50	33	83	181	300	3	348	2 x	80878510 + 8087831300
125	15 - 104	41 - 142	50	33	83	181	300	3	348	2 x	80878510 + 8087833500

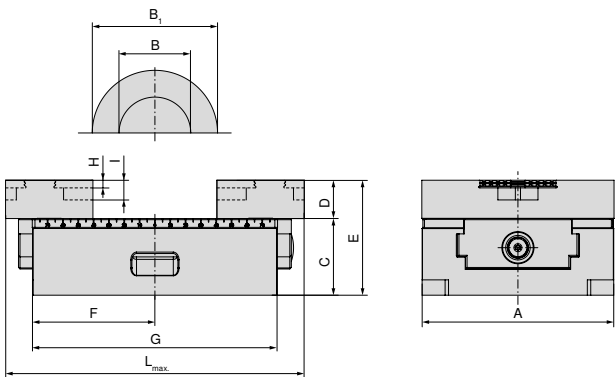
With prism jaw, movable – horizontal and vertical prism



A mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G mm	L _{max} mm	Article no. System jaws	
80	10 - 28	20 - 60	50	52	102	81	130	157	2 x	8087831800
80	10 - 28	20 - 60	50	52	102	104	190	206	2 x	8087831800
125	10 - 28	26 - 80	50	67	117	111,5	160	200	2 x	8087831900
125	10 - 28	26 - 80	50	67	117	143,5	235	272	2 x	8087831900
125	10 - 28	26 - 80	50	67	117	181	300	348	2 x	8087831900

ZSG 4 structural dimension table for the different jaws

With prism jaw, movable – horizontal prism



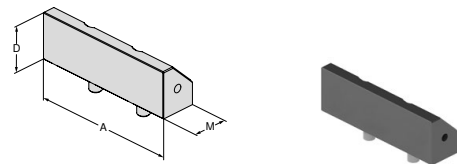
A mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
80	8 - 55	15 - 76	50	25	75	81	130	5	13	157	2 x 8087834000
80	8 - 55	15 - 76	50	25	75	104	190	5	13	206	2 x 8087834000
125	14 - 102	25 - 112	50	25	75	111,5	160	5	13	200	2 x 8087834100
125	14 - 124	25 - 165	50	25	75	143,5	235	5	13	272	2 x 8087834100
125	14 - 124	25 - 165	50	25	75	181	300	5	13	348	2 x 8087834100
160	22 - 158	32 - 170	70	30	100	145	280	5	13	290	2 x 8087834200
160	22 - 158	32 - 170	70	30	100	273	480	5	13	521	2 x 8087834200

System jaws overview

5-axis jaw, movable

▲ Price per piece

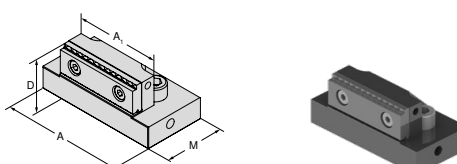
Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
125	125		40				45,5			80878625							●					
160	160		50				73			80878660							●					

5-axis jaw, grip 3 mm, width 65 mm, movable

▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	95	65,5	40				57			80878665							●				

5-axis indexable jaw, grip 3 mm, width 65 mm, movable

- ▲ double sided grip step
- ▲ price per piece

double sided grip step
▲ price per piece

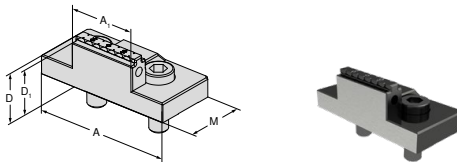
The image shows a technical drawing and a 3D model of a 5-axis indexable jaw. The technical drawing is a side view showing the jaw's profile with dimensions: A (total width), A1 (width of the grip area), D (total height), D1 (height of the grip area), D2 (height of the base), E (width of the base), M (width of the grip area), M1 (width of the base), and M2 (width of the grip area). The 3D model shows the jaw from a perspective view, highlighting the double-sided grip step.

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	95	65	33	30			57			8087851900							●				

Indexable grip jaw 3 mm, width 40 mm, movable

▲ Price per piece

Price per piece



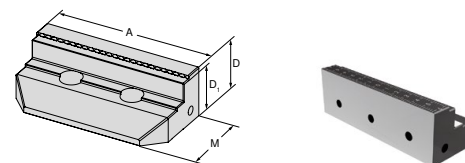
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80	40	28	25			40			8087881900				●			●				

System jaws overview

Indexable jaw, grip 3 mm, height 40 mm, movable

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40	37			59		

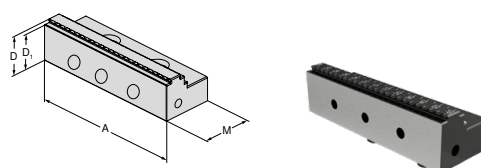


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80878520							●				

Indexable jaw, grip 3 mm, movable

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	25			40		
125	125		33	30			57		
160	160		50	47			81		

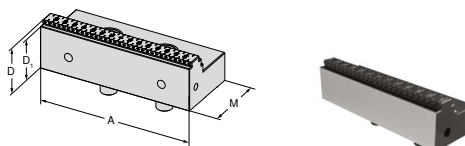


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80878810				●	●		●		●		
80878510					●		●				
80878610				●	●		●				

Indexable jaw, grip 5 mm, movable

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	23			41		
125	125		33	28			57		
160	160		50	45			81		

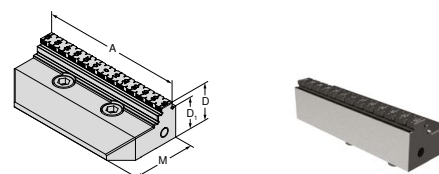


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8087881400				●			●		●		
8087851400							●				
8087834300				●			●				

Indexable grip jaw, for aluminium and plastic

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	23			40		
125	125		33	28			57		

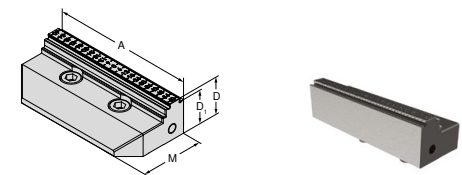


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8087881500							●				
8087851500							●				

System jaws overview

Indexable jaw with embossed profile, movable

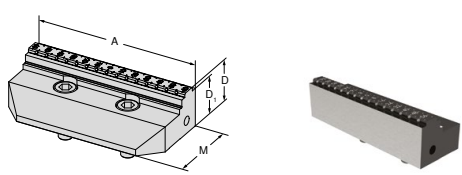
- ▲ Price per piece
- ▲ suitable for LANG embossed profile



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28	25			40			8087881800							●				
125	125		33	30			57			8087851800							●				

Indexable jaw, carbide, grip 3 mm, movable

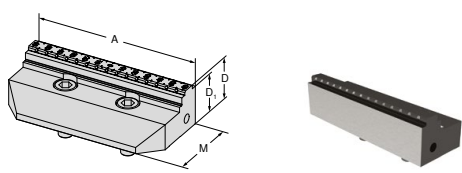
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28	25			40			8087881600							●				
125	125		33	30			57			8087851600							●				
160	160		50	47			81			8087831700							●				

Indexable jaw, carbide, grip 5 mm, movable

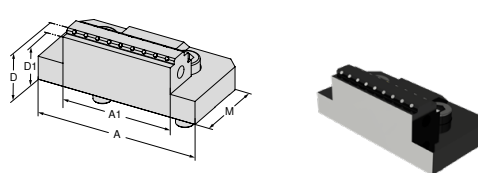
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28	23			40			8087881700							●				
125	125		33	28			57			8087851700							●				

Indexable jaw, carbide grip 3 mm, width 40 mm, movable

- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80	40	28	25			40			8087833200							●				

System jaws overview

Indexable jaw, carbide grip 3 mm, width 65 mm, movable

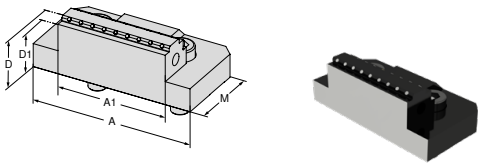
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125	65	33	30			57		

CW

8087833300

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
						●				



Indexable jaw, smooth, movable

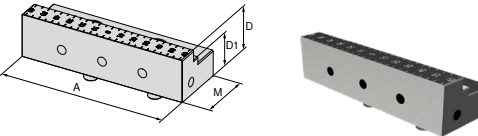
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	20			40		
125	125		33	25			57		

CW

8087834700
8087834600

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
				●		●				
				●		●				



Stepped jaw, smooth, movable

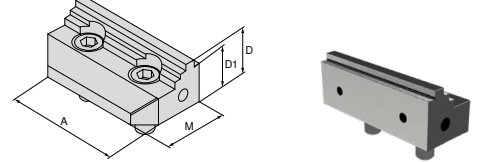
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	24			40		
125	125		33	27			57		

CW

8087834400
8087834500

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
						●				
						●				



Centre jaw, grip 3 mm, narrow

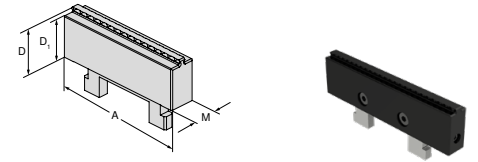
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	25			16		
125	125		33	30			16		

CW

8087831200
8087831300

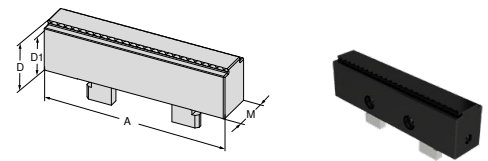
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
						●				
						●				



System jaws overview

Centre jaw, grip 3 mm, wide

▲ Price per piece

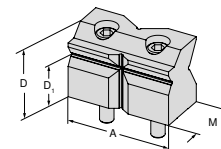
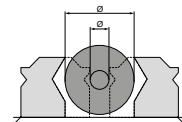


											CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG		
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂															
80	80		28	25			24																	
125	125		33	30			26																	
											8087833400							●						
											8087833500								●					

Prism jaw, movable

▲ With horizontal and vertical prism

▲ Price per piece

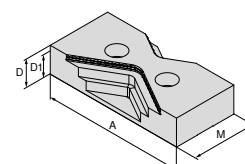
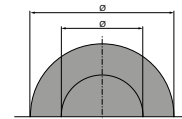


										CW	NCG	HGG / -S / -Z	XGG-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For clamping diameter	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
10 - 60	80		52	32			38,5															
10 - 80	125		67	42			57			80 878 31800							●					
										80 878 31900							●					

Prism jaw, movable

▲ With horizontal prism

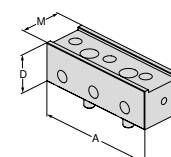
▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For clamping diameter	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
15 - 75	80		25	20			40			80 878 34000							●					
25 - 110	125		25	20			57			80 878 34100							●					
30 - 170	160		30	25			81			80 878 34200							●					

Combi jaw, movable

▲ Price per piece

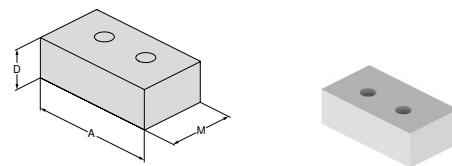


For vice width										A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	HSG / -S / -Z	XSG-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG			
125										125		40					45.5				80878530							●					

System jaws overview

Alu jaw, movable

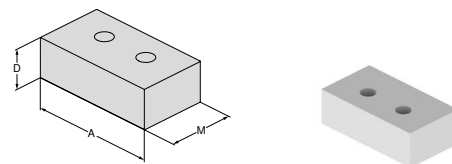
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28				48			80878850				●	●		●		●		
125	125		40				68			80878550				●					●		
160	160		50				85			80878305				●	●		●				

Soft jaw, steel, movable

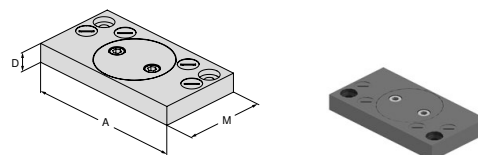
- ▲ Material: 16MnCr5
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28				48			8087832000				●	●		●				
125	125		40				68			8087832100				●	●		●				

Pendulum jaw, movable

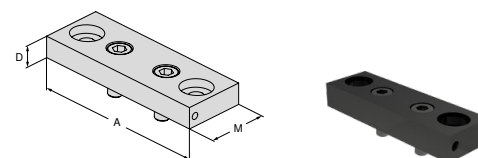
- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	125		19				76			80878870				●			●		●		
125	180		22				95			80878570				●			●		●		
160	256		22				170			80878670				●			●		●		

Adapter Jaw

- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

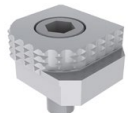
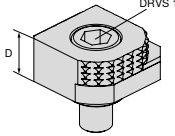


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	125		19				39			80878890							●				
125	180		22				62			80878590							●				
160	256		22				125			80878690							●				

System jaws overview

6 function indexable jaw

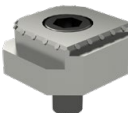
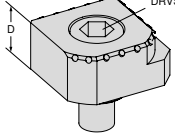
- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws



	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892246	●	●	●	●			●		●	●	

6x indexable jaw, carbide grip

- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8 mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws



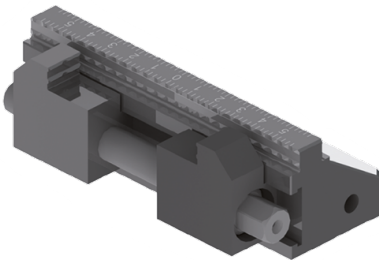
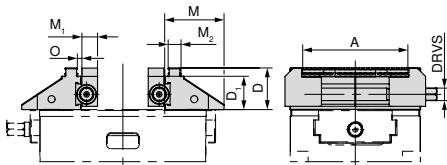
	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089035300	●	●	●	●			●		●	●	

System jaws overview

CoreLine – 6 face jaw system for 125 mm jaw width

Scope of supply:
2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

ZSG
4



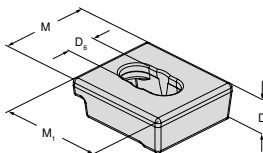
for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	DRVS mm	WT kg
125	37 - 101	40	32	57	15	12,4	3,3	12	3,8

CW
80 878 ...
525

System accessories overview

Clamping claws

▲ Price for 2 pieces



D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW
80 890 ...
315

Torque Wrench

▲ without socket

ESG 4	ESG mini	HDG 2	ZSG 4	ZSG mini	DSG 4	X5G -Z
-------	----------	-------	-------	----------	-------	--------



TQX
Nm
10 - 100
20 - 200

AS
80 884 ...
502
504

System accessories overview

Clamping Handle with Joint

▲ without socket

- H5G
-Z
- H5G
-Z-S
- ESG
4
- ESG
mini
- ZSG
4



Square		CW
1/2"		80 891 ...
		600

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

- NCG
- H5G
- ESG
4
- HDG
2
- ZSG
4
- DSG
4
- Verso



for slot width	G	CW
mm		80 890 ...
12	M10	308
14	M12	309
16	M14	310
18	M16	311

System accessories overview

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

- ESG
4
- ZSG
4
- DSG
4



for width mm	G	CW	
12	M10	80 899 ...	
14	M12		312 ¹⁾
16	M12		314
18	M12		316
			318

1) Version with washers

Socket

▲ Suitable for 1/2" or 3/8" square drive

- ESG
4
- ZSG
4
- DSG
4



DRVS mm	AS	
12	80 875 ...	
14		212
		214

System accessories overview

Dowel screw

▲ Price for 2 pieces

- H5G
- ESG
4
- ZSG
4
- DSG
4
- MNG
- X5G
-Z



for width mm	G	J mm
125	M12x45	12

CW

80 895 ...

019

ZSG mini



Centric vice for small parts

ZSG mini in mechanical version with high clamping force and quick change jaws. Ideal for blank and finished part machining, multi-clamping and automation.

Your benefits:

- ▲ Fast jaw changeover without tools
- ▲ Compact and precise
- ▲ Optimum accessibility from all sides
- ▲ Exchangeable jaw widths (45 mm and 70 mm)
- ▲ High clamping force and large clamping range
- ▲ Clamping system for automation
- ▲ Stainless, hardened base body



Clamping/aligning:



Clamping with two M6 screws from above through the base body.



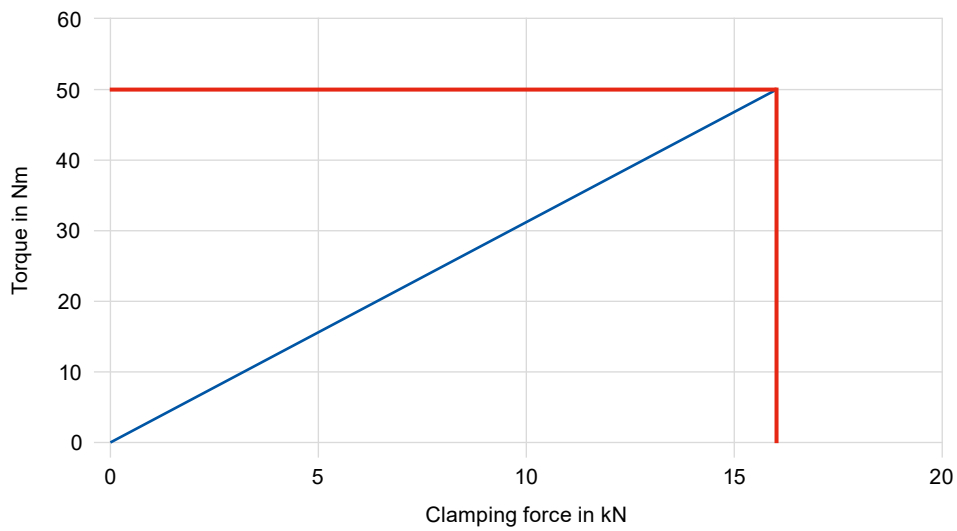
Clamping with two M6 screws from above through the base body. Alignment can be performed using $\varnothing 12^{H7}$ precision holes.



Both versions come with mounting holes for the LANG zero point clamping system, Quick Point 52 x 52.

Clamping force:

ZSG mini tightening torque/clamping force



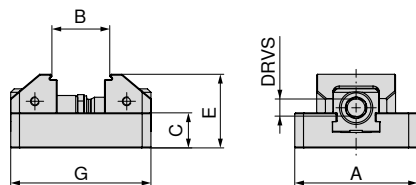
CoreLine – Centric vice for small parts without system jaws – ZSG mini

- ▲ Fast jaw changeover without tools
- ▲ Compact and precise
- ▲ Optimum accessibility from all sides
- ▲ Exchangeable jaw widths (45 mm and 70 mm)
- ▲ Stainless, hardened base body

Scope of supply:

ZSG mini base body with spindle

ZSG mini	MNG mini	52 x 52
---------------------	---------------------	----------------



A mm	B mm	C mm	E mm	G mm	MXC kN	DRVS mm	WT kg
70	7 - 57	20	42	80	16	11	0,9
70	7 - 77	20	42	100	16	11	1,1

CW

80 912 ...

07000

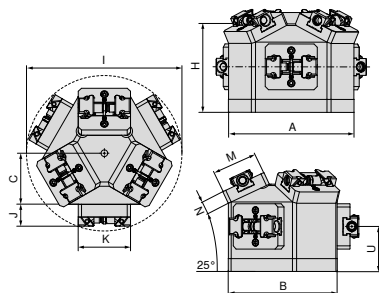
07100

CoreLine – 6-sided clamping tower – ZSG mini

Scope of supply:

6-sided clamping tower incl. ZSG mini L-80 mm without system jaws

**ZSG
mini**



A mm	B mm	C mm	H mm	I mm	J mm	K mm	M mm	N mm	U mm	WT kg
193,24	169,40	78	135,7	236	33,7	80	70,4	20	70	13,5

CW

80 912 ...

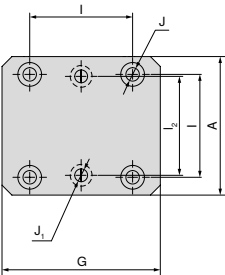
55000

Vice guide

→ Underside Dimensions	→ Workpiece location
→ Structural dimension tables for the different jaws	→ General accessories
→ System accessories	→ Clamping lever
→ MNG-/PNG zero point clamping system	→ Screws
→ General top jaws	

ZSG mini underside dimensions

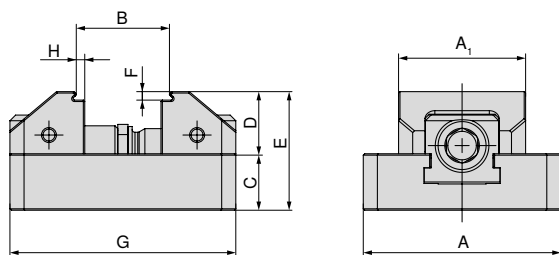
Base width 70 mm



A mm	J ₁ mm	J _{H7} mm	I ₂ ±0,01 mm	I ±0,01 mm	G mm
70	6,5	12	50	52	80
70	6,5	12	50	52	100

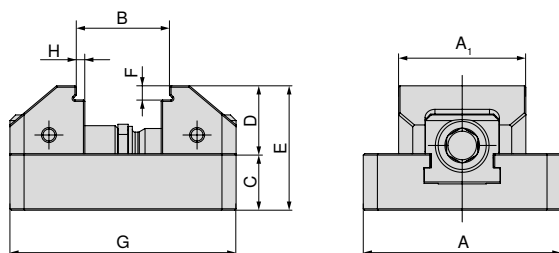
ZSG Mini – structural dimension table for the different jaws

With quick change jaw, grip 3 mm



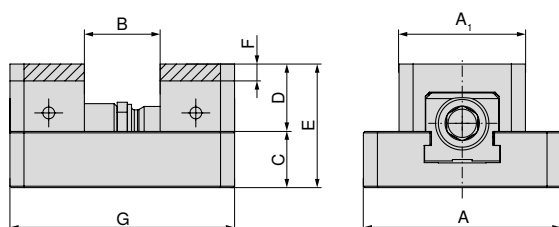
A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	7 - 33	20	22	42	3	80	3	2 x 8091230100
70	70	7 - 33	20	22	42	3	80	3	2 x 8091230200
70	45	7 - 53	20	22	42	3	100	3	2 x 8091230100
70	70	7 - 53	20	22	42	3	100	3	2 x 8091230200

With quick change jaw, smooth step 5 mm



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	7 - 33	20	24	44	5	80	3	2 x 8091230300
70	70	7 - 33	20	24	44	5	80	3	2 x 8091230400
70	45	7 - 53	20	24	44	5	100	3	2 x 8091230300
70	70	7 - 53	20	24	44	5	100	3	2 x 8091230400

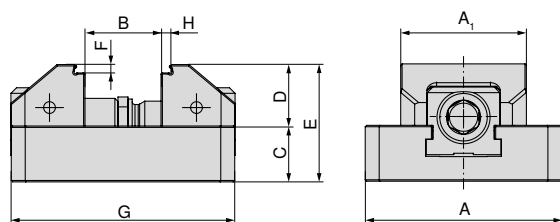
With quick change jaw, soft, steel



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	Article no. System jaws
70	45	0 - 26	20	24	44	6	80	2 x 8091231000
70	70	0 - 26	20	24	44	6	80	2 x 8091231100
70	45	0 - 46	20	24	44	6	80	2 x 8091231000
70	70	0 - 46	20	24	44	6	80	2 x 8091231100

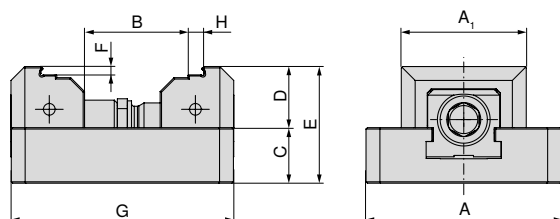
ZSG Mini – structural dimension table for the different jaws

With quick change jaw embossed profile



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	7 - 32	20	22	44	3	80	3	2 x 8091231200
70	70	7 - 32	20	22	44	3	80	3	2 x 8091231300
70	45	7 - 52	20	22	44	3	100	3	2 x 8091231200
70	70	7 - 52	20	22	44	3	100	3	2 x 8091231300

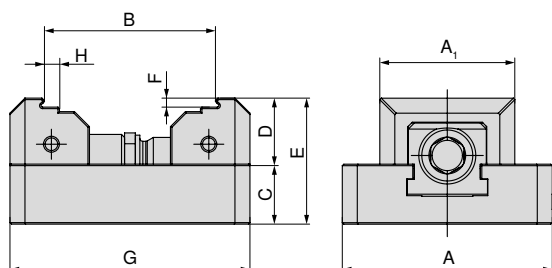
With quick change jaw embossed profile, VS



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	31 - 56	20	22	44	3	80	5	2 x 8091231400
70	70	31 - 56	20	22	44	3	80	5	2 x 8091231500
70	45	31 - 76	20	22	44	3	100	5	2 x 8091231400
70	70	31 - 76	20	22	44	3	100	5	2 x 8091231500

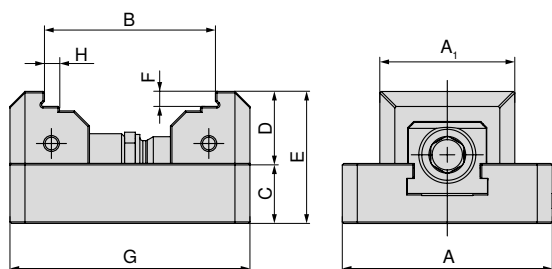
ZSG Mini – structural dimension table for the different jaws

With quick change jaw, VS, grip 3 mm



A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	31 - 57	20	22	42	3	80	5	2 x 8091230500
70	70	31 - 57	20	22	42	3	80	5	2 x 8091230600
70	45	31 - 77	20	22	42	3	100	5	2 x 8091230500
70	70	31 - 77	20	22	42	3	100	5	2 x 8091230600

With quick change jaw, VS, smooth 5 mm

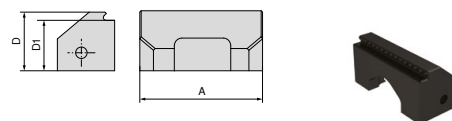


A mm	A ₁ mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article no. System jaws
70	45	31 - 56	20	24	44	5	80	5	2 x 8091230700
70	70	31 - 56	20	24	44	5	80	5	2 x 8091230800
70	45	31 - 76	20	24	44	5	100	5	2 x 8091230700
70	70	31 - 76	20	24	44	5	100	5	2 x 8091230800

System jaws overview

Quick change jaw, grip 3 mm

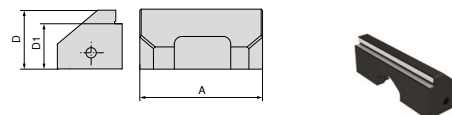
▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		22	19						8091230100								●			
70	70		22	19						8091230200								●			

Quick change jaw, smooth step 5 mm

▲ Price per piece

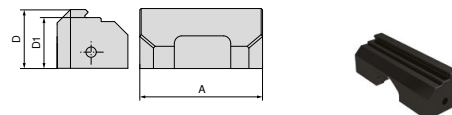


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		24	19						8091230300								●			
70	70		24	19						8091230400								●			

Quick change jaw, VS, grip 3 mm

▲ Price per piece

▲ VS = Larger clamping range

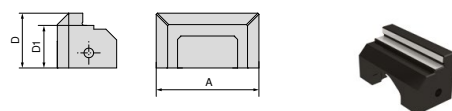


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		22	19						8091230500								●			
70	70		22	19						8091230600								●			

Quick change jaw, VS, smooth 5 mm

▲ Price per piece

▲ VS = Larger clamping range

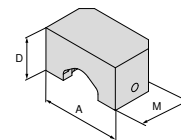


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		24	19						8091230700								●			
70	70		24	19						8091230800								●			

System jaws overview

Quick change jaw, soft, steel

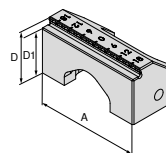
- ▲ Material: 15NiCr13
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		24				26,5			8091231000								●			
70	70		24				26,5			8091231100								●			

Quick change jaw embossed profile

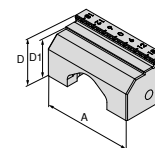
- ▲ Price per piece
- ▲ suitable for LANG embossed profile



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		22	19						8091231200								●			
70	70		22	19						8091231300								●			

Quick change jaw embossed profile, VS

- ▲ Price per piece
- ▲ Suitable for LANG embossed profile
- ▲ VS = Larger clamping range



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
70	45		22	19						8091231400								●			
70	70		22	19						8091231500								●			

System accessories overview

Socket

▲ Suitable for 3/8" square drive

ZSG
mini



Square	DRVS mm	AS 80 875 ... 11100
3/8"	11	

→ Here you will find the suitable „magnetic workpiece stop“ and „torque key“ (article numbers **80 892 23800** and **80 884 402**).

Torque key

▲ without socket

ZSG
miniMSG
2VersoMNG



TQX Nm	Square	AS 80 884 ... 402
5 - 50	3/8"	

System accessories overview

Allen cap screw

▲ Price per piece

ZSG
mini



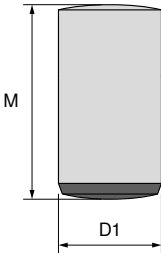
G
M6x25

CW
80 912 ...
50100

Cylindrical pin

▲ Price per piece

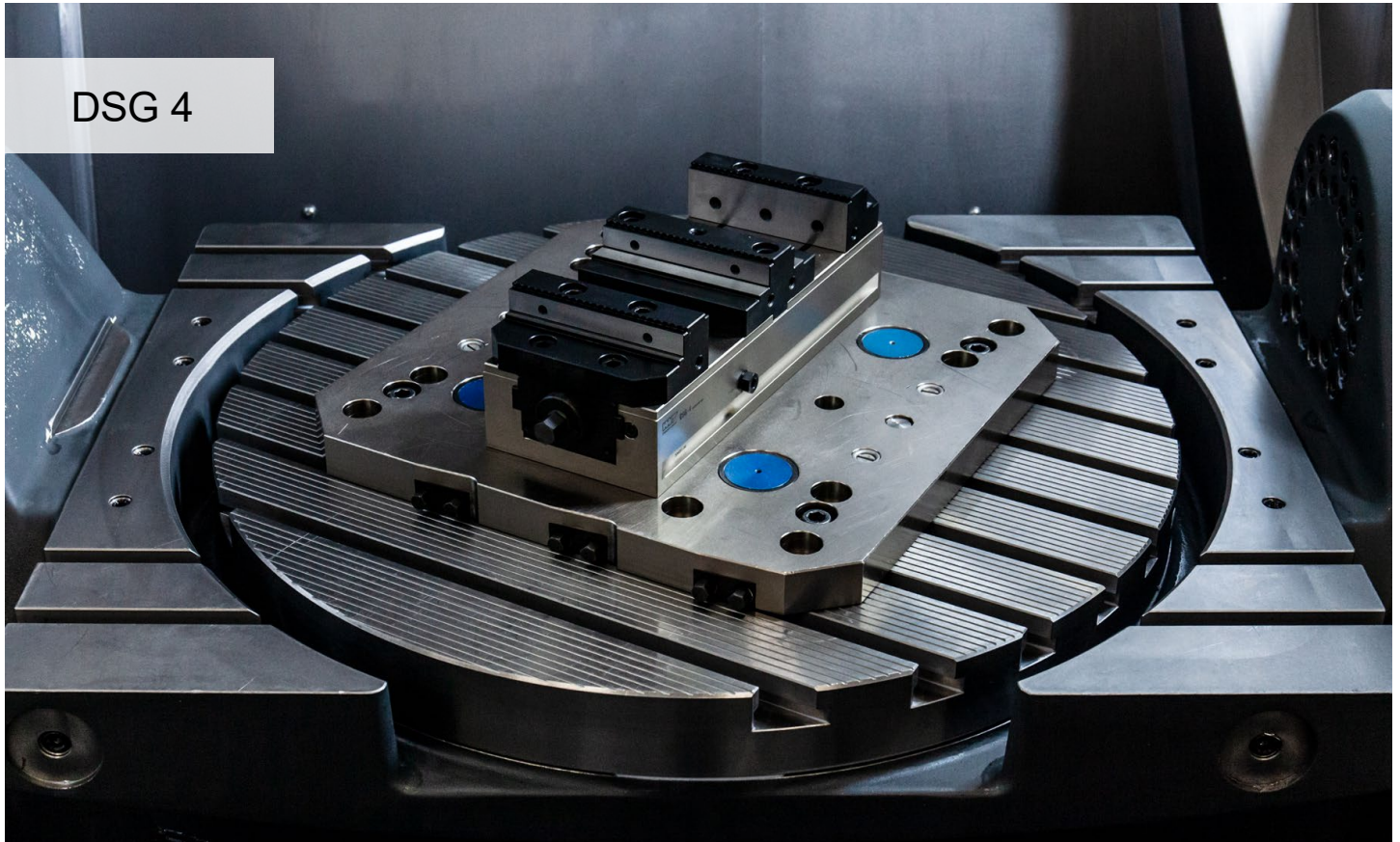
ZSG
mini



D1 m6 mm	M mm
12	18

CW
80 912 ...
50200

DSG 4



High accuracy and efficiency

The user-friendly DSG 4 clamping system guarantees consistently high precision and a wide application range.

Your benefits:

- ▲ Straightforward, stable third-hand function
- ▲ Quick and easy positioning on the MNG zero point clamping system
- ▲ High clamping force between 5 – 40 kN with low tightening torque
- ▲ Quick and easy jaw change with 2 screws
- ▲ Extensive modular jaw range

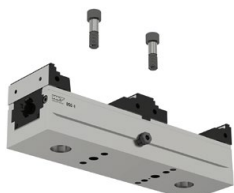
Clamping/aligning:



Mounting with MNG zero point clamping system (2-3 mounting bolts)



Mounting through the base body with four M8 screws



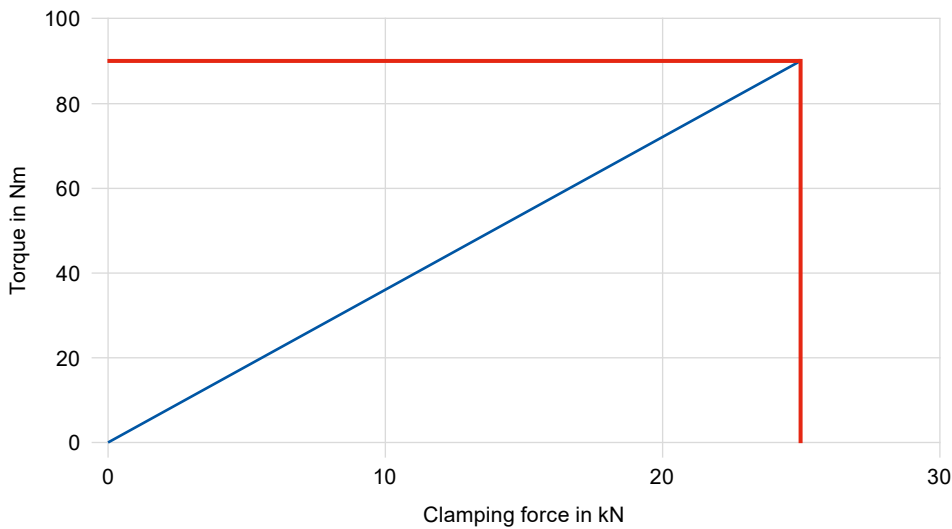
Mounting through the base body with two dowel screws **Article no. 80 895 019**



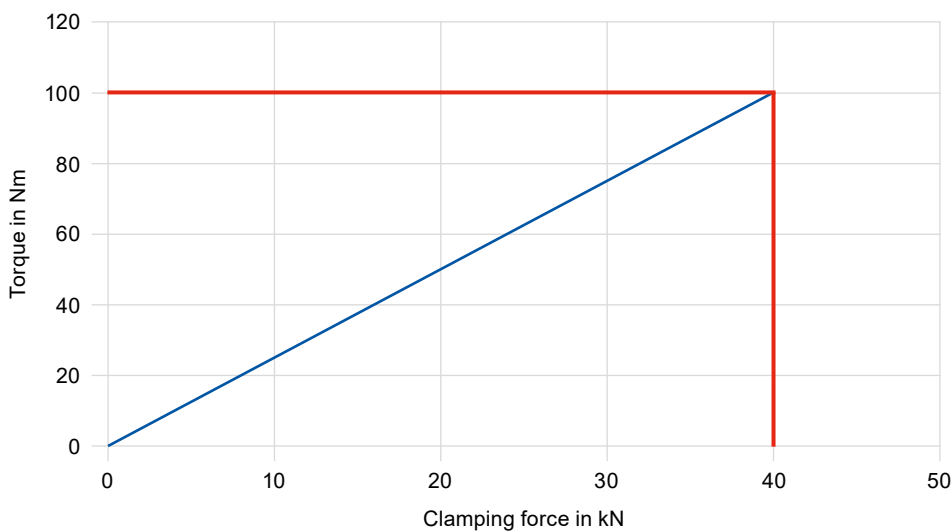
Mounting with 4-6 clamping claws **Article no. 80 890 315**

Clamping force:

DSG 4 – 80 mm tightening torque / clamping force



DSG 4 – 125 mm tightening torque / clamping force



'Third hand' operation

The third-hand operation function on the DSG 4 is ensured by pre-loading the rear slide with compression springs.



The lateral clamping screw A is not tightened, instead it is open approx. 1/2 turn. When the vice is fully open, the movable jaws B and C are to be placed in the appropriate slots of slides D and E and secured according to the workpiece size. Two workpieces of different sizes can also be clamped.

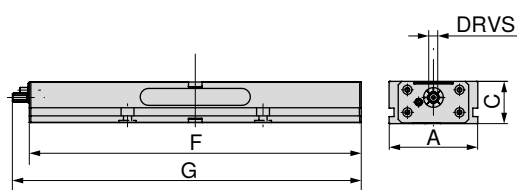
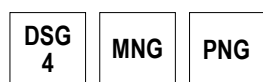
Conversion to single vice



The rear slide is blocked via the hexagon socket grub screw and the DSG 4 can also be used as a single vice. **Important note:** Not suitable for using several vices as single vice next to one another. In this case, we advise modification with additional transverse slot in the base body and suitable fixed jaw.

CoreLine – double vice without system jaws – DSG 4

- ▲ 100 % encapsulated
- ▲ fast assembly and disassembly
- ▲ flexible clamping system



A mm	C mm	F mm	G mm	TQX Nm	DRVS mm	MXC kN	WT kg
80	55	300	308	90	12	0 - 25	8
125	60	320	347	100	14	0 - 40	14
125	60	390	417	100	14	0 - 40	17
125	60	460	487	100	14	0 - 40	20
125	60	530	557	100	14	0 - 40	24
125	60	600	627	100	14	0 - 40	27
125	60	670	697	100	14	0 - 40	30
125	60	740	767	100	14	0 - 40	34

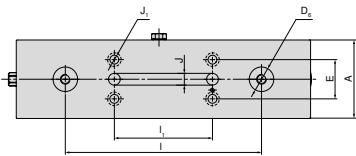
CW
80 906 ...
080
125
12700
12800
12900
13000
13100
126

Vice guide

→ Underside Dimensions	→ General top jaws
→ Structural dimension tables for the different jaws	→ Workpiece location
→ System jaws	→ General accessories
→ 'Third hand' operation	→ Clamping lever
→ Conversion to single vice	→ Screws
→ MNG-/PNG zero point clamping system	

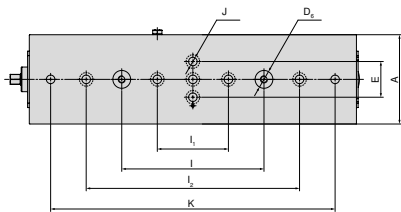
DSG 4 underside dimensions

Base width 80 mm and length 300 mm



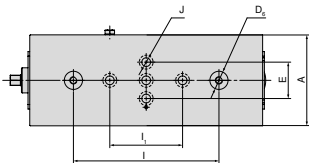
A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	J H7 mm	J ₁ mm
80	25	40	200	100	12	9

Base width 125 mm and length 460 mm,
530 mm



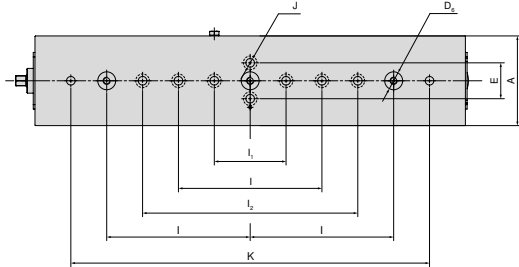
A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	I ₂ ±0,002 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	12	400
125	25	50	200	100	300	12	500

Base width 125 mm and length 320 mm



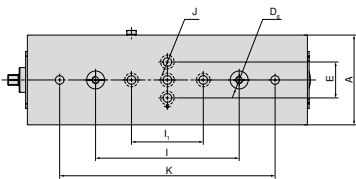
A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	J H7 mm
125	25	50	200	100	12

Base width 125 mm and length 600 mm



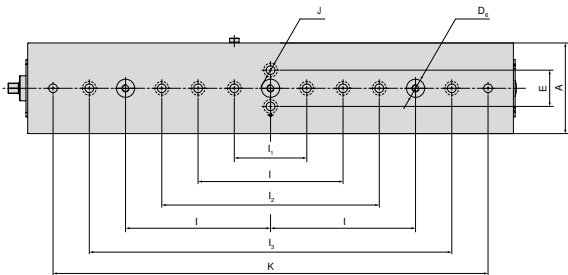
A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	I ₂ ±0,002 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	12	500

Base width 125 mm and length 390 mm



A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	12	300

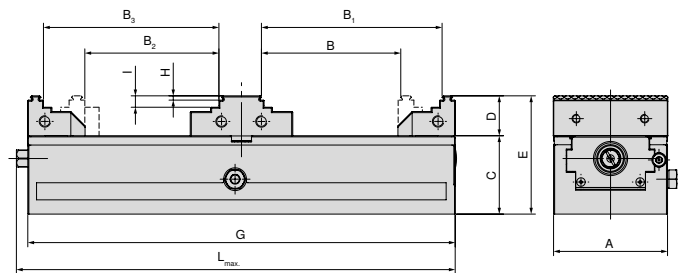
Base width 125 mm and length 670 mm,
740 mm



A mm	D ₆ H6 mm	E ±0,015 mm	I ±0,01 mm	I ₁ ±0,01 mm	I ₂ ±0,002 mm	I ₃ ±0,025 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	500	12	600
125	25	50	200	100	300	500	12	700

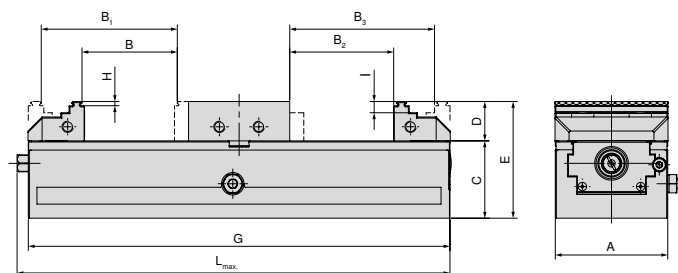
DSG 4 structural dimension table for the different jaws

With indexable jaws, grip and centre jaw, grip



A mm	B mm	B ₁ mm	B ₂ mm	B ₃	C mm	D mm	E mm	G mm	H mm	I mm	Lmax. mm	Article no. System jaws	
80	25 - 97	54 - 126	31 - 93	51 - 122	55	28	83	300	3	8	308	2 x	80878810 + 80906300
125	40 - 86	75 - 121	42 - 79	68 - 114	60	40	100	320	3	18	347	2 x	80901303 + 80906304
125	40 - 121	75 - 156	42 - 114	68 - 149	60	40	100	390	3	18	417	2 x	80901303 + 80906304
125	40 - 156	75 - 191	42 - 149	68 - 184	60	40	100	460	3	18	487	2 x	80901303 + 80906304
125	40 - 191	75 - 226	42 - 184	68 - 219	60	40	100	530	3	18	557	2 x	80901303 + 80906304
125	40 - 226	75 - 261	42 - 219	68 - 254	60	40	100	600	3	18	627	2 x	80901303 + 80906304
125	40 - 261	75 - 296	42 - 254	68 - 289	60	40	100	670	3	18	697	2 x	80901303 + 80906304
125	40 - 296	75 - 331	42 - 289	68 - 324	60	40	100	740	3	18	767	2 x	80901303 + 80906304

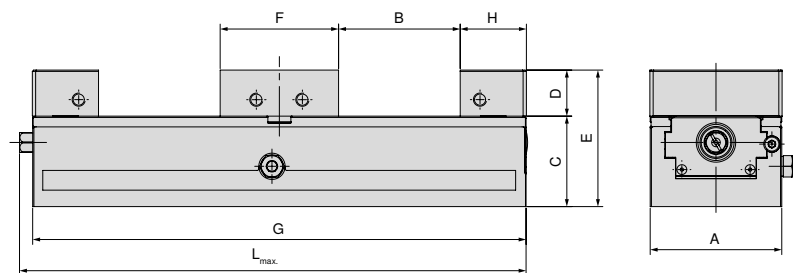
With indexable jaws, grip and centre jaw, smooth



A mm	B mm	B ₁ mm	B ₂ mm	B ₃	C mm	D mm	E mm	G mm	H mm	I mm	Lmax. mm	Article no. System jaws	
80	5 - 67	34 - 96	0 - 73	40 - 102	55	28	83	300	3	8	308	2 x	80878810 + 80906301
125	7 - 44	42 - 77	0 - 47	46 - 82	60	40	100	320	3	18	347	2 x	80901303 + 80906305
125	7 - 79	42 - 112	0 - 82	46 - 117	60	40	100	390	3	18	417	2 x	80901303 + 80906305
125	7 - 114	42 - 149	0 - 117	46 - 152	60	40	100	460	3	18	487	2 x	80901303 + 80906305
125	7 - 147	42 - 182	0 - 152	46 - 187	60	40	100	530	3	18	557	2 x	80901303 + 80906305
125	7 - 184	42 - 217	0 - 187	46 - 222	60	40	100	600	3	18	627	2 x	80901303 + 80906305
125	7 - 219	42 - 252	0 - 222	46 - 257	60	40	100	670	3	18	697	2 x	80901303 + 80906305
125	7 - 254	42 - 287	0 - 257	46 - 292	60	40	100	740	3	18	767	2 x	80901303 + 80906305

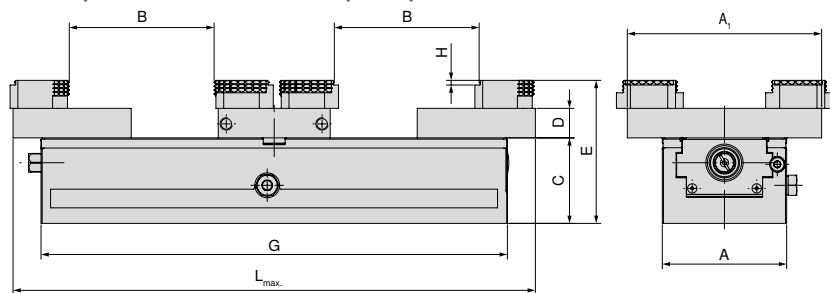
DSG 4 structural dimension table for the different jaws

With block jaws and centre jaw smooth



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Lmax. mm	Article no. System jaws	
80	0 - 73	55	28	83	72	300	40	308	2 x	8090131300 + 80906301
125	0 - 46	60	40	100	98	320	66	347	2 x	8090131500 + 80906305
125	0 - 81	60	40	100	98	390	66	417	2 x	8090131500 + 80906305
125	0 - 116	60	40	100	98	460	66	487	2 x	8090131500 + 80906305
125	0 - 151	60	40	100	98	530	66	557	2 x	8090131500 + 80906305
125	0 - 186	60	40	100	98	600	66	627	2 x	8090131500 + 80906305
125	0 - 221	60	40	100	98	670	66	697	2 x	8090131500 + 80906305
125	0 - 256	60	40	100	98	740	66	767	2 x	8090131500 + 80906305

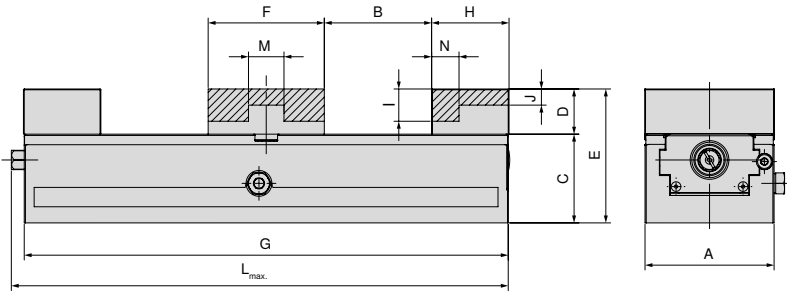
With pendulum and adapter plate



A mm	A ₁ mm	B mm	C mm	D mm	E mm	G mm	H mm	Lmax. mm	Article no. System jaws	
80	125	0 - 92	55	19	92	300	3	308	2 x	80878870 + 80906303
125	180	7 - 92	60	22	100	320	3	365	2 x	80878570 + 80906307
125	180	7 - 133	60	22	100	390	3	435	2 x	80878570 + 80906307
125	180	7 - 168	60	22	100	460	3	505	2 x	80878570 + 80906307
125	180	7 - 203	60	22	100	530	3	575	2 x	80878570 + 80906307
125	180	7 - 238	60	22	100	600	3	645	2 x	80878570 + 80906307
125	180	7 - 273	60	22	100	670	3	715	2 x	80878570 + 80906307
125	180	7 - 308	60	22	100	740	3	785	2 x	80878570 + 80906307

DSG 4 structural dimension table for the different jaws

With aluminium jaws and aluminium centre jaw



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Lmax. mm	M mm	N mm	Article no. System jaws	
80	0 - 66	55	28	83	72	300	40	20	10	308	22	17	2 x	80878850 + 80906302
125	0 - 42	60	40	100	98	320	68		17	347	38	28	2 x	80878550 + 80906306
125	0 - 77	60	40	100	98	390	68		17	417	38	28	2 x	80878550 + 80906306
125	0 - 112	60	40	100	98	460	68		17	487	38	28	2 x	80878550 + 80906306
125	0 - 147	60	40	100	98	530	68		17	557	38	28	2 x	80878550 + 80906306
125	0 - 182	60	40	100	98	600	68		17	627	38	28	2 x	80878550 + 80906306
125	0 - 217	60	40	100	98	670	68		17	697	38	28	2 x	80878550 + 80906306
125	0 - 252	60	40	100	98	740	68		17	767	38	28	2 x	80878550 + 80906306

System jaws overview

Indexable jaw, grip 3 mm, movable

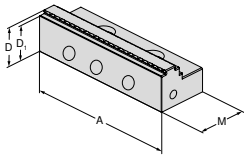
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
125	125		40	37			66		

CW

80901303

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
			●	●				●		



Indexable jaw, grip 3 mm, movable

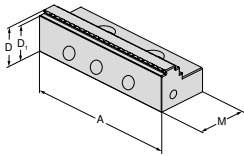
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	25			40		

CW

80878810

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
			●	●		●		●		



Centre jaw, grip

▲ Price per piece

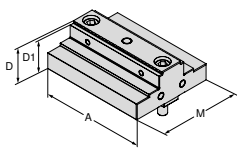
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28	25			72		
125	125		40	37			98		

CW

80906300

80906304

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
								●		
								●		



Centre jaw, smooth

▲ Price per piece

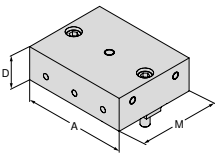
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
80	80		28				72		
125	125		40				98		

CW

80906301

80906305

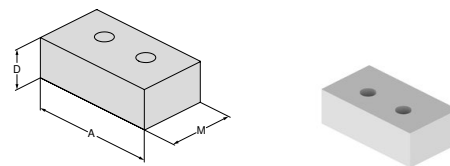
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
								●		
								●		



System jaws overview

Alu jaw, movable

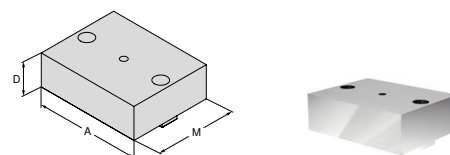
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28				48			80878850				●	●		●		●		
125	125		40				68			80878550				●					●		

Centre jaw, Alu

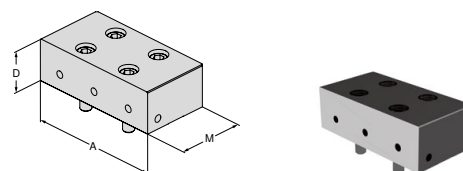
- ▲ for producing shaped jaws
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28				72			80906302									●		
125	125		40				98			80906306									●		

Block jaw, movable

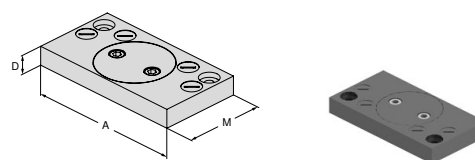
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	80		28				40			8090131300				●	●		●		●		
125	125		40				66			8090131500				●					●		

Pendulum jaw, movable

- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

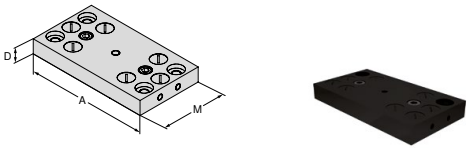


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	125		19				76			80878870				●			●		●		
125	180		22				95			80878570				●			●		●		

System jaws overview

Centre jaw adapter plate, fixed

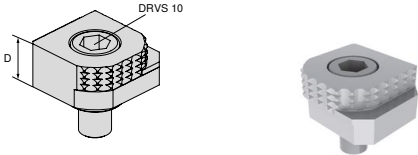
- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece



											CW	NCG	H5G /-S / -Z	X5G-Z/-S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
80	125		19				72															
125	180		22				98				80906303									●		
											80906307									●		

6 function indexable jaw

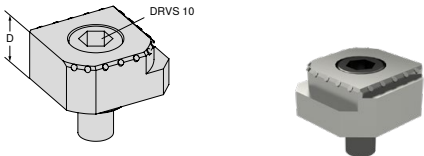
- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂												
18										80892246	●	●	●	●			●		●	●	

6x indexable jaw, carbide grip

- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8 mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws



										CW	NCG	H5G /-S /-Z	X5G-Z/-S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
18										8089035300	●	●	●	●			●		●	●		

System accessories overview

Plastic protection plugs

DSG
4

G

M10x12

CW

80 906 ...

500



Clamping claws

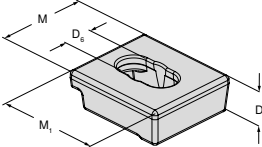
▲ Price for 2 pieces

M

D_s

M₁

D



D	D _s	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW

80 890 ...

315



System accessories overview

Torque Wrench

▲ without socket

- ESG
4
- ESG
mini
- HDG
2
- ZSG
4
- ZSG
mini
- DSG
4



TQX
Nm

10 - 100

AS

80 884 ...

502

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

- ESG
4
- ZSG
4
- DSG
4



for width mm	G
12	M10
14	M12
16	M12
18	M12

CW

80 899 ...

312 ¹⁾

314

316

318

1) Version with washers

System accessories overview

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

NCG	H5G	ESG 4	HDG 2	ZSG 4	DSG 4	Verso
-----	-----	----------	----------	----------	----------	-------



for slot width		G		CW	
mm				80 890 ...	
12		M10			308
14		M12			309
16		M14			310
18		M16			311

Socket

- ▲ Suitable for 1/2" or 3/8" square drive

ESG 4	ZSG 4	DSG 4
----------	----------	----------



DRVS		AS	
mm		80 875 ...	
12			212
14			214

System accessories overview

Dowel screws

▲ Price for 2 pieces

NCG

ESG
4



for width mm	G	J mm
100	M12x38	12

CW

80 890 ...

313

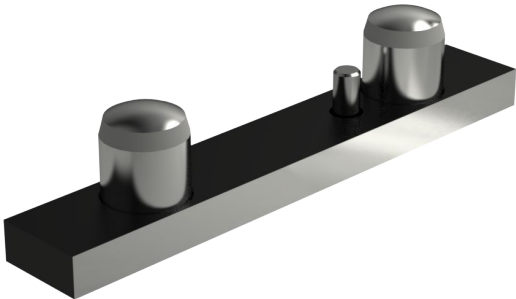
Alignment and centering kit for T-slots

▲ Price per piece

H5G
-Z

ESG
4

DSG
4



I mm	for slot width mm
100	14
100	16
100	18

CW

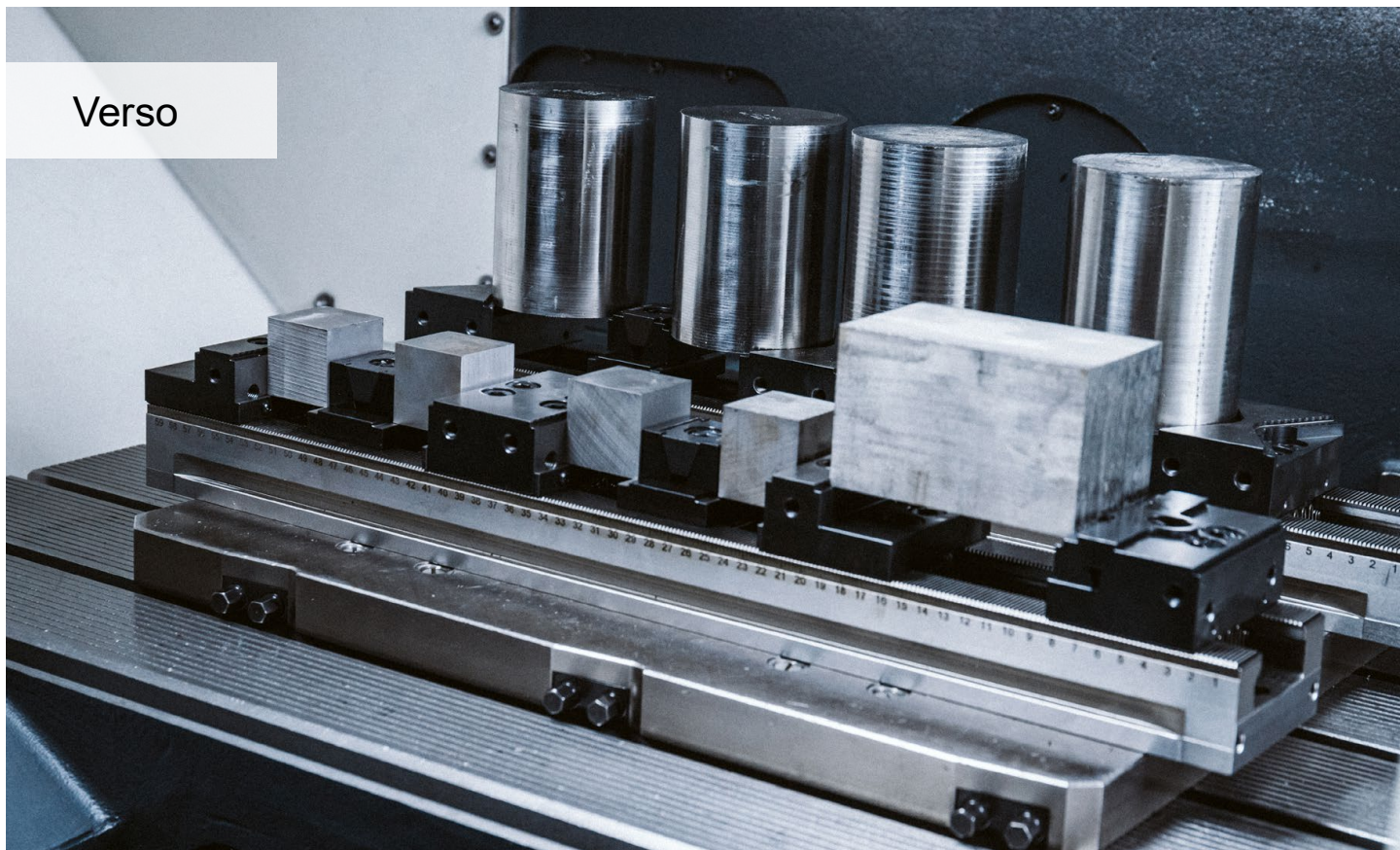
80 897 ...

114

116

118

Verso



The all-rounder for workpiece clamping

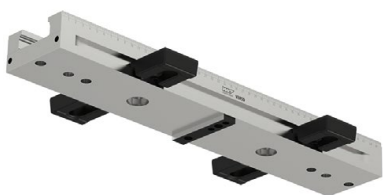
The new multiple vice enables you to easily clamp many small and large workpieces on a 3-, 4-, or 5-axis machine. Even slimmer jaws have further increased the part thickness.

Your benefits:

- ▲ Hardened and ground teeth ensure the highest level of precision and dimensional stability
- ▲ Fast jaw changeover system for fixed and adjustable jaws
- ▲ Full modular range for all types of machining centres
- ▲ Multi-clamping with wedge grip elements
- ▲ Extensive modular system jaw range
- ▲ Simple clamping bar extension with connecting element



Clamping/aligning:



Using T-slots or screws
Alignment in the T-slot (14, 16, 18 mm) with the matching alignment set for T-slots. For 12 mm T-slot: use two Ø 12 cylinder pins.



Using clamping claws
Alignment set and clamping using clamping claws attached at the side.



Using grid holes
Position and fasten the workpieces using two Ø12f7 / M12 dowel screws in the first and last holes of the clamping bar. Additional fastening using M12 cylindrical screws in the remaining holes.

Clamping/aligning:

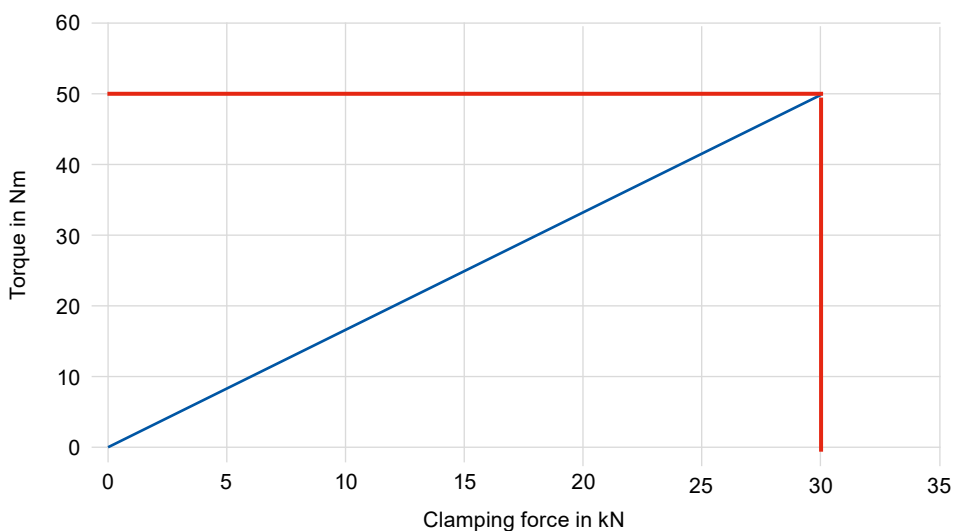


With a zero point clamping system

The clamping bar is equipped with MNG interfaces that enable MNG clamping bolts to be attached (up to a base body length of 500 mm = 2 clamping bolts / from 600 mm upwards = 3 clamping bolts).

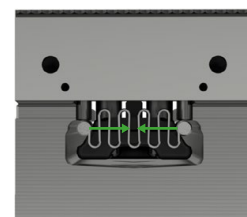
Clamping force:

Verso tightening torque/clamping force



Quick jaw change for fixed and adjustable jaws

The Verso multiple vice is equipped with a quick jaw change system as standard. Simply use the two screws to release, remove or reposition the fixed and adjustable jaw. The jaws are removed in an upwards direction, allowing each jaw to be removed individually, without taking out any others. This reduces the set-up time significantly.



Release position



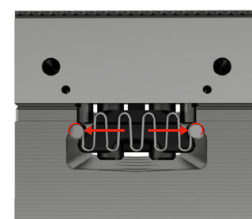
Undo screws



Take off and insert



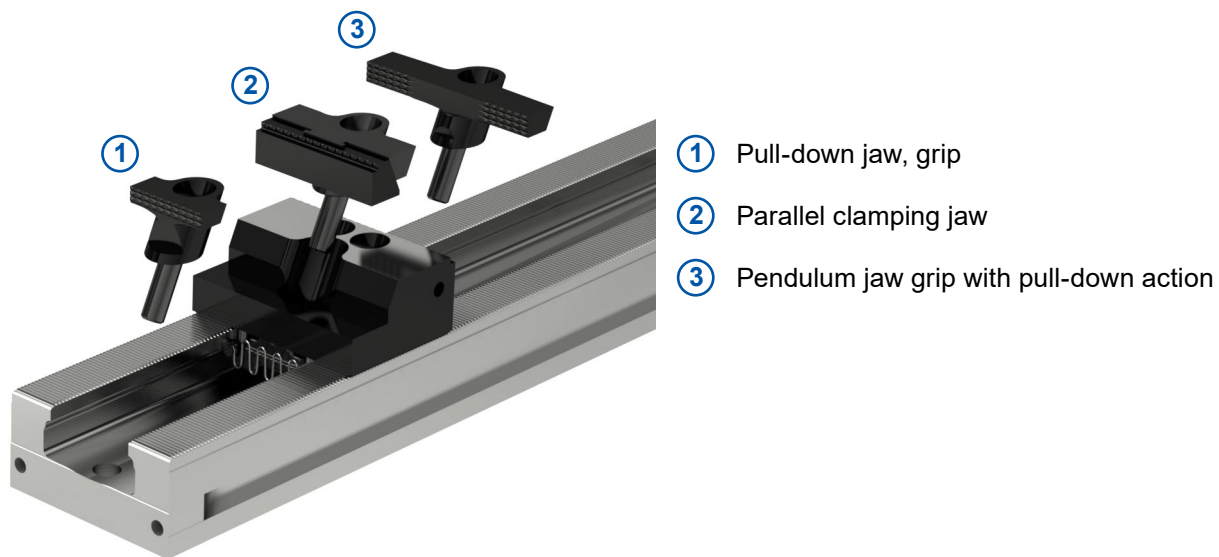
Tighten screws



Clamping position

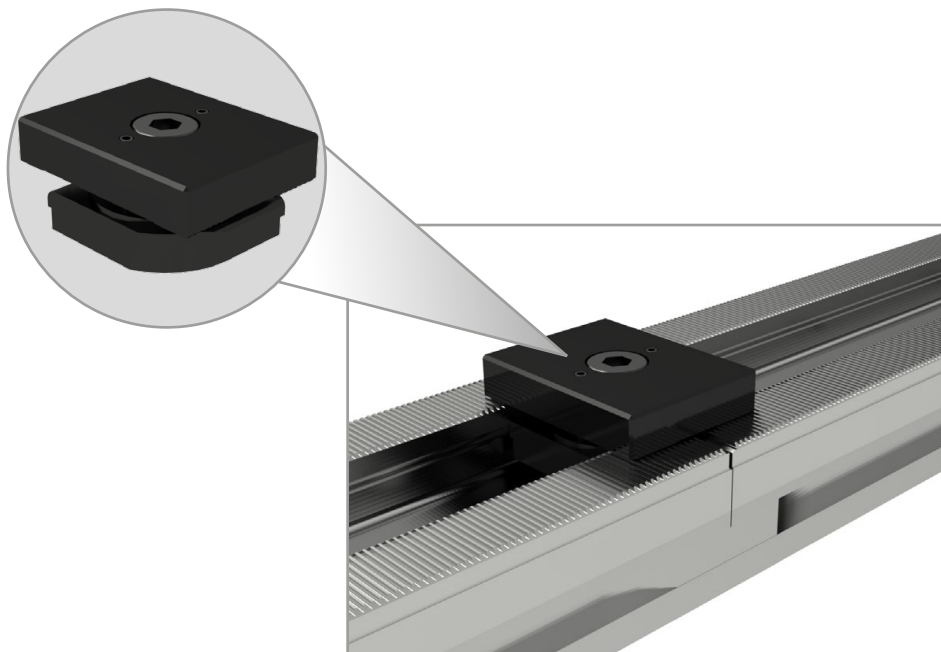
Quick jaw change

The fixed and adjustable jaws of the Verso multiple vice system are equipped with a quick jaw change system as standard. Two screws can be used to release and change the jaw, making jaw changes extremely quick.



Connecting the clamping bars

A connecting element allows two or more Verso clamping bars to be combined with one another or extended.

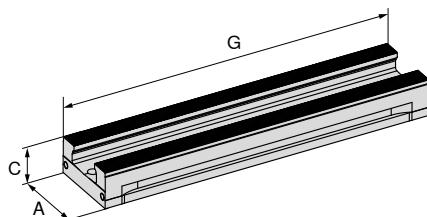
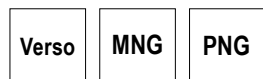


CoreLine – Multiple vice without system jaws – Verso

- ▲ For single and multi-clamping
- ▲ Multi-clamping with wedge grip elements
- ▲ Workpieces can be clamped on 3-, 4- or 5-axis machine
- ▲ Adapter plates for MNG available

Scope of supply:

Body without jaws



A mm	C mm	G mm	MXC kN	WT kg
90	45	260	0 - 50	5,0
90	45	400	0 - 50	7,7
90	45	500	0 - 50	9,6
90	45	600	0 - 50	11,5
90	45	650	0 - 50	12,5

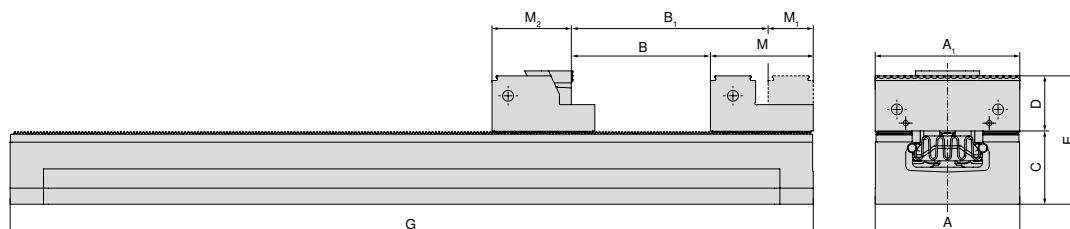
CW

80 914 ...

09000
09100
09200
09300
09400

Verso – Structural dimension table

Clamping rail



A mm	A ₁ mm	B mm	B ₁ mm	C mm	D mm	E mm	G mm	M mm	M ₁ mm	M ₂
90	40 / 65 / 90	145	181	45	35	80	260	64	28	53,5
90	40 / 65 / 90	285	321	45	35	80	400	64	28	53,5
90	40 / 65 / 90	385	421	45	35	80	500	64	28	53,5
90	40 / 65 / 90	485	521	45	35	80	600	64	28	53,5
90	40 / 65 / 90	535	571	45	35	80	650	64	28	53,5



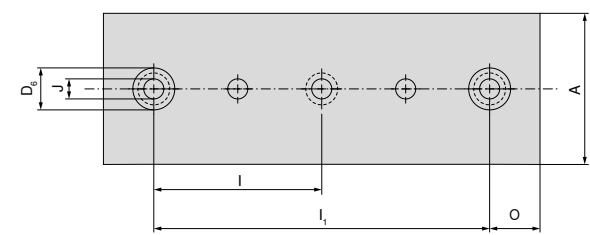
When using the 90 mm pendulum jaw grip and parallel clamping jaws, dimensions B, B₁ and M₂ will differ.

Vice guide

- Quick change reversible jaws
- Underside Dimensions
- Overview of clamping ranges
- System jaws overview
- MNG-/PNG zero point clamping system
- General top jaws
- Workpiece location
- General accessories
- Clamping lever
- Screws

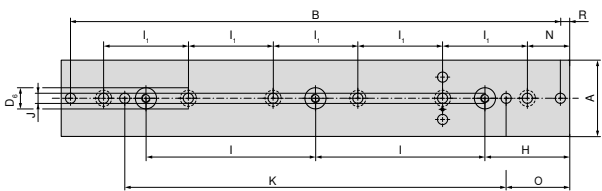
Verso underside dimensions

Base width 90 mm and length 260 mm



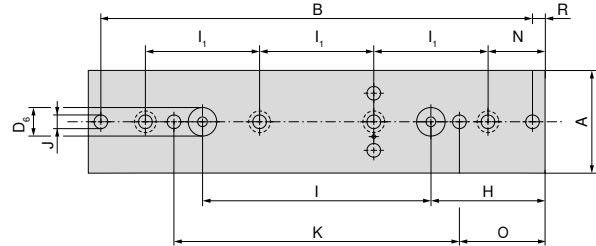
A	D ₆ H7	I ±0,015	I ₁ ±0,015	J F7	O ±0,015
mm	mm	mm	mm	mm	mm
90	25	100	200	12	30

Base width 90 mm and length 600 mm



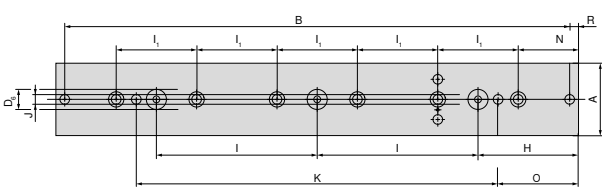
A	B	D ₆ H7	H ±0,015	I ±0,015	I ₁ ±0,015	J F7	K ±0,015	N	O ±0,015	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	578	25	100	200	100	12	450	50	75	11

Base width 90 mm and length 400 mm



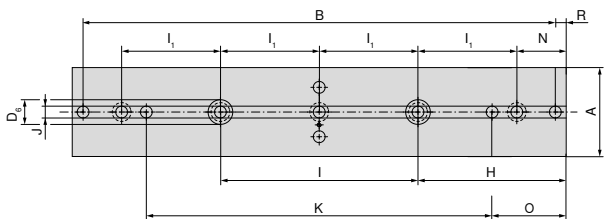
A	B	D ₆ H7	H ±0,015	I ±0,015	I ₁ ±0,015	J F7	K ±0,015	N	O ±0,015	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	378	25	100	200	100	12	250	50	75	11

Base width 90 mm and length 650 mm



A	B	D ₆ H7	H ±0,015	I ±0,015	I ₁ ±0,015	J F7	K ±0,015	N	O ±0,015	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	628	25	125	200	100	12	450	75	100	11

Base width 90 mm and length 500 mm

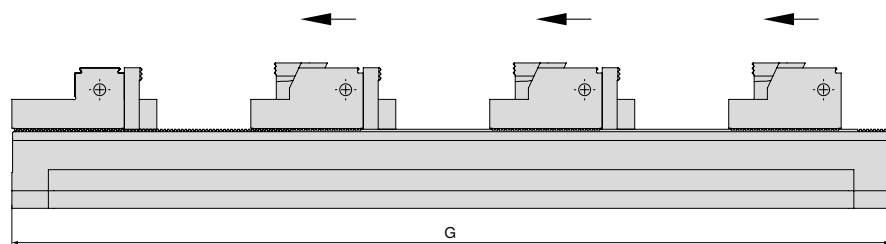


A	B	D ₆ H7	H ±0,015	I ±0,015	I ₁ ±0,015	J F7	K ±0,015	N	O ±0,015	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	478	25	150	200	100	12	350	50	75	11

Verso – Overview of clamping ranges

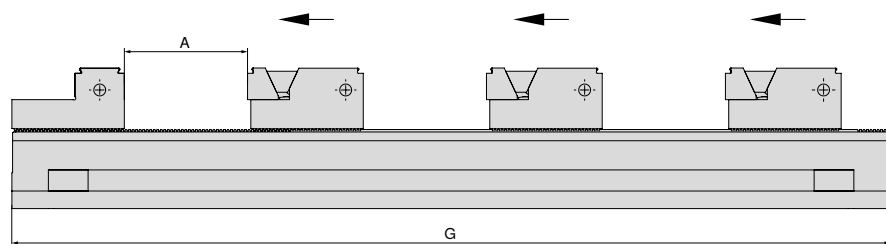
The clamping range shows the max. workpiece size depending on the number of clamping points for the individual clamping bar lengths.

Adjustable jaws with 40 mm pull-down jaw grip



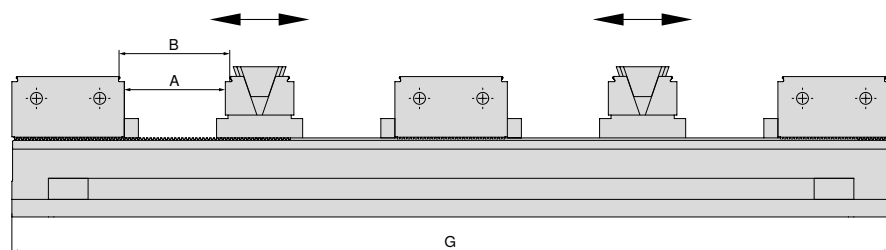
G mm	Number of workpieces							Article no. Vices
	1	2	3	4	5	6	7	
260	134	36	–	–	–	–	–	8091409000
400	274	106	50	22	–	–	–	8091409100
500	374	156	82	45	24	–	–	8091409200
600	474	206	116	72	44	26	–	8091409300
650	524	230	135	84	54	34	20	8091409400

Adjustable jaws with parallel clamping jaws



G mm	Number of workpieces									Article no. Vices
	1 A	2 A	3 A	4 A	5 A	6 A	7 A	8 A	9 A	
260	175	59	–	–	–	–	–	–	–	8091409000
400	315	129	67	27	10	–	–	–	–	8091409100
500	415	179	100	61	30	15	–	–	–	8091409200
600	515	229	133	86	57	32	19	10	–	8091409300
650	565	254	150	98	67	46	26	16	8	8091409400

With wedge grip elements

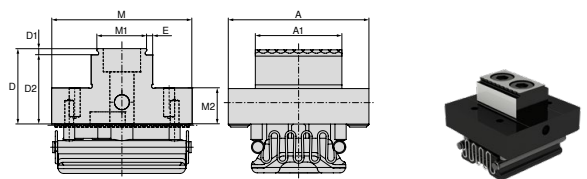


G mm	Number of workpieces								Article no. Vices
	2		4		6		8		
	A	B	A	B	A	B	A	B	
260	45	50	–	–	–	–	–	–	8091409000
400	115	120	31	36	–	–	–	–	8091409100
500	165	170	56	61	19	24	–	–	8091409200
600	215	220	81	86	36	41	14	19	8091409300
650	240	245	93	98	44	49	20	25	8091409400

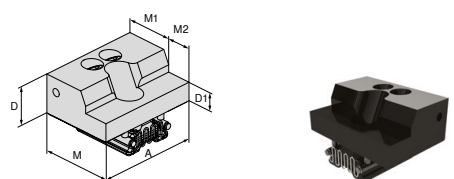
[illegible]

Indexable jaw, fixed VS, grip 3 mm

- ▲ Price per piece
- ▲ VS = Larger clamping range

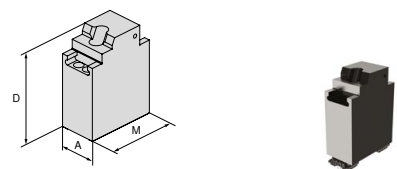
[illegible]

▲ Price per piece

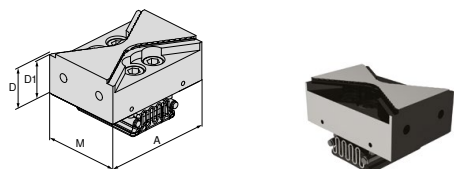


For vice width										CW	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
90	90		34,9	17			64	42	22												

▲ Price per piece

[illegible]

▲ Price per piece

[illegible]

Wedge jaw

Technical drawing of a square nut (Fig. 10). Dimensions shown: A (width), A1 (width of the base), D (height), D1 (height of the base), and M (thread pitch).

[illegible]

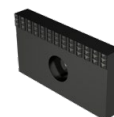
Technical drawing of a square base with a central hole and a grid of holes. Dimensions A, A1, D, D1, and M are indicated.

[illegible]

Technical drawing of a square base with a central hole. The drawing shows a perspective view of the component. The dimensions are labeled as follows: A is the side length of the top square face; A1 is the side length of the bottom square face; D is the total height of the component; D1 is the height of the upper section; and M is the thickness of the base plate.

[illegible]

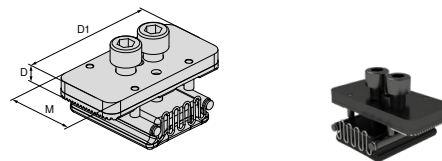
A 3D perspective diagram of a rectangular beam of length A and height D . A circular hole is located in the center of the beam's front face. A crack is shown on the top surface of the beam, extending from the left edge towards the right. A coordinate system is shown at the top left corner of the beam, with the x -axis pointing along the length of the beam and the z -axis pointing upwards. The crack is represented by a series of small rectangular blocks along the top surface.



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂												
65	65		35	7			10														
65	40		35	7			10														
90	90		35	7			10														

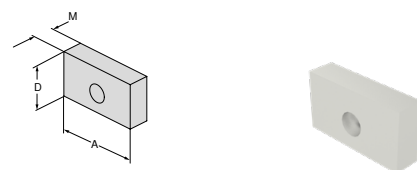
Base jaw

- ▲ Price per piece
▲ For Alu jaw Article no. **80 914 34200**

[illegible]

Jaw, soft

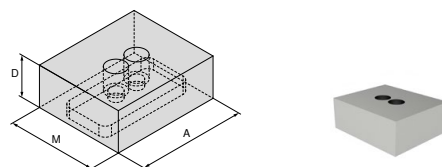
- ▲ Material: 16MnCr5
- ▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂												
65	65		35				16														
65	40		35				16														
90	90		35				16														

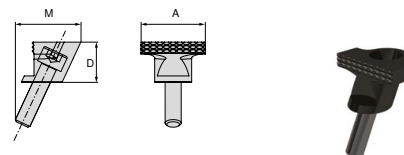
Soft Alu-jaw

- ▲ Price per piece
▲ For Base jaw Article no. **80 914 34100**

[illegible]

Pull-down jaw, grip

- ▲ Price per piece

[illegible]

System jaws overview

Pull-down jaw, grip – round

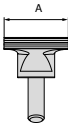
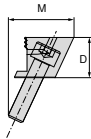
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	40		25				41		

CW

8091432700

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
									●	



Parallel clamping jaw, grip – round

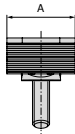
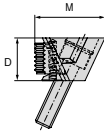
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	40		25				41		

CW

8091432800

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
									●	



Parallel clamping jaw

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	40		25	22			41		
90	65		25	22			41		
90	90		25	22			41		

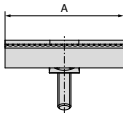
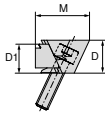
CW

8091432900

8091433000

8091433100

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
									●	
									●	
									●	



Pendulum jaw, grip

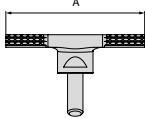
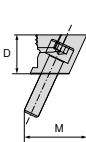
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	90		25				41		

CW

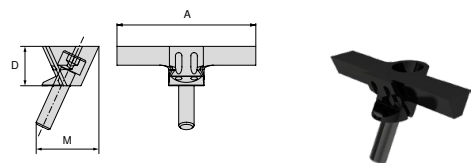
8091433200

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
									●	



Clamping Wedge

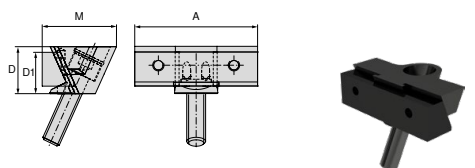
▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	90		25				41		

[illegible]

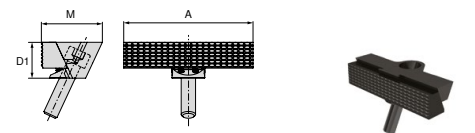
▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	40		25	22			41		
90	65		25	22			41		
90	90		25	22			41		

[illegible]

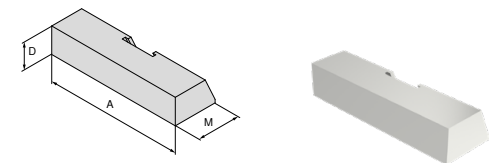
▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	90			25			42.5		

[illegible]

- ▲ Material: 16MnCr5
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	90		18				30		

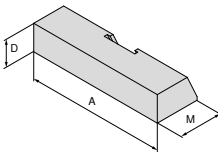
[illegible]

System jaws overview

Jaw, alu

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	90		18				30		

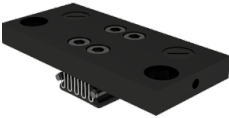
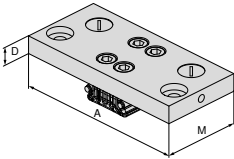


CW	8091433900	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
											●	

Fixed adaptor jaw

▲ to accommodate 6-way reversible jaws
▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
90	160		17				74		

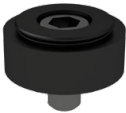
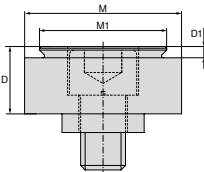


CW	8091434000	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
											●	

Insert jaws, round, grip 3 mm

▲ Price per piece
▲ For adapter jaws 80 914 34000

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18	3			42	34	

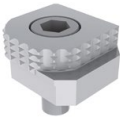
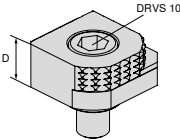


CW	8091434500	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
											●	

6 function indexable jaw

▲ 1 = Smooth, carbide coated
▲ 2 = Grip with 3 mm step
▲ 3 = Grip with 8 mm step
▲ 4 = Grip with 18 mm step
▲ 5 = Rough grip with 8 mm step
▲ 6 = Round grip
▲ M_{max} = 60 Nm
▲ Including fixation screws

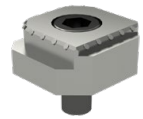
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18						



CW	80892246	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
		●	●	●	●			●		●	●	

6x indexable jaw, carbide grip

-

[illegible]

Workpiece support

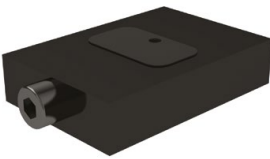
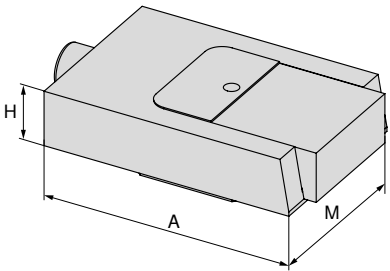
[illegible][illegible][illegible][illegible]

System accessories overview

Adjustable stop with basic body

- ▲ for vibration damping
- ▲ height adjustable 16 – 17 mm

Verso



H	A	M
mm	mm	mm
16	72	50

CW

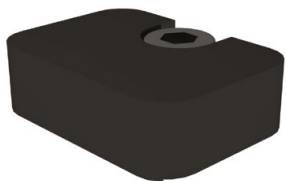
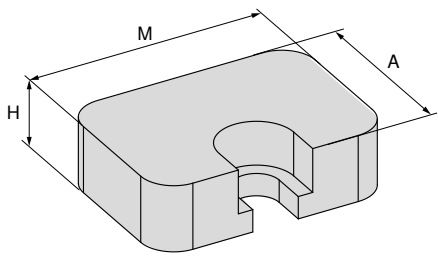
80 914 ...

50100

Support

- ▲ for vibration damping: Article no. 80 914 50100

Verso



H	A	M
mm	mm	mm
8	20	28
13	20	28

CW

80 914 ...

50200

50300

System accessories overview

Support, hard for milling over

▲ Price per piece

Verso



A	D	M
mm	mm	mm
40	5,4	15
90	5,4	15

CW
80 914 ...
51200
51100

Joint

▲ to connect 2 basic bodies

Verso



A
mm
90

CW
80 914 ...
50400

System accessories overview

Clamping Screw Set for T-slot for MNG

Scope of supply:
Clamping screw and T-Nuts

Verso

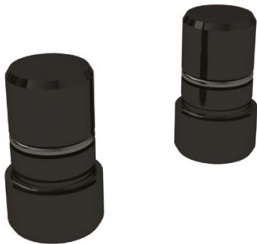


for slot width mm	G
20	M12
22	M12
24	M12

CW
80 914 ...
50500
50600
50700

Alignment Pin

Verso



D ₁ mm	D ₂ mm
12	14
12	16
12	18

CW
80 914 ...
81400
81600
81800

System accessories overview

Cover

Verso

A	D	M
mm	mm	mm
50	84	0,5
50	86	0,5
200	86	0,5

CW

80 914 ...

51000

50800

50900

Clamping claws

▲ Price for 2 pieces

D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW

80 890 ...

315

System accessories overview

Torque key

▲ without socket

- ZSGmini
- MSG2
- Verso
- MNG



TQX Nm		Square		AS	
5 - 50		3/8"		80 884 ...	402

Clamping screw and T-Nuts

- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

Scope of supply:
Incl. washers

- NCG
- H5G
- ESG4
- HDG2
- ZSG4
- DSG4
- Verso



for slot width mm		G	CW	
12		M10	80 890 ...	308
14		M12		309
16		M14		310
18		M16		311

System accessories overview

Clamping screws for round clamps, T-Nut

▲ incl. nut and washer
▲ Price per 2 Pieces

- Verso
- MNG



for width mm	G	CW	
12	M10	80 899 ...	112
14	M12		114
16	M12		116
18	M12		118

Socket

▲ Suitable for 1/2" or 3/8" square drive

- ESG mini
- MSG 2
- Verso
- MNG



DRVS mm	AS	
8	80 877 ...	108

System accessories overview

Dowel screw

▲ Price for 2 pieces

- H5G
- ESG
4
- ZSG
4
- DSG
4
- MNG
- X5G
-Z



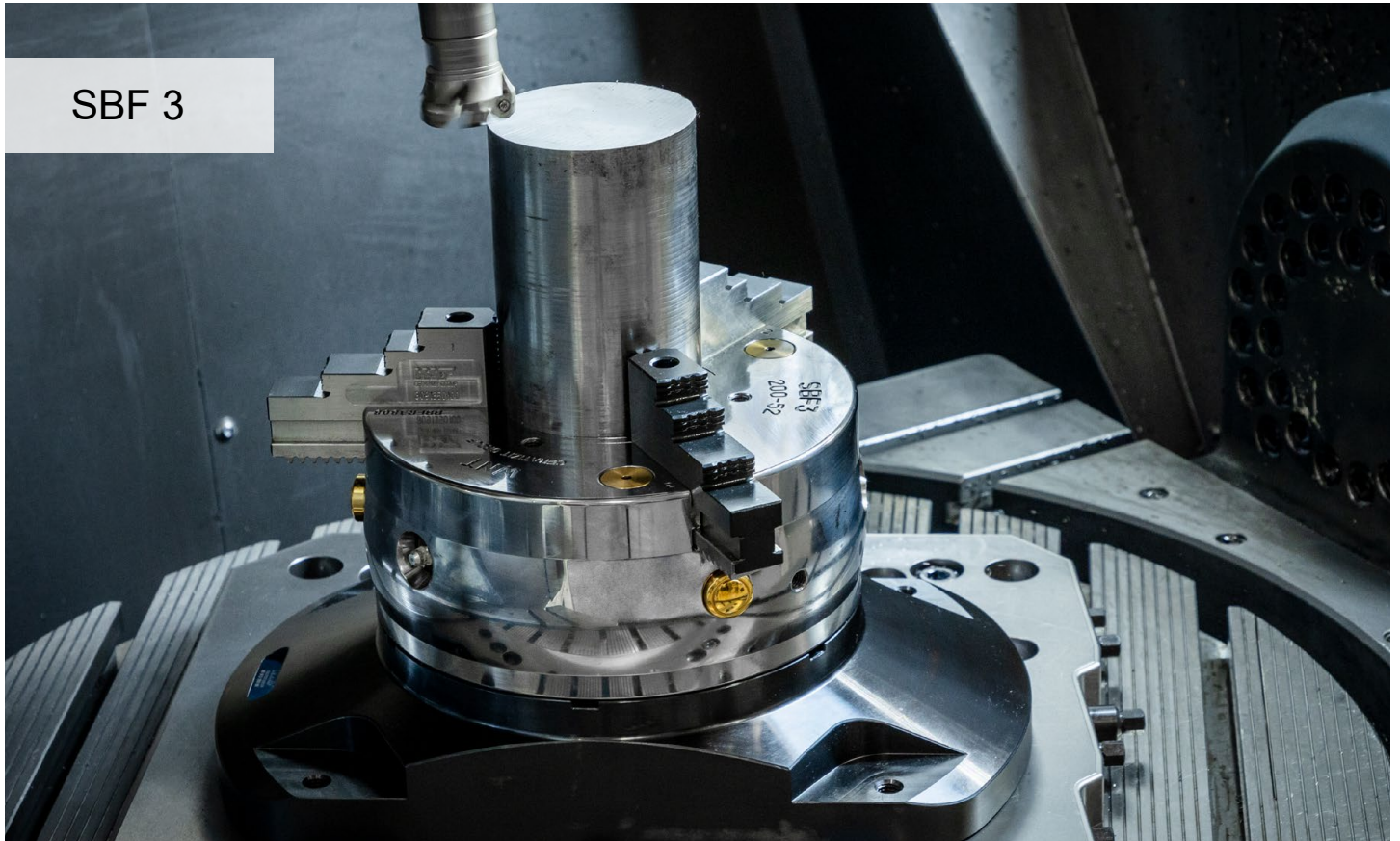
for width mm	G	J mm
125	M12x45	12

CW

80 895 ...

019

SBF 3



Hotly anticipated – now also for round components

Machining round components has become daily routine for many companies. We now have a solution in the portfolio in the form of the SBF 3 stationary three-jaw chuck – fully compatible with the in-house MNG and PNG zero point clamping systems for rapid, uncomplicated handling.

Your benefits:

- ▲ Suitable for 3/5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems
- ▲ Quick change jaw system with single release of jaws
- ▲ Spindle with hex connection

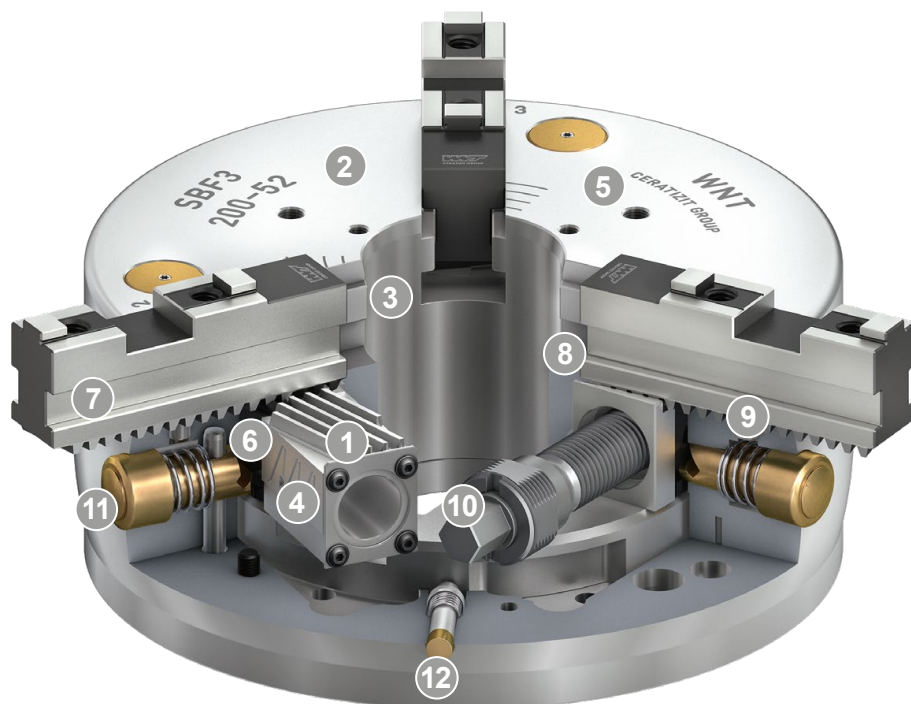


SBF 3 Ø 200 mm



SBF 3 Ø 315 mm

Technical information – cross-section diagram



- | | |
|--|---|
| <p>1 Wedge bar drive
Allows for excellent machining results</p> | <p>7 Base jaws with angled teeth (SFG)</p> |
| <p>2 Hardened and extremely stiff base body
Longer service life with maximum precision as a result – even at the highest clamping force</p> | <p>8 Locking mechanism
Guarantees secure engagement of the base jaw teeth with the wedge bar teeth</p> |
| <p>3 Large through hole
For machining all common bar material diameters (optional: enlargement of through hole)</p> | <p>9 Engagement pin
For pre-positioning the base jaw</p> |
| <p>4 Optimised lubrication system
For high degree of efficiency</p> | <p>10 Actuation via hex connection
Easier operation as a result</p> |
| <p>5 Mounting threads
For workpiece stops or cover plates</p> | <p>11 Pushbutton for jaw change
For extremely short setup times</p> |
| <p>6 Quick jaw change system
Single release of jaws, meaning extremely short setup times</p> | <p>12 Indicator pin
For visual stroke monitoring of the manual clamping chuck</p> |

CoreLine – SBF 3 three-jaw chuck (Ø 200 mm) with console – SBF 3

- ▲ Suitable for 3/5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems (zero point clamping bolts must be ordered separately)
- ▲ Quick change jaw system with single release of jaws
- ▲ Spindle with hex connection

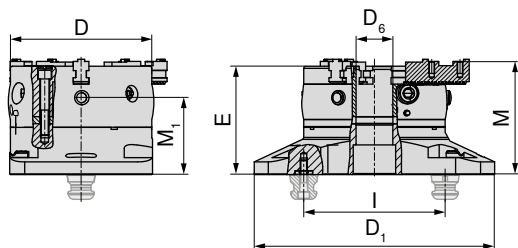
Scope of supply:

SBF 3 three-jaw chuck (Ø 200 mm) including console (PNG- and MNG-compatible)

1 set GBA base jaws

1 set SB-H stepped jaws

6 fixing screws and clamping key



D	D ₁	D ₆	E	I	M	M ₁	MXC	TQX	DRVS	Stroke / jaw	Tooth pitch	WT
mm	mm	mm	mm	mm	mm	mm	kN	Nm	mm	mm	mm	kg
200	340	52	153,3	200	160,1	108,8	100	120	12	7	4,8	49,5

CW

80 913 ...

20000

CoreLine – SBF 3 three-jaw chuck (Ø 315 mm) with console – SBF 3

- ▲ Suitable for 3/5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems (zero point clamping bolts must be ordered separately)
- ▲ Quick change jaw system with single release of jaws
- ▲ Spindle with hex connection

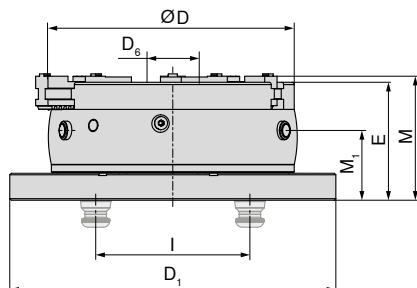
Scope of supply:

SBF 3 three-jaw chuck (Ø 315 mm) including console (PNG- and MNG-compatible)

1 set GBA base jaws

1 set SB-H stepped jaws

6 fixing screws and clamping key



D	D ₁	D ₆	E	I	M	M ₁	MXC	TQX	DRVS	Stroke / jaw	Tooth pitch	WT
mm	mm	mm	mm	mm	mm	mm	kN	Nm	mm	mm	mm	kg
315	423	92	153	200	160,86	90,5	180	220	16	9,9	7	95

CW

80 913 ...

31500



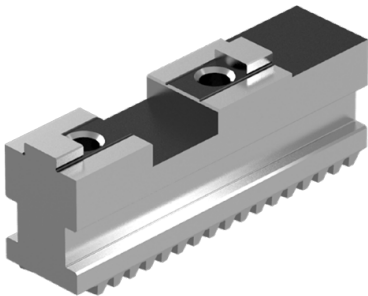
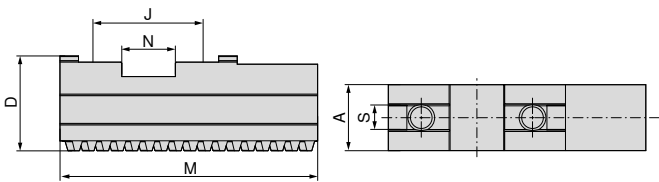
The chuck is designed exclusively for stationary use – do not use while rotating!

System jaws overview

Base jaws (GBA) – set

- ▲ Base jaws with angled teeth
- ▲ Price per set of 3 pieces

Scope of supply:
3 base jaws with angled teeth
Including cylindrical screws



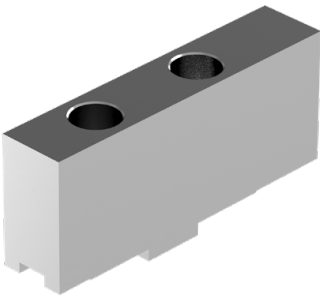
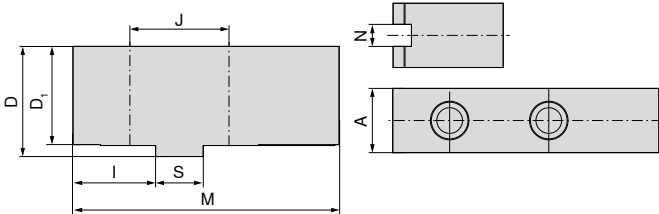
for	A mm	D mm	J mm	M mm	N mm	S mm	G	WT kg
SBF-3.200	22	32	40	90	20	10	M8x1	1,2
SBF-3.315	32	43	54	125	26	12	M12x1,5	3,1

CW
80 913 ...
50300
60300

Soft top jaws (AB-W) – set

- ▲ Price per set of 3 pieces
- ▲ Material: 16MnCr5

Scope of supply:
3 soft top jaws



for	A mm	D mm	D ₁ mm	I mm	J mm	M mm	N mm	S mm	Hole for	WT kg
SBF-3.200	22	47	43	35	40	105	10	20	M8	2,0
SBF-3.315	35	60	54	45	54	145	12	26	M12	5,6

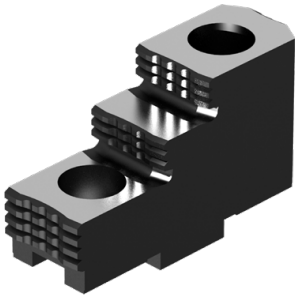
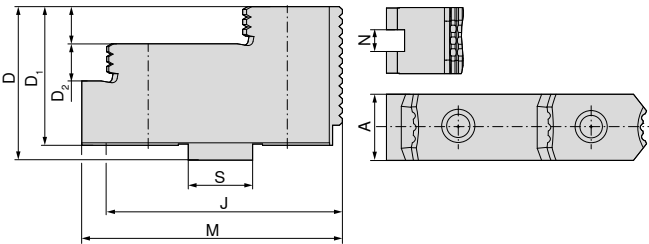
CW
80 913 ...
50400
60400

System jaws overview

Hard stepped top jaws (AB-H) – set

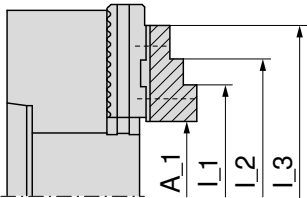
▲ Price per set of 3 pieces

Scope of supply:
3 hard stepped top jaws

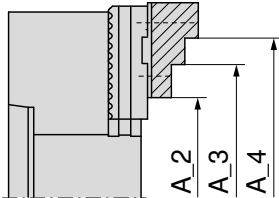


for	A mm	D mm	D ₁ mm	D ₂ mm	J mm	M mm	N mm	S mm	Hole for	WT kg	CW 80 913 ... 50200 60200	
SBF-3.200	22	42	38	10	40	71,7	10	20	M8	2,4		
SBF-3.315	36	62	56	15	54	105	12	26	M12	3,3		

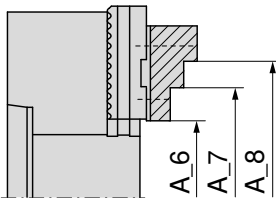
Dimension table – Hard stepped top jaws (AB-H)



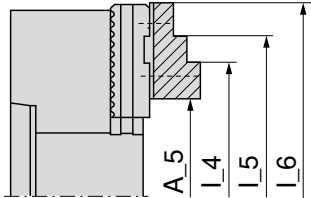
Basic jaw position 2



Basic jaw position 1



Basic jaw position 2



Basic jaw position 1

			Externall clamping range							
3-jaw chuck		System jaw	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
SBF-3.200	8091350200	SBF-3.AB-H.200.71,7.22.10	7–76	57–125	108–177	135–204	55–125	14–77	66–129	93–156
SBF-3.315	8091360200	SBF-3.AB-H.315.105.36.15	14–125	93–224	202–333	–	87–219	44–130	153–239	–

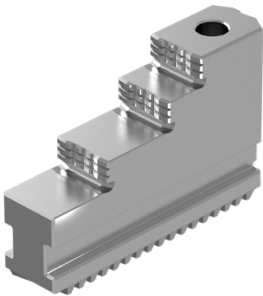
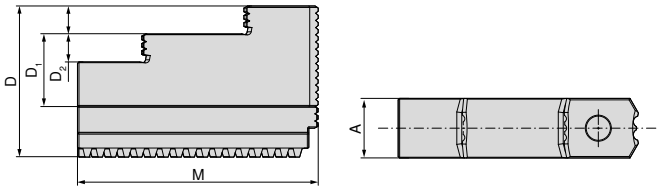
			Internal clamping range					
3-jaw chuck		System jaw	I_1	I_2	I_3	I_4	I_5	I_6
SBF-3.200	8091350200	SBF-3.AB-H.200.71,7.22.10	72–141	99–168	151–220	120–189	147–216	199–268
SBF-3.315	8091360200	SBF-3.AB-H.315.105.36.15	93–204	202–313	–	167–298	276–407	–

System jaws overview

Hard stepped top jaws (SB-H) – set

- ▲ Stepped block jaws with angled teeth
- ▲ Price per set of 3 pieces

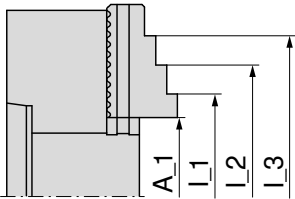
Scope of supply:
3 hard stepped block jaws



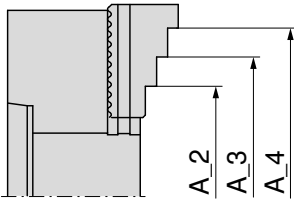
for	A mm	D mm	D ₁ mm	D ₂ mm	M mm	WT kg
SBF-3.200	22	60	35	10	94	1,9
SBF-3.315	32	81	46	15	129	5,5

CW
80 913 ...
50100
60100

Dimension table – Hard stepped top jaws (SB-H)



Hard stepped top jaws
steel 16MnCr5, case-
hardened



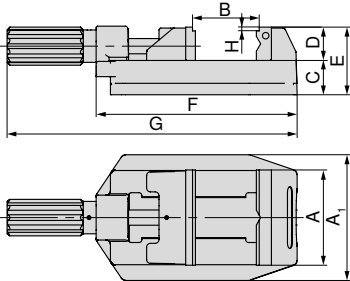
Hard stepped top jaws
steel 16MnCr5, case-
hardened

3-jaw chuck	System jaw	Externall clamping range				Internal clamping range		
		A_1	A_2	A_3	A_4	I_1	I_2	I_3
SBF-3.200	8091350100SBF-3.SB-H.200.94.22.10	6–74	59–128	111–180	138–207	70–138	97–165	149–217
SBF-3.315	8091360100SBF-3.SB-H.315.129.32.15	12–124	89–210	189–420	–	91–203	199–311	–

CoreLine – Manual machine vice

- ▲ handy, universal vice with large clamping range
- ▲ Stepped jaws with horizontal and vertical 120° prism
- ▲ Optional material stop can be used on both sides

HSG



A	A ₁	B	C	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
80	112	0 - 81	36	35	71	194	286,5	4	4,5
100	132	0 - 100	36	35	71	211	304,5	4	5,6
125	156	0 - 131	40	40	84	274	386	4	11,2

CW

80 893 ...

080

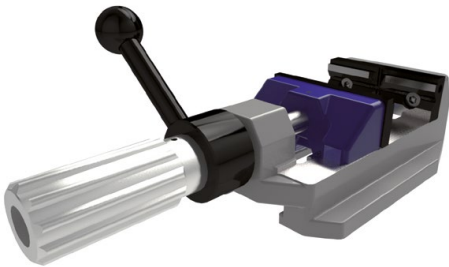
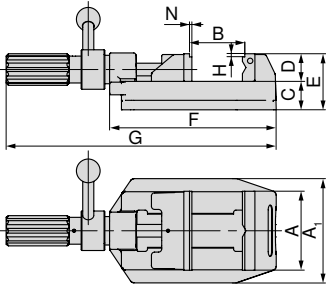
100

125

CoreLine – Manual machine vice with clamping aid

- ▲ Quick and accurate workpiece clamping using the clamping aid
- ▲ handy, universal vice with large clamping range
- ▲ Stepped jaws with horizontal and vertical 120° prism
- ▲ Optional material stop can be used on both sides
- ▲ N = Stroke with handle clamping

HSG



A	A ₁	B	C	D	E	F	G	H	N	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
100	132	0 - 100	36	35	71	211	342	4	1,5	6,1
125	156	0 - 133	44	40	84	274	405	4	1,5	11,7

CW

80 893 ...

101

126

Vice guide

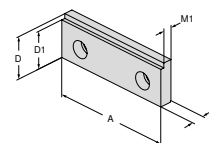
→ System jaws	→ Clamping lever
→ System accessories	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Top jaws overview

Stepped jaw, smooth

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	80		35	31			10,2	7,2	
	100		35	31			10,2	7,2	
	125		40	36			11,8	8,8	

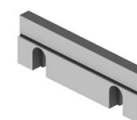
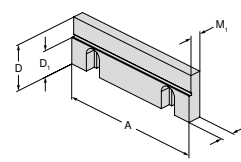


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80893082											●
80893102											●
80893127											●

Stepped jaw, 17 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		40	23			11,5	9,5	



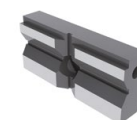
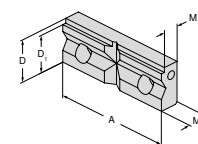
CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892244											●

Prismatic jaw

▲ Prism jaw with horizontal and vertical prism

▲ price per piece

For clamping diameter	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
9 - 31	80		35	31			15,8	12,8	
9 - 31	100		35	31			15,8	12,8	
11 - 41	125		40	36			17,8	14,8	



CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80893083											●
80893103											●
80893128											●



→ Here you will find other matching top jaws.

System accessories overview

Workpiece stop

- ▲ Fixed to the top section, either on the left, the right, or at both ends. The length adjustment can be performed quickly and accurately using a clamping screw.

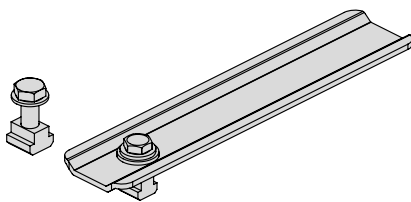
HSG

for width
mm
80/100/125

CW
80 893 ...
265

Guide rail

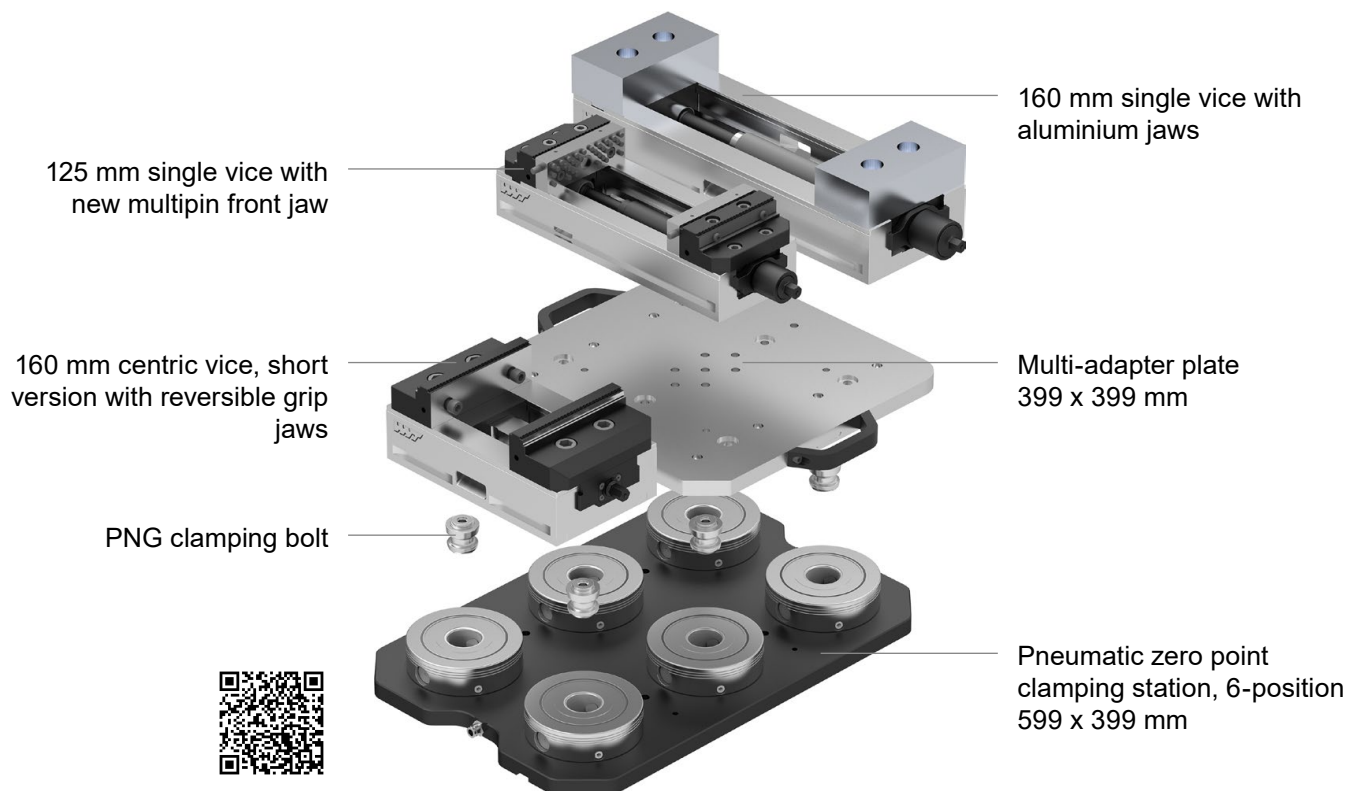
- ▲ Helps prevent accidents
- ▲ Prevents unwanted movement, lifting and dragging

HSG

for width
mm
80/100/125

CW
80 893 ...
260

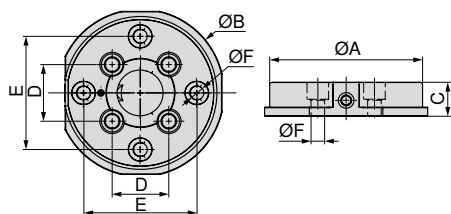
Overview of MNG and PNG zero point clamping system



CoreLine – Base plate, round – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ hardened and ground
- ▲ Repeatability ≤ 0.01 mm
- ▲ Insertion force 20 kN
- ▲ Torque 30 Nm

MNG



A	B	C _{±0,005}	D	E	F _{H7}	WT
mm	mm	mm	mm	mm	mm	kg
135	148	30	50	100	12	3,5

CW

80 899 ...

125

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Base plate, rectangular – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Insertion force 20 kN on the clamping bolt
- ▲ Stainless and vacuum-hardened
- ▲ Repeatability ≤ 0.01 mm
- ▲ Tightening torque 30 Nm

MNG

Size	WT
195x130 mm	5,2

CW

80 899 ...

65000

CoreLine – Base plate, rectangular 2-location – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Insertion force 20 kN on the clamping bolt
- ▲ Stainless and vacuum-hardened
- ▲ Repeatability ≤ 0.01 mm
- ▲ Tightening torque 30 Nm

MNG

Size	WT
400x130 mm	11

CW

80 899 ...

65100

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Base plate, rectangular 3-location – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Insertion force 20 kN on the clamping bolt
- ▲ Stainless and vacuum-hardened
- ▲ Repeatability ≤ 0.01 mm
- ▲ Tightening torque 30 Nm

MNG

Size	WT
600x145 mm	18 kg

CW

80 899 ...

65200

CoreLine – 3 location base plate – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Clamping force 20 kN on each location bolt
- ▲ 4 x M12 mounting holes for T-slot nuts 50 mm spread
- ▲ 8 x dowel bushes Ø12 F7 / M12
- ▲ 4 x dowel holes Ø18 H7 for positioning

MNG

Size	WT
270x190 mm	9 kg

CW

80 899 ...

230

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Base plate 4-sided with indexing – MNG

- ▲ MNG – Mechanical zero point clamping system
- ▲ Stainless and vacuum-hardened
- ▲ Insertion force 20 kN on each clamping bolt
- ▲ 15 x M12 mounting holes for T-slot spacing 50, 63, 100, 125 mm
- ▲ 2 x locating holes Ø18 G7 for positioning
- ▲ 1 x locating hole Ø12 F7 for positioning

MNG

Size	WT kg
330x400 mm	28

80 899 ...
64200 ¹⁾

1) Not ex-stock

CoreLine – Base plate 6-sided with indexing – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Stainless and vacuum-hardened
- ▲ Insertion force 20 kN on the clamping bolt
- ▲ 14 x mounting holes for M16, for T-slot spacing 63, 80, 100, 125 mm
- ▲ 2 x mounting holes for M12
- ▲ 2 x mating holes Ø18 G7 for positioning
- ▲ 1 x mating holes Ø12 F7 for positioning

MNG

Size	WT kg
400x400 mm	33

80 899 ...
64300 ¹⁾

1) Not ex-stock

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Base plate 6-sided with indexing – MNG

- ▲ MNG – Mechanical zero point clamping system
- ▲ Stainless and vacuum-hardened
- ▲ Insertion force 20 kN on each clamping bolt
- ▲ 24 x M12 mounting holes for T-slot spacing 63, 100, 125 mm
- ▲ 2 x locating holes Ø18 G7 for positioning
- ▲ 1 x locating hole Ø12 F7 for positioning

MNG

Size	WT kg
400x530 mm	45

CW80 899 ...64400 ¹⁾

1) Not ex-stock

CoreLine – Base plate 10-sided with indexing – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Stainless and vacuum-hardened
- ▲ Insertion force 20 kN on the clamping bolt
- ▲ 27 x mounting holes M12 for T-slot spacing 50, 63, 100, 125 mm and star slots 45°
- ▲ 2 x mating holes Ø18 G7 for positioning
- ▲ 1 x mating holes Ø12 F7 for positioning

MNG

Size	WT kg
496,5x532 mm	54

CW80 899 ...64500 ¹⁾

1) Not ex-stock

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Centering Pin

▲ MNG – Mechanical Zero-point Clamping System



D ₁ h6 mm	D ₂ h6 mm
12	30
12	32
12	50

CW
80 899 ...
61700
61800
61900

Clamping Screw Set for T-slot

▲ MNG – Mechanical Zero-point Clamping System

Scope of supply:
Clamping screw and T-Nuts



for slot width mm	G
12	M8
12	M10
14	M8
14	M12
16	M8
16	M12
18	M8
18	M12

CW
80 899 ...
63800
63400
63900
63500 ¹⁾
64000
63600 ¹⁾
64100
63700 ¹⁾

1) With low head screws

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Alignment Pin

▲ MNG – Mechanical Zero-point Clamping System



D ₁ h6		D ₂ h6		CW	
mm		mm		80 899 ...	
18		14		607	
18		18		608	
18		20		609	
18		22		610	

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Console with zero point clamping module – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ universal application on all machine tables
- ▲ Clamping force 20 kN

Scope of supply:
Plate incl. MNG round clamping module

MNG

A	B	C	D	E	F	G	WT	
mm	mm	mm	mm	mm	mm	mm	kg	
260	147	70	30	100	135	200	8,9	

CW

80 899 ...

425

CoreLine – Console – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ universal application on all machine tables
- ▲ Material: Aluminum, hard anodized

A	B	C	D	E	G	H	I	WT	
mm	mm	mm	mm	±0,02 mm	M12	mm	mm	kg	
260	147	70	50	100	M12	30	200	5,5	

CW

80 899 ...

420

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Double console with zero point clamping module – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ universally applicable on all machine tables
- ▲ Material: Aluminium Hard Anodised

Scope of supply:
Console including MNG round clamping module

MNG

A	B	C	D	E	F	I	WT
mm	mm	mm	mm	mm	mm	mm	kg
347	147	70	30	100	135	200	16,5

CW

80 899 ...

435

CoreLine – Double console – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ universally applicable on all machine tables
- ▲ Material: Aluminium Hard Anodised

A	B	C	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm		mm	kg
347	147	70	50	100	12	M12	100	9,3

CW

80 899 ...

430

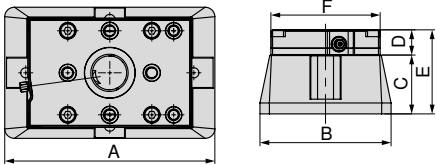
Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Console with zero point clamping module – MNG

▲ MNG – Mechanical Zero-point Clamping System

MNG



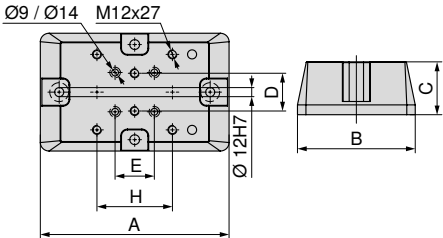
A	B	C	D	E	F
mm	mm	mm	mm	mm	mm
250	156	70	30	100	130

CW
80 878 ...
54000

CoreLine – Console

▲ MNG – Mechanical Zero-point Clamping System

ZSG
4



A	B	C	D	E	H	for
mm	mm	mm	mm	mm	mm	
250	156	70	50	52	100	ZSG 4 - 80 L = 130 mm + 190 mm / ZSG 4 - 125 L = 160 mm
320	197	100	50	50	100	ZSG 4 - 160 L = 280 mm
340	162	100	50	50	100	ZSG 4 - 125 L = 235 mm / 300 mm

CW
80 878 ...
54100
54400
54300

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Assembly set for console

▲ MNG – Mechanical Zero-point Clamping System



for	CW
ZSG-4.125/160.L235-L280	80 878 ...
ZSG-4.80.L130-L190	54500
	54200

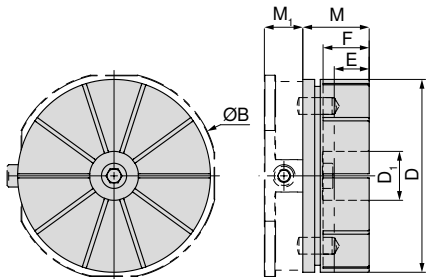
Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

CoreLine – Aluminum form chuck – MNG

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ for incorporation of forms for 2nd op machining

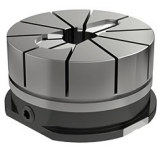
Scope of supply:
Collet with positioning pins, without locating bolts



B	D	D ₁	E	F	M	M ₁
mm	mm	mm	mm	mm	mm	mm
148	138	35	22	33	47,5	27,5

CW
80 899 ...
500

Available on request



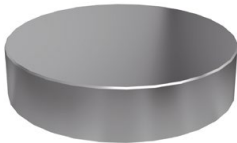
Machineable Alu chuck to suit round MNG



Machineable Alu chuck to suit round MNG with clamped workpiece



Grid plate



Blank plate



The maximum cutting depth E is 22 mm

Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Adjustable ring for MNG form collet

MNG



CW

80 899 ...

510

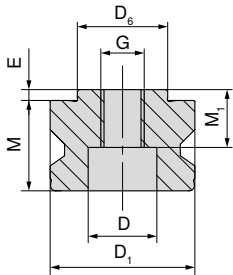
Vice guide

→ System accessories	→ Clamping lever
→ MNG clamping options	→ Screws
→ General top jaws	
→ Workpiece location	
→ General accessories	

Pull studs

▲ MNG – Mechanical Zero-point Clamping System

Scope of supply:
including fixation screws



D ₆ h6	D ₁ h6	M	M ₁	E	D	G
mm	mm	mm	mm	mm	mm	
25	40	27	17	3	19	M12

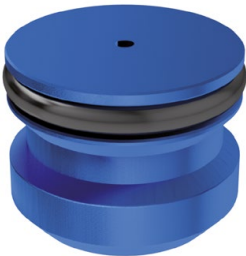
CW

80 899 ...

025

Bungs

▲ MNG – Mechanical Zero-point Clamping System



D ₁
mm
40

CW

80 899 ...

040

Sealing plug with O-ring

▲ MNG – Mechanical Zero-point Clamping System

MNG



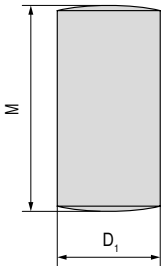
G
M12

CW
80 899 ...
126

Dowel Set

▲ MNG – Mechanical Zero-point Clamping System
▲ for ESG mini 4V tower and direct workpiece clamping
▲ Price per 2 Pieces

MNG



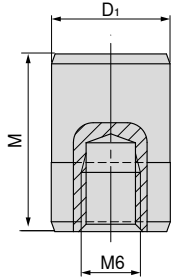
D ₁ m6 mm	M mm
12	24

CW
80 899 ...
120

Indexing bolt

▲ MNG – Mechanical Zero-point Clamping System

MNG



D ₁ mm	M mm	CW
12	18	80 899 ...
		51500

Clamping Screw Set for T-slot

▲ MNG – Mechanical Zero-point Clamping System

Scope of supply:
Clamping screw and T-Nuts

MNG



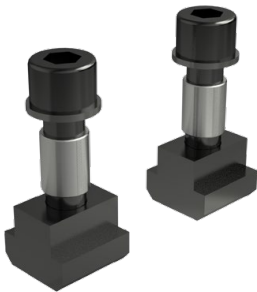
for slot width mm	G	CW
		80 899 ...
12	M8	63800
12	M10	63400
14	M8	63900
14	M12	63500 ¹⁾
16	M8	64000
16	M12	63600 ¹⁾
18	M8	64100
18	M12	63700 ¹⁾

1) With low head screws

Clamping set for 14 mm T-slot

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ T-nuts are modified for 63 mm slot pitch
- ▲ Price per 2 Pieces

MNG



for slot width mm	A mm
14	63

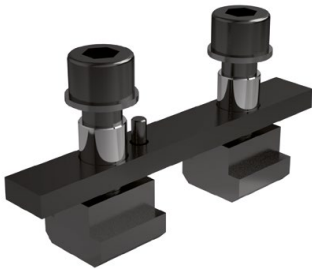
CW
80 899 ...
614

Alignment/centering set for T-slots

- ▲ A = groove spacing

Scope of supply:
1 Terminal block, 2 T-nuts, 2 screws, 2 washers for width 12 mm, without clamping strip!

MNG



A mm	for slot width mm
50	12
50	14
50	16
50	18
100	12
100	14
100	16
100	18

CW
80 899 ...
012 ¹⁾
014
016
018
81200
81400
81600
81800

1) For 12 mm width excluding clamping strip

Round claw

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Two pieces contained in set
- ▲ Price per 2 pieces

MNG

CW

80 899 ...

300

MNG

Replacement clamping unit

- ▲ MNG – Mechanical Zero-point Clamping System
- ▲ Three-part set
- ▲ for MNG round

MNG

CW

80 899 ...

026

MNG

MNG clamping options

MNG – Base plate, rectangular

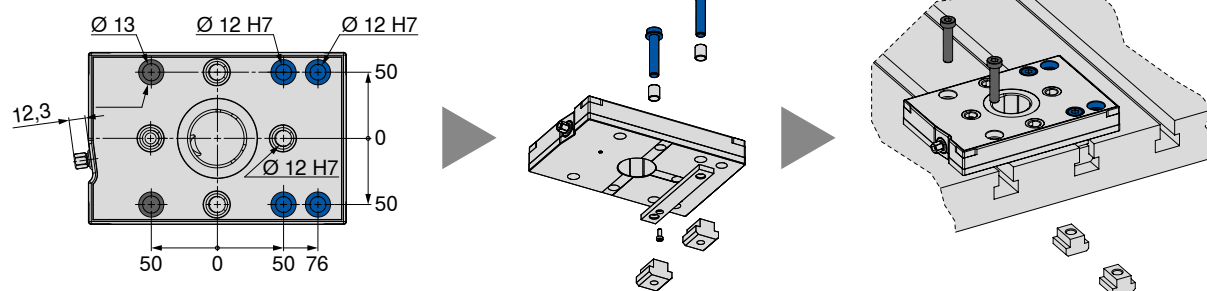
Mounting:

● 2 x M12 low head screws

● 1 x Alignment and centring set



→ Here you will find the suitable screws.



MNG – Base plate, rectangular 2-location

Mounting:

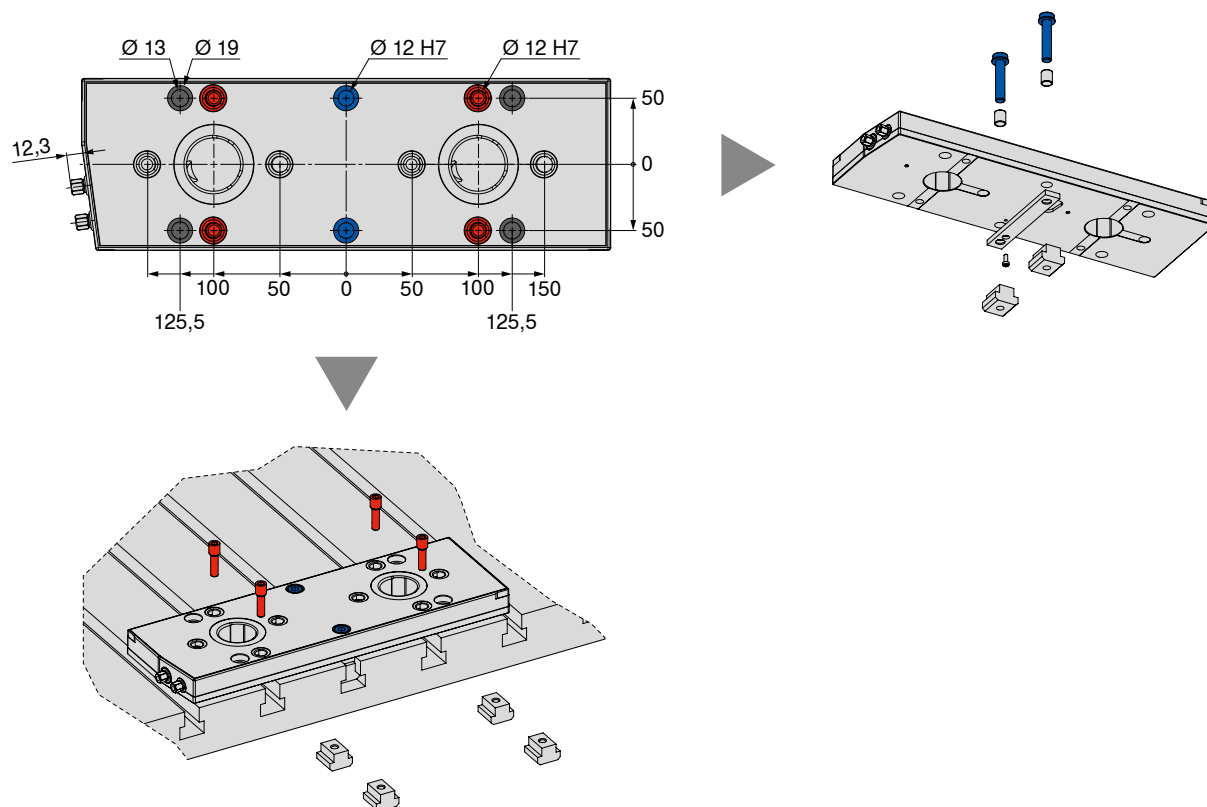
● 4 x M12 low head screws

● 1 x Alignment and centring set

● 4 x M8 MNG special screws



→ Here you will find the suitable screws.



MNG clamping options

MNG – Base plate, rectangular 3-location

Mounting:

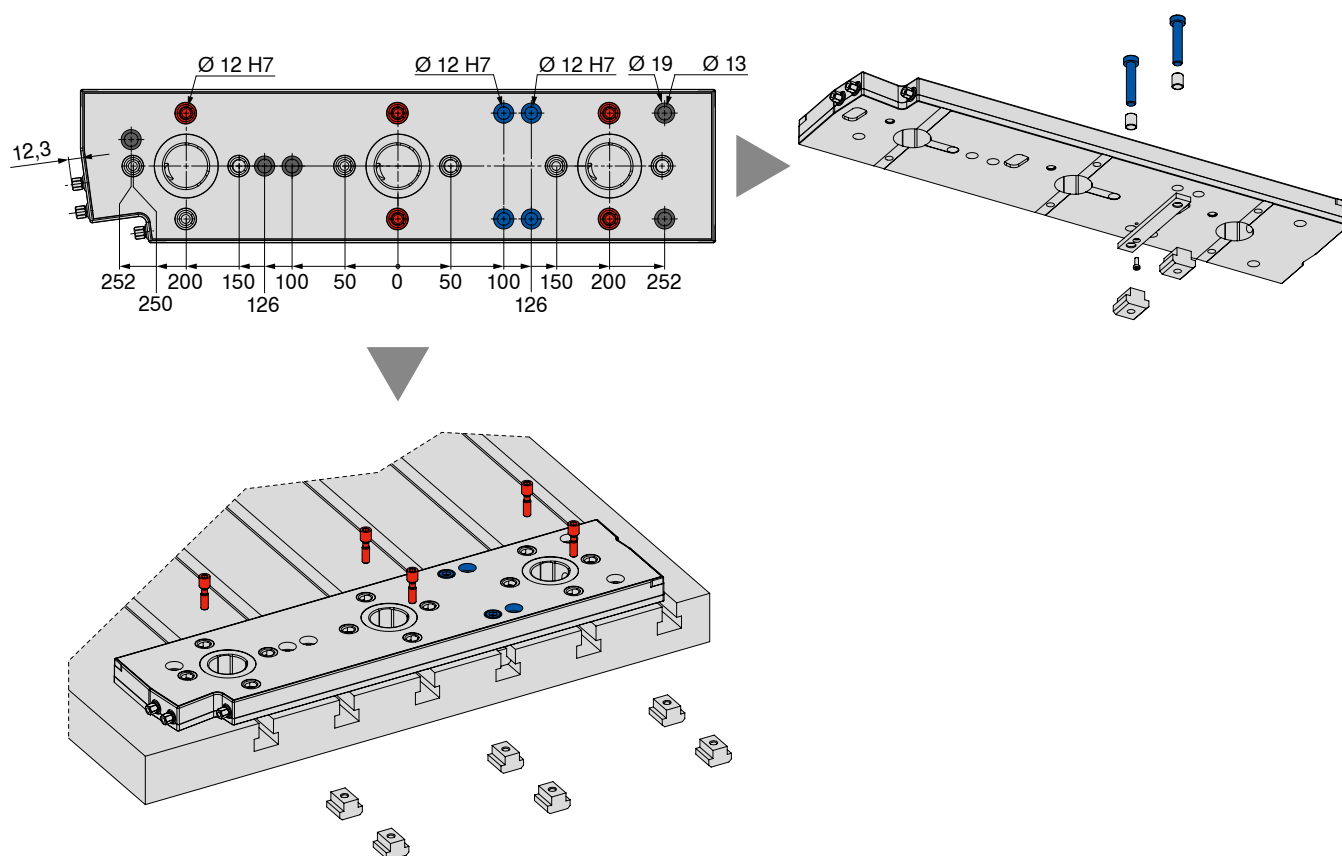
● 5 x M12 low head screws

● 1 x Alignment and centring set

● 5 x M8 MNG special screws



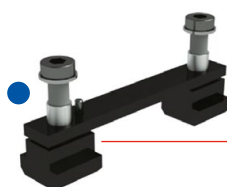
→ Here you will find the suitable screws.



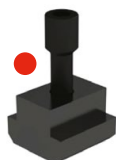
MNG clamping options

T-slot table – spacing of 126 mm / 63 mm													
	12 mm			14 mm			16 mm			18 mm			
													
	Alignment and centring set spacing 100 mm 80 899 81200	Clamping set with M10 low head screws 80 899 63400	Clamping set with M8 MNG special screws 80 899 63800	Alignment and centring set spacing 100 mm 80 899 81400	Clamping set with M12 low head screws 80 899 63500	Clamping set with M8 MNG special screws 80 899 63900	Alignment and centring set spacing 100 mm 80 899 81600	Clamping set with M12 low head screws 80 899 63600	Clamping set with M8 MNG special screws 80 899 64000	Alignment and centring set spacing 100 mm 80 899 81800	Clamping set with M12 low head screws 80 899 63700	Clamping set with M8 MNG special screws 80 899 64100	
	MNG – Base plate, rectangular	1 x	2 x	—	1 x	2 x	—	1 x	2 x	—	1 x	2 x	—
	MNG – Base plate, rectangular 2-location	1 x	4 x	—	1 x	4 x	—	1 x	4 x	—	1 x	4 x	—
	MNG – Base plate, rectangular 3-location	1 x	4 x	2 x	1 x	4 x	2 x	1 x	4 x	2 x	1 x	4 x	2 x

T-slot table – spacing of 100 mm / 50 mm													
	12 mm			14 mm			16 mm			18 mm			
													
	Alignment and centring set spacing 100 mm 80 899 81200	Clamping set with M10 low head screws 80 899 63400	Clamping set with M8 MNG special screws 80 899 63800	Alignment and centring set spacing 100 mm 80 899 81400	Clamping set with M12 low head screws 80 899 63500	Clamping set with M8 MNG special screws 80 899 63900	Alignment and centring set spacing 100 mm 80 899 81600	Clamping set with M12 low head screws 80 899 63600	Clamping set with M8 MNG special screws 80 899 64000	Alignment and centring set spacing 100 mm 80 899 81800	Clamping set with M12 low head screws 80 899 63700	Clamping set with M8 MNG special screws 80 899 64100	
	MNG – Base plate, rectangular	1 x	2 x	—	1 x	2 x	—	1 x	2 x	—	1 x	2 x	—
	MNG – Base plate, rectangular 2-location	1 x	—	4 x	1 x	—	4 x	1 x	—	4 x	1 x	—	4 x
	MNG – Base plate, rectangular 3-location	1 x	1 x	5 x	1 x	1 x	5 x	1 x	1 x	5 x	1 x	1 x	5 x



Alignment and centring set
spacing 100 mm



Clamping set with
M8 MNG special screws



Clamping set with M10 or
M12 low head screws



M16 cylinder low head screw
only base plate 6-face, 400 x
400 mm



Cylinder head screw for M12 grid
holes



→ Here you will find the articles shown above.



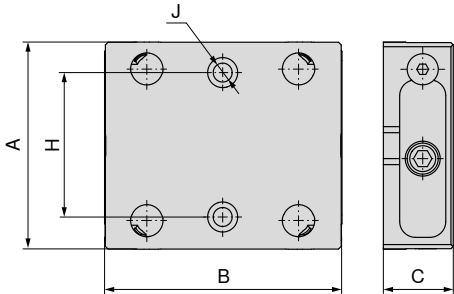
→ Here you will find the articles shown above.

CoreLine – Base plate, rectangular – MNG mini

▲ Order mounting bolts separately

MNG mini

52 x 52



A	B	C $\pm 0,005$	H $\pm 0,01$	J F7	WT
mm	mm	mm	mm	mm	kg
80	100	27	50	12	1,36

CW

80 915 ...

75200

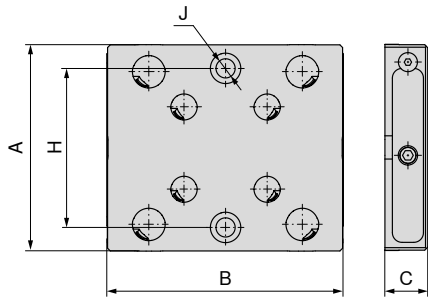
CoreLine – Combi-insert – MNG mini

▲ Order mounting bolts separately

MNG mini

52 x 52

96 x 96



A	B	C $\pm 0,005$	H $\pm 0,01$	J F7	WT
mm	mm	mm	mm	mm	kg
130	148	27	100	12	3,43

CW

80 915 ...

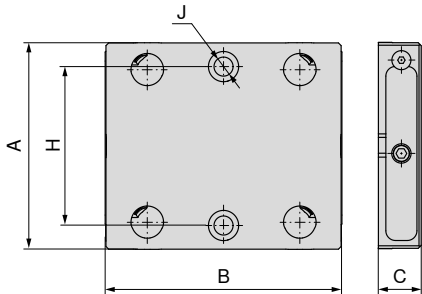
75900

CoreLine – Base plate, rectangular – MNG mini

▲ Order mounting bolts separately

MNG
mini

96 x 96



A	B	C $\pm 0,005$	H $\pm 0,01$	J F7	WT
mm	mm	mm	mm	mm	kg
130	148	27	100	12	3,59

CW
80 915 ...
79600

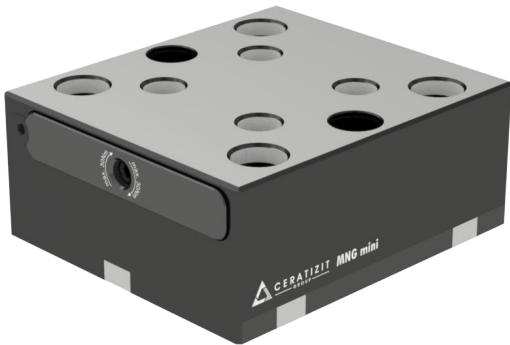
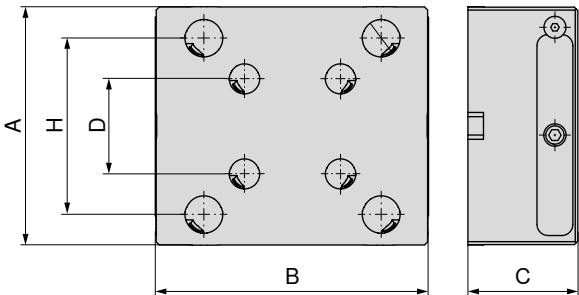
CoreLine – Combi-5-axis-increase – MNG mini

▲ Order mounting bolts separately

MNG
mini

52 x 52

96 x 96



A	B	C	D	H
mm	mm	mm	mm	mm
130	148	60	52	96
130	148	100	52	96

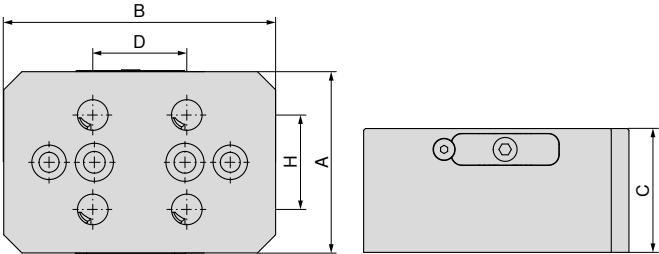
CW
80 915 ...
56000
51000

CoreLine – Console – MNG mini

- ▲ With integrated MNG mini zero point clamping system
- ▲ Order mounting bolts separately
- ▲ Material: hard-anodised aluminium

MNG mini

52 x 52



A	B	C	D	H
mm	mm	mm	mm	mm
100	150	70	52	52

CW

80 915 ...

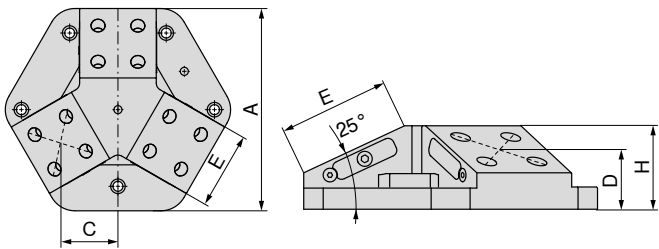
57000

CoreLine – Three-sided pyramid – MNG mini

- ▲ Incl. 3 x MNG mini zero point clamping systems
- ▲ Order mounting bolts separately
- ▲ Material: hard-anodised aluminium

MNG mini

52 x 52



A	C	D	E	H
mm	mm	mm	mm	mm
264	86,68	53,87	100	75

CW

80 915 ...

58000

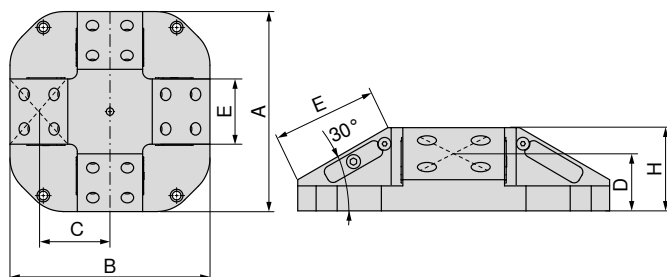


Suitable for: ESG 5 – 80 L-130 / ZSG 4 – 80 L-130 / ZSG mini – 70 L-80 / ZSG mini – 70 L-100

CoreLine – Four-sided pyramid – MNG mini

- ▲ Incl. 4 x MNG mini zero point clamping systems
- ▲ Order mounting bolts separately
- ▲ Material: hard-anodised aluminium

**MNG
mini** 52 x 52



A	B	C	D	E	H
mm	mm	mm	mm	mm	mm
300	300	106,7	55	100	80



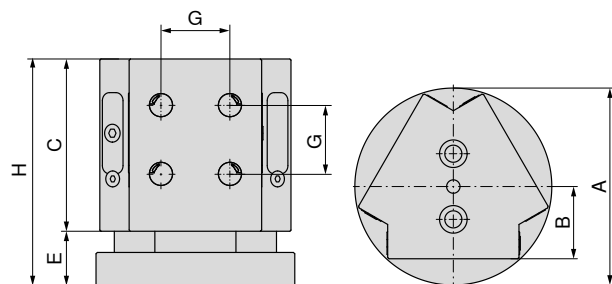
CW

80 915 ...
57500

CoreLine – Triangular tombstone – MNG mini

- ▲ Incl. 3 x MNG mini zero point clamping systems
- ▲ Order mounting bolts separately
- ▲ Material: hard-anodised aluminium

**MNG
mini** 52 x 52



A	B	C	E	G	H
mm	mm	mm	mm	mm	mm
148	55	130	41	52	171



CW

80 915 ...
51700



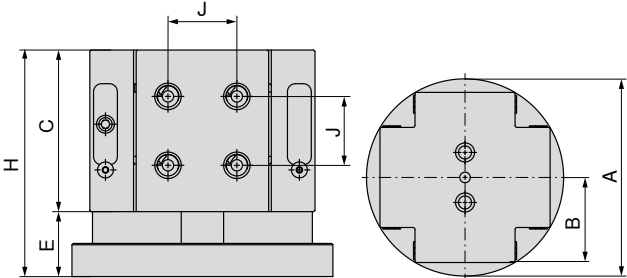
Suitable for: ESG 5 – 80 L-130 / ZSG 4 – 80 L-130 / ZSG mini – 70 L-80 / ZSG mini – 70 L-100

CoreLine – 4-sided clamping tower – MNG mini

- ▲ Incl. 4 x MNG mini zero point clamping systems
- ▲ Order mounting bolts separately
- ▲ Material: hard-anodised aluminium

MNG
mini

52 x 52



A	B	C	E	G _{H7}	H	J _{±0.015}
mm	mm	mm	mm	mm	mm	mm
197	85	122	49	12	171	52

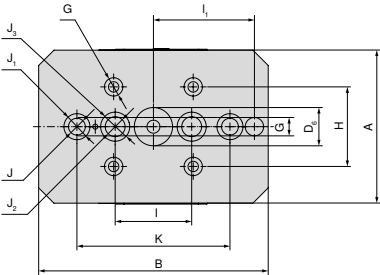
CW

80 915 ...

54000

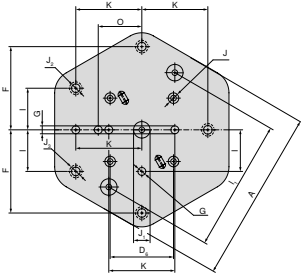
MNG mini underside dimensions

Console



A	B	D ₆	G	H	I	I ₁	J	J ₁	J ₂	J ₃	K
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
100	150	25	12	52	50	66	11	17	13	19	100

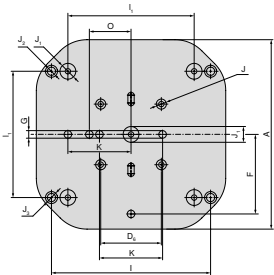
Three-sided pyramid



A	D ₆	F	G	I	I ₁	J	J ₁	J ₂	J ₃	K	O
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
264	96	126	12	63	200	16	25	13	19	100	66

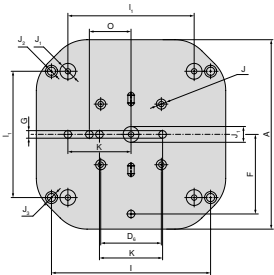
MNG mini underside dimensions

Four-sided pyramid



A	D ₆ ±0,015	F	G H7	I	I ₁ ±0,015	J H7	J ₁ H7	J ₂	J ₃	K ±0,015	O ±0,015
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
300	96	126	12	252	200	16	25	13	19	100	66

Triangular tombstone



A	D ₆	F H7	I ±0,015	J ₁ H7	J ₂	J ₃	K ±0,015	O ±0,015
mm	mm	mm	mm	mm	mm	mm	mm	mm
148	50	12	52	25	13	19	100	66

System accessories overview

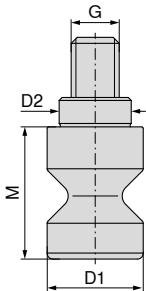
MNG mini mounting bolt set

Scope of supply:
Set contains four mounting bolts

MNG
mini

52 x 52

96 x 96



D ₁ h6 mm	D ₂ h6 mm	M mm	G mm	TQX Nm	Clamping force kN
16	12	22	M8	18	15
20	16	22	M10	18	15

CW
80 915 ...
51600
51100

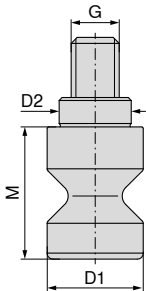
Mounting bolt set – LANG / HWR

Scope of supply:
Set contains four mounting bolts

MNG
mini

52 x 52

96 x 96



D ₁ h6 mm	D ₂ h6 mm	M mm	G mm	TQX Nm	Clamping force kN
15	12	22		18	15
19	16	22	M10	18	15

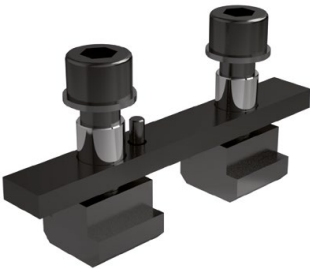
CW
80 915 ...
51500
51400

System accessories overview

Alignment/centering set for T-slots

▲ A = groove spacing

Scope of supply:
1 Terminal block, 2 T-nuts, 2 screws, 2 washers for width 12 mm, without clamping strip!



A	for slot width	CW
mm	mm	
35	12	80 915 ...
35	14	82200
35	16	82400
		82600
40	18	82800
100	12	81200
100	14	81400
100	16	81600
100	18	81800

Clamping Screw Set for T-slot for MNG mini

Scope of supply:
Clamping screw and T-Nuts



for slot width	G	CW
mm		
12	M10	80 915 ...
14	M12	61200
16	M12	61400
18	M12	61600
		61800

System accessories overview

Expansion aid

MNG
mini



D ₁ mm	M mm	
15	40	

CW

80 915 ...

51300

Protection plugs

▲ Protective cover to shield changeover interface

Scope of supply:
Set contains four sealing plugs

MNG
mini

52 x 52

96 x 96



for size	D mm	H mm	
52x52	16	18	
96x96	20	18	

CW

80 915 ...

52100

52200

System accessories overview

Cover disc

Scope of supply:
Set contains 20 cover discs



D	H
mm	mm
20	1,85

CW
80 915 ...
52000

Clamping Screw Set for T-slot for MNG mini

Scope of supply:
Clamping screw and T-Nuts



for slot width mm	G
14	M12
16	M12
18	M12

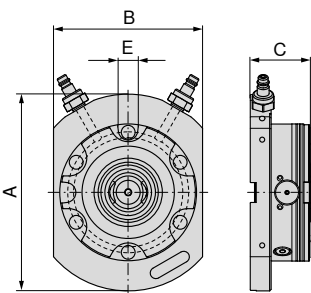
CW
80 915 ...
62400
62600
62800

CoreLine – 1-position clamping station – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 8 kN
- ▲ Insertion force with turbo 28 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG



A	B	C	E _{H7}	WT
mm	mm	mm	mm	kg
198	150	60	20	7

CW

80 809 ...

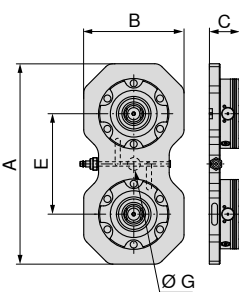
01100

CoreLine – 2-position clamping station – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 16 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG



A	B	C	E	G _{H7}	WT
mm	mm	mm	mm	mm	kg
399	199	60	200	25	16,9

CW

80 809 ...

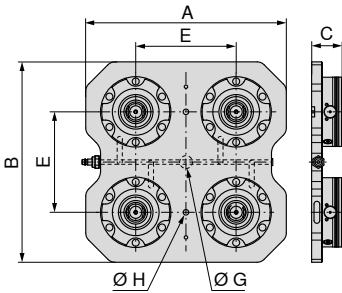
02100

CoreLine – 4-position clamping station – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 32 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG



A	B	C	E	G H7	H	WT
mm	mm	mm	mm	mm	mm	kg
399	399	60	200	25	11	35,7

CW

80 809 ...

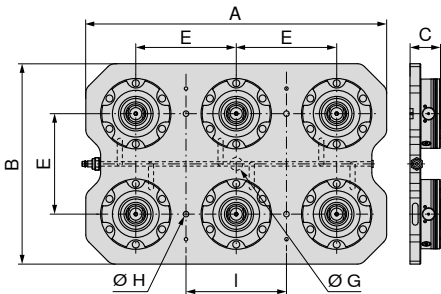
04100

CoreLine – 6-position clamping station – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 48 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG



A	B	C	E	G H7	H	I	WT
mm	mm	mm	mm	mm	mm	mm	kg
599	399	60	200	25	11	200	54,4

CW

80 809 ...

06100

CoreLine – Zero point clamping module SM.138 – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 8 kN
- ▲ Insertion force with turbo 28 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8
- ▲ Repeatability 0.005

Scope of supply:
Clamping module, fixing screws, O-rings, cover caps, operating instructions; without clamping bolts

PNG



A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	55,7	39	121	G1/8"	4,4

CW

80 809 ...

10100

CoreLine – Zero point clamping module SM.V.138 – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 8 kN
- ▲ Insertion force with turbo 28 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8
- ▲ Repeatability 0.005

Scope of supply:
Clamping module, fixing screws, dowel screw, O-rings, cover caps, operating instructions; without clamping bolts, without indexing bolt

PNG



A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	55,7	39	121	G1/8"	4,4

CW

80 809 ...

11100

CoreLine – Zero point clamping system SM.T.138 – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Insertion force 7 kN
- ▲ Insertion force with turbo 24 kN
- ▲ Unlocking pressure 6 bar
- ▲ Air connection G 1/8
- ▲ Repeatability 0.005

Scope of supply:
Clamping module, fixing screws, O-rings, cover caps, operating instructions; without clamping bolts

PNG



A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	59	11	121	G1/8"	3,5

CW

80 809 ...

12100

CoreLine – Aluminium form collet – PNG

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Max. clamping force 50 kN
- ▲ Repeatability 0.005
- ▲ Clamping stroke 0.5 mm
- ▲ Aluminium

Scope of supply:
Aluminium form collet, adjustment ring, clamping bolt, indexing bolt, operating instructions

PNG



A	WT
mm	kg
149	1,5

CW

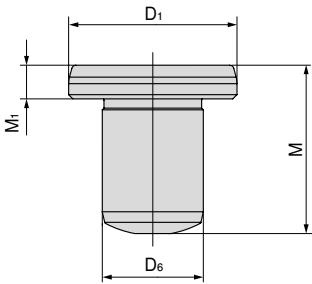
80 809 ...

07600

Indexing bolt

▲ PNG – Pneumatic zero point clamping system

PNG



D_1 h5	M	M_1	D_6 m6
mm	mm	mm	mm
20	15	4	12

CW
80 809 ...
073

Assembly – Clamping bolts

The workpieces or devices being assembled are positioned and fixed with three different clamping bolts:



Centring bolt
Precision-ground, used to precisely position the clamping device.



Positioning bolt
This bolt, which is also known as a diamond bolt, is only ground in an axial direction so that the system is not overloaded.



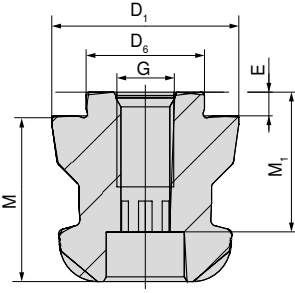
Locking bolt
Ensures that the pallets lie flat on the clamping system. Ground smaller to short taper.

Clamping bolt

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Three bolt types – ZB (centring bolt), PB (positioning bolt), HB (clamping bolt)
- ▲ Precision location bolts ensuring accuracy and repeatability
- ▲ Clamping force 50 kN

Scope of supply:
Incl. M10 fixing screw

PNG



Type	D ₆ H6 mm	D ₁ h6 mm	M mm	M ₁ mm	E mm	G
ZB	25	40	35	27	5	M12
PB	25	40	35	27	5	M12
HB	25	40	35	27	5	M12

CW

80 809 ...

070

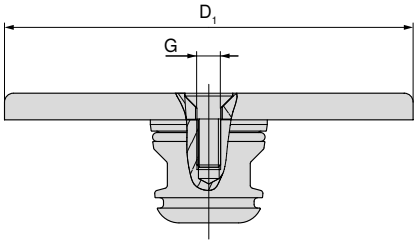
071

072

Protective cover

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Protective cover for the interchangeable interface

PNG



D ₁ mm	G
138	M8

CW

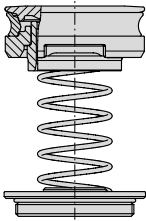
80 809 ...

074

Cone seal

- ▲ PNG – Pneumatic zero point clamping system
- ▲ Protective cover for the interchangeable interface

PNG



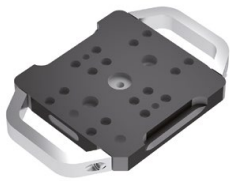
WT kg
0,11

CW

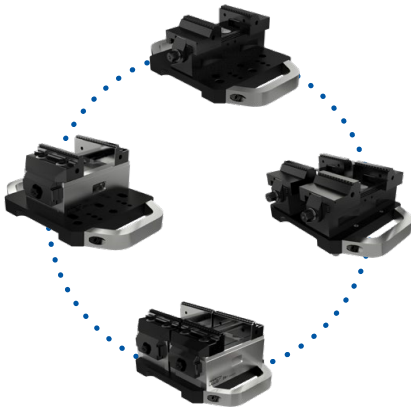
80 809 ...

07500

Overview of multi-adapter pallets



Multi-adapter pallet 159 x 159 mm

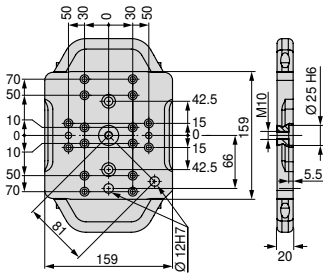


Application examples

CoreLine – Multi-adapter pallet

▲ Multi-adapter pallet for mounting PNG and MNG

Scope of supply:
Incl. clamping bolts and screws
without pull studs



Size	WT kg
159x159 mm	4

CW
80 809 ...
500

Mounting set – multi-adapter pallet

▲ price per set



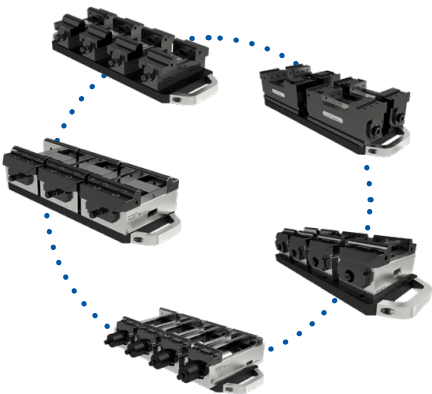
for
ZSG-4.80

CW
80 878 ...
503

Overview of multi-adapter pallets



Multi-adapter pallet 399 x 159 mm

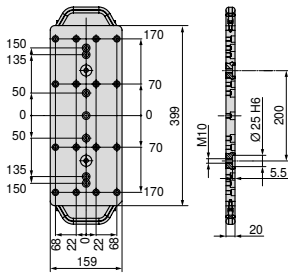


Application examples

CoreLine – Multi-adapter pallet

▲ Multi-adapter pallet for mounting PNG and MNG

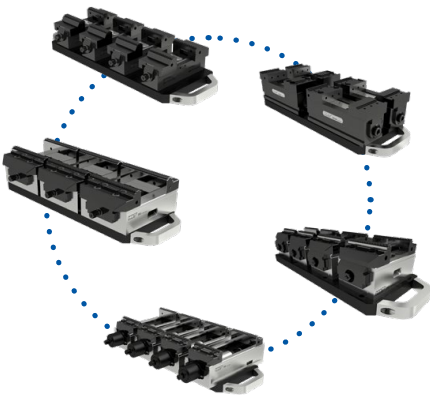
Scope of supply:
Incl. clamping bolts and screws
without pull studs



Size	WT kg
399x159 mm	10

CW
80 809 ...
501

Overview of multi-adapter pallets

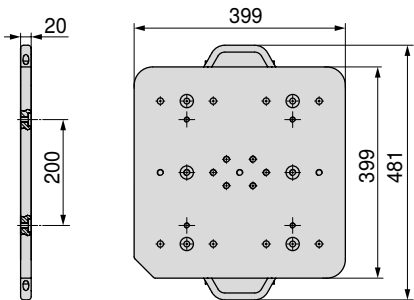


Application examples

CoreLine – Multi-adapter pallet

▲ Multi-adapter pallet for mounting PNG and MNG

Scope of supply:
Incl. clamping bolts and screws
without pull studs



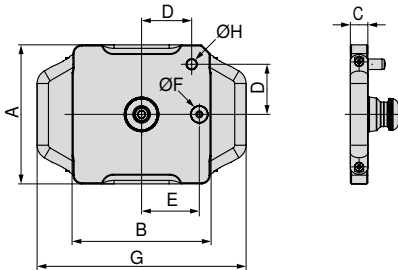
Size	WT kg
399x399 mm	25

CW
80 809 ...
502

CoreLine – Steel clamping pallet

- ▲ Clamping pallet for mounting PNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



Size	A	B	C	D	E	F _{H5}	G	H _{m6}	WT
	mm	mm	mm	mm	mm	mm	mm	mm	kg
159x159 mm	159	159	20	58	66	20	239	12	4,2

CW

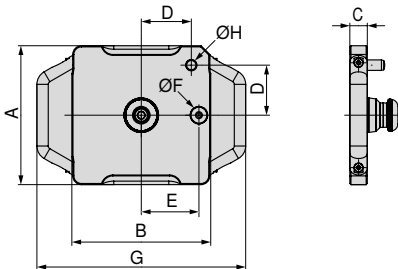
80 809 ...

080

CoreLine – Aluminium clamping pallet

- ▲ Clamping pallet for mounting PNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



Size	A	B	C	D	E	F _{H5}	G	H _{m6}	WT
	mm	mm	mm	mm	mm	mm	mm	mm	kg
159x159 mm	159	159	25	58	66	20	239	12	2,2

CW

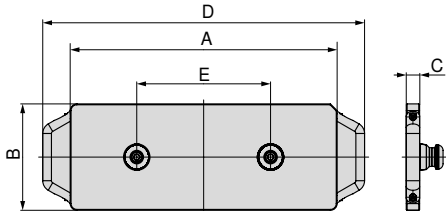
80 809 ...

081

CoreLine – Steel clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



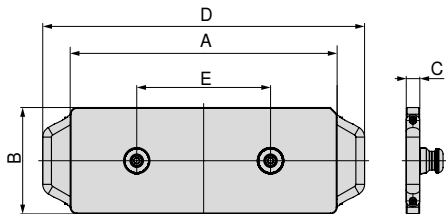
Size	A	B	C	D	E	WT
	mm	mm	mm	mm	mm	kg
399x159 mm	399	159	20	481	200	10,6

CW
80 809 ...
082

CoreLine – Aluminium clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



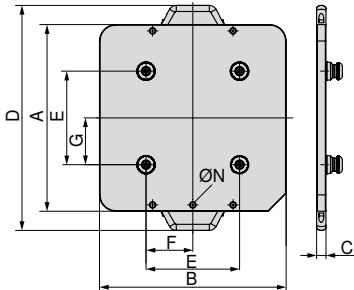
Size	A	B	C	D	E	WT
	mm	mm	mm	mm	mm	kg
399x159 mm	399	159	25	481	200	5,1

CW
80 809 ...
083

CoreLine – Steel clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



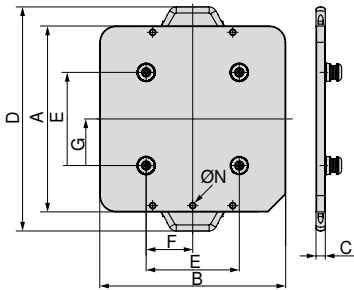
Size	A	B	C	D	E	F	G	N	WT
	mm	mm	mm	mm	mm	mm	mm		kg
399x399 mm	399	399	20	481	200	100	100	M10	28

CW
80 809 ...
084

CoreLine – Aluminium clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



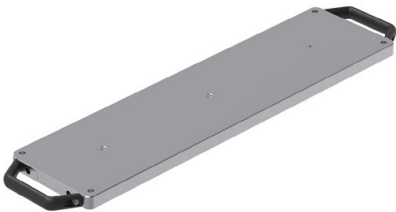
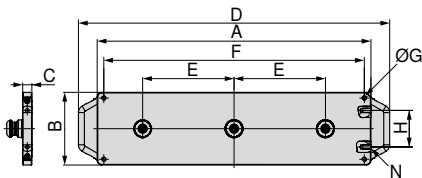
Size	A	B	C	D	E	F	G	N	WT
	mm	mm	mm	mm	mm	mm	mm		kg
399x399 mm	399	399	25	481	200	100	100	M10	12

CW
80 809 ...
085

CoreLine – Steel clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin



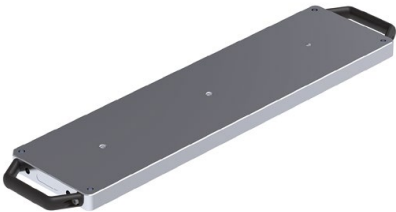
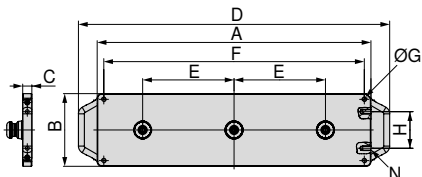
Size	A	B	C	D	E	F	G	H	N	WT
	mm	mm	mm	mm	mm	mm		mm		kg
599x159 mm	599	159	20	681	200	570	M10	80	M10	15,6

CW
80 809 ...
086

CoreLine – Aluminium clamping pallet

- ▲ Clamping pallet for mounting PNG and MNG
- ▲ Without hole pattern

Scope of supply:
Unmachined clamping pallet, PNG clamping bolt and positioning pin

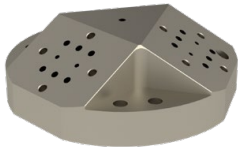
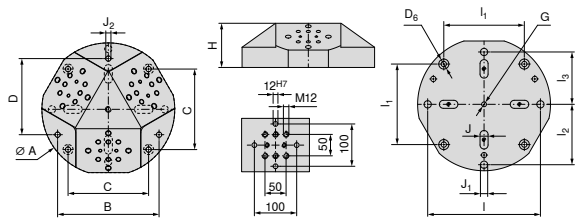


Size	A	B	C	D	E	F	G	H	N	WT
	mm	mm	mm	mm	mm	mm		mm		kg
599x159 mm	599	159	25	681	200	570	M10	80	M10	7,4

CW
80 809 ...
087

CoreLine – pyramid 3-fold 30°

- ▲ Order mounting bolts separately
- ▲ Material: Hard-anodized aluminum



A	B	C	D	D ₆ H7	G H7	H	I	I ₁ ±0,015	I ₂	I ₃	J H7	J ₁ H7	J ₂	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
330	252	200	189	25	12	110	280	200	150	130	20	18	13	17,5

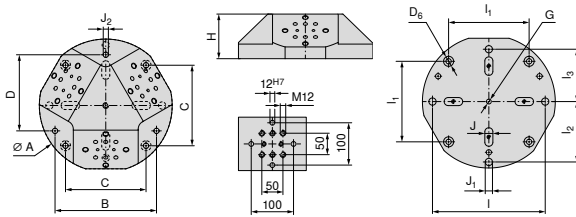
CW

80 911 ...

70500

CoreLine – pyramid 3-fold 40°

- ▲ Order mounting bolts separately
- ▲ Material: Hard-anodized aluminum



A	B	C	D	D ₆ H7	G H7	H	I	I ₁ ±0,015	I ₂	I ₃	J H7	J ₁ H7	J ₂	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
330	252	200	189	25	12	110	300	200	150	45	20	18	13	16,1

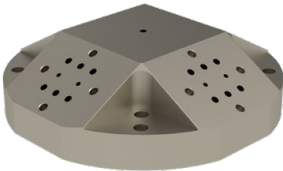
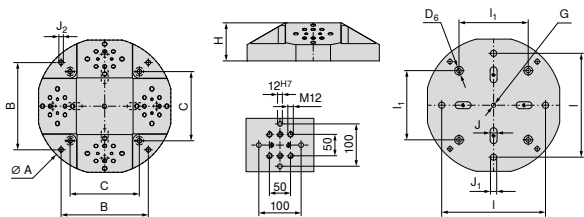
CW

80 911 ...

70600

CoreLine – pyramid 4-fold 30°

- ▲ Order mounting bolts separately
- ▲ Material: Hard-anodized aluminum



A	B	C	D ₆ H7	G H7	H	I	I ₁ ±0,015	J H7	J ₁ H7	J ₂	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
395	252	200	25	12	110	300	200	20	18	13	26,5

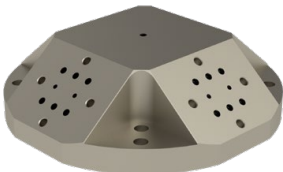
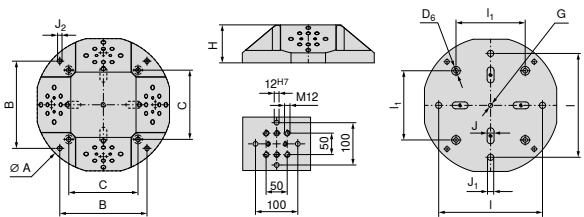
CW

80 911 ...

71000

CoreLine – pyramid 4-fold 40°

- ▲ Order mounting bolts separately
- ▲ Material: Hard-anodized aluminum



A	B	C	D ₆ H7	G H7	H	I	I ₁ ±0,015	J H7	J ₁ H7	J ₂	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
395	252	200	25	12	110	250	200	20	18	13	24,8

CW

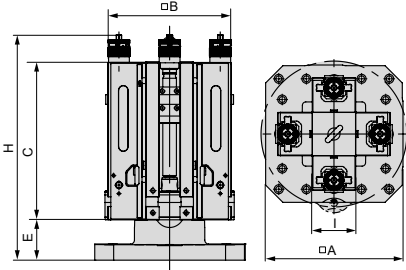
80 911 ...

71100

CoreLine – Cruciform tombstone

▲ For positioning on a 500 x 500 mm machine table with edge locator stops, both spacer plates **8091101000** and **8091101100** must be fitted on the side of the base plate.

NCG



A	B	C	E	H	I	WT
mm	mm	mm	mm	mm	mm	kg
400	326	390	100	559	125	225,5
400	326	390	100	559	125	225,0

CW

80 890 ...

51100 ¹⁾

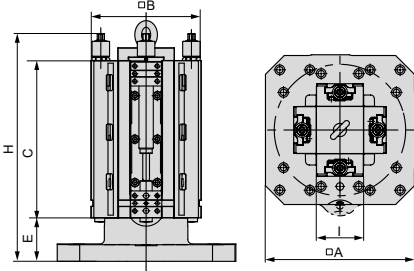
51000 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ For positioning on a 500 x 500 mm machine table with edge locator stops, both spacer plates **8091101000** and **8091101100** must be fitted on the side of the base plate.

ESG
4



A	B	C	E	H	I	WT
mm	mm	mm	mm	mm	mm	kg
400	246	362	100	523	125	160,5
400	246	362	100	523	125	160,0

CW

80 901 ...

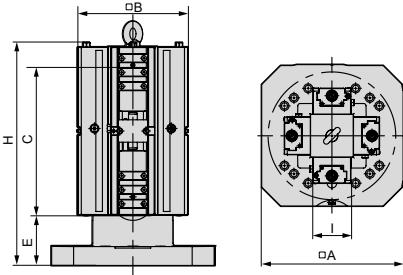
55100 ¹⁾

55000 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

DSG
4



A	B	C	E	H	I	WT
mm	mm	mm	mm	mm	mm	kg
300	201	300	90	298	80	76

CW

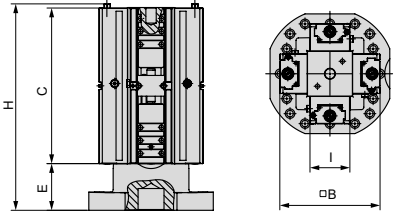
80 906 ...

55000 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

DSG
4



A	B	C	E	H	I	WT
mm	mm	mm	mm	mm	mm	kg
300	90	201	100	523	80	68,2
300	90	201	100	523	80	68,0

CW

80 906 ...

55200 ¹⁾

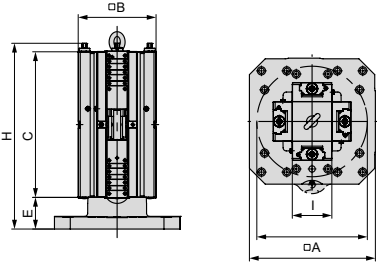
55100 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ For positioning on a 500 x 500 mm machine table with edge locator stops, both spacer plates **8091101000** and **8091101100** must be fitted on the side of the base plate.

DSG
4



A	B	C	E	H	I	WT
mm	mm	mm	mm	mm	mm	kg
400	246	460	100	587	125	190,5
400	246	390	100	517	125	170,0
400	246	390	100	517	125	170,5
400	246	460	100	587	125	190,0
400	246	530	100	657	125	210,0
400	246	530	100	657	125	210,5

CW

80 906 ...

55600 ¹⁾

55300 ¹⁾

55400 ¹⁾

55500 ¹⁾

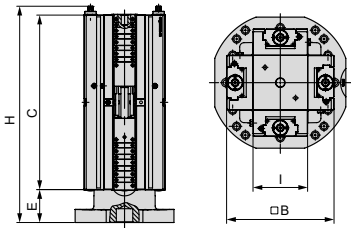
55700 ¹⁾

55800 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

DSG
4



B	C	E	H	I	WT
mm	mm	mm	mm	mm	kg
246	390	100	517	125	190

CW

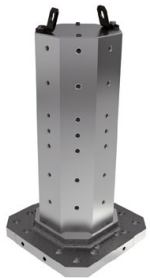
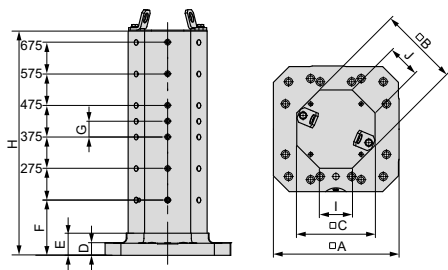
80 906 ...

55900 ¹⁾

1) Not ex-stock

CoreLine – Octagonal tombstone

▲ reduced grid pattern



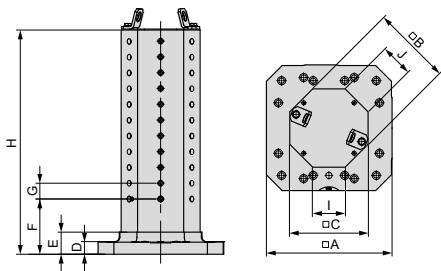
A	B ±0.02	C ±0.02	D	E	F	G	H	I	J	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	280	250	40	70	175	50	710	104	104	150
500	280	250	40	70	175	50	710	104	104	175

CW
80 911 ...
646 ¹⁾
651 ¹⁾

1) Not ex-stock

CoreLine – Octagonal tombstone

▲ 8 faces, 50 mm grid pattern
▲ Coordinates of the grid holes numbered (horizontal: letter, vertical: number)



A	B ±0.02	C ±0.02	D	E	F	G	H	I	J	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
500	355	340	40	70	175	50	1000	162	126	211

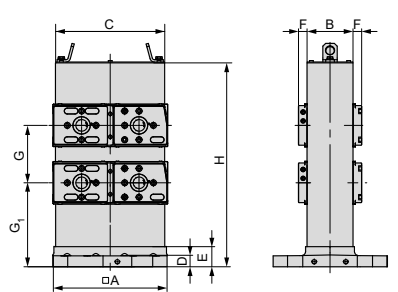
CW
80 911 ...
525 ¹⁾

1) Not ex-stock

CoreLine – Double sided tombstone

▲ 4 MNG square baseplates mounted on clamping faces

MNG



A	B ±0.02	C ±0.02	D	E	F ±0.005	G	G1	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	160	380	40	70	30	200	300	710	240
500	160	380	40	70	30	200	300	710	265

CW

80 911 ...

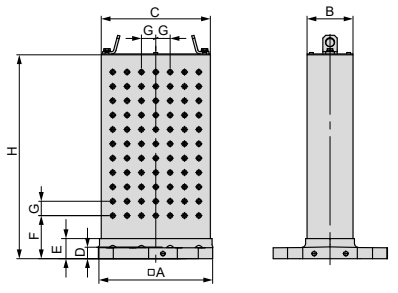
575 ¹⁾

580 ¹⁾

1) Not ex-stock

CoreLine – Double sided tombstone

▲ 50 mm grid pattern
▲ Coordinates of the grid holes numbered (horizontal: letter, vertical: number)



A	B ±0.02	C ±0.02	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	kg
400	160	380	40	70	150	50	710	190
500	160	380	40	70	150	50	710	215
500	220	480	40	70	150	50	1000	350

CW

80 911 ...

555 ¹⁾

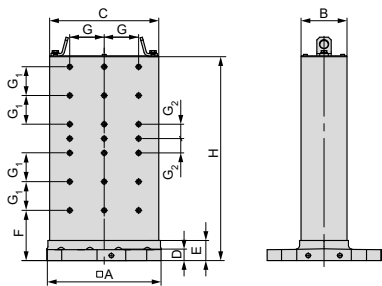
560 ¹⁾

505 ¹⁾

1) Not ex-stock

CoreLine – Double sided tombstone

▲ reduced grid pattern



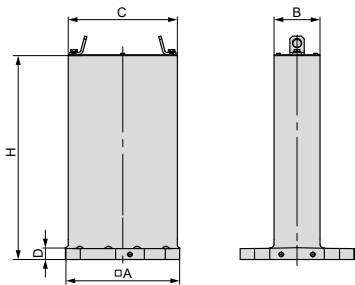
A	B ±0.02	C ±0.02	D	E	F	G	G ₁	G ₂	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	160	380	40	70	175	120	100	50	710	192
500	160	380	40	70	175	120	100	50	710	217

CW
80 911 ...
565 ¹⁾
570 ¹⁾

1) Not ex-stock

CoreLine – Double sided tombstone

▲ rough clamping faces (unmachined)
▲ machined base



A	B ±0.02	C ±0.02	D	H	WT
mm	mm	mm	mm	mm	kg
400	170	390	40	710	221
500	170	390	40	710	244
500	220	490	40	1000	355

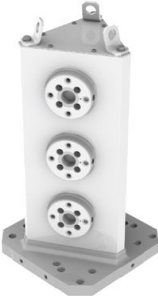
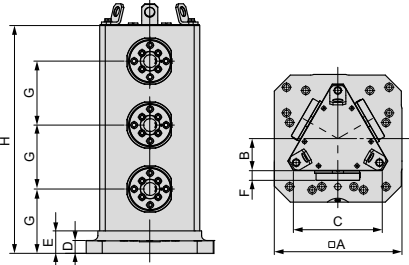
CW
80 911 ...
585 ¹⁾
590 ¹⁾
500 ¹⁾

1) Not ex-stock

CoreLine – Triangular tombstone

▲ 9 MNG round baseplates mounted on clamping faces

MNG



A	B ±0.02	C	D	E	F ±0.005	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	kg
400	100	277	40	70	30	200	710	203
500	100	277	40	70	30	200	710	228

CW

80 911 ...

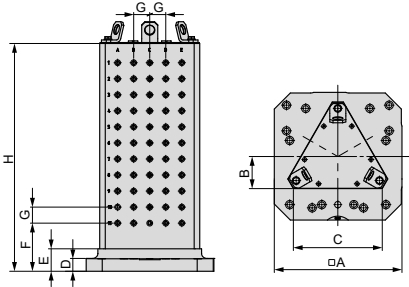
615 ¹⁾

620 ¹⁾

1) Not ex-stock

CoreLine – Triangular tombstone

- ▲ 50 mm grid pattern
- ▲ Coordinates of the grid holes numbered (horizontal: letter, vertical: number)



A	B ±0.02	C	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	kg
400	100	277	40	70	150	50	710	170
500	100	277	40	70	150	50	710	195
500	100	277	40	70	150	50	1000	242

CW

80 911 ...

595 ¹⁾

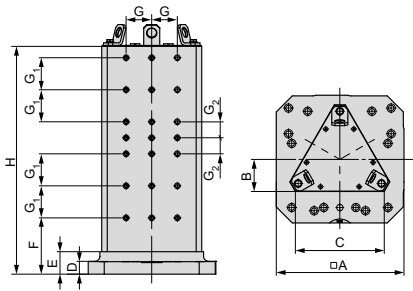
600 ¹⁾

535 ¹⁾

1) Not ex-stock

CoreLine – Triangular tombstone

▲ reduced grid pattern



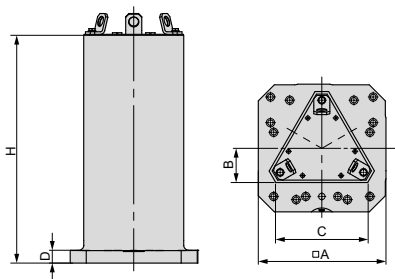
A	B ±0.02	C	D	E	F	G	G ₁	G ₂	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	100	277	40	70	175	80	100	50	710	172
500	100	277	40	70	175	80	100	50	710	197

CW
80 911 ...
605 ¹⁾
610 ¹⁾

1) Not ex-stock

CoreLine – Triangular tombstone

▲ rough clamping faces (unmachined)
▲ machined base



A	B	C	D	H	WT
mm	mm	mm	mm	mm	kg
400	105	283	40	710	195
500	105	283	40	710	220
500	105	283	40	1000	278

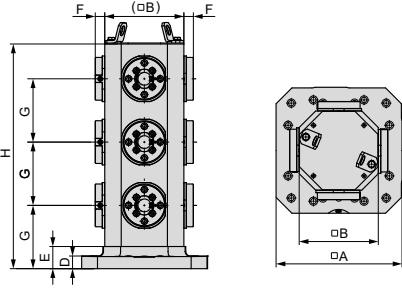
CW
80 911 ...
625 ¹⁾
630 ¹⁾
530 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ 12 MNG round baseplates mounted on clamping faces

MNG



A	B ±0.02	D	E	F ±0.005	G	H	WT
mm	mm	mm	mm	mm	mm	mm	kg
400	250	40	70	30	200	710	212
500	250	40	70	30	200	710	237

CW

80 911 ...

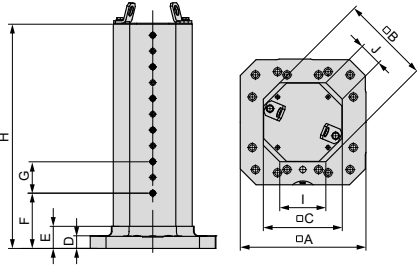
655 ¹⁾

660 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ 4 faces, reduced grid pattern



A	B ±0.02	C	D	E	F	G	H	I	J	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
500	340	340	40	70	175	50	1000	162	126	295

CW

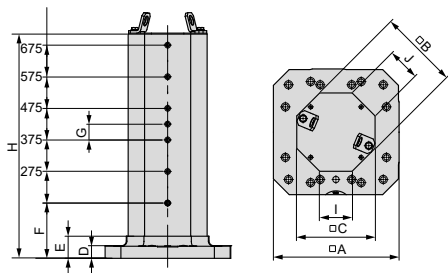
80 911 ...

510 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ reduced grid pattern



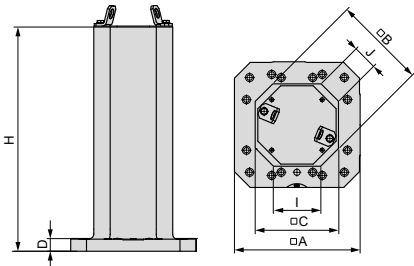
A	B ±0.02	C	D	E	F	G	H	I	J	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	280	250	40	70	175	50	710	146	74	170
500	280	250	40	70	175	50	710	146	74	195

CW
80 911 ...
636 ¹⁾
641 ¹⁾

1) Not ex-stock

CoreLine – Cruciform tombstone

▲ rough clamping faces (unmachined)
▲ machined base



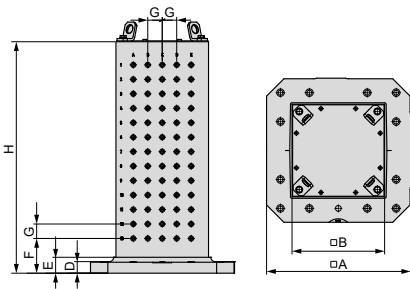
A	B	C	D	H	I	J	WT
mm	mm	mm	mm	mm	mm	mm	kg
400	290	260	40	710	150	76	195
500	290	260	40	710	150	76	220
500	355	350	40	1000	150	76	279

CW
80 911 ...
665 ¹⁾
670 ¹⁾
520 ¹⁾

1) Not ex-stock

CoreLine – Cube tombstone

- ▲ 50 mm grid pattern
- ▲ Coordinates of the grid holes numbered (horizontal: letter, vertical: number)



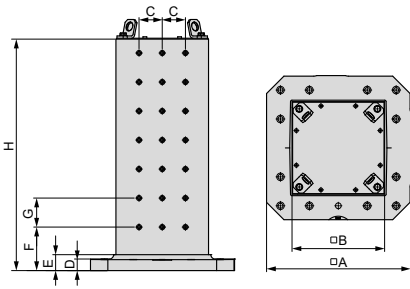
A	B ±0.02	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	kg
400	250	40	55	120	50	600	155
500	320	40	55	120	50	800	276
500	320	40	55	120	50	1000	327

CW
80 911 ...
675 ¹⁾
680 ¹⁾
550 ¹⁾

1) Not ex-stock

CoreLine – Cube tombstone

- ▲ reduced grid pattern



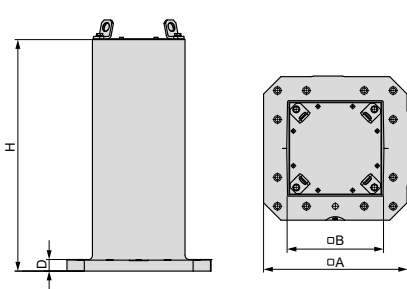
A	B ±0.02	C	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	kg
400	250	70	40	55	135	100	600	157
500	320	80	40	55	150	100	800	279
500	320	80	40	55	150	100	1000	331

CW
80 911 ...
685 ¹⁾
690 ¹⁾
540 ¹⁾

1) Not ex-stock

CoreLine – Cube tombstone

- ▲ rough clamping faces (unmachined)
- ▲ machined base



A	B	D	H	WT
mm	mm	mm	mm	kg
400	260	40	600	180
500	330	40	800	320
500	330	40	1000	385

CW
80 911 ...
695 ¹⁾
700 ¹⁾
545 ¹⁾

1) Not ex-stock

Distance plate

▲ base plate 500 x 500 mm



Size	WT kg
250X50X36 mm	3,4

CW

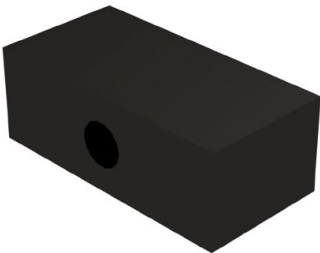
80 911 ...

01000 ¹⁾

1) Not ex-stock

Distance Plate narrow

▲ base plate 500 x 500 mm



Size	WT kg
100X50X36 mm	1,3

CW

80 911 ...

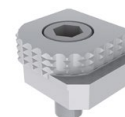
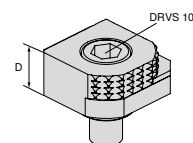
01100 ¹⁾

1) Not ex-stock

General top jaws overview

6 function indexable jaw

- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ $M_{max} = 60 \text{ Nm}$
- ▲ Including fixation screws

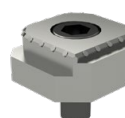
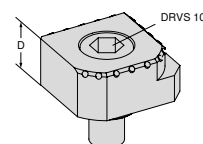


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892246	●	●	●	●			●		●	●	

6x indexable jaw, carbide grip

- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8 mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws

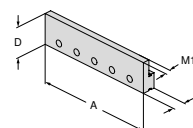


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
			18						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089035300	●	●	●	●			●		●	●	

Positioning bar

- ▲ for stepped jaw with T-slot
- ▲ different clamping depths achievable through milling
- ▲ by milling the bar can be used as stop strip
- ▲ Material 1.7131 can be hardened if required
- ▲ Price per piece



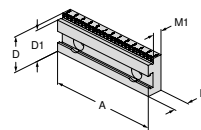
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		32				13,5	7	
	125		32				13,5	7	
	160		32				13,5	7	

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892338	●					●					●
80892339	●	●		●		●	●		●		●
80892340	●			●		●	●				

General top jaws overview

Stepped jaw, grip with T-slot

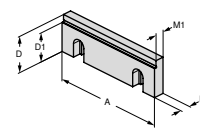
- ▲ T-slot for accommodating a positioning bar
- ▲ with 6.5 mm wide contact surface suitable for workpieces with rough edges
- ▲ laser etched graduation marks (2 mm) as a positioning aid
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
100			35	32			17,5	11,5		80892341	●					●					●
100			35	30			17,5	11,5		80892342	●					●					●
100			35	27			17,5	11,5		80892343	●					●					●
125			40	37			17,5	11,5		80892344	●	●		●		●	●		●		●
125			40	35			17,5	11,5		80892345	●	●		●		●	●		●		●
125			40	32			17,5	11,5		80892346	●	●		●		●	●		●		●
160			50	45			20	13,5		80892348	●			●		●	●		●		●
160			50	42			20	13,5		80892349	●			●		●	●				

Stepped jaw, smooth

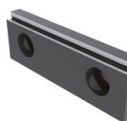
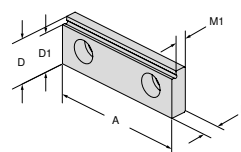
- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
100			35	30			10	7,5		8089221400	●					●					●
125			40	32			11,5	9,5		8089221500	●	●		●		●	●		●		●
160			50	42			13,5	10,5		8089221600	●			●		●	●				

Stepped jaw, smooth

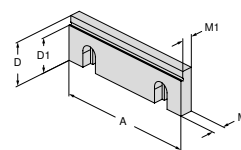
- ▲ Can be used as smooth or stepped jaw
- ▲ Jaw hardened and ground
- ▲ price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
65			22	19			8	5,5		80895332	●										

Stepped jaw, coated 5 mm

- ▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80			28	23			10	7,5		8087831400	●			●			●		●		

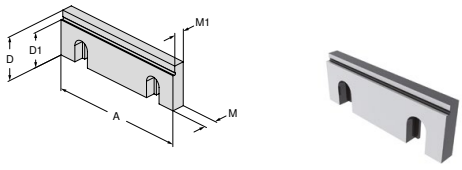
General top jaws overview

Stepped jaw, coated 5 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35	30			10	7,5	
	125		40	35			11,5	9,5	
	160		50	45			13,5	10,5	

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089236300	●					●					
80892250	●	●		●		●	●		●		●
8089236400	●			●		●	●				

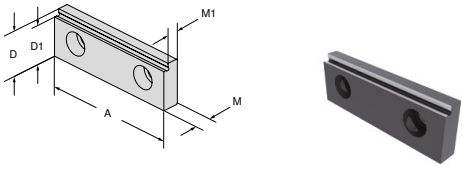


Stepped jaw, 5 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	80		28	23			10	7,5	

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80878830				●			●		●		

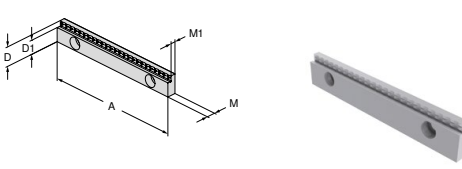


Stepped jaw, Grip

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		18	13			8	5,5	
	125		18	15			8	5,5	

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80898252		●		●					●		
80898250		●		●					●		

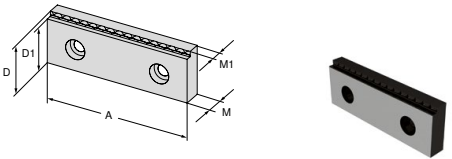


General top jaws overview

Stepped jaw, grip, 3 mm

▲ Price per piece

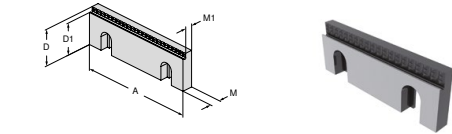
For vice width										CW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</



Stepped jaw, grip 3, 5 and 8 mm

▲ Price per piece

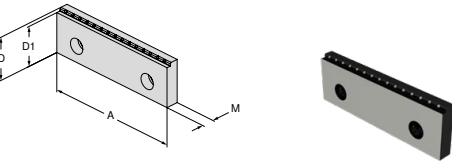
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
	100		35	27			10	7,5			CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	100		35	30			10	7,5			8089229200	●					●					●
	100		35	32			10	7,5			8089229000	●					●					●
	100		35	32			10	7,5			8089229400	●					●					●
	125		40	32			11,5	9			8089229300	●	●		●		●	●		●		●
	125		40	35			11,5	9			8089229100	●			●		●	●		●		●
	125		40	37			11,5	9			8089229500	●	●		●		●	●		●		●
	160		50	42			13,5	11			8089229900	●			●		●	●				●
	160		50	45			13,5	11			8089229800	●			●		●	●				●
	160		50	47			13,5	11			8089229700	●			●		●	●				●



Stepped jaw, carbide grip 3 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
	100		35	32			7,5				CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	125		40	37			11,5				8089237600	●	●		●		●	●		●		
	160		50	47			13,5				8089236500	●	●		●		●	●		●		
											8089237400	●	●		●		●	●		●		

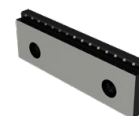
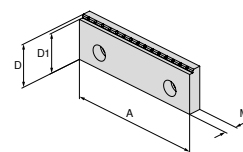


General top jaws overview

Stepped jaw, carbide grip 5 mm

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35	30			12		
	125		40	35			13,5		
	160		50	45			15,5		

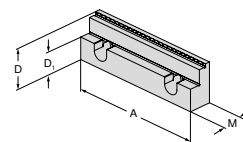


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089237700	●	●		●		●	●		●		
8089237500	●	●		●		●	●		●		
8089237300	●	●		●		●	●		●		

Stepped jaw, 18 mm with 3 mm Grip Step

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		40	22			21,5		

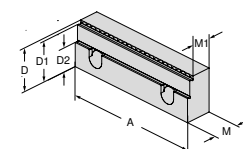


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892288	●	●		●		●	●		●		●

Stepped jaw, 18 mm with 3 mm grip step

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		40	37	22		24	19	

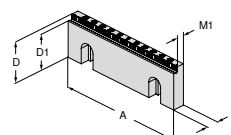


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80907302	●	●		●		●	●		●		●

Stepped jaw, grip 5 mm for aluminium and plastic

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		40	35			11,5	8	



CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089236100	●	●		●		●	●		●		

General top jaws overview

Stepped jaw embossed profile

- ▲ Price per piece
- ▲ suitable for LANG embossed profile

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		40	37			11,5		

CW

8089236200

NCG

H5G / -S / -Z

X5G-Z / -S

ESG 4

ESG 5

HDG 2

ZSG 4

ZSG mini

DSG 4

Verso

HSG

Jaw, grip

- ▲ Price per piece

Illustration	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
A	40		22	7			7,8		
A	65		22	7			7,8		
A	90		22	7			7,8		
B	100		35	12			10		
B	125		40	14,5			11,5		
B	160		50	14,5			13,5		

Technical drawing and 3D model of a jaw with a grip profile. The drawing shows dimensions A, D, D1, and M. The 3D model shows the profile with a series of ridges.

CW

	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892279										●	
80892280										●	
80892284										●	
8089221700	●					●					●
8089221800				●					●		●
8089221900	●			●		●	●				

Top jaw, grip

- ▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	125		18				7,8		

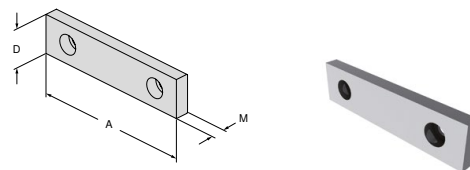
CW											
	80898253	●	●	●	●	●	●	●	●	●	●
	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG

General top jaws overview

Ground top jaw

▲ Price per piece

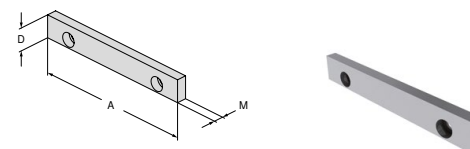
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	40		22				7,7			80889401										•	
	40		35				10			80889405										•	
	65		22				7,7			80889651										•	
	65		35				10			80889655										•	
	90		22				7,7			80889901										•	
	90		35				10			80889905										•	



Ground top jaw

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	125		18				7,6			80898251	•	•		•					•		

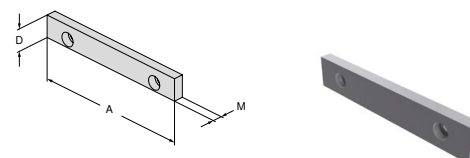


Top jaw, carbide coated

▲ with carbide coating

▲ Price per piece

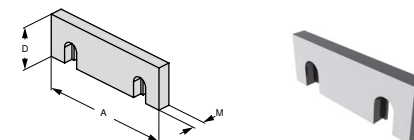
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	125		18				7,6			80898254	•	•		•					•		



Smooth jaw

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	100		35				10			8089220400	•					•					•
	125		40				11,5			8089220500	•			•		•	•		•		•
	160		50				13,5			8089220600	•			•		•	•				

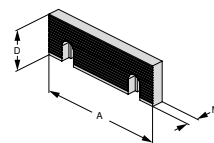


General top jaws overview

Jaw, profiled

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35				10		
	125		40				11,5		
	160		50				13,5		



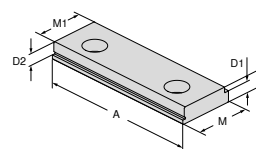
CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089220700	●					●					●
8089220800	●			●		●	●		●		●
8089220900	●			●		●	●				

Grip jaw, indexable

▲ For vertical and horizontal application

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	65		8	5,5	5		22	19	
	100		10,5	8	5		35	32	



CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80895340		●					●				
80895343	●					●					●

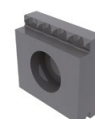
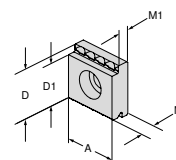
Grip jaw, indexable

▲ For vertical and horizontal application

▲ 3 point clamping

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
65	22		22	19			8	5,5	
100	35		35	32			10,5	8	

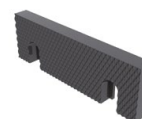
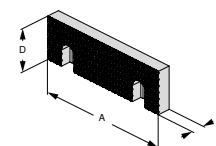


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80895335		●					●				
80895345	●					●					

Jaw, cut

▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35				11		
	125		40				12,5		
	160		50				14,5		

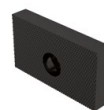
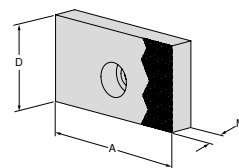


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089220100	●					●					●
8089220200	●			●		●	●		●		●
8089220300	●			●		●	●				

General top jaws overview

Jaw, cut

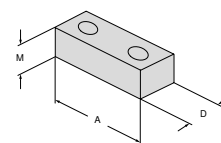
▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
	40		35				11			80889408											●	
	40		22				8			80889404											●	
	65		35				11			80889658											●	
	65		22				8			80889654											●	
	90		35				11			80889908											●	
	90		22				8			80889904											●	

Soft jaw, steel

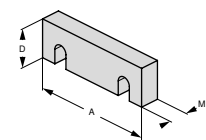
- ▲ Material: 16MnCr5
- ▲ Only for vertical application
- ▲ Price per piece



										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
40			22				20															
65			22				20															
90			22				20			80895244											●	
										80895245		●		●			●				●	
										80895246											●	

Soft jaw, steel

- ▲ Material: 14NiCr14
- ▲ for the preparation of formed jaws
- ▲ Price per piece



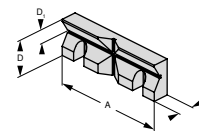
										CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂													
	100		35				16			8089224700	●					●						●
	125		40				20			8089224800	●	●		●		●	●		●			●
	160		50				20			8089224900	●			●		●	●			●		●

General top jaws overview

Prismatic jaw

- ▲ with horizontal and vertical prism
- ▲ prism horizontally and vertically ground for parallelism
- ▲ Price per piece

For clamping diameter	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
11 - 41	100		35	13			15,5		
14 - 48	125		40	16			17,5		
16 - 60	160		50	20			19,5		

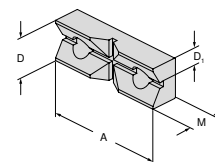


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
8089226100	●					●					●
8089226200	●	●				●					●
8089226300	●			●		●	●				

Prismatic jaw

- ▲ with horizontal and vertical prism
- ▲ price per piece

For clamping diameter	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
11 - 22	65		22	11			15		

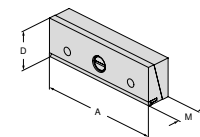


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80895337	●						●				

Precision pull down jaw

- ▲ Pull down jaw is only for use on the movable jaw
- ▲ Price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35				25		
	125		40				25		
	160		50				27,5		

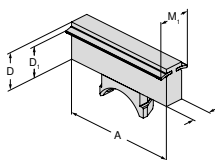


CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892370	●										●
80892371	●	●		●		●	●		●		●
80892372	●			●		●	●				

Adapter jaws with pull down

- ▲ for the types NCG, NCG2, and HDG2
- ▲ with reciprocal pull down feather/spring jaws
- ▲ price per piece

For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	100		35	28			28	45	
	125		40	32,5			20	35	
	160		50	42			20	35	



CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80892258	●										
80892259	●					●					
80892260	●					●					

General top jaws overview

Multipin front jaw

▲ Price per piece

NCG	H5G	H5G -Z	ESG 4	HDG 2	ZSG 4	DSG 4
-----	-----	-----------	----------	----------	----------	----------

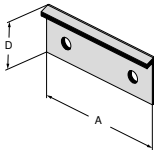


A	D
mm	mm
125	40

CW
80 890 ...
30200

Pull down jaw with spring plate

▲ for finish machining
▲ Price per piece

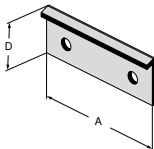


For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	80		24						
	125		35						
	160		45						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80901309				•			•		•		
80901310				•			•		•		
80901311				•			•				

Pull down jaw with spring plate

▲ for finish machining
▲ Price per piece



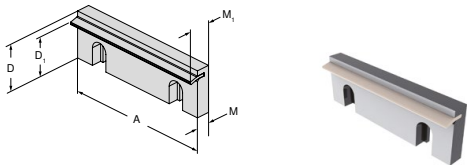
For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂
	65		23						
	100		36						
	125		41						
	160		51						

CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80898923											
80898924	•					•					•
80898925	•					•					•
80898926	•					•					

General top jaws overview

Spring leaf pull down jaw

▲ Price per piece



For vice width	A	A ₁	D	D ₁	D ₂	E	M	M ₁	M ₂	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
	100		35	28			10	18,5		8089222800	●					●					●
	125		40	32,5			11,5	19		8089222900	●			●		●	●			●	●
	160		50	42			13,5	21		8089223000	●			●		●	●				

Magnet workpiece supports, set



- ▲ With clearance on the underside
- ▲ Flexible and rational clamping
- ▲ Height accuracy +/- 0.01 mm
- ▲ Quick and easy to install thanks to magnetic adhesion

Workpiece supports overview

Magnet workpiece supports, set

- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set



			CW											
A	D	M		NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
80	5 / 10 / 15 / 20 / 22	2,5	8087879800			●	●			●		●		
125	8 / 12 / 15 / 20 / 22	2,5	8087879700	●		●	●		●	●		●		
125	8 / 12 / 20 / 25 / 27	2,5	8087879900	●		●	●		●	●		●		

Magnet workpiece supports, set

- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set



			CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
A	D	M												
100	12 / 20 / 25 / 30 / 32	2,5	8089279700	●		●			●	●				
125	12 / 25 / 30 / 35 / 37	2,5	8089279800	●		●			●	●		●		
160	15 / 30 / 40 / 45 / 47	2,5	8089279900	●		●	●		●	●				

Magnet workpiece supports, set

- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set



A	D	M	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
125	9 / 22 / 27 / 32 / 34	2,5	8090179900	●		●			●	●		●		

Workpiece supports overview

Magnet workpiece supports

▲ Price per pair



				CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG
A	D	M													
80	5	2,5		8089279600			•	•			•		•		
80	10	2,5		8089279500	•		•	•		•	•		•		
80	15	2,5		8089279400			•	•			•		•		
80	20	2,5		8089279300			•	•		•	•		•		
80	22	2,5		8089279200			•	•			•		•		
100	12	2,5		8089279100	•		•			•	•				
100	20	2,5		8089279000	•		•			•	•				
100	25	2,5		8089278900	•		•			•	•				
100	27	2,5		8089278800	•		•			•	•				
100	29	2,5		8089278700	•		•			•	•				
100	30	2,5		8089278600	•		•			•	•				
100	31	2,5		8089278500	•		•			•	•				
100	32	2,5		8089278400	•		•			•	•				
125	8	2,5		8089278300	•		•			•	•		•		
125	9	2,5		8089278200	•		•			•	•		•		
125	10	2,5		8089278100	•		•			•	•		•		
125	12	2,5		8089278000	•		•			•	•		•		
125	15	2,5		8089277900	•		•			•	•		•		
125	20	2,5		8089277800	•		•			•	•		•		
125	22	2,5		8089277700	•		•			•	•		•		
125	23	2,5		8089277600	•		•			•	•		•		
125	25	2,5		8089277500	•		•			•	•		•		
125	27	2,5		8089277400	•		•			•	•		•		
125	30	2,5		8089277300	•		•			•	•		•		
125	31	2,5		8089277200	•		•			•	•		•		
125	32	2,5		8089277100	•		•			•	•		•		
125	33	2,5		8089277000	•		•			•	•		•		
125	34	2,5		8089276900	•		•			•	•		•		
125	35	2,5		8089276800	•		•			•	•		•		
125	36	2,5		8089276700	•		•			•	•		•		
125	37	2,5		8089276600	•		•			•	•		•		
160	15	2,5		8089276500	•		•			•	•				
160	22	2,5		8089276400	•		•			•	•				
160	30	2,5		8089276300	•		•			•	•				
160	37	2,5		8089276200	•		•			•	•				
160	40	2,5		8089276100	•		•			•	•				
160	41	2,5		8089276000	•		•			•	•				
160	42	2,5		8089275900	•		•			•	•				
160	43	2,5		8089275800	•		•			•	•				
160	44	2,5		8089275700	•		•			•	•				
160	45	2,5		8089275600	•		•			•	•				
160	46	2,5		8089275500	•		•			•	•				
160	47	2,5		8089275400	•		•			•	•				

Workpiece supports overview

Workpiece support, magnetic

Scope of supply:
Including stop pin 50 mm/100 mm



115x15



60x15

for width mm		Size	CW	
80/100/125/160		60x15	80 892 ...	23800
80/100/125/160		115x15		23900

Accessories General Overview

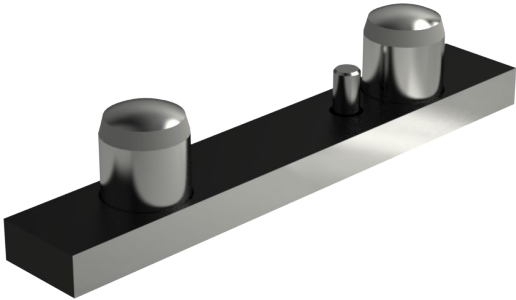
Alignment and centering kit for T-slots

▲ Price per piece

H5G
-Z

ESG
4

DSG
4



I mm	for slot width mm	
100	14	
100	16	
100	18	

CW

80 897 ...

114

116

118

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

ESG
4

ZSG
4

DSG
4



for width mm	G	
12	M10	
14	M12	
16	M12	
18	M12	

CW

80 899 ...

312 ¹⁾

314

316

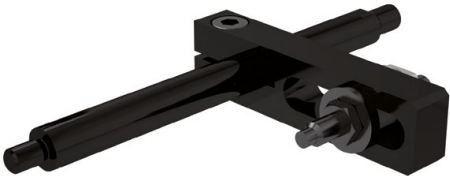
318

1) Version with washers

Accessories General Overview

Workpiece stop

- NCG
- H5G
- ESG
4
- HDG
2
- ZSG
4
- DSG
4



CW

80 892 ...

400

Workpiece stop

- ESG
4
- ZSG
4
- DSG
4



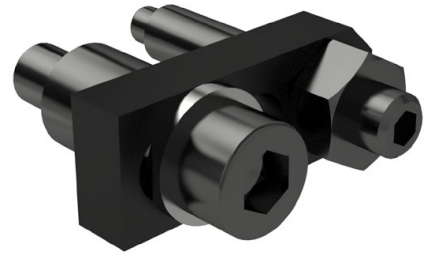
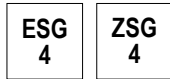
CW

80 895 ...

010

Accessories General Overview

Workpiece stop



CW

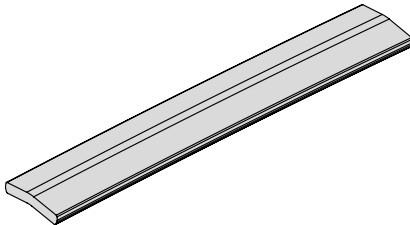
80 884 ...

400

Replacement spring plates

▲ price per piece

▲ for pull down and intermediate jaws

for width
mm
125

CW

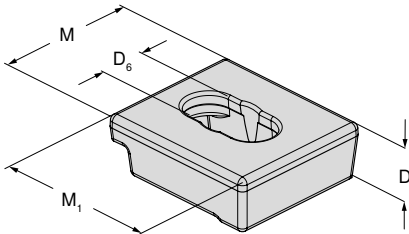
80 892 ...

431

Accessories General Overview

Clamping claws

▲ Price for 2 pieces



D	D ₆	M	M ₁
mm	mm	mm	mm
20	16	50	57

CW
80 890 ...
315

▲ without socket



Torque in Nm	Square drive	DRVS	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DVG 4	Verso	HSG	MNG	MNG mini
	1/2"		80891600				●			●						

▲ without socket



Torque in Nm	Square drive	DRVS	AS	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
10 - 100	1/2"		80884502			●	●		●	●	●	●				
20 - 200	1/2"		80884504			●	●		●	●	●	●				

▲ without socket



Torque in Nm	Square drive	DRVS	AS	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
5 - 50	3/8"		80884402								●		●		●	

▲ Torque key incl. socket, screwdriver A/F10 and 1/2" extension

[illegible]

Clamping levers overview

Socket

▲ Suitable for 1/2" or 3/8" square drive



Torque in Nm	Square drive	DRVS	AS	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
	3/8"	5	80877105													
	3/8"	6	8087710600													●
	3/8"	8	80877108										●		●	
	1/2"	8	80877208													
	1/2"	10	80877210													
	1/2"	14	80877214			●										

Socket

▲ Suitable for 1/2" or 3/8" square drive



Torque in Nm	Square drive	DRVS	AS	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
	3/8"	7	80875107													
	3/8"	11	8087511100								●					
	3/8"	12	80875112				●			●		●				
	1/2"	12	80875212				●			●		●				
	1/2"	14	80875214				●			●		●				

Clamping screw for top jaws



			CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
For vice width	G	J ₁₇														
	M8x12		80892296	●	●				●	●						
	M6x8		80895013								●		●			

For vice width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
M8x10			80889950	●	●					●	●					

[illegible]

For vice width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HdG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
M12x45				80899124												

Screws Overview

Dowel screws

▲ Price for 2 pieces



For vice width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
100	M12x38	12	80890313	●			●									
125 / 160	M16x55	16	80890314	●												

Dowel screw

▲ Price for 2 pieces



For vice width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
125	M12x45	12	80895019		●	●	●				●	●			●	

Clamping screw and T-Nuts

▲ For mounting the clamping claw
▲ Price per 2 pieces



For slot width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
12	M10		80890308	●	●		●									
14	M12		80890309	●	●		●		●	●		●	●			
16	M14		80890310	●	●		●		●	●		●	●			
18	M16		80890311	●	●		●		●	●		●	●			

Clamping screws for round clamps, T-Nut

▲ incl. nut and washer
▲ Price per 2 Pieces



For slot width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
12	M10		80899112										●		●	
14	M12		80899114										●		●	
16	M12		80899116										●		●	
18	M12		80899118										●		●	

Screws Overview

Tenon incl. screw

▲ Price per 2 pieces



For slot width	G	J ₁₇	CW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	HDG 2	ZSG 4	ZSG mini	DSG 4	Verso	HSG	MNG	MNG mini
12	M6		80898412	●	●	●	●		●			●				
14	M6		80898414	●	●	●	●		●			●				
16	M6		80898416	●	●	●	●		●			●				
18	M6		80898418	●	●	●	●		●			●				



Material examples



Extended Material Examples for the Cutting Data Tables

	Material sub-group	Index	Composition / Structure / Heat treatment		Tensile strength N/mm ² / HB / HRC
P	Unalloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm ² / 125 HB
		P.1.2	< 0,45 % C	Annealed	640 N/mm ² / 190 HB
		P.1.3		Tempered	840 N/mm ² / 250 HB
		P.1.4	< 0,75 % C	Annealed	910 N/mm ² / 270 HB
		P.1.5		Tempered	1010 N/mm ² / 300 HB
	Low-alloy steel	P.2.1		Annealed	610 N/mm ² / 180 HB
		P.2.2		Tempered	930 N/mm ² / 275 HB
		P.2.3		Tempered	1010 N/mm ² / 300 HB
		P.2.4		Tempered	1200 N/mm ² / 375 HB
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm ² / 200 HB
		P.3.2		Hardened and tempered	1100 N/mm ² / 300 HB
		P.3.3		Hardened and tempered	1300 N/mm ² / 400 HB
	Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm ² / 200 HB
		P.4.2	Martensitic	Tempered	1010 N/mm ² / 300 HB
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm ² / 180 HB
		M.2.1	Austenitic	Tempered	300 HB
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm ² / 230 HB
K	Grey cast iron	K.1.1	Pearlitic / ferritic		350 N/mm ² / 180 HB
		K.1.2	Pearlitic (martensitic)		500 N/mm ² / 260 HB
	Spherulitic graphite cast iron	K.2.1	Ferritic		540 N/mm ² / 160 HB
		K.2.2	Pearlitic		845 N/mm ² / 250 HB
	Malleable iron	K.3.1	Ferritic		440 N/mm ² / 130 HB
		K.3.2	Pearlitic		780 N/mm ² / 230 HB
N	Aluminium wrought alloy	N.1.1	Non-hardenable		60 HB
		N.1.2	Hardenable	Age-hardened	340 N/mm ² / 100 HB
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable		250 N/mm ² / 75 HB
		N.2.2	≤ 12 % Si, hardenable	Age-hardened	300 N/mm ² / 90 HB
		N.2.3	> 12 % Si, non-hardenable		440 N/mm ² / 130 HB
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %		375 N/mm ² / 110 HB
		N.3.2	CuZn, CuSnZn		300 N/mm ² / 90 HB
		N.3.3	CuSn, lead-free copper and electrolytic copper		340 N/mm ² / 100 HB
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys		70 HB
S	Heat-resistant alloys	S.1.1	Fe - basis	Annealed	680 N/mm ² / 200 HB
		S.1.2		Age-hardened	950 N/mm ² / 280 HB
		S.2.1	Ni or Co basis	Annealed	840 N/mm ² / 250 HB
		S.2.2		Age-hardened	1180 N/mm ² / 350 HB
		S.2.3		Cast	1080 N/mm ² / 320 HB
	Titanium alloys	S.3.1	Pure titanium		400 N/mm ²
		S.3.2	Alpha + beta alloys	Age-hardened	1050 N/mm ² / 320 HB
		S.3.3	Beta alloys		1400 N/mm ² / 410 HB
H	Hardened steel	H.1.1		Hardened and tempered	46–55 HRC
		H.1.2		Hardened and tempered	56–60 HRC
		H.1.3		Hardened and tempered	61–65 HRC
		H.1.4		Hardened and tempered	66–70 HRC
	Chilled iron	H.2.1		Cast	400 HB
	Hardened cast iron	H.3.1		Hardened and tempered	55 HRC
O	Non-metal materials	O.1.1	Plastics, duroplastic		≤ 150 N/mm ²
		O.1.2	Plastics, thermoplastic		≤ 100 N/mm ²
		O.2.1	Aramid fibre-reinforced		≤ 1000 N/mm ²
		O.2.2	Glass/carbon-fibre reinforced		≤ 1000 N/mm ²
		O.3.1	Graphite		

* Tensile strength

On the following 16 pages you will find an extension of the material examples to our usual indexes with additional international standards.

Overview of standards:

DIN

Deutsche Industrie Norm (German Standard)

AFNOR

Association Francaise de Normalisation (French Standard)

UNI

Unificazione Italiana (Italian Standard)

ČSN

Czechoslovakian Standard

BS

British Standards

SIS

Standardiseringen i Sverige (Swedish Standard)

UNE

Spanish Standard

JIS

Japanese Industrial Standard

GOST / FOCT

Soviet Standard

UNS

Unified Numbering System

USA

Under **USA** several American standards are summarized

	Index	Material number	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	GOST	UNS	USA
P	P.1.1	1.5423	16 Mo 5		16 Mo 5		1503-245-420					G 45200	4520
		1.0037	St 37-2	E 24-2		11 343				STKM 12 C			
		1.0044	St 44-2	E 28-2	Fe 430 B FN	11 443	4360-43 B	1412		SM 41 B			A 570 Gr. 40
		1.0116	St 37-3	E 24-3; E 24-4	Fe 360 D FF	11 378	4360-40 C	1312; 1313			St 3 kp; ps; sp		A 573 Gr. 58
		1.0144	St 44-3	E 28-3; E 28-4	Fe 430 D FF	11 448	4360-43 C	1412; 1414		SM 41 C	St 4 kp; ps; sp		A 573 Gr. 70
		1.0301	C 10	AF 34 C 10; XC 10	C 10	12 010	045 M 10			S 10 C	10	G 10100	1010
		1.0401	C 15	AF3 7 C 12; XC 18	C 15; C 16	12 020	080 M 15	1350	F-111			G 10170	1015
		1.0402	C 22	AF 42 C 20	C 20; C 21	12 024	050 A 20	1450	F-112		20	G 10200	1020
		1.0406	C 25	AF 50 C 30	C 25	12 030	070 M 26						1025
		1.0570	St 52-3	E 36-3; E 36-4	Fe 510 B; C; D	11 523	4360-50 B	2132		SM 50 YA	17 GS		
		1.1121	Ck 10	XC 10	C 10	12 010	045 M 10	1265	F-1510	S 10 C; S 9 CK	08; 10	G 10100	1010
		1.1133	20 Mn 5	20 M 5	G 22 Mn 3	42 2714	120 M 19			SMnC 420		G 10220	1022; 1518
		1.1141	Ck 15	XC 15; XC 18	C 15; C 16	12 020	080 M 15	1370	F-1511	S 15 C; S 15 CK	15	G 10170	1015
		1.1151	Ck 22	XC 25; XC 18	C 20		050 A 20			S 20 C; S 20 CK	20		1023
		1.1158	Ck 25	XC 25	C 25	12 030	070 M 26			S 25 C	25	G 10250	1025
	P.1.2	1.0050	St 50-2	A 50-2	Fe 490	11 500	4360-50 B	2172		SS 50	BSt 5 ps; sp		A 570 Gr. 50
		1.0060	St 60-2	A 60-2	Fe 590; Fe 60-2	11 600	4360-SSE; SSC			SM 58	St 6 ps; sp		
		1.0406	C 25	AF 50 C 30	C 25	12 030	070 M 26						1025
		1.0420	GS-38										
		1.0446	GS-45										
		1.0481	17 Mn 4			11 748							
		1.0501	C 35	AF 55 C 35	C 35	12 040	060 A 35	1550	F-113		35	G 10350	1035
		1.0503	C 45	AF 65 C 45	C 45	12 050	080 M 46	1650	F-114		45	G 10430	1045
		1.0511	C 40	AF 60 C 40	C 40	12 041							1040
		1.0528	C 30			12 031							
		1.0540	C 50			12 051							
		1.0552	GS-52										
		1.0558	GS-60										
		1.0619	GS-C 25										
		1.0711	9 S 20		CF 9 S 22		220 M 07	220 M 07		SUM 21	SUM 21	G 12120	1212
		1.0715	9 SMn 28	S 250	CF 9 SMn 28	11 109	230 M 07	1912	F-211 / F-2111	SUM 22		G 12130	1213
		1.0718	9 SMnPb 28	S 250 Pb	CF 9 SMnPb 28			1914	F-212 / F-2112	SUM 22 L		G 12134	12 L 13
		1.0721	10 S 20	10 F 1	CF 10 S 20	10 110	210 M 15		F-2121				1108
		1.0722	10 SPb 20	10 PbF 2	CF 10 SPb 20				F-2122				11 L 08
		1.0723	15 S 20				210 A 15	1922		SUM 32			
		1.0736	9 SMn 36	S 300	CF 9 SMn 36		240 M 07		F-2113			G 12150	1215
		1.0737	9 SMnPb 36	S 300 Pb	CF 9 SMnPb 36			1926	F-2114			G 12144	12 L 14
		1.1118	GS-24 Mn 6			42 2714							
		1.1120	GS-20 Mn 5										
		1.1131	GS-16 Mn 5										
		1.1138	GS-21 Mn 5										
		1.1142	GS-Ck 16										
		1.1151	Ck 22	XC 25; XC 18	C 20		050 A 20			S 20 C; S 20 CK	20		1023
		1.1155	GS-Ck 25										
		1.1158	Ck 25	XC 25	C 25	12 030	070 M 26			S 25 C	25	G 10250	1025
		1.1178	Ck 30										
		1.1181	Ck 35	XC 38 H1;XC 32	C 35	12 040	080 M 36	1572		S 35 C	35	G 10340	1035
		1.1186	Ck 40	XC 42 H1	C 40	12 041	080 M 40			S 40 C	40		1040
		1.1191	Ck 45	XC 42	C 45	12 050	080 M 46	1672		S 45 C	45	G 10420	1045
		1.1206	Ck 50	XC 48 H1		12 051	080 M 50				50		1050
		1.1730	C 45 W	Y3 42		19 083							

	Index	Material number	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	GOST	UNS	USA
P	P.1.3	1.0501	C 35	AF 55 C 35	C 35	12 040	060 A 35	1550	F-113		35	G 10350	1035
		1.0503	C 45	AF 65 C 45	C 45	12 050	080 M 46	1650	F-114		45	G 10430	1045
		1.0511	C 40	AF 60 C 40	C 40	12 041							1040
		1.0528	C 30			12 031							
		1.0540	C 50			12 051							
		1.0726	35 S 20	35 MF 4		11 140	212 M 36	1957	F-210.G			G 11400	1140
		1.0727	45 S 20	45 MF 4			212 M 44	1973				G 11460	1146
		1.0728	60 S 20	60 MF 4									
		1.1178	Ck 30										
		1.1181	Ck 35	XC 38 H1:XC 32	C 35	12 040	080 M 36	1572		S 35 C	35	G 10340	1035
		1.1186	Ck 40	XC 42 H1	C 40	12 041	080 M 40			S 40 C	40		1040
		1.1191	Ck 45	XC 42	C 45	12 050	080 M 46	1672		S 45 C	45	G 10420	1045
		1.1206	Ck 50	XC 48 H1		12 051	080 M 50				50		1050
	P.1.4	1.0535	C 55	AF 70 C55	C 55	12 060	070 M 55	1655			55		1055
		1.0601	C 60	CC 55	C 60	12 061	080 A 62				60	G 10600	1060
		1.0757	46 SPb 20										
		1.1203	Ck 55	XC 55	C50	12 060	070 M 55			S 55 C	55		1055
		1.1221	Ck 60	XC 60	C60	12 061	080 A 62	1665; 1678		S 58 C	60; 60G	G 10640	1060
		1.1248	Ck 75	XC 75	C 75	12 081	060 A 78	1774; 1778			75	G 10780	1078; 1080
		1.1274	Ck 101	XC 100			060 A 96	1870		SUP 4		G 10950	1095
		1.1520	C 70 W1										
		1.1525	C 80 W1	Y1 90; Y1 80	C 80 KU						U8A	T 72301	W 108
		1.1545+G502	C 105 W1	Y1 105	C 100 KU			1880			U10A	T 72301	W 110
		1.1620	C 70 W2			19 132							
		1.1625	C 80 W2		C 80 KU	19 152	BW 1 B			SKC 3; SK 5; SK 6	U8; 80	T 72301	W 1
		1.1645	C 105 W2	Y2 105	C 100 KU	19 191				SK 3	U10	T 72301	
		1.1663	C 125 W	Y2 120	C 120 KU					SK 2	U13	T 72301	W 112
		1.1673	C 135 W	Y2 140	C 140 KU					SK 1			
		1.1740	C 60 W	Y3 55		19 103				SK 7			
		1.1750	C 75 W				BW 1A				75		W 1
		1.1820	C 55 W										
		1.1830	C 85 W	Y3 90						SK 5			
	P.1.5	1.0535	C 55	AF 70 C55	C 55	12 060	070 M 55	1655			55		1055
		1.0601	C 60	CC 55	C 60	12 061	080 A 62				60	G 10600	1060
		1.1203	Ck 55	XC 55	C50	12 060	070 M 55			S 55 C	55		1055
		1.1221	Ck 60	XC 60	C60	12 061	080 A 62	1665; 1678		S 58 C	60; 60G	G 10640	1060
		1.1231	Ck 67	XC 68	C 70	12 071	060 A 67	1770			70	G 10700	1070
		1.1274	Ck 101	XC 100			060 A 96	1870		SUP 4		G 10950	1095
		1.1520	C 70 W1										
	P.2.1	1.2162	21 MnCr 5	20 NC 5		19 487				SCR 420 H			
		1.2210	115 CrV 3	100 C 3	107 CrV 3 KU	19 421						T 61202	L 2
		1.2323	GS-48 CrMoV 6 7			19 512							
		1.2341	X 6 CrMo 4										
		1.2369	81 CrMov 42 16										
		1.2516	120 WV 4	110 WC 20	110 W 4 KU	19 711	BF 1						
		1.2542	45 WCrV 7		45 WCrV 8 KU	19 732	BS 1	2710				T 41901	S 1
		1.2550	60 WCrV 7	55 WC 20	55 WCrV 8 KU	19 735							
		1.2711	54 NiCrMoV 6	55 NCDV 6		19 662							
		1.2735	15 NiCr 14	10 NC 12		16 240				SNC 22		T 51606	
		1.2762	75 CrMoNiW 6 7										
		1.2842	90 MnCrV 8	90 MV 8	90 MnVCr 8 KU	19 314	BO 2					T 31502	O 2

	Index	Material number	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	GOST	UNS	USA
P	P.2.1	1.5015	GS-8 Mn 7										
		1.5122	37 MnSi 4			13 240							
		1.5415	15 Mo 3	15 D 3	16 Mo 3	15 020	1501-240	2912					A 204 Gr. A
		1.5419	GS-22 Mo 4										
		1.5621	GS-10 Ni 6										
		1.5622	14 Ni 6	16 N 6	14 Ni 6								A 350-LF 5
		1.5633	GS-24 Ni 8										
		1.5638	GS-10 Ni 14										
		1.5732	14 NiCr 10	14 NC 11	16 NiCr 11				F-1540	SNC 415 (H)			3415
		1.5752	14 NiCr 14	12 NC 15		16 240	655 M 13		F-1540	SNC 815 (H)		G 33106	3310; 9314
		1.5919	15 CrNi 6	16 NC 6	16 CrNi 4	16 220	S 107						
		1.5920	18 CrNi 8	20 NC 6		13 231							
		1.6221	GS-13 MnNi 6 4										
		1.6523	21 NiCrMo 2	20 NCD 2	20 NiCrMo 2		805 M 20	2506	F-1522	SNCM 220 (H)		G 86170	8620
		1.6587	17 CrNiMo 6	18 NCD 6	18 NiCrMo 7		820 A 16						
		1.6750	GS-20 NiCrMo 3 7										
		1.7003	38 Cr 2	38 C 2	38 Cr 2								
		1.7006	46 Cr 2	42 C 2	45 Cr 2								5045
		1.7012	13 Cr 2										
		1.7015	15 Cr 3	12 C 3		14 120	523 M 15			SCr 415 (H)	15Ch	G 50150	5015
		1.7020	32 Cr 2										
		1.7030	28 Cr 4				530 A 30				30Ch		5130
		1.7033	34 Cr 4	32 C 4	34 Cr 4 (KB)		530 A 32			SCr 430 (H)	35Ch	G 51320	5132
		1.7131	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17	2511	F-1516 / F-1517	SCR 415	18ChG	G 51170	5115
		1.7139	16 MnCrS 5						F-150D				
		1.7147	20 MnCr 5	20 MC 5	20 MnCr 5	14 221				SMnC 420 (H)	18ChG	G 51200	5120
		1.7149	20 MnCrS 5						F-1551				
		1.7218	25 CrMo 4	25 CD 4 S	25 CrMo 4 (KB)	15 130	1717 CDS 110	2225		SCM 420; SCM 430	30ChM	G 41300	4130
		1.7219	GS-26 CrMo 4										
		1.7220	34 CrMo 4	35 CD 4	35 CrMo 4	15 131	708 A 37	2234		SCM 432; SCCrM 3	AS38ChGM	G 41350	4135; 4137
		1.7262	15 CrMo 5	12 CD 4	12 CrMo 4					SCM 415 (H)			
		1.7264	20 CrMo 5	18 CD 4						SCM 421			
		1.7271	23 CrMoB 3 3										
		1.7311	20 CrMo 2						F-1523				
		1.7321	20 MoCr 4	20 CD 4									
		1.7335	13 CrMo 4 4	15 CD 3.5	14 CrMo 4 5	15 121	1501-620 Gr. 27	2216			12ChM; 15ChM		A 182-F11; F12
		1.7337	16 CrMo 4 4	15 CD 4.5	14 CrMo 4 5		1501-620 Gr. 27	2216			15ChM		A 387 Gr. 12 Cl. 2
		1.7357	GS-17 CrMo 5 5										
		1.7363	GS-12 CrMo 19 5										
		1.7377	GS-17 CrMo 9 10										
		1.7379	GS-18 CrMo 9 10										
		1.7380	10 CrMo 9 10	10 CD 9.10	12 CrMo 9 10		1501-622 Gr. 31; 45 1503-660-440	2218				J 21890	A 182-F22
		1.7715	14 MoV 6 3										
		1.7725	GS-30 CrMoV 6 4										
		1.8504	34 CrAl 6			14 340							
		1.8506	34 CrAlS 5									K 23745	
		1.8521	15 CrMoV 5 9										
		1.0904	55 Si 7	55 S 7	55 Si 8		250 A 53	2085; 2090			55S2		9255
	P.2.2	1.2067	100 Cr 6	Y 100 C 6			BL 3					T 61203	L 3
		1.2101	62 SiMnCr 4										
		1.2103	58 SiCr 8			19 452							

	Index	Material number	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	GOST	UNS	USA
P	P.2.2	1.2108	90 CrSi 5P										
		1.2162	21 MnCr 5	20 NC 5		19 487				SCR 420 H			
		1.2210	115 CrV 3	100 C 3	107 CrV 3 KU	19 421						T 61202	L 2
		1.2311	40 CrMnMo 7			19 520							
		1.2312	40 CrMnMoS 8 6	40 CMD 8 + S									
		1.2323	GS-48 CrMoV 6 7			19 512							
		1.2330	35 CrMo 4	34 CD 4	35 CrMo 4		708 A 37	2234			35 HM	T 51620	4135
		1.2332	47 CrMo 4	42 CD 4	40 CrMo 4		708 M 40	2244					4142
		1.2419	105 WC 6	105 WC 13	107 WC 5 KU					SKS 31	ChWG		
		1.2510	100 MnCrW 4	90 MWCV 5	95 MnWC 5 KU	19 314	BO 1	2140	F-5220	SKS 3		T 31501	O 1
		1.2542	45 WC 7		45 WC 8 KU	19 732	BS 1	2710				T 41901	S 1
		1.2550	60 WC 7	55 WC 20	55 WC 8 KU	19 735							
		1.2711	54 NiCrMoV 6	55 NCDV 6		19 662							
		1.2713	55 NiCrMoV 6	55 NCDV 7		19 662			F-520.S	SKT 4	5ChNM	T 61206	L 6
		1.2721	50 NiCr 13										
		1.2738	40 CrMnNiMo 8						F-5303				
		1.2826	60 MnSiCr 4										
		1.2833	100 V 1	Y1 105 V	102 V 2 KU	19 356	BW 2			SKS 43		T 72302	W 210
		1.2842	90 MnCrV 8	90 MV 8	90 MnVC 8 KU	19 314	BO 2					T 31502	O 2
		1.3505	100 Cr 6	100 C 6	100 Cr 6	14 100	534 A 99	2258	F-131 / F-1310	SUJ 2	SchCh 15	G 52986	52100
		1.3520	100 CrMn 6			14 209							
		1.3561	44 Cr 2										
		1.3563	43 CrMo 4										
		1.5120	38 MnSi 4										
		1.5121	46 MnSi 4										
		1.5122	37 MnSi 5			13 240							
		1.5131	50 MnSi 4										
		1.5141	53 MnSi 4										
		1.5223	42 MnV 7			13 242							
		1.5710	36 NiCr 6	35 NC 6		16 240	640 A 35			SNC 236			3135
		1.5736	36 NiCr 10	30 NC 11	35 NiCr 9					SNC 631 (H)			3435
		1.5755	31 NiCr 14	18 NC 13		14 440	653 M 31			SNC 836			
		1.6511	36 CrNiMo 4	40 NCD 3	38 NiCrMo 4 (KB)	16 341	816 M 40				40 ChN2MA	G 98400	9840
		1.6513	28 NiCrMo 4										
		1.6546	40 NiCrMo 2 2	40 NCD 2	40 NiCrMo 2 (KB)		311-Type 7			SNCM 240	38ChGNM	G 87400	8740
		1.6565	40 NiCrMo 6				311-Type 6			SNCM 439	40Ch2N2MA		4340
		1.6570	GS-30 NiCrMo 8 5										
		1.6580	30 CrNiMo 8	30 CND 8	30 NiCrMo 8		823 M 30		F-1272	SNCM 431			
		1.6582	34 CrNiMo 6	35 NCD 6	35 NiCrMo 6 (KW)	16 342	817 M 40	2541	F-128 / F-1270	SNCM 447	38Ch2N2MA		4340
		1.6746	32 NiCrMo 14 5	35 NCD 14			830 M 31						
		1.6781	GS-18 NiCrMo 12 6										
		1.7003	38 Cr 2	38 C 2	38 Cr 2								
		1.7006	46 Cr 2	42 C 2	45 Cr 2								5045
		1.7030	28 Cr 4				530 A 30				30Ch		5130
		1.7033	34 Cr 4	32 C 4	34 Cr 4 (KB)		530 A 32			SCr 430 (H)	35Ch	G 51320	5132
		1.7034	37 Cr 4	38 C 4	38 Cr 4	14 140	530 A 36			SCr 435 H	40Ch		5135
		1.7035	41 Cr 4	42 C 4	41 Cr 4		530 M 40			SCr 440 (H)	40Ch	G 51400	5140
		1.7045	42 Cr 4	42 C 4 TS	41 Cr 4		530 A 40	2245		SCr 440	40Ch		5140
		1.7103	67 SiCr 5										
		1.7131	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17	2511	F-1516 / F-1517	SCR 415	18ChG	G 51170	5115
		1.7139	16 MnCrS 5						F-150D				

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P	P.2.2	1.7147	20 MnCr 5	20 MC 5	20 MnCr 5	14 221				SMnC 420 (H)	18ChG	G 51200	5120	
		1.7149	20 MnCrS 5						F-1551					
		1.7176	55 Cr 3	55 C 3	55 Cr 3		527 A 60	2253	F-1431	SUP 9 (A)	50ChGA	G 51550	5155	
		1.7218	25 CrMo 4	25 CD 4 S	25 CrMo 4 (KB)	15 130	1717 CDS 110	2225		SCM 420; SCM 430	30ChM	G 41300	4130	
		1.7220	34 CrMo 4	35 CD 4	35 CrMo 4	15 131	708 A 37	2234		SCM 432; SCCrM 3	AS38ChGM	G 41350	4135; 4137	
		1.7223	41 CrMo 4	42 CD 4 TS	41 CrMo 4		708 M 40	2244		SCM 440	40 ChFA	G 41420	4142; 4140	
		1.7225	42 CrMo 4	42 CD 4	42 CrMo 4	15 142	708 M 40	2244		SCM 440 (H)		G 41400	4142; 4140	
		1.7228	50 CrMo 4	50 CR MO4			708 A 47			SCM 445 (H)	50ChFA	G 41470	4150	
		1.7323	20 MoCrS 4	20 CD 4 S										
		1.7325	25 MoCr 4	25 CD 4										
		1.7326	25 MoCrS 4	25 CD 4 S										
		1.7361	32 CrMo 12	30 CD 12	32 CrMo 12	15 230	722 M 24	2240	F-124A					
		1.7707	30 CrMoV 9			15 330								
		1.7709	21 CrMoV 5 7											
		1.7725	GS-30 CrMoV 6 4											
		1.7735	14 CrMoV 6 9	15 CDV 6										
		1.8159	50 CrV 4	50 CV 4	51 CrV 4	15 260	735 A 50	2230	F-143 / F-1430	SUP 10	50ChGFA	G 61500	6150	
		1.8161	58 CrV 4			15 261								
		1.8507	34 CrAlMo 5	30 CAD 6.12	34 CrAlMo 7		905 M 31		F-1741			K 23545	A 355 Cl. D	
		1.8509	41 CrAlMo 7	40 CAD 6.12	41 CrAlMo 7	15 340	905 M 39	2940	F-1740	SACM 645	38ChMJuA	K 24065	A 355 Cl. A	
		1.8515	31 CrMo 12	30 CD 12	31 CrMo 12		722 M 24	2240	F-1712					
		1.8519	31 CrMoV 9						F-1721					
		1.8523	39 CrMoV 13 9		36 CrMoV 13 9		897 M 39							
		1.8550	34 CrAlNi 7									K 52440		
		1.0904	55 Si 7	55 S 7	55 Si 8		250 A 53	2085; 2090			55S2		9255	
		1.1157	40 Mn 4	35 M 5			150 M 36				40G	G 10390	1039	
		1.1165	30 Mn 5	35 M 5		13 141	120 M 36			SMn 433 H; SCMn 2	30GSL		1330	
		1.1167	36 Mn 5	40 M 5		42 2715	150 M 36	2120		SMn 438 (H); SCMn 3	35G2; 35GL	G 13350	1335	
	1.1170	28 Mn 6	20 M 5	C 28 Mn	13 141	150 M 28			SCMn 1	30G		1330		
	P.2.3	1.2744	57 NiCrMoV 7 7											
		1.7131	16 MnCr 5	16 MC 5	16 MnCr 5	14 220	527 M 17		F-1516 / F-1517	SCR 415	18ChG	G 51170	5115	
		1.7755	GS-35 CrMoV 10 4											
	P.2.4	1.2714	56 NiCrMoV 7			19 663								
		1.3505	100 Cr 6	100 C 6	100 Cr 6	14 100	534 A 99	2258	F-131 / F-1310	SUJ 2	SchCh 15	G 52986	52100	
		1.7225	42 CrMo 4	42 CD 4	42 CrMo 4	15 142	708 M 40	2244		SCM 440 (H)		G 41400	4142; 4140	
	P.3.1	1.2080	X 210 Cr 12	Z 200 C 12	X 210 Cr 13 KU	19 436	BD 3				SKD 1	Ch12	T 30403	D 3
		1.2201	G-X 165 CrV 12			19 572								
		1.2343	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11		F-5317	SKD 6	4Ch5MFS	T 28811	H 11	
		1.2363	X 100 CrMoV 5 1	Z 100 CDV 5	X 100 CrMoV 5 1 KU	19 571	BA 2	2260	F-5227	SKD 12		T 30102	A 2	
		1.2365	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10			SKD 7	3Ch3M3F	T 20810	H 10	
1.2367		X 38 CrMoV 5 3												
1.2379		X 155 CrVMo 12 1	Z 160 CDV 12	X 155 CrVMo 12 1 KU	19 573	BD 2		F-5211	SKD 11		T 30402	D 2		
1.2436		X 210 CrW 12	Z 200 CW 12	X 215 CrW 12 1 KU	19 437		2312	F-5213	SKD 2					
1.2567		X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720				SKD 4					
1.2581		X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21			SKD 5	3Ch2W8F	T 20821	H 21		
1.2601		X 165 CrMoV 12		X 165 CrMoW 12 KU	19 572		2310							
1.2606		G-X 37 CrMoW 5 1												
1.2764		X 19 NiCrMo 4												
1.2767		X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655									
1.2880		G-X 165 CrCoMo 12												
1.2885		X 32 CrMoCoV 3 3 3	30 DCKV 28											

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P	P.3.1	1.3302	S 12-1-4			19 810									
		1.3318	S 12-1-2			19 802									
		1.3333	S 3-3-2		HS 3-3-2	19 820									
		1.3343	S 6-5-2	Z 85 WDCV 06-05-04-0	HS 6-5-2	19 830	BM 2	2722	F-5603	SKH 9; SKH 51	R6AM5	T 11302	M 2		
		1.3346	S 2-9-1	Z 85 DCWV 08-04-02-0	HS 1-8-1		BM 1				H41	T 11301	H 41; M 1		
		1.4943	X 4 NiCrTi 25 15	Z 6 NCTDV 25.15 B			HR 251; HR 52; HR 51			SUH 660					
		1.5662	G-X 8 Ni 9												
		1.5680	12 Ni 19	Z 18 N 5										2515	
	P.3.2	1.2080	X 210 Cr 12	Z 200 C 12	X 210 Cr 13 KU	19 436	BD 3				SKD 1	Ch12	T 30403	D 3	
		1.2343	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11		F-5317	SKD 6	4Ch5MFS	T 28811	H 11		
		1.2344	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMo 5 1 1 KU	19 554	BH 13	2242	F-5318	SKD 61	4Ch5MF1S	T 20813	H 13		
		1.2363	X 100 CrMoV 5 1	Z 100 CDV 5	X 100 CrMoV 5 1 KU	19 571	BA 2	2260	F-5227	SKD 12		T 30102	A 2		
		1.2365	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10			SKD 7	3Ch3M3F	T 20810	H 10		
		1.2367	X 38 CrMoV 5 3												
		1.2379	X 155 CrVMo 12 1	Z 160 CDV 12	X 155 CrVMo 12 1 KU	19 573	BD 2		F-5211	SKD 11		T 30402	D 2		
		1.2567	X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720				SKD 4					
		1.2581	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21			SKD 5	3Ch2W8F	T 20821	H 21		
		1.2606	G-X 37 CrMoW 5 1												
		1.2709	X 2 NiCoMoTi 18 9 5												
		1.2764	X 19 NiCrMo 4												
		1.2767	X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655									
		1.2885	X 32 CrMoCoV 3 3 3	30 DCKV 28											
		1.3207	S 10-4-3-10	Z 130 WKCDV 10-10-04	HS 10-4-3-10	19 861	BT 42		F-5553	SKH 57					
		1.3243	S 6-5-2-5	Z 85 WDKCV 06-05-05	HS 6-5-2-5	19 852		2723	F-5613	SKH 55	R6M5K5				
		1.3246	S 7-4-2-5	Z 110 WKCDV 07-05-04	HS 7-4-2-5	19 851							T 11341	M 41	
		1.3247	S 2-10-1-8	Z 110 DKCWV 09-08-04	HS 2-9-1-8		BM 42			SKH 51			T 11342	M 42	
		1.3249	S 2-9-2-8				BM 34						T 11333	M 33; M 34	
		1.3255	S 18-1-2-5	Z 80 WKCV 18- 05-04-0	HS 18-1-1-5	19 855	BT 4			SKH 3			T 12004	T 4	
		1.3265	S 18-1-2-10		HS 18-0-1-10	19 860	BT 5			SKH 4 A			T 12005	T 5	
		1.3344	S 6-5-3	Z 120 WDCV 06-05-04	HS 6-5-3		BM 4			SKH 52; SKH 53			T 11323	M 3 Cl. 2	
		1.3348	S 2-9-2	Z 100 DCWV 09-04-02	HS 2-9-2			2782					T 11307	M 7	
		1.3401	G-X 120 Mn 12	Z 120 M 12	XG 120 Mn 12		Z 120 M 12			SCMnH 1	110G13L			A 128 (A)	
		1.5860	14 NiCr 18				16 523								
		1.5864	35 NiCr 18				16 640			F-122					
		P.3.3	1.6359	X 2 NiCrMo 18 8 5	Maraging 250									K 92890	
		P.4.1	1.2083	X 42 Cr 13	Z 40 C 14	X 41 Cr 13 KU	19 435			F-5263	SUS 420 J 2				
	1.2316		X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU										
	1.3543		X 102 CrMo 17	Z 100 CD 17											
	1.4001		G-X 7 Cr 13	Z 8 C 13 FF		17 020			F-8401						
	1.4002		X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13		405 S 17	2302	F-3111	SUS 405			S 40500	405	
1.4005	X 12 CrS 13		Z 12 CF 13	X 12 CrS 13		416 S 21	2380		SUS 416			S 41600	416		
1.4006	X 10 Cr 13		Z 12 C 13	X 12 Cr 13	17 021	410 S 21	2302	F-3401	SUS 410	12Ch13	S 41000	410; CA-15			
1.4008	G-X 8 CrNi 13		Z 12 CN 13 M		42 2904										
1.4016	X 6 Cr 17		Z 8 C 17	X 8 Cr 17	17 040	430 S 15	2320	F-3113	SUS 430	12Ch17	S 43000	430			
1.4021	X 20 Cr 13		Z 20 C 13	X 20 Cr 13	17 022	420 S 37	2303	F-3402	SUS 420 J 1	20Ch13	S 42000	420			
1.4024	X 15 Cr 13		Z 13 C 13		17 021	420 S 29			SUS 410 J 1						
1.4027	G-X 20 Cr 14		Z 20 C 13 M		42 2906	420 C 29			SCS 2	20Ch13L					
1.4028	X 30 Cr 13		Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304		SUS 420 J 2	30Ch13					
1.4031	X 38 Cr 13		Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404	SUS 420 J 2	40Ch13					
1.4034	X 46 Cr 13		Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405		40Ch13					
1.4085	G-X 70 Cr 29														

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P	P.4.1	1.4104	X 14 CrMoS 17	Z 10 CF 17	X 10 CrS 17	17 140		2383	F-3403	SUS 430 F		S 43020	430 F
		1.4105	X 4 CrMoS 18						F-3114				
		1.4106	X 2 CrMoSiS 18 2 1										
		1.4107	G-X 8 CrNi 12			42 2904							
		1.4109	X 65 CrMo 14										
		1.4112	X 90 CrMoV 18									S 44003	
		1.4113	X 6 CrMo 17	Z 8 CD 17.01	X 8 CrMo 17		434 S 17	2325	F-3116	SUS 434		S 43400	434
		1.4116	X 45 CrMoV 15						F-3422				
		1.4122	G-X 35 CrMo 17			17 137							
		1.4125	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17					SUS 440 C		S 44004	440 C
		1.4136	G-X 70 CrMo 29 2										
		1.4405	G-X 5 CrNiMo 16 5										
		1.4407	G-X 5 CrNiMo 13 4										
		1.4510	X 6 CrTi 17	Z 8 CT 17	X 6 CrTi 17					SUS 430 LX	08Ch17T	S 43036	XM 8; 430 Ti
		1.4511	X 8 CrNb 17	Z 8 CNb 17	X 6 CrNb 17				F-3122	SUS 430 LX			
		1.4512	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12		409 S 19		F-3121	SUH 409		S 40900	409
		1.4528	X 105 CrCoMo 18 2										
		1.4540	G-X 4 CrNiCuNb 16 4										
		1.4724	X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	17 125	403 S 17		F-3152		10Ch13SJ		
		1.4742	X 10 CrAl 18	Z 10 CAS 18	X 8 Cr 17		430 S 15		F-3153	SUS 430; SUH21			430
		1.4761	G-X 120 CrSi 23										
		1.4762	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	17 153			F-3154			S 44600	446
		1.4931	G-X 22 CrMoV 12 1										
		1.4962	X 12 CrNiWTi 16 3										
	1.6982	G-X 3 CrNi 13 4											
	P.4.2	1.2316	X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU								
		1.4000	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	17 020	403 S 17	2301		SUS 403	08Ch13	S 40300	403
		1.4021	X 20 Cr 13	Z 20 C 13	X 20 Cr 13	17 022	420 S 37	2303	F-3402	SUS 420 J 1	20Ch13	S 42000	420
		1.4024	X 15 Cr 13	Z 13 C 13		17 021	420 S 29			SUS 410 J 1			
		1.4028	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304		SUS 420 J 2	30Ch13		
		1.4031	X 38 Cr 13	Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404	SUS 420 J 2	40Ch13		
		1.4034	X 46 Cr 13	Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405		40Ch13		
		1.4057	X 20 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	17 145	431 S 29	2321	F-3427	SUS 431	20Ch17N2	S 43100	431
		1.4059	G-X 22 CrNi 17										
		1.4086	G-X 120 Cr 29										
		1.4108	X 100 CrMo 13										
1.4112		X 90 CrMoV 18									S 44003		
1.4116		X 45 CrMoV 15						F-3422					
1.4120		G-X 20 CrMo 13											
1.4122		G-X 35 CrMo 17			17 137								
1.4138		G-X 120 CrMo 29 2											
1.4313		X 5 CrNi 13 4	Z 5 CN 13.4	X 6 CrNi 13 04		425 C 11	2385		SCS 5			CA 6-NM	
1.4340		G-X 40 CrNi 27 4											
1.4464		G-X 40 CrNiMo 27 5											
1.4542		X 7 CrNiCu 16 4 4	27 CNU 17 04 04 (17-4PH)						SCS 24; SUS 630		S 17400	630	
1.4545		X 5 CrNiCu 15-5	E-Z5 CNU 15 05 (15-5PH)										
1.4710		G-X 30 CrSi 6											
1.4718	X 45 CrSi 9 3	Z 45 CS 9	X 45 CrSi 8	17 115	401 S 45		F-3220	SUH 1	40Ch9S2	S 65007	HNV 3		
1.4729	G-X 40 CrSi 13												
1.4740	G-X 40 CrSi 17												
1.4743	G-X 160 CrSi 18												

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P	P.4.2	1.4745	G-X 40 CrSi 23										
		1.4747	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20		443 S 65			SUH 4		S 65006	HNV 6
		1.4776	G-X 40 CrSi 29										
		1.4823	G-X 40 CrNiSi 27 4										
		1.4923	X 22 CrMoV 12 1			17 134	762						
		1.4928	G-X 12 CrNiMoCoVN 12										
		1.4935	X 20 CrMoWV 12 1									S 42200	
M	M.1.1	1.3941	G-X 4 CrNi 18 13										
		1.3944	G-X 5 CrNi 18 11										
		1.3952	G-X 4 CrNiMoN 18 14										
		1.3953	G-X 2 CrNiMo 18 15										
		1.3955	G-X 12 CrNi 18 11										
		1.3959	G-X 10 CrNiNb 16 13										
		1.4301	X 5 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 18 10	17 240	304 S 15	2332; 2333	F-3504	SUS 304	08Ch18N10	S 30400	304; 304 H
		1.4303	X 5 CrNi 18 12	Z 8 CN 18.12	X 8 CrNi 19 10		305 S 19			SUS 305	06Ch18N11	S 30500	308; 305
		1.4305	X 10 CrNiS 18 9	Z 8 CNF 18-03	X 10 CrNi 18 09	17 243	303 S 21	2346		SUS 303		S 30300	303
		1.4306	X 2 CrNi 19 11	Z 3 CN 18-10	X 2 CrNi 18 11	17 249	304 S 12	2352; 2333	F-3503	SCS 19	03Ch18N11	S 30403	304 L
		1.4308	G-X 6 CrNi 18 9	Z 6 CN 18.10 M		42 2930	304 C 15	2333	F-8411	SCS 13	07Ch18N9L		CF-8
		1.4311	X 2 CrNiN 18 10	Z 2 CN 18 .10	X 2 CrNiN 18 11	17 249	304 S 62	2371		SUS 304 LN		S 30453	304 LN
		1.4312	G-X 10 CrNi 18 8			42 2931							
		1.4401	X 5 CrNiMo 18 10	Z 6 CND 17 12 02	X 5 CrNiMo 17 12	17 346	316 S 16	2347	F-3543	SUS 316		S 31600	316
		1.4404	X 2 CrNiMo 17 13 2	Z 3 CND 17 12 02	X 2 CrNiMo 17 12	17 349	316 S 11	2348	F-3533	SUS 316 L		S 31603	316 L
		1.4406	X 2 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12		316 S 61			SUS 316 LN		S 31653	316 LN
		1.4408	G-X 6 CrNiMo 18 10			42 2940			F-8414				
		1.4413	G-X 4 CrNiMo 13-4										
		1.4429	X 2 CrNiMoN 17 13 3	Z 3 CND 17 11 03 Az	X 2 CrNiMoN 17 13		316 S 62	2375		SUS 316 LN		S 31653	316 LN
		1.4435	X 2 CrNiMo 18 14 3	Z 2 CND 17.13	X 2 CrNiMo 17 13		316 S 12	2353		SCS 16; SUS 316 L	03Ch17N 14M2	S 31603	316 L
		1.4436	X 5 CrNiMo 17 13 3	Z 6 CND 17.12	X 5 CrNiMo 17 13		316 S 16	2343		SUS 316		S 31600	316
		1.4437	G-X 6 CrNiMo 18 12			42 2940							
		1.4438	X 2 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15		317 S 12	2367		SUS 317 L		S 31703	317 L
		1.4439	G-X 3 CrNiMo 17 13 5						F-3544				
		1.4446	G-X 2 CrNiMo 17 13 4										
		1.4448	G-X 6 CrNiMo 17 13										
		1.4449	X 3 CrNiMo 18 12 3										
		1.4507	X 2 CrNiMoCuN 25 6 3	Z 3 CNDU 25 07 Az (Uranus 52 N)								S 32750	F61
		1.4541	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	17 248	321 S 12	2337		SUS 321	12Ch18N 10T	S 32100	321
		1.4546	X 5 CrNiNb 18 10		X 6 CrNiNb 18 11		347 S 18					S 34800	348
		1.4550	X 6 CrNiNb 18 10	Z10 CNNb 18-10	X 6 CrNiNb 18 11	17 245	347 S 17	2338	F-3552 / F-3524	SUS 347	08Ch18N 12B	S 34700	347
		1.4552	G-X 5 CrNiNb 18 9			42 2933			F-8413				
		1.4571	X 6 CrNiMoTi 17 12 2	Z 6 CNT 17.12	X 6 CrNiMoTi 17 12	17 348	320 S 31	2350	F-3535		10Ch17N13M2T	S 31635	316 Ti
		1.4573	X 10 CrNiMoTi 18 12		X 6 CrNiMoTi 17 13		320 S 33				10Ch17N13M3T	S 31635	316 Ti
		1.4580	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12		318 S 17		F-3536		08Ch16N13M2B	S 31640	316 Cb
		1.4581	G-X 5 CrNiMoNb 18 10	Z 4 CNDNb 18.12 M	GX 6 CrMoNb 20 11	42 2941	318 C 17			SCS 22			
		1.4583	X 10 CrNiMoNb 18 12		X 6 CrNiMoNb 17 13								318
		1.4821	X 15 CrNiSi 25-4	Z20 CNS 25 04									
		1.4825	G-X 25 CrNiSi 18 9			42 2932							
		1.4826	G-X 40 CrNiSi 22 9			42 2934							
		1.4828	X 15 CrNiSi 20 12	Z 15 CNS 20.12		17 251	309 S 24		F-3312	SUH 309	20Ch20N 14S2	S 30900	309
		1.4832	G-X 25 CrNiSi 20 14										
		1.4876	X 10 NiCrAlTi 32 20	Z10 NCAT 32-21 (Incoloy 800)		17 358	NA 15 (H)		F-3314	NCF 800			B 163
		1.4878	X 12 CrNiTi 18 9	Z 6 CNT 18.12 (B)	X 6 CrNiTi 18 11	17 246	321 S 20	2337		SUS 321	12Ch18N 10T		321

	Index	Material number	DIN	AFNOR	UNI	ČSN	BS	SIS	UNE	JIS	GOST	UNS	USA
M	M.1.1	1.4968	G-X 7 CrNiNb 16 13										
		1.4988	G-X 8 CrNiMoVNb 16 1										
		1.6901	G-X 8 CrNi 18 10										
		1.6902	G-X 6 CrNi 18 10										
		1.6905	G-X 5 CrNiNb 18 10										
	M.2.1	1.3964	G-X 4 CrNiMnMoN 19 1										
		1.4310	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07		301 S 21			SUS 301		S 30100	301
		1.4465	G-X 2 CrNiMoN 25 25										
		1.4536	G-X 2 NiCrMoCuN 25 2										
		1.4539	X 1 NiCrMoCu 25 20 5	Z2 NCDU 25 20 (Uranus B6)								N 08904	904L
		1.4547	X 1 CrNiMoCuN 20 18 17	Z1 CNDU 20 18 06 Az (254 SMO)									F44
		1.4568	X 7 CrNiAl 17 7										17-7 PH
		1.4837	G-X 40 CrNiSi 25 12			42 2936							
		1.4840	G-X 15 CrNi 25 20										
		1.4841	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	17 255			F-3310	SUH 310	20Ch25N 20S2	S 31000	314; 310
		1.4845	X 12 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 26 20	17 255	310 S24	2361		SUH 310;		S 31008	310 S
		1.4848	G-X 40 CrNiSi 25 20		GX 40 CrNi 26 20	42 2952							
		1.4849	G-X 40 NiCrSiNb 38 1										
		1.4852	G-X 40 NiCrNb 35 25										
		1.4855	G-X 30 CrNiSiNb 24 2										
		1.4857	G-X 40 NiCrSi 35 25										
		1.4864	X 12 NiCrSi 36 16	Z 12 NCS 37.18		17 253	NA 17		F-3313	SUH 330		N 08330	330
		1.4865	G-X 40 NiCrSi 38 18		GX 50 NiCr 39 19		330 C 40			SCH 15; SCH 16			
		1.4871	X 53 CrMnNiN 21 9	Z 52 CMN 21.09	X 53 CrMnNiN 21 9		349 S 54		F-3217	SUH 35; SUH 36	55Ch20G9AN4	S 63008	EV 8
		1.4873	X 45 CrNiW 18 9	Z 35 CNWS 20.09	X 45 CrNiW 18 9		331 S 40			SUH 31			
	M.3.1	1.4339	G-X 32 CrNi 28 10										
		1.4347	G-X 8 CrNi 26 7										
		1.4410	X 2 CrNiMoN 25 7 4	Z2 CND 25 07 04 Az					F-3552				F53
		1.4460	X 8 CrNiMo 27 5	Z5 CND 25 05 AZ				2324		SUS 329 J 1		S 32900	329 LN
		1.4462	X 2 CrNiMoN 22 5 3	Z2 CND 22 05 03 AZ (Uranus 45 N)		17 381			F-3308			S 31803	329 A (F51)
		1.4463	G-X 6 CrNiMo 24 8 2										
		1.4501	X 2 CrNiMoCuWN 25 7 4	Z2 CNDUW 25 07 04 Az (Zeron 100)								S 32760	F55
		1.4815	G-X 8 CrNi 19 10										
		1.4822	G-X 40 CrNi 24 5										
K	K.1.1	0.6010	GG-10	Ft 10 D	G 10	42 2410		01 10-00		FC 10	Sc 10		A48-20 B
		0.6015	GG-15	Ft 15 D	G 15	42 2415	Grade 150	01 15-00	FG-15	FC 15	Sc 15		A48-25 B
		0.6020	GG-20	Ft 20 D	G 20	42 2420	Grade 220	01 20-00	FG-20	FC 20	Sc 20		A48-30 B
		0.6025	GG-25	Ft 25 D	G 25	42 2425	Grade 260	01 25-00	FG-25	FC 25	Sc 25		A48-40 B
	K.1.2	0.6030	GG-30	Ft 30 D	G 30	42 2430	Grade 300	01 30-00	FG-30	FC 30	Sc 30		A48-45 B
		0.6035	GG-35	Ft 35 D	G 35	42 2435	Grade 350	01 35-00	FG-35	FC 35	Sc 35		A48-50 B
		0.6040	GG-40	Ft 40 D		42 2440	Grade 400	01 40-00			Sc 40		A48-60 B
		0.6652	GGL-NiMn 13 7	L- NM 13 7			L-NiMn 13 7						
		0.6655	GGL-NiCuCr 15 6 2	L-NUC 15 6 2			L-NiCuCr 15 6 2						A 436 Type 1
		0.6656	GGL-NiCuCr 15 6 3	L-NUC 15 6 3			L-NiCuCr 15 6 3						A 436 Type 1b
		0.6660	GGL-NiCr 20 2	L-NC 20 2			L-NiCr 20 2	05 23-00					A 436 Type 2
		0.6661	GGL-NiCr 20 3	L-NC 20 3			L-NiCr 20 3						A 436 Type 2b
		0.6667	GGL-NiSiCr 20 5 3	L-NSC 20 5 3			L-NiSiCr 20 5 3						
		0.6676	GGL-NiCr 30 3	L-NC 30 3			L-NiCr 30 3						A 436 Type 3
		0.6680	GGL-NiSiCr 30 5 5	L-NSC 30 5 5			L-NiSiCr 30 5 5						A 436 Type 4
	K.2.1	0.7033	GGG-35.3			42 2303							
		0.7040	GGG-40	FGS 400-12	GS 400-12	42 2304	SNG 420/12	0717-02	FGE 38-17	FCD 40	VC 42-12		60 40 18

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K	K.2.1	0.7043	GGG-40.3	FGS 370-17	GSO 42/17	42 2314	SNG 370/17	0717-15			VC 42-12			
		0.7050	GGG-50	FGS 500-7	GS 500/7	42 2305	SNG 500/7	0727-02	FGE 50-7	FCD 50	VC 50-2		65-45-12	
		0.7060	GGG-60	FGS 600-3	GS 600/3	42 2306	SNG 600/3	0732-03		FCD 60	VC 60-2		80-55-06	
	K.2.2	0.7070	GGG-70	FGS 700-2	GS 700-2	42 2307	SNG 700/2	0737-01	FGS 70-2	FCD 70	VC 70-2		100-70-03	
		0.7080	GGG-80	FGS 800-2	GS 800-2	42 2308	SNG 800/2				VC 80-2		120-90-02	
		0.7652	GGG-NiMn 13 7	S-NM 13 7			S-NiMn 13 7							
		0.7660	GGG-NiCr 20 2	S-NC 20 2			S-NiCr 20 2						A 439 Type D-2	
		0.7661	GGG-NiCr 20 3	S-NC 20 3			S-NiCr 20 3						A 439 Type D-2B	
		0.7665	GGG-NiSiCr 20 5 2	S-NSC 20 5 2			S-NiSiCr 20 5 2							
		0.7670	GGG-Ni 22	S-N 22			S-Ni 22						A 439 Type D-2C	
		0.7673	GGG-NiMn 23 4	S-NM 23 4			S-NiMn 23 4						A 439 Type D-2M	
		0.7676	GGG-NiCr 30 3	S-NC 30 3			S-NiCr 30 3						A 439 Type D-3	
		0.7677	GGG-NiCr 30 1	S-NC 30 1			S-NiCr 30 1						A 439 Type D-3A	
		0.7680	GGG-NiSiCr 30 5 5	S-NSC 30 5 5			S-NiSiCr 30 5 5						A 439 Type D-4	
		0.7683	GGG-Ni 35	S-N 35			S-Ni 35						A 439 Type D-5	
		0.7685	GGG-NiCr 35 3	S-NC 35 3			S-NiCr 35 3						A 439 Type D-5B	
		0.8065	GTW-65											
		K.3.1	0.8035	GTW-35-04			42 2536				GTW 35			
	0.8040		GTW-40-05			42 2540								
	0.8045		GTW-45-07											
	0.8055		GTW-55											
	0.8135		GTS-35-10	MN 35-10		42 2533	B 340/12			GTS 35				
	0.8145		GTS-45-06			42 2545	P 440/7			GTS 45				
	0.8155		GTS-55-04	MP 50-5		42 2555	P 510/4			GTS 55				
0.8165	GTS-65-02		MP 60-3			P 570/3			GTS 65					
K.3.2	0.8170	GTS-70-02	IP 70-2			P 690/2		GTS 70						
N	N.1.1	3.3307	Al99.85Mg0.5											
		3.3308	Al99.9Mg0.5											
		3.3315	AlMg1	5005 (AlMg1)						L-3350				
		3.3316	AlMg1.5											
		3.3317	Al99.85Mg1											
		3.3318	Al99.9Mg1											
		3.3326	AlMg1.8											
		3.3523	AlMg2.5											
		3.3525	AlMg2Mn0.3											
		3.3527	AlMg2Mn0.8											
		3.3535	AlMg3	5754										
		3.3537	AlMg2.7Mn											
		3.3555	AlMg5	5056 A										
		3.3561	G-AlMg5											
		3.3591	G-AlMg10											
		3.0205	Al99	1200 (A4)	9001/1	42 4009				L-3001				
		3.0255	Al99.5	1050 A	9001/2	42 4004				L-3051				
		3.0275	Al99.7	1070 A		42 4003				L-3071				
		3.0285	Al99.8	1080 A (A8)		42 4002				L-3081				
		3.0305	Al99.9											
		3.0505	AlMn0.5Mg0.5											
		3.0506	AlMn0.6											
		3.0515	AlMn1			42 4432				L-3810				
		3.0517	AlMnCu											
3.0525	AlMn1Mg0.5	3005												

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N	N.1.1	3.0526	AlMn1Mg1										
		3.0615	AlMgSiPb										
		3.0915	AlFeSi										
	N.1.2	3.2307	Al99.85MgSi										
		3.2315	AlMgSi1	6082	9006/4	42 4400							6082
		3.3206	AlMgSi0,5	6060 (AGS)		42 4401			L-3441				6063
		3.3208	Al99.9MgSi										
		3.3210	AlMgSi0.7	6005 A									
		3.3211	AlMg1SiCu	6061									
		3.3345	AlMg4.5										
		3.3545	AlMg4Mn	5086 (AG4MC)	9005/5				L-3322				5083
		3.3547	AlMg4,5Mn0,7	5083 (AlMg5Mn0,7)			N8		L-3321	A 5083			A95083
		3.3549	AlMg5Mn										
		3.4335	AlZn4,5Mg1	7020 (AZ5G)	9007/1	42 4441			L-3741				7020
		3.4337	Al99.8ZnMg										
		3.4345	AlZnMgCu0.5										
		3.4365	AlZnMgCu1.5	7075 (AZ5GU)		42 4222			L-3710				7075
		2.1086	G-CuSn10Zn										
		3.1255	AlCuSiMn	2014	9002/3								2014
		3.1305	AlCu2.5Mg0.5										
		3.1325	AlCuMg1	2017 A (AU4G)					L-3120				2017 A
		3.1355	AlCuMg2	2024 (AU4G1)	9002/4	42 4203			L-3140				2024
		3.1645	AlCuMgPb	2030 (AU4PB)		42 4254			L-3121				
		3.1655	AlCuBiPb	2011 (AU5PbBi)	9002/5				L-3192				2011
		MFK											
	N.2.1	3.2581	G-AlSi12			42 4330							
		3.2583	G-AlSi12(Cu)			42 4330							
		3.3261	G-AlMg5Si			42 4515							
		3.3292	GD-AlMg9			42 4519							
		3.3541	G-AlMg3										
		3.3543	G-AlMg3(Cu)										
	N.2.2	3.2134	G-AlSi5Cu1Mg										
		3.2151	G-AlSi6Cu4			42 4357							
		3.2161	G-AlSi8Cu3										
		3.2341	G-AlSi5Mg										
		3.2371	G-AlSi7Mg			42 4334							
		3.2373	G-AlSi9Mg			42 4331							
		3.2381	G-AlSi10Mg			42 4331							
		3.2383	G-AlSi10Mg(Cu)			42 4331							
		3.3241	G-AlMg3Si										
		3.1371	G-AlCu4TiMg										
		3.1841	G-AlCu4Ti										
	N.3.1	2.0040	OF-Cu			42 3000							
		2.0060	E-Cu57			42 3001							
		2.0065	E-Cu58			42 3001							
		2.0070	SE-Cu										
		2.0076	SW-Cu										
		2.0090	SF-Cu			42 3003							
		2.0220	CuZn5			42 3200							
		2.0230	CuZn10			42 3201							
		2.0240	CuZn15			42 3202							

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N	N.3.1	2.0250	CuZn20			42 3203							
		2.0261	CuZn28										
		2.0265	CuZn30			42 3210							
		2.0280	CuZn33			42 3212							
		2.0321	CuZn37		C2700	42 3213							
		2.0335	CuZn36										
		2.0360	CuZn40			42 3220							
		2.0460	CuZn20Al2										
		2.0470	CuZn28Sn1										
		2.0510	CuZn37Al1			42 3231							
		2.0530	CuZn38Sn1			42 3237							
		2.0730	CuNi12Zn24										
		2.0740	CuNi18Zn20										
		2.0830	CuNi25										
		2.0842	CuNi44Mn1										
		2.0853	CuNi1.5Si										
		2.0855	CuNi2Si			42 3054							
		2.0857	CuNi3Si										
		2.0872	CuNi10Fe1Mn										
		2.0875	CuNi9Sn2										
		2.0882	CuNi30Mn1Fe										
		2.0883	CuNi30Fe2Mn2										
		2.0918	CuAl5As										
		2.0920	CuAl8										
		2.0932	CuAl8Fe3										
		2.0936	CuAl10Fe3Mn2										
		2.0960	CuAl9Mn2										
		2.0966	CuAl10Ni5Fe4										
		2.0971	CuAl9Ni3Fe2										
		2.1016	CuSn4										
		2.1020	CuSn6										
		2.1030	CuSn8										
		2.1080	CuSn6Zn6										
		2.1191	CuAg0.1P										
		2.1203	CuAg0.1										
		2.1245	CuBe1.7										
		2.1247	CuBe2										
		2.1293	CuCrZr			42 3039							
		2.1310	CuFe2P										
		2.1522	CuSi2Mn										
		2.1525	CuSi3Mn										
		Ampco 16	CuAl10Fe3										
		Ampco 18	CuAl10.5Fe3.5										
		Ampco 8	CuAl6.5Fe2.5Sn										
			Ampco 8-16										
	N.3.2	2.0331	CuZn36Pb1.5			42 3214							
		2.0332	CuZn37Pb0.5										
		2.0372	CuZn39Pb0.5			42 3221							
		2.0540	CuZn35Ni2										
		2.0550	CuZn40Al2										
		2.0561	CuZn40Al1			42 3231							

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S	S.2.1	2.4856	NiCr22Mo9Nb	Inconel 625									
		2.4858	NiCr21Mo				NA 16			NCF 825		N 08825	
		2.4951	NiCr20Ti	Nimonic 75			HR 5						
		2.4964	CoCr20W15Ni										
		2.4989	CoCr20NiW										
	S.2.2	2.4375	NiCu30Al	Monel K 500									
		2.4631	NiCr20TiAl	Nimonic 80 A			HR 401; 601			NCF 80 A		N 07080	
		2.4634	NiCo20Cr15MoAlTi	Nimonic 105									
		2.4640	NiCr15Fe	Inconel 600									
		2.4654	NiCr20Co13Mo4Ti4Al	Waspaloy									
		2.4662	NiCr13Mo6Ti3	Nimonic 901									
		2.4668	NiCr19Fe18Nb5Mg	Inconel 718									
		2.4816	NiCr15Fe	Inconel 600			NA 14			NCF 600		N 06600	
		2.4952	NiCr20TiAl	Nimonic 80 A									
		2.4973	NiCr19Co11MoTi										
		2.4983	NiCr18Co18MoAlTi	Udimet 500									
	S.2.3	2.4670	G-NiCr13Al6MoNb	Nimocast 713									
		2.4674	NiCo15Cr10MoAlTi	Nimocast PK 24									
		2.4979	CoCr28MoNi										
	S.3.1	3.7024	Ti99,5										
		3.7025	Ti99,8										
		3.7034	Ti99,7										
		3.7055	Ti99,4										
		3.7064	Ti99,2										
		3.7124	TiCu2										
	S.3.2	3.7114	TiAl5Sn2										
		3.7144	TiAl6Sn2Zr4Mo2										
		3.7154	TiAl6Zr5										
		3.7165	TiAl6V4	T-A 6 V			TA 10 – TA 13					R 56400	
		3.7174	TiAl6V6Sn2										
		3.7184	TiAl4Mo4Sn2				TA 45 – TA 51						
H	H.1.1	1.2311	40 CrMnMo 7			19 520							
		1.2312	40 CrMnMoS 8 6	40 CMD 8 + S									
		1.2316	X 36 CrMo 17	Z 38 CD 17	X 38 CrMo 16 1 KU								
		1.2365	X 32 CrMoV 3 3	32 DCV 28	30 CrMoV 12 27 KU	19 541	BH 10			SKD 7	3Ch3M3F	T 20810	H 10
		1.2567	X 30 WCrV 5 3	Z 32 WCV 5	X 30 WCrV 5 3 KU	19 720				SKD 4			
		1.2581	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	19 721	BH 21			SKD 5	3Ch2W8F	T 20821	H 21
		1.2738	40 CrMnNiMo 8						F-5303				
		1.2885	X 32 CrMoCoV 3 3 3	30 DCKV 28									
		1.4028	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	17 023	420 S 45	2304		SUS 420 J 2	30Ch13		
		1.4031	X 38 Cr 13	Z 40 C 14	X 40 Cr 14	17 024		2304	F-3404	SUS 420 J 2	40Ch13		
		1.4034	X 46 Cr 13	Z 40 C 14	X 40 Cr 14	17 029	420 S 45		F-3405		40Ch13		
		1.4112	X 90 CrMoV 18									S 44003	
		1.5122	37 MnSi 4			13 240							
		1.6358	X 2 NiCoMoTi 18 9 5										
		1.6582	34 CrNiMo 6	35 NCD 6	35 NiCrMo 6 (KW)	16 342	817 M 40	2541	F-128 / F-1270	SNCM 447	38Ch2N2MA		4340
		1.7003	38 Cr 2	38 C 2	38 Cr 2								
		1.7006	46 Cr 2	42 C 2	45 Cr 2								5045
		1.7030	28 Cr 4				530 A 30				30Ch		5130
		1.7176	55 Cr 3	55 C 3	55 Cr 3		527 A 60	2253	F-1431	SUP 9 (A)	50ChGA	G 51550	5155
		1.0961	60 SiCr 7	60 SC 7	60 SiCr 8					SUP 7			9262

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H	H.1.1	1.1248	Ck 75	XC 75	C 75	12 081	060 A 78	1774; 1778			75	G 10780	1078; 1080
		1.1273	90 Mn 4										
	H.1.2	1.2083	X 42 Cr 13	Z 40 C 14	X 41 Cr 13 KU	19 435			F-5263	SUS 420 J 2			
		1.2323	GS-48 CrMoV 6 7										
		1.2343	X 38 CrMoV 5 1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	19 552	BH 11		F-5317	SKD 6	4Ch5MFS	T 28811	H 11
		1.2367	X 38 CrMoV 5 3										
		1.2510	100 MnCrW 4	90 MWCV 5	95 MnWCr 5 KU	19 314	BO 1	2140	F-5220	SKS 3		T 31501	O 1
		1.2542	45 WCrV 7		45 WCrV 8 KU	19 732	BS 1	2710				T 41901	S 1
		1.2550	60 WCrV 7	55 WC 20	55 WCrV 8 KU	19 735							
		1.2606	G-X 37 CrMoW 5 1										
		1.2711	54 NiCrMoV 6	55 NCDV 6		19 662							
		1.2713	55 NiCrMoV 6	55 NCDV 7		19 662			F-520.S	SKT 4	5ChNM	T 61206	L 6
		1.2764	X 19 NiCrMo 4										
		1.2767	X 45 NiCrMo 4	Y 35 NCD 16	42 NiCrMo 15 7	19 655							
		1.4109	X 65 CrMo 14										
		1.4112	X 90 CrMoV 18									S 44003	
		1.1157	40 Mn 4	35 M 5			150 M 36				40G	G 10390	1039
		1.1231	Ck 67	XC 68	C 70	12 071	060 A 67	1770			70	G 10700	1070
		1.1274	Ck 101	XC 100			060 A 96	1870		SUP 4		G 10950	1095
	H.1.3	1.2080	X 210 Cr 12	Z 200 C 12	X 210 Cr 13 KU	19 436	BD 3			SKD 1	Ch12	T 30403	D 3
		1.2101	62 SiMnCr 4										
		1.2162	21 MnCr 5	20 NC 5		19 487				SCR 420 H			
		1.2201	G-X 165 CrV 12										
		1.2210	115 CrV 3	100 C 3	107 CrV 3 KU	19 421						T 61202	L 2
		1.2341	X 6 CrMo 4										
		1.2379	X 155 CrVMo 12 1	Z 160 CDV 12	X 155 CrVMo 12 1 KU	19 573	BD 2		F-5211	SKD 11		T 30402	D 2
		1.2419	105 WCr 6	105 WC 13	107 WCr 5 KU					SKS 31	ChWG		
		1.2601	X 165 CrMoV 12		X 165 CrMoW 12 KU	19 572		2310					
		1.2721	50 NiCr 13										
		1.2735	15 NiCr 14	10 NC 12		16 240				SNC 22		T 51606	
		1.2833	100 V 1	Y1 105 V	102 V 2 KU	19 356	BW 2			SKS 43		T 72302	W 210
		1.2842	90 MnCrV 8	90 MV 8	90 MnVCr 8 KU	19 314	BO 2					T 31502	O 2
		1.3505	100 Cr 6	100 C 6	100 Cr 6	14 100	534 A 99	2258	F-131 / F-1310	SUJ 2	SchCh 15	G 52986	52100
		1.4112	X 90 CrMoV 18									S 44003	
		1.4125	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17					SUS 440 C		S 44004	440 C
		1.8161	58 CrV 4			15 261							
		1.1520	C 70 W1										
	H.1.4	1.2363	X 100 CrMoV 5 1	Z 100 CDV 5	X 100 CrMoV 5 1 KU	19 571	BA 2	2260	F-5227	SKD 12		T 30102	A 2
		1.2436	X 210 CrW 12	Z 200 CW 12	X 215 CrW 12 1 KU	19 437		2312	F-5213	SKD 2			
		1.2880	G-X 165 CrCoMo 12										
		1.3202	S 12-1-4-5			19 858						T 12015	T15
		1.3207	S 10-4-3-10	Z 130 WKCDV 10-10-04	HS 10-4-3-10	19 861	BT 42		F-5553	SKH 57			
		1.3243	S 6-5-2-5	Z 85 WDKCV 06-05-05	HS 6-5-2-5	19 852		2723	F-5613	SKH 55	R6M5K5		
		1.3246	S 7-4-2-5	Z 110 WKCDV 07-05-04	HS 7-4-2-5	19 851						T 11341	M 41
		1.3247	S 2-10-1-8	Z 110 DKCWV 09-08-04	HS 2-9-1-8		BM 42			SKH 51		T 11342	M 42
		1.3249	S 2-9-2-8				BM 34					T 11333	M 33; M 34
		1.3257	S 18-1-2-15										
		1.3333	S 3-3-2		HS 3-3-2	19 820							
		1.3343	S 6-5-2	Z 85 WDCV 06-05-04-0	HS 6-5-2	19 830	BM 2	2722	F-5603	SKH 9; SKH 51	R6AM5	T 11302	M 2
		1.3344	S 6-5-3	Z 120 WDCV 06-05-04	HS 6-5-3		BM 4			SKH 52; SKH 53		T 11323	M 3 Cl. 2
		1.3346	S 2-9-1	Z 85 DCWV 08-04-02-0	HS 1-8-1		BM 1				H41	T 11301	H 41; M 1

[illegible]

ISO designation system

ISO attribute	Feature Description
A	
ADJRG	Adjustment range
ADJRGR	Adjustment range radial
ALP	Clearance angle axial
AN	Clearance angle major
APMX	Depth of cut maximum
B	
B	Shank width
BD	Body diameter
BD_1	Body diameter, 1st cutting step
BD_2	Body diameter, 2nd cutting step
BD_3	Body diameter, 3rd cutting step
BD_4	Body diameter, 4th cutting step
BDRED	Body diameter, reduced
BDX	Body diameter maximum
BHTA	Body half taper angle
BLQ	Balance quality code
BN	Face land width
BS	Trailing edge length
BTED	Body taper end diameter
C	
CDX	Cutting depth maximum
CF	Central flat
CHW	Corner chamfer width
CHWTL	Flank chamfer width left hand
CLDIS_1	Centre line distance 1
CLDIS_2	Centre line distance 2
CLDIS_3	Centre line distance 3
CND	Coolant entry diameter
CNT	Coolant entry, thread size
CODX	Parting off diameter, max.
CRE	Spot radius
CRKS	Pull stud thread size
CW	Cutting width
CXD	Coolant exit diameter
D	
D1	Fixing hole diameter
DAXN	Axial groove outside diameter minimum
DAXX	Axial groove outside diameter maximum
DC	Cutting diameter
DC_1	Cutting diameter, 1st cutting step
DC_2	Cutting diameter, 2nd cutting step
DCD	Cutting diameter drilling part
DCINTF	Interference cutting diameter
DCN	Cutting diameter minimum
DCONMS	Mounting spigot diameter
DCONWS	Connection diameter workpiece side
DCONWS_1	Connection diameter workpiece side – 1
DCONWS_2	Connection diameter workpiece side – 2
DCSKX	Countersunk diameter, max
DCX	Cutting diameter maximum
DF	Flange diameter
DFC	Functional diameter
DHUB	Hub diameter
DLN	Diameter lock nut
DMIN	Minimum bore diameter
DN	Neck Diameter
DRVS	Drive size

ISO attribute	Feature Description
G	
GAN	Insert rake angle
GB	Face land angle
H	
H	Shank height
HDD	Head diameter
HDW	Head width
HF	Functional height
HLN	Lock nut height
HSUP	Support height
I	
IC	Inscribed circle diameter
IDNR	Identifying order number
IH	Insert hand
INSL	Insert length
K	
KAPR	Tool cutting edge angle
KCH	Corner chamfer angle
L	
L	Cutting edge length
L_1	Cutting edge length 1
L_2	Cutting edge length 2
L_3	Cutting edge length 3
LB	Body length
LB_1	Body length 1
LB_2	Body length 2
LCF	Length chip flute
LCOL	Collet length
LDRED	Reduced body diameter length
LE	Cutting edge effective length
LF	Functional length
LF_1	Functional length 1
LF_2	Functional length 2
LF_3	Functional length 3
LFSF	Distance to face
LH	Head length
LPCON	Connection protruding length
LPR	Protruding length
LS	Shank length
LSC	Clamping length machine side
LSCN	Clamping length minimum machine side
LSCX	Clamping length maximum machine side
LTA	Length tool assembly
LU	Usable length
M	
MXC	Clamping force maximum
N	
NOF	Flute count
NT	Tooth count
O	
OAH	Overall height
OAL	Overall length
OAW	Overall width

Continued on next page

ISO designation system

ISO attribute	Feature Description
P	
PDPT	Profile depth insert
PDX	Profile distance ex
PDY	Profile distance ey
PHD	Premachined hole diameter
PL	Point length
PLGL	Plug length
PNA	Profile included angle
PRFA	Profile angle
PRFRAD	Profile radius
PRFRAD1	Profile radius 1
PRFRAD2	Profile radius 2
PRFRAD3	Profile radius 3
PSIR	Tool lead angle
R	
RA	Relief angle
RADH	Radial height
RADW	Radial width
RADWOF	Radial offset width
RAL	Relief angle lh
RAR	Relief angle rh
RCSK	Radius countersunk
RE	Corner radius
RE_1	Corner radius 1
RE_2	Corner radius 2
RE_3	Corner radius 3
REL	Corner radius left hand
RETL	Flank radius left hand
RETR	Flank radius right hand
RHCDL	Radial height chamfer distance lower
RHCDU	Radial height chamfer distance upper
RPMX	Rotational speed maximum
S	
S	Insert thickness
S1	Insert thickness total
SD	Step distance
SDL	Step diameter length
SDL_1	Step diameter length 1
SDL_2	Step diameter length 2
SZID	Nominal size
T	
TD	Thread diameter
TDIN	Thread diameter, inch measure
THID	Thread designation inside
THL	Thread cutting part length
THOD	Thread designation outside
THSZMS	Connection thread nominal size
THSZWS	Connection thread nominal size workpiece side
TP	Thread pitch
TPI	Threads per inch
TQX	Torque maximum

ISO attribute	Feature Description
W	
W1	Insert width
WF	Functional width
WF2	Functional width 2
WT	Weight of item
Z	
ZEFF	Face effective cutting edge count
ZEFP	Peripheral effective cutting edge count
ZNF	Face mounted insert count
ZNP	Peripheral mounted insert count



We reserve the right to make technical changes and product improvements.

