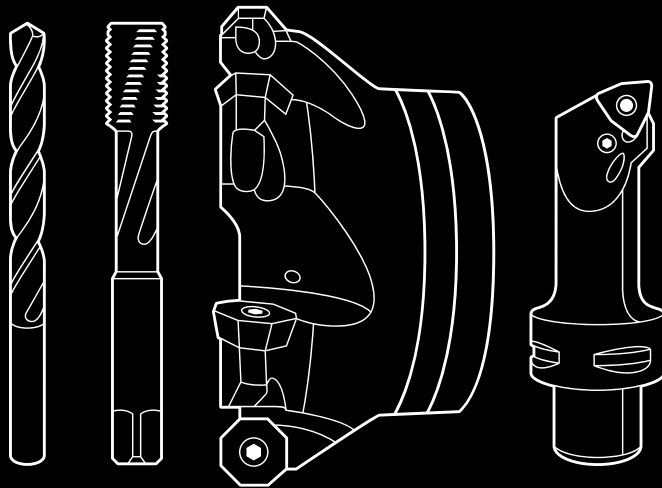


_ METAL IS OUR WORLD

Adaptors

for Walter tools



How to find and order your tool solution:



Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: walter-tools.com



The Walter Hybrid catalogs and brochures

show the entire standard range under the Walter, Walter Titex, Walter Prototyp and Walter Multiply competence brands – in print or in digital format – with product range overviews, product data, cutting data recommendations and much more. Including links to our machining navigator, Walter GPS, or the Walter TOOLSHOP with the chance to order directly.

At walter-tools.com, you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC.

The benefit for you: Direct access from any device, displayed in an optimized form, at any time.

Walter online catalog



Tool-specific search

You can find products in the Walter online catalog using the familiar structure of our product catalog as well as filter and search functions. Other features: A shopping function and links to drawings and models.

Walter GPS



Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

Walter Innotime®



Component-based search

With Walter Innotime®, you can find the most cost-effective machining solution for your component, including all the tools, machining steps and machining parameters required for this. Simply by uploading your 3D model.

Digital ordering methods



TOOLSHOP



EDI B2B

Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly.

EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

E – Boring bars/adaptors

E1: Stationary boring bars/adaptors

Page

Stationary boring bars/adaptors	Product range overview	
	Walter Capto™ clamping units	6
	Walter Capto™ boring bars/adaptors	7
	VDI boring bars/adaptors, one-piece	8
	Machine-specific adaptors, one-piece	9
	Order pages	
	Machine-specific adaptors, one-piece	11
	Walter Capto™ clamping units	17
	Walter Capto™ boring bars/adaptors	23
	Machine-specific adaptors, one-piece	35

E2: Rotating boring bars/adaptors

Page

Rotating boring bars/adaptors	Product range overview	
	Walter Capto™ boring bars/adaptors	39
	Walter NCT boring bars/adaptors	45
	ScrewFit adaption for front pieces	46
	ConeFit adaptors for milling cutter heads	47
	Boring bars/adaptors, one-piece – HSK, SK	50
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	Walter Capto™ boring bars/adaptors	53
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	ScrewFit adaption for front pieces	96
	ConeFit adaptors for milling cutter heads	120
	Boring bars/adaptors, one-piece – HSK, SK	127
	Accure-tec vibration-damped milling cutter adaptors	159

E2: Assembly parts and accessories – General adaptors

Page

Assembly parts and accessories – General adaptors	Product range overview	
	Assembly parts and accessories – General adaptors	175
	Order pages	
	Assembly parts and accessories – General adaptors	177

The structure of the new Walter General Catalog

The new Walter General Catalog presents information about products and applications in a comprehensive and clear manner as an e-document – including direct links to the Walter online catalog.

Milling tools with indexable inserts WALTER

Face milling cutters

Machining				
Lead angle κ	45°	45°	45°	45°
Designation	M5009 Xtra-tec® XT	M4003	M3024 Walter BLAXX	F4045 Xtra-tec®
Diameter range [mm] [inch]	40-160 1,500-6,000	20-160 0,750-6,000	40-160 2,000-6,000	63-160 —
Boring bar/adaptor type				
DIN 1835 B				
Shell mill mount DIN 138	✓	✓	✓	✓
ScrewFit	✓			
Cylindrical shank		✓	✓	
Cylindrical modular				
Steep taper				
HSK				
NCT				
P Steel	••	••	••	••
M Stainless steel	••	••	••	••
K Cast iron	••	••	••	••
N NF metals	••	••	••	••
S Materials with difficult cutting properties	••	••	••	••
H Hard materials	•	•	•	•
O Other	•	•	•	•
Indexable inserts				
	SN X... XNGK...ANN...	SO... SDRK...	XN L0705... XNGK0705...	XN F0705... XN X0705...
Number of cutting edges	8 / 2	4 / 1	14 / 2	4 / 1
Max. depth of cut [mm]	5 - 6	4,5 - 6,5	4 - 6	4 - 6
Page in catalogue	390	394	388	400
QR code				
	M5009	M4003	M3024	F4045

WALTER SELECT ●● Primary application ● Other application

Face milling cutters 329

Product range overviews with applications, materials and QR codes at a glance

The product range overviews include icons indicating applications, images of the products, and the range of materials for which the products can be used; if relevant, they also include shank versions, clamping systems and other important information. This means that you can immediately see which product you need – and go directly to more detailed information about it by scanning the corresponding QR code or typing the link provided into your browser.

NEW

Tools with this icon are product innovations and are displayed in this way in the product range overviews.



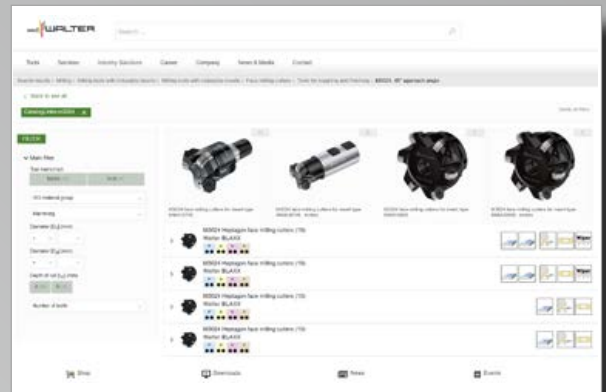
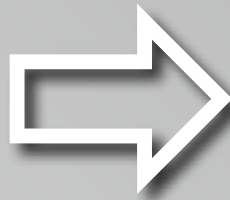
Indexable inserts and tools with these red icons are new to the range and are labelled in this way on the ordering page.

Scan the QR code

to go directly to the sub-page for the corresponding product in the Walter online catalog. The brief overview contains an image of the tool or product, icons representing applications and other information, and the main and secondary applications in the ISO materials sector.



M3024



Direct link

As well as scanning the QR code, you can also type the link directly into your browser:

www.walter-tools.com/woc/M3024.

In the e-document, you can of course click on the link itself.



Detailed overview of product data

Depending on the product, the information available here or on the following product details page will include dimensions, corresponding indexable inserts, adaptors, and accessories, as well as direct links to additional information such as cutting data recommendations via Walter GPS or technical information like assembly instructions, limit speeds and much more.

Heptagon face milling cutters
M3024
Walter BLXXX

14 cutting edges per indexable insert

M3024 Key (explanation of symbols)

Switch to inch values

Designation	D ₀ mm	D ₁ mm	d ₁ mm	L ₁ mm	L ₂ mm
Parallel bore DIN 138 transverse keyway - $\alpha=45^\circ$ - metric (4)	53 - 125	75.96 - 137.80	22 - 40.40 B	40 - 63	6
M3024-050-BU2-05-05 Availability	53	75.96	22	40	6
M3024-030-B27-05-05 Availability	80	92.96	27	50	6
M3024-100-B32-07-05 Availability	100	112.66	22	50	6
M3024-125-B40-08-05 Availability	125	137.86	40.40 B	63	6
Parallel bore DIN 138 transverse keyway - $\alpha=45^\circ$ - metric (1)	160	172.86	40.40 B	63	6

Technologies at Walter.

(((Accure-tec

The patented Walter Accure-tec technology ensures maximum vibration damping on boring bars for turning and adaptors for milling. Ideal for turning, milling and drilling operations involving extended tool applications.

Tiger-tec® Gold

Tiger-tec® Gold is the new Walter generation platform for unique indexable insert coatings. It makes maximum tool life and process reliability possible. The CVD grade is produced using the innovative ultra low pressure method (ULP-CVD). The special titanium aluminum nitride layer makes them highly resistant to abrasion, hairline cracks, oxidation and plastic deformation. The heat-resistant, tough PVD grade with aluminum oxide multi-layer is suitable for difficult machining conditions.

Tiger-tec® Silver

With Tiger-tec® Silver, Walter is offering a world first in coating technology for indexable inserts. The special aluminum oxide layer with optimized microstructure reduces wear during turning, milling and drilling operations, and increases toughness and temperature resistance for significantly higher cutting data.

Walter BLAXX

Walter BLAXX is the benchmark for a new generation of milling cutters: The milling bodies are extremely robust thanks to their special surface treatment. The milling systems, which are mainly positioned tangentially, are equipped with Tiger-tec® indexable inserts. Tools with the "Walter BLAXX" designation combine high wear resistance with unbeatable performance data.

Walter Green

Walter Green: Sustainability and responsible use of resources are central components of our company principles. We use our "Walter Green" seal to show how we implement these principles, such as by offsetting our CO₂ emissions with environmental conservation projects.

Walter Nexxt

Engineering Kompetenz and digital expertise go hand in hand at Walter. Together with our wholly owned software subsidiary Comara, we develop digital solutions that efficiently connect machines and tools, optimizing their performance on the basis of real-time data. Digital solutions on a level playing field with Industry 4.0 – Walter Nexxt.

Walter Xpress

Walter Xpress is the rapid ordering and delivery service offered by Walter Multiply for high-quality special tools. It is available for around 10,000 tool varieties, with a maximum delivery time of two to four weeks from the order date. The ordering process is clearly structured and guarantees absolute planning security. Quotations for all inquiries are calculated and provided within 24 hours.

XD Technology

Walter Titex solid carbide drilling and reaming tools stand for precision, high performance and cost-efficiency when drilling in practically any material. Walter Titex XD Technology offers the greatest precision and cost-efficiency in deep-hole drilling operations up to 70 × D_c without pecking.

Xill-tec™

With Xill-tec™, the solid carbide milling cutters from the MC230 Advance product range, Walter offers a uniquely wide range, with different dimensions, numbers of teeth and shank versions. This means that users are well-equipped for all conceivable milling operations and ISO materials. Universal use – with excellent quality.

Xtra-tec®

Xtra-tec® indexable insert milling cutters and drills guarantee extremely soft cutting action and optimal surface quality on almost all materials. Indexable inserts with highly positive geometries and the Tiger-tec® coating have a particularly beneficial hardness/toughness ratio. For maximum productivity and process reliability.

Xtra-tec® XT

Xtra-tec® XT is the latest generation of Walter milling tools. As the "Xtended" Xtra-tec® technology, it offers a completely new perspective on productivity and process reliability. It can cover nearly all milling operations in every common material group: More reliable, productive, cost-efficient than ever before – all while compensating for the CO₂ emissions through Walter Green.

X-treme Evo

The X-treme Evo solid carbide drills from the DC160 Advance product range and DC260 Advance step drills embody "the next generation of drilling": Can be used universally for all ISO material groups, machine concepts and applications. With outstanding tool life, productivity and process reliability.



Walter Capto™ is a modular tool adaptor system. It is suitable for all turning, milling, drilling and threading processes. Its ISO-standardized polygon taper absorbs torsional moments and bending moments extremely well and ensures optimal repeat accuracy.



Walter ConeFit is an extremely flexible solid carbide milling system with a wide range of high-performance exchangeable heads and shaft variants. Its conical thread can self-center, thereby guaranteeing maximum stability and concentricity.



Walter ScrewFit users benefit from maximum flexibility. Its modular interface is suitable for a wide variety of boring bars and adaptors and a wide range of tool diameters and lengths for milling and drilling.



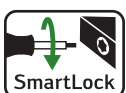
The precision-ground QuadFit interface with taper and support face characteristics the precision of the vibration-damped boring bars for turning and thread turning with Walter Accure-tec technology. The exchangeable head system, which can be rotated by 180°, makes it possible to rapidly replace tools with high indexing accuracy.



In turning and grooving operations, the Walter precision cooling system provides cooling at the center of the chip formation. Its dual coolant jets are directed precisely onto the flank and rake faces. In drilling operations, the coolant jets exit close to the cutting edge, cooling the flank and rake faces at the same time. This system provides significantly increased tool life, improved chip breaking and chip removal, greater efficiency and higher quality.

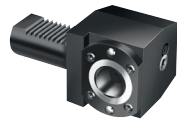


"Flash" refers to specialized solid carbide milling cutters for high-feed milling. Their end-face geometry reduces the chip thickness "h" and therefore enables an extremely high feed per tooth. Forces that occur are diverted axially towards the center of the tool, which helps to stabilize the machining process.



On Walter turning toolholders with "SmartLock", the clamping screw can be operated from the side of the tool. This makes it possible to change the inserts in the machine quickly and easily. Tool change times are reduced as a result. Ideal for use on CNC lathe and multi-spindle machines.

Stationary adaptors



VDI DIN 69880 clamping units



Clamping units



Clamping units



Clamping units



Clamping units

Designation	TYP 2030 / 2040 / 2050 / 2060	TYP 2090	Typ 2080 / 2085	Typ 2080 / 2085	Typ 3000 / 2000 / 20.5
Machine-side	VDI DIN 69880	Bushing clamp	Square shank	Square shank	Parallel shank with clamping surface
Tool-side	C3 - C6	C3 - C8	C3 - C5	C4 - C5	C3 - C5
Page in catalog	A 16	A 21	A 17	A18	A 19
QR code					
www.walter-tools.com/woc/	TYP2030	TYP2090	TYP2080/2085	TYP2080/2085	TYP3000

Stationary adaptors



Walter Capto™ – Axial adaptor



Walter Capto™ – Radial adaptor



Axial adaptor

Designation	A2120-C...-P	A2121-C...-P	C.-ASH
Machine-side	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623
Tool-side	20 x 20 - 25 x 25	20 x 20 - 25 x 25	20 x 20 - 3/4 x 3/4
Page in catalog	A 31	A 30	A 31
QR code			
www.walter-tools.com/woc/	A2120-C-P	A2121-C-P	C-ASH



Radial adaptor

Designation	C.-ASHA
Machine-side	Walter Capto™ in acc. with ISO 26623
Tool-side	32 x 25 - 32 x 32
Page in catalog	A 30
QR code	
www.walter-tools.com/woc/	C-ASHA

Stationary adaptors



VDI adaptor – DIN 69880
parting blades



VDI adaptor – DIN 69880
parting blades



VDI adaptor – DIN 69880
shank tools



VDI adaptor – DIN 69880
shank tools

Designation	A2110-V...-P	A2111-V...-P	A2120-V...-P	A2121-V...-P
Machine-side	VDI DIN 69880	VDI DIN 69880	VDI DIN 69880	VDI DIN 69880
Tool-side	26R - 32R	26R - 32R	20 x 20 - 25 x 25	20 x 20 - 25 x 25
Page in catalog	A 12	A 14	A 10	A 11
QR code				
www.walter-tools.com/woc/	A2110-V-P	A2111-V-P	A2120-V-P	A2121-V-P



Master VDI DIN 69880

Designation	AK135M
Machine-side	VDI DIN 69880
Tool-side	80
Page in catalog	A 15
QR code	
www.walter-tools.com/woc/	AK135M

Stationary adaptors



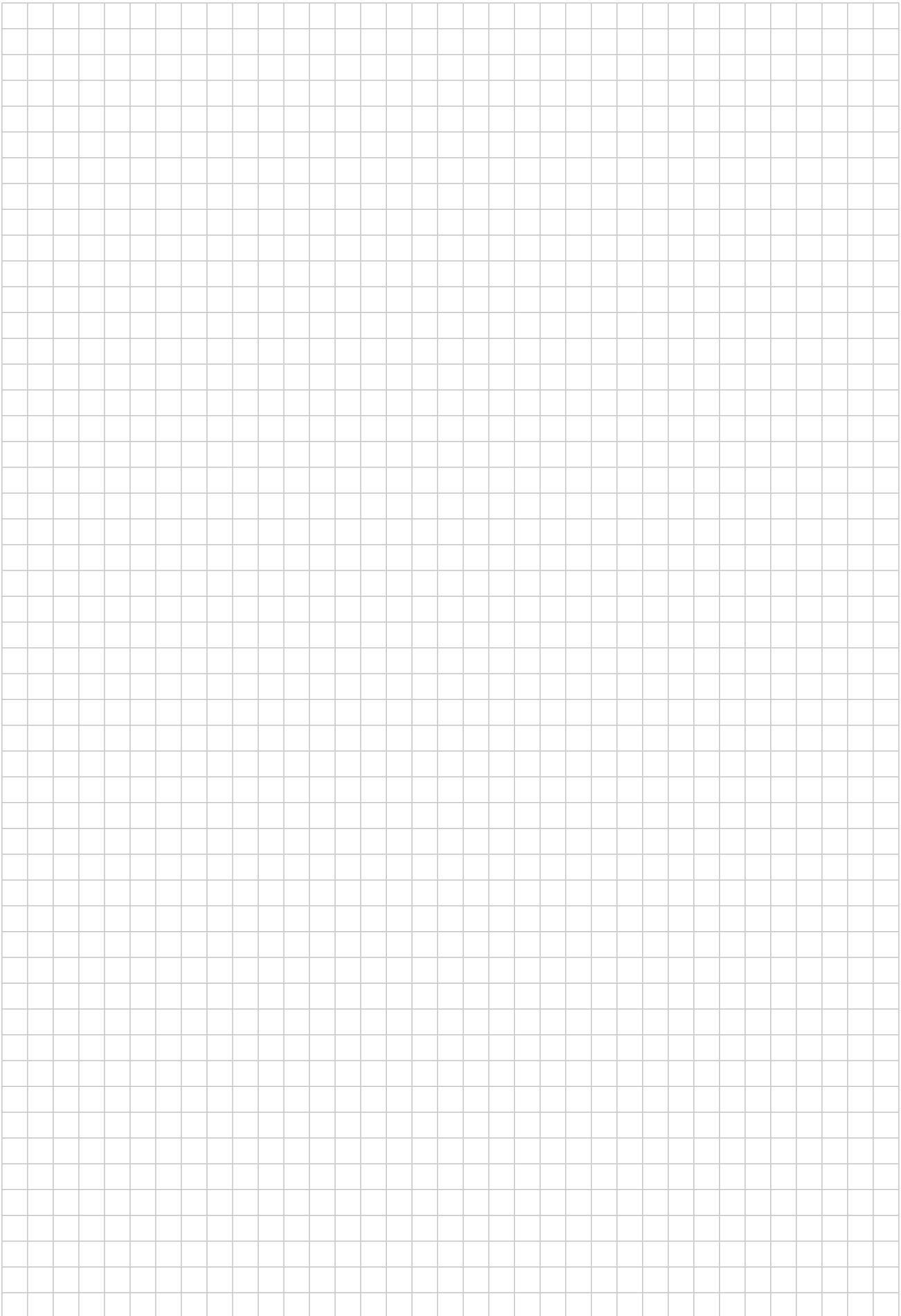
BMT adaptor – Parting blades

Nakamura adaptor – Parting blades

BMT adaptor – DIN 69880 shank tools

Doosan adaptor – DIN 69880 shank tools

Designation	A2110-BT...-P	A2110-NA...-P	A2120-BT...-P	A2120-DO...-P
Machine-side	BMT	Nakamura	BMT	Doosan
Tool-side	26R - 32R	32R	20 x 20 - 25 x 25	25 x 25
Page in catalog	A 36	A 37	A 34	A 35
QR code				
www.walter-tools.com/woc/	A2110-BT-P	A2110-NA-P	A2120-BT-P	A2120-DO-P



E1

VDI adaptor – DIN 69880 shank tools

A2120-V...-P



– Precision cooling

Tool	Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
	A2120-V25-20N-055-P	VDI25	20	39	30	20	19	70	35	35	35	1.3
	A2120-V30-20N-070-P	VDI30	20	55.5	30	39.5	35.5	70	48	35	35	1.7
	A2120-V40-25N-085-P	VDI40	25	50.5	42	45	25.5	85	45	44	44	3.2
	A2120-V50-25N-100-P	VDI50	25	55.5	50	50	30.5	100	70	44	44	3.2

VDI DIN 69880

The maximum recommended coolant pressure is 80 bar (1160 psi)

VDI adaptor – DIN 69880 shank tools

A2121-V...-P



– Precision cooling

Tool	Designation	d ₁ mm	h mm	b ₁ mm	b ₂ mm	h ₂ mm	h ₃ mm	l ₄ mm	l ₅ mm	kg
	A2121-V30-20L-070-P	30	20	35	35	35	38	35.5	15.5	1.34
	A2121-V30-20R-070-P	30	20	35	35	35	38	35.5	15.5	1.34
	A2121-V40-25L-085-P	40	25	43	43	41	48	48	23	2.8
	A2121-V40-25R-085-P	40	25	43	43	41	48	48	23	2.67
	A2121-V50-25L-100-P	50	25	50	50	50	55	48	23	4.35
	A2121-V50-25R-100-P	50	25	50	50	50	55	48	23	4.78

VDI DIN 69880

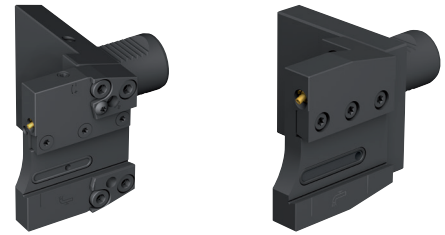
The maximum recommended coolant pressure is 80 bar (1160 psi)
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁ [mm]	30	40	50
	Screw 1 Tightening torque		M06X025 ISO4762 12.9 (SW 5) 5 Nm		
	Screw 2		M06X014 ISO4762 12.9 (SW 5)		
	Screw 3		FS2278	FS2278	FS2278
	Screw 1			M08X025 ISO4762 12.9 (SW 6)	M08X025 ISO4762 12.9 (SW 6)
	Screw 2			M08X016 ISO4762 12.9 (SW 6)	M08X016 ISO4762 12.9 (SW 6)
	Wedge		FK392	FK393	FK393
	O-ring		O-RING 28.3X1.78 70/75	O-RING 37.77X2.62 70/75	O-RING 47.29X2.62 70/75

Accessories		d ₁ [mm]	30	40–50
	Keys		ISO2936-5 (SW5)	ISO2936-6 (SW 6)

VDI adaptor – DIN 69880 parting blades

A2110-V...-P



– Precision cooling

Tool	Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
<p>VDI DIN 69880</p>	A2110-V25-26L-083-P	VDI25	26	43	30	17	83	52	37	37	1.2
	A2110-V25-26R-083-P	VDI25	26	43	30	17	83	52	37	37	1.2
	A2110-V30-26L-090-P	VDI30	26	50	35	17	90	52	37	37	1.5
	A2110-V30-26R-090-P	VDI30	26	50	35	17	90	52	37	37	1.5
	A2110-V30-32L-084-P	VDI30	32	51	35	17	84	52	39	39	1.6
	A2110-V30-32R-084-P	VDI30	32	51	35	17	84	52	39	39	1.6
<p>VDI DIN 69880</p>	A2110-V40-32L-080-P	VDI40	32	76	42.5	20	80	46	50	50	3.1
	A2110-V40-32R-080-P	VDI40	32	76	42.5	20	80	46	50	50	2.8

The maximum recommended coolant pressure is 80 bar (1160 psi)
 Bodies and assembly parts are included in the scope of delivery

Assembly parts	d ₁	VDI25	VDI30	VDI40
	Screw 1	M05X010 ISO14579 8.8 (T25)	M05X010 ISO14579 8.8 (T25)	M05X016 ISO14581 8.8 (T25)
	Screw 2	M08X016 ISO4762 12.9 (SW 6)	M06X020 DIN7984 10.9 (SW 4)	M08X025 ISO4762 12.9 (SW 6)
	Screw 3			FS2278
	Wedge	FK383	FK383	FK384
	Coolant nozzle	FS1477	FS1477	FS1477
	Parallel pin			08.0M6X020 ISO8735
	Eccentric pin	FS2275	FS2275	FS2275
	O-ring 1	O-RING 23.52X1.78 70/75	O-RING 28.3X1.78 70/75	O-RING 37.77X2.62 70/75
	O-ring 2	O-RING 24X2 70/80	O-RING 24X2 70/80	O-RING 27X2

Accessories	d ₁	VDI25–VDI30	VDI40
	Keys	FS1592 (T25IP)	FS1592 (T25IP)
	Keys ISO 2936-4	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	Keys ISO 2936-5	ISO2936-5 (SW5)	
	Keys ISO 2936-6		ISO2936-6 (SW 6)

VDI adaptor – DIN 69880 parting blades

A2111-V...-P



– Precision cooling

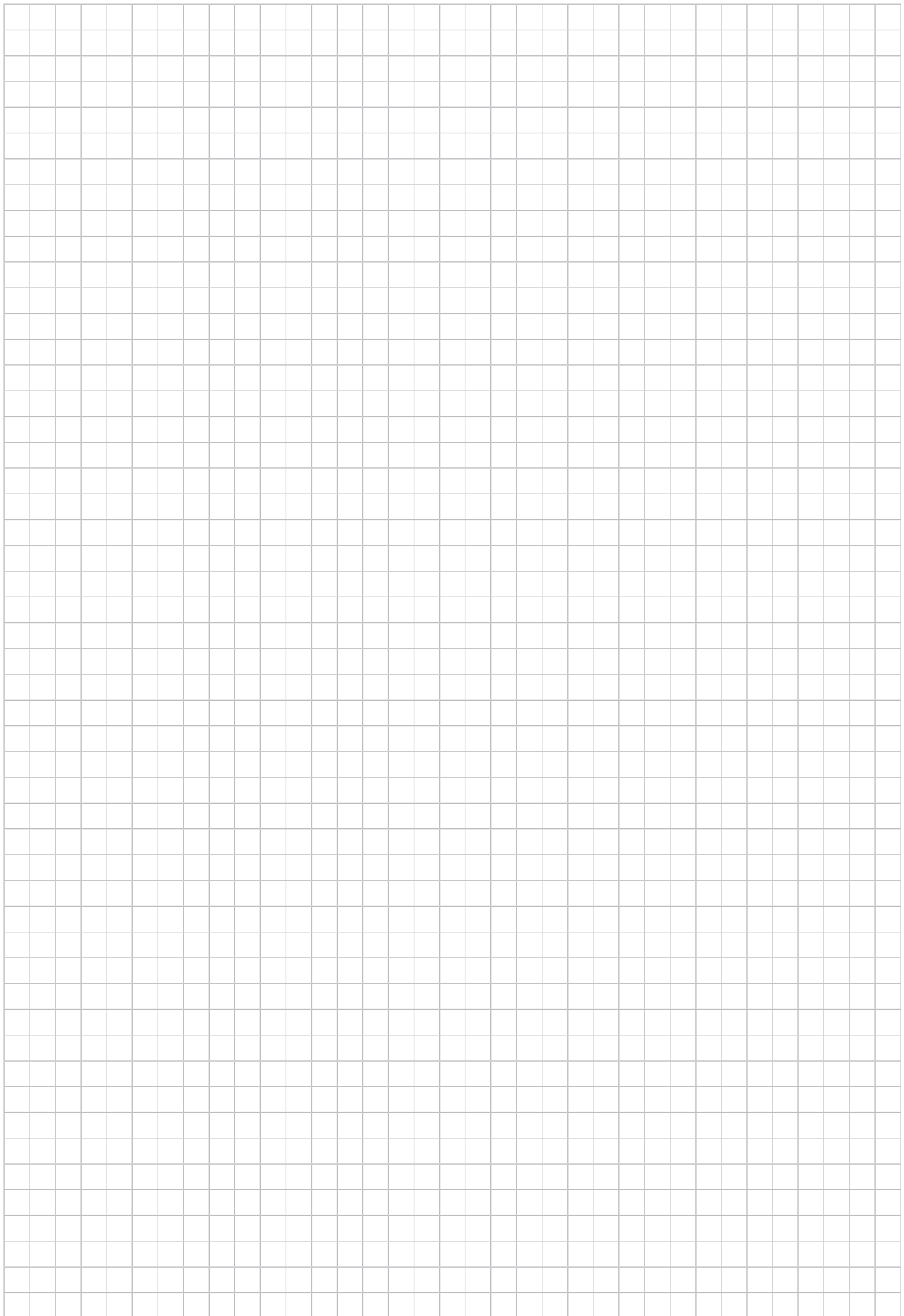
Tool	Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	l ₄ mm	l ₅ mm	h ₂ mm	h ₃ mm	kg
	A2111-V30-26L-045-P	VDI30	26	35	35	50.5	45.5	33	33	2
	A2111-V30-26R-045-P	VDI30	26	35	35	50.5	45.5	33	33	2
	A2111-V30-32L-045-P	VDI30	32	42.5	42.5	50.5	45.5	43	43	2.9
	A2111-V30-32R-045-P	VDI30	32	42.5	42.5	50.5	45.5	43	43	2.9
	A2111-V40-32L-045-P	VDI40	32	42.5	42.5	50.5	45.5	43	43	3.1
	A2111-V40-32R-045-P	VDI40	32	42.5	42.5	50.5	45.5	43	43	3.2

VDI DIN 69880

The maximum recommended coolant pressure is 80 bar (1160 psi)
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		VDI30	VDI40
	Screw 1	M05X016 ISO14581 8.8 (T25)	M05X016 ISO14581 8.8 (T25)
	Screw 2	M06X025 ISO4762 12.9 (SW 5)	
	Tightening torque	5 Nm	
	Screw 3	M06X020 DIN7984 10.9 (SW 4)	
	Screw 2		M08X025 ISO4762 12.9 (SW 6)
	Wedge	FK384	FK384
	Coolant nozzle	FS1477	FS1477
	Parallel pin	08.0M6X020 ISO8735	08.0M6X020 ISO8735
	Eccentric pin	FS2275	FS2275
	O-ring 1	O-RING 28.3X1.78 70/75	O-RING 28.3X1.78 70/75
	O-ring 2	O-RING 24X2 70/80	O-RING 27X2

Accessories		VDI30	VDI40
	Keys	FS1592 (T25IP)	FS1592 (T25IP)
	ISO 2936-4 key	ISO2936-4 (SW 4)	ISO2936-4 (SW 4)
	ISO 2936-5 key	ISO2936-5 (SW5)	ISO2936-6 (SW 6)



E1

Master VDI DIN 69880

AK135M



- Modular NCT adaptor
- DIN ISO 10889

Tool		Designation	d_1	d_{11}	d_{14} mm	d_{14} mm	l_4 mm	kg
		AK135M.5.40.060.N8	VDI40	NCT 80	80	83	60	2.79
		AK135M.5.50.060.N8	VDI50	NCT 80	80	98	60	3.7
		AK135M.5.60.060.N8	VDI60	NCT 80	80	123	60	5.5
VDI DIN 69880								

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

VDI DIN 69880 clamping units

TYP 2030 / 2040 / 2050 / 2060 mm



Tool		Designation	Size	d ₁	l ₂ mm	l ₃ mm	l ₄ mm	l ₅ mm	b ₁ mm	b ₂ mm	h mm	h ₂ mm	h ₃ mm
VDI DIN 69880		C3-LC2030-41020M	C3	VDI30	20	41	60		74		57	38	30
		C3-LC2030-41030M	C3	VDI30	30	41	60		73		57	41	30
		C3-RC2030-41020M	C3	VDI30	20	41	60		74		57	38	30
		C3-RC2030-41030M	C3	VDI30	30	41	60		73		57	41	30
		C4-LC2040-51030M	C4	VDI40	30	51	75		86		75	54	38
		C4-LC2040-51040M	C4	VDI40	40	51	75		86		75	60	38
		C4-RC2040-51030M	C4	VDI40	30	51	75		86		75	54	38
		C4-RC2040-51040M	C4	VDI40	40	51	75		86		75	60	38
		C5-LC2040-53030M	C5	VDI40	30	53	85		99		82	47	41
		C5-LC2040-53040M	C5	VDI40	40	53	85		99		82	53	41
		C5-LC2050-53030M	C5	VDI50	30	53	85		99		86	53	43
		C5-LC2050-53040M	C5	VDI50	40	53	85		99		86	65	43
		C5-LC2060-43040M	C5	VDI60	40	43	75		99		94	76	53
		C5-RC2040-53030M	C5	VDI40	30	53	85		99		82	47	41
		C5-RC2040-53040M	C5	VDI40	40	53	85		99		82	53	41
		C5-RC2050-53030M	C5	VDI50	30	53	85		99		86	53	43
		C5-RC2050-53040M	C5	VDI50	40	53	85		99		86	65	43
		C5-RC2060-43040M	C5	VDI60	40	43	75		99		94	76	53
C6-LC2060-53040	C6	VDI60	40	53	95		122		105	70	53		
C6-RC2060-53040	C6	VDI60	40	53	95		122		105	70	53		
VDI DIN 69880		C3-LC2030-00060M	C3	VDI30			60	44	50	38	61		34
		C3-RC2030-00060M	C3	VDI30			60	44	50	38	61		34
		C4-LC2040-00075M	C4	VDI40			75	53	75	48	75		38
		C4-RC2040-00075M	C4	VDI40			75	53	75	48	75		38
		C4-RC2050-00065M	C4	VDI50			65	39	70	48	83		42
		C5-LC2040-00085M	C5	VDI40			85	72	75	64	82		41
		C5-LC2050-00085M	C5	VDI50			85	61	83	64	90		45
		C5-RC2040-00085M	C5	VDI40			85	72	75	64	82		41
		C5-RC2050-00085M	C5	VDI50			85	61	83	64	90		45
		C5-RC2060-00075M	C5	VDI60			75	16	80	64	82		58
		C6-LC2060-00095	C6	VDI60			95	50	84	84	105		58
		C6-RC2060-00095	C6	VDI60			95	50	84	84	105		58

Drawing shows right-hand design

Note: Provided that no tool is clamped (and the clamping units are stored in the tool room), the clamping units should be fitted with a cover plug to protect the polygonal adaptor.

Important: The maximum cooling lubricant pressure is 80 bar

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Clamping units

Typ 2080 / 2085 mm



- Manually actuated
- With square shank for external machining

Tool		Designation	Size	l ₁ mm	l ₂ mm	l ₃ mm	l ₅ mm	b ₁ mm	b ₂ mm	h mm	h ₂ mm	h ₃ mm	h ₄ mm	T _h
		C4-LC2080-59110A	C4	110.5	57	59		83	48	25	25	77	86	G 1/4
		C5-RC2085-32130-20M	C5	130.5		32		64			31.8	72		G1/8
Square shank														
		C3-LC2085-4038M	C3	95	79	25	19	38	20	40	20	62		G1/8
		C3-RC2085-4038M	C3	95	79	25	19	38	20	40	20	62		G1/8
		C4-LC2085-5048	C4	126.4	101	30.5	24	48	25	50	25	54		G1/8
		C4-RC2085-5048	C4	126.4	101	30.5	24	48	25	50	25	54		G1/8
		C5-LC2085-6464	C5	146.4	118	36	32	64	32	64	32	68		G1/8
Square shank														

Drawing shows right-hand design

Length and depth of the groove in the turret

Important: The maximum cooling lubricant pressure is 80 bar

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

*Groove depth in the turret with type 2080

**One-piece version

***Length and depth of the groove in the turret with type 2085

Clamping units

Typ 2080 / 2085 inch



- Manually actuated
- With square shank for external machining

Tool		Designation	Size	l ₁ inch	l ₂ inch	l ₃ inch	l ₅ inch	b ₁ inch	b ₂ inch	h inch	h ₂ inch	h ₃ inch	T _h
		C4-LC2085-24102-16M	C4	5.035		0.945	5.035	1.890			1.000	2.323	G1/8
		C4-RC2085-24102-16M	C4	5.035		0.945	5.035	1.890			1.000	2.323	G1/8
		C5-LC2085-32130-20M	C5	5.138		1.260	5.138	2.520			1.250	2.835	G1/8

Square shank

Drawing shows right-hand design
 Length and depth of the groove in the turret
 For the selection of VDI clamping units, see „Technical information – Stationary adaptors“
 Important: The maximum cooling lubricant pressure is 80 bar
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“
 *Groove depth in the turret with type 2080
 **One-piece version
 ***Length and depth of the groove in the turret with type 2085

Clamping units

Typ 3000 / 2000 / 20.5 mm



- With round shank for internal machining
- Manually actuated

Tool

	Designation	Size	d_1	d_{14} mm	l_4 mm	l_3 mm	l_5 mm	h mm	h_4 mm	T_h
	C3-NC2000-08018-32	C3	32	45.5	18	0	80	30	26	G1/8
	C4-NC2000-10020-40	C4	40	51.5	20	8	100	37	28	G1/8
	C4-NC2000-12020-50	C4	50	51.5	20	28	120	47	28	G1/8
	C5-NC2000-12024-50	C5	50	61.5	24	0	120	47	33	G1/8
	C5-NC2000-14024-60	C5	60	61.5	25	20	140	57	33	G1/8

Cylindrical with Flat

Drawing shows right-hand design

Important: The maximum cooling lubricant pressure is 80 bar

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

*Maximum reduction of the clamping unit length

Clamping units

Typ 3000 / 2000 / 20.5 inch



- With round shank for internal machining
- Manually actuated

Tool		Designation	Size	d_1	d_{14} inch	l_4 inch	l_3 inch	l_5 inch	h inch	h_4 inch	T_h
		C3-NC2000-08018-A20	C3	0.039	1.791	0.709	0	3.150	1.181	0.930	G1/8
		C4-NC2000-12020-A32	C4	0.079	2.028	0.787	0	4.724		1.004	G1/8
		C5-NC2000-12024-A32	C5	0.079	2.421	0.945	0	4.724		1.22	G1/8

Cylindrical with Flat

Drawing shows right-hand design

Important: The maximum cooling lubricant pressure is 80 bar

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

*Maximum reduction of the clamping unit length

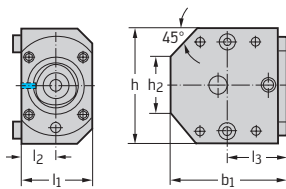
Clamping units

TYP 2090 mm



- Manually actuated
- For special flange-mounting applications

Tool



Designation	Size	l ₁ mm	l ₂ mm	l ₃ mm	b ₁ mm	h mm
C3-LC2090-19039M	C3	38	19	39	73	54
C3-RC2090-19039M	C3	38	19	39	73	54
C4-LC2090-24043A	C4	48	24	43	86	77
C4-RC2090-24043A	C4	48	24	43	86	77
C5-LC2090-32048A	C5	64	32	48	100	92
C5-RC2090-32048A	C5	64	32	48	100	92
C6-LC2090-42060	C6	84	42	60	122	105
C6-RC2090-42060	C6	84	42	60	122	105
C8-LC2090-50088	C8	100	50	88	146	133
C8-RC2090-50088	C8	100	50	88	146	133

Bush clamping

Drawing shows right-hand design

Note: Provided that no tool is clamped (and the clamping units are stored in the tool room), the clamping units should be fitted with a cover plug to protect the polygonal adaptor.

Important: The maximum cooling lubricant pressure is 80 bar

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

HSK DIN 69893-1 A master

C.-390.410 mm



Tool	Designation	d_1	d_{11}	l_4 mm	l_{16} mm	kg
<p>HSK DIN 69893-1 A</p>	C4-390.410-100 090A	HSK-A100	C4	90	61	2.61
	C5-390.410-100 100A	HSK-A100	C5	100	71	3.04
	C6-390.410-100 110A	HSK-A100	C6	110	81	3.68
	C8-390.410-100 120A	HSK-A100	C8	120	91	4.89
	C3-390.410-63 075C	HSK-A63	C3	75	49	0.94
	C4-390.410-63 080C	HSK-A63	C4	80	54	1.11
	C5-390.410-63 090C	HSK-A63	C5	90	64	1.47

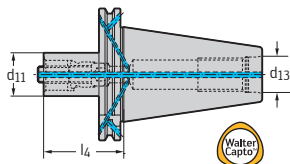
For Walter Capto™ tightening torques, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Accessories	d_1	HSK-A100	HSK-A63
	Coolant transfer	FS1065	FS1064
	Keys	FS953	FS952

DIN SK master

 C.-390B.140


– ISO 7388-1

Tool


SK DIN 69871 AD/B

Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-390B.140-40 030	SK40	C3	30	M16	0.88
C3-390B.140-40 060	SK40	C3	60	M16	1.03
C4-390B.140-40 030	SK40	C4	30	M16	0.87
C4-390B.140-40 060	SK40	C4	60	M16	1.13
C5-390B.140-40 040	SK40	C5	40	M16	0.95
C5-390B.140-40 080	SK40	C5	80	M16	1.52
C6-390B.140-40 085	SK40	C6	85	M16	1.84
C3-390B.140-50 030	SK50	C3	30	M24	2.69
C3-390B.140-50 060	SK50	C3	60	M24	2.82
C4-390B.140-50 030	SK50	C4	30	M24	2.7
C4-390B.140-50 060	SK50	C4	60	M24	2.92
C5-390B.140-50 030	SK50	C5	30	M24	2.66
C5-390B.140-50 070	SK50	C5	70	M24	3.17
C6-390B.140-50 030	SK50	C6	30	M24	2.57
C6-390B.140-50 080	SK50	C6	80	M24	3.66
C8-390B.140-50 070	SK50	C8	70	M24	3.79
C8-390B.140-50 120	SK50	C8	120	M24	5.7

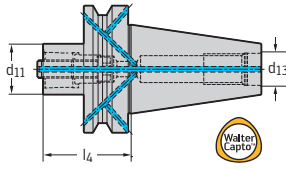
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

MAS-BT JIS B 6339 AD/B master

C.-390B.55 + C.-390B.58



– ISO 7388-2

Tool		Designation	d_1	d_{11}	l_4 mm	d_{13}	kg
 <p>JIS B 6339 AD/B</p>		C3-390B.55-40 030	BT40	C3	30	M16	0.9
		C3-390B.55-40 060	BT40	C3	60	M16	1.13
		C4-390B.55-40 030	BT40	C4	30	M16	0.9
		C4-390B.55-40 060	BT40	C4	60	M16	1.2
		C5-390B.55-40 050	BT40	C5	50	M16	1.13
		C5-390B.55-40 090	BT40	C5	90	M16	1.73
		C6-390B.55-40 075	BT40	C6	75	M16	1.74
		C3-390B.58-50 040	BT50	C3	40	M24	3.65
		C3-390B.58-50 070	BT50	C3	70	M24	3.76
		C4-390B.58-50 040	BT50	C4	40	M24	3.61
		C4-390B.58-50 070	BT50	C4	70	M24	3.83
		C5-390B.58-50 040	BT50	C5	40	M24	3.52
		C5-390B.58-50 080	BT50	C5	80	M24	4.04
		C6-390B.58-50 050	BT50	C6	50	M24	3.57
		C6-390B.58-50 100	BT50	C6	100	M24	4.73
		C8-390B.58-50 070	BT50	C8	70	M24	4.08
		C8-390B.58-50 120	BT50	C8	120	M24	5.98

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

DIN SK master

 C.-390B.540 + C.-390.540 mm

 – BIG-PLUS SYSTEM – BIG DAISHOWA licence
 – ISO 7388-1

Tool	Designation	d_1	d_{11}	l_4 mm	d_{13}	kg
	C3-390.540-50 030A	SK50	C3	30	M24	2.75
	C4-390.540-50 030A	SK50	C4	30	M24	2.74
	C5-390.540-50 030A	SK50	C5	30	M24	2.7
	C6-390.540-50 050A	SK50	C6	50	M24	3.06
	C8-390.540-50 070A	SK50	C8	70	M24	3.85
SK DIN 69871 AD/B						
	C4-390B.540-40 040	SK40	C4	40	M16	0.93
	C5-390B.540-40 050	SK40	C5	50	M16	1.1
	C6-390B.540-40 085	SK40	C6	85	M16	1.82
SK DIN 69871 AD/B						

 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

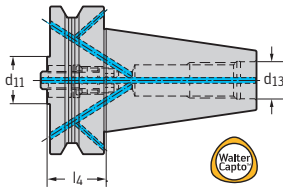
MAS-BT JIS B 6339 AD/B master

C.-390B.555 + C.-390B.558



– BIG-PLUS SYSTEM – BIG DAISHOWA licence
– ISO 7388-2

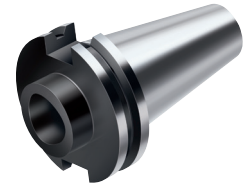
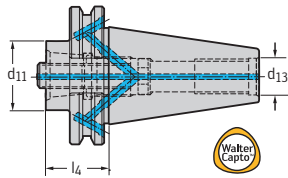
Tool



Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-390B.555-40 030	BT40	C3	30	M16	3
C4-390B.555-40 040	BT40	C4	40	M16	1.39
C5-390B.555-40 050	BT40	C5	50	M16	1.12
C6-390B.555-40 075	BT40	C6	75	M16	1.72
C3-390B.558-50 040	BT50	C3	40	M24	3.6
C4-390B.558-50 040	BT50	C4	40	M24	3.6
C5-390B.558-50 040	BT50	C5	40	M24	3.6
C6-390B.558-50 050	BT50	C6	50	M24	3.6
C8-390B.558-50 070	BT50	C8	70	M24	4.12

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
For Walter Capto™ tightening torques, see „Assembly parts and accessories“

ASME CAT master

 C.-A390B.45 mm

Tool


ASME B 5.50

Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-A390B.45-40 030	CAT40	C3	30	5/8"-11	0.83
C3-A390B.45-40 060	CAT40	C3	60	5/8"-11	1
C4-A390B.45-40 030	CAT40	C4	30	5/8"-11	0.83
C4-A390B.45-40 060	CAT40	C4	60	5/8"-11	1.1
C5-A390B.45-40 040	CAT40	C5	40	5/8"-11	0.93
C5-A390B.45-40 080	CAT40	C5	80	5/8"-11	1.5
C6-A390B.45-40 085	CAT40	C6	85	5/8"-11	1.97
C3-A390B.45-50 030	CAT50	C3	30	1"-8	2.68
C3-A390B.45-50 060	CAT50	C3	60	1"-8	2.86
C4-A390B.45-50 030	CAT50	C4	30	1"-8	2.62
C4-A390B.45-50 060	CAT50	C4	60	1"-8	2.9
C5-A390B.45-50 030	CAT50	C5	30	1"-8	2.68
C5-A390B.45-50 070	CAT50	C5	70	1"-8	3.38
C6-A390B.45-50 030	CAT50	C6	30	1"-8	2.56
C6-A390B.45-50 080	CAT50	C6	80	1"-8	3.68
C8-A390B.45-50 070	CAT50	C8	70	1"-8	3.81
C8-A390B.45-50 120	CAT50	C8	120	1"-8	5.68

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Extension

C.-391.01



- ISO 26623

Tool		Designation	d ₁	d ₁₁	l ₄ mm	kg
		C3-391.01-32 060A	C3	C3	60	0.36
		C3-391.01-32 080A	C3	C3	80	0.47
		C4-391.01-40 060A	C4	C4	60	0.56
		C4-391.01-40 080A	C4	C4	80	0.74
		C5-391.01-50 080A	C5	C5	80	1.15
		C5-391.01-50 100A	C5	C5	100	1.45
	Walter Capto™ nach ISO 26623	C6-391.01-63 100A	C6	C6	100	2.26
		C6-391.01-63 140A	C6	C6	140	3.16
		C8-391.01-80 100A	C8	C8	100	3.71
		C8-391.01-80 125A	C8	C8	125	4.64
		C3-391.01-32 035	C3	C3	35	0.22
		C4-391.01-40 040	C4	C4	40	0.39
		C5-391.01-50 050	C5	C5	50	0.73
		C6-391.01-63 060	C6	C6	60	1.37
		C8-391.01-80 065	C8	C8	65	2.4
	Walter Capto™ nach ISO 26623					

*Short version only for bushing clamp
For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Reduction adaptor

C.-391.02



– ISO 26623

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	kg
<p>Walter Capto™ nach ISO 26623</p>	C4-391.02-32 070A	C4	C3	70	12	0.6
	C5-391.02-40 085A	C5	C4	85	12	1.13
	C6-391.02-50 110A	C6	C5	110	12	2.21
	C8-391.02-63 120A	C8	C6	120	12	4.08
<p>Walter Capto™ nach ISO 26623</p>	C5-391.02-32 033A	C5	C3	33	5	0.5
	C5-391.02-40 040A	C5	C4	40	15	0.5
	C6-391.02-32 032	C6	C3	32	6	0.91
	C6-391.02-40 040	C6	C4	40	11.3	0.99
	C6-391.02-50 050A	C6	C5	50	20	1.1
	C8-391.02-50 045A	C8	C5	45	5	1.8
	C8-391.02-63 055A	C8	C6	55	15	2.13
<p>Walter Capto™ nach ISO 26623</p>	C4-391.02-32 055A	C4	C3	55	31	0.47
	C5-391.02-32 060A	C5	C3	60	34.8	0.69
	C5-391.02-40 065A	C5	C4	65	40	0.8
	C6-391.02-32 070A	C6	C3	70	39	1.13
	C6-391.02-40 080A	C6	C4	80	51.3	1.29
	C6-391.02-50 080A	C6	C5	80	51.5	1.51
	C8-391.02-32 060B	C8	C3	60	20.7	1.9
	C8-391.02-40 070B	C8	C4	70	31.4	2.2
	C8-391.02-50 080B	C8	C5	80	42.8	2.42
	C8-391.02-63 080B	C8	C6	80	44.5	2.65

*Short version only for bushing clamp
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Walter Capto™ – Radial adaptor

A2121-C...-P / C.-ASH / C.-ASHA mm



– Precision cooling

Tool		d ₁ mm	h mm	b ₂ mm	h ₂ mm	d ₁₄ mm	f mm	h ₂ mm	l ₄ mm	l ₅ mm	kg
	Designation										
	A2121-C5-20N-064-P	C5	20	25	32	85			65	45	1.4
	A2121-C6-25N-076-P	C6	25	32	38	100			80	55	2.5
Walter Capto™ nach ISO 26623											
	C8-ASHL45-50135-32	C8	32			140	17		135	135	6.73
	C8-ASHR45-50135-32	C8	32		45	140	17		135	135	6.72
Walter Capto™ nach ISO 26623											
	C6-ASHA-50071-32M	C6	32		50	130			71	45	3.29
	C8-ASHA-55085-32M	C8	32	80	55	142			85	53	4.78
Walter Capto™ nach ISO 26623											

Important: Adaptors are designed for machines with an automatic tool changing system.
 The maximum recommended coolant pressure is 80 bar (1160 psi)
 If the corner radius r = 2.5 mm or above, the corner area of the body must be reworked.
 Coolant outlet to the nozzle can be set by turning a valve to the left/right

Assembly parts		
	d ₁ [mm]	
	Screw	C5–C6 C8
		3214 020-512
	Cooling lubricant nozzle	FS1476

Walter Capto™ – Axial adaptor

A2120-C...-P / C.-ASH mm



– Precision cooling

Tool		Designation	Size	h mm	b ₁ mm	b ₂ mm	d ₁₄ mm	f mm	h ₂ mm	h ₃ mm	l ₃ mm	l ₄ mm	kg
		A2120-C5-20L-095-P	C5	20	26		85	10	32	37	95	95	1.6
		A2120-C5-20R-095-P	C5	20	26		85	10	32	37	95	95	1.6
		A2120-C6-20L-105-P	C6	20	32		85	10	32	37	105	105	2.3
		A2120-C6-20R-105-P	C6	20	32		85	10	32	37	105	105	2.3
		A2120-C6-25L-122-P	C6	25	38		100	13	32	46	122	122	3
		A2120-C6-25R-122-P	C6	25	38		100	13	32	46	122	122	3
Walter Capto™ nach ISO 26623													
		C8-ASHL-40140-32	C8	32	40		110	8	40	55	140	140	5.4
		C8-ASHR-40140-32	C8	32	40		110	8	40	55	140	140	5.3
Walter Capto™ nach ISO 26623													
		C6-ASHS-58115-32	C6	32			140	33			115	115	7.7
Walter Capto™ nach ISO 26623													
		C5-ASHR3-36123-20	C5	20			90	16			123	123	3.6
		C6-ASHL3-36125-20	C6	20			90	16			125	125	3.9
		C6-ASHR3-36125-20	C6	20			90	16			125	125	3.9
Walter Capto™ nach ISO 26623													

Important: Adaptors are designed for machines with an automatic tool changing system.
 The maximum recommended coolant pressure is 80 bar (1160 psi)
 If the corner radius $r = 2.5$ mm or above, the corner area of the body must be reworked.
 Coolant outlet to the nozzle can be set by turning a valve to the left/right

Assembly parts

	Size	C5–C6	C8
	Screw		3214 020-512
	Cooling lubricant nozzle		FS1480

Axial adaptor

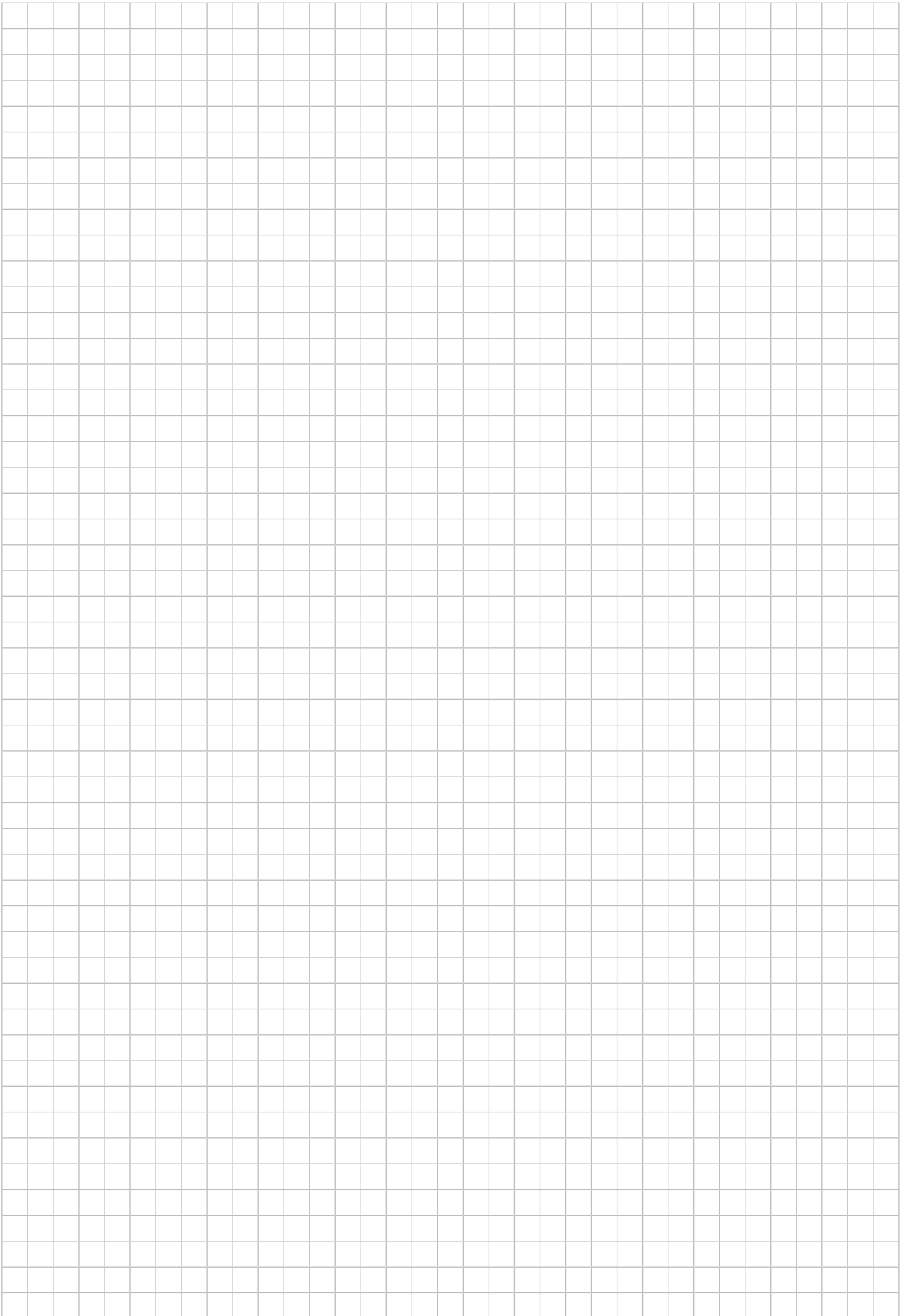
C.-ASH inch



- ISO 26623
- For shank tools

Tool	Designation	Size	h inch	d ₁₄ inch	f inch	l ₃ inch	l ₄ inch
 	C6-ASHR3-36125-12-A	C6	0.750	3.540	0.614	4.921	4.921
Walter Capto™ nach ISO 26623							

Important: Adaptors are designed for machines with an automatic tool changing system.
 If the corner radius $r = 2.5$ mm or above, the corner area of the body must be reworked.



E1

BMT adaptor – DIN 69880 shank tools

A2120-BT...-P



- Precision cooling
- For BMT machines

Tool		Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
		A2120-BT45-20N-063-P	BT45	20	62	40	42	34	63	38	38	38	2.2
		A2120-BT55-25N-060-P	BT55A	25	81	44	56	56	60	35	49	49	3.9

BMT

The maximum recommended coolant pressure is 80 bar (1160 psi)

Doosan adaptor – DIN 69880 shank tools

A2120-DO...-P



- Precision cooling
- For Doosan machines

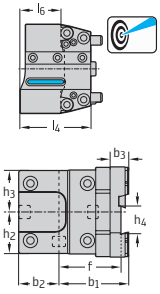
Tool		Designation	d ₁	h mm	b ₁ mm	b ₂ mm	b ₃ mm	f mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
		A2120-DO-25N-072-P	DO-A	25	51	35	31	26	72	47	51	51	3
	Doosan												

The maximum recommended coolant pressure is 80 bar (1160 psi)

BMT adaptor – Parting blades

A2110-BT...-P 




- Precision cooling
- For BMT machines

Tool		Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	kg
		A2110-BT45-26L-080-P	BT45	26	69	40	20	80	41	42	42	2.1
		A2110-BT45-26R-080-P	BT45	26	69	40	20	80	41	42	42	2
		A2110-BT55-32L-080-P	BT55A	32	73.5	44	20	80	46	50	50	2.1
		A2110-BT55-32R-080-P	BT55A	32	73.5	44	20	80	45	50	50	2.1
		A2110-BT65-32L-083-P	BT65A	32	79	47	20	83	45	50	50	3
		A2110-BT65-32R-083-P	BT65A	32	79	47	20	83	45	50	50	3

BMT

The maximum recommended coolant pressure is 80 bar (1160 psi)
Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁	BT45	BT55A	BT65A
	Screw 1		M05X016 ISO14581 8.8 (T25)		M05X016 ISO14581 8.8 (T25)
	Screw 2		M06X022 ISO4762 12.9 (SW 5)		M06X022 ISO4762 12.9 (SW 5)
	Screw 3		M08X025 ISO4762 12.9 (SW 6)		M08X025 ISO4762 12.9 (SW 6)
	Screw 4		FS2287 (T25IP)		FS2287 (T25IP)
	Wedge		FK384		FK384
	Coolant nozzle		FS1477		FS1477
	Parallel pin		08.0M6X020 ISO8735		08.0M6X016 ISO8735
	Eccentric pin		FS2275		FS2275
	O-ring		O-RING 24X2 70/80		O-RING 27X2

Accessories		d ₁	BT45–BT65A	BT55A
	Keys		FS1592 (T25IP)	
	ISO 2936-5 key		ISO2936-5 (SW5)	
	ISO 2936-6 key		ISO2936-6 (SW 6)	

Nakamura adaptor – Parting blades

A2110-NA...-P



- Precision cooling
- For Nakamura machines

Tool	Designation	d ₁	h ₄ mm	b ₁ mm	b ₂ mm	b ₃ mm	l ₄ mm	l ₆ mm	h ₂ mm	h ₃ mm	
	A2110-NA55-32L-076-P	NA55A	32	56	41.5	17.5	76	56	43	43	1.1
	A2110-NA55-32R-076-P	NA55A	32	56	41.5	17.5	76	56	43	43	1.4
	A2110-NA65-32R-065-P	NA65A	32	55	48.5	13.5	65	56	43	43	1.2

Nakamura

The maximum recommended coolant pressure is 80 bar (1160 psi)

Rotating adaptors



Synchronous thread cutting adaptor



Walter Capto™ adaptor – vibration damped



Shell mill adaptor



Walter Capto™ hydraulic expansion chuck ISO 26623-1

Designation	AB035-C	AC001-C	AK155.8.C	AK182.C
Machine-side	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623
Tool-side	ER11 - ER40	16 - 40	1 - 1 1/4	12 - 20
Page in catalog	A 70	A 164	A 61	A 68
QR code				
www.walter-tools.com/woc/	AB035-C	AC001-C	AK155-8-C	AK182-C



HSK master



5K master



5K master



MAS-BT master

Designation	C.-390.410	C.-390B.140	C.-390B.540 + C.-390.540	C.-390B.55 + C.-390B.58
Machine-side	HSK DIN 69893-1 A	SK DIN 69871 AD/B	SK DIN 69871 AD/B	JIS B 6339 AD/B
Tool-side	C3 - C8	C3 - C8	C3 - C8	C3 - C8
Page in catalog	A 53	A 54	A 56	A 55
QR code				
www.walter-tools.com/woc/	C-390-410	C-390B-140	C-390B-540	C-390B-55

Rotating adaptors



MAS-BT master



Extension



Reduction adaptor



ER collet chucks

Designation	C.-390B.555 + C.-390B.558	C.-391.01	C.-391.02	C.-391.14
Machine-side	JIS B 6339 AD/B	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623
Tool-side	C3 - C8	C3 - C8	C3 - C6	ER20 - ER40
Page in catalog	A 57	A 58	A 60	A 66
QR code				
www.walter-tools.com/woc/	C-390B-555	C-391-01	C-391-02	C-391-14



Weldon shank adaptor



Adaptor for drilling and reaming tools



ASME CAT master

Designation	C.-391.20	C.-391.27	C.-A390B.45
Machine-side	Walter Capto™ in acc. with ISO 26623	Walter Capto™ in acc. with ISO 26623	ASME B 5.50
Tool-side	1 - 1 1/4	16 - 40	C3 - C8
Page in catalog	A 63	A 65	A 58
QR code			
www.walter-tools.com/woc/	C-391-20	C-391-27	C-A390B-45

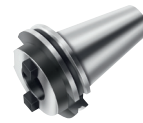
Rotating adaptors



HSK master



DIN 2080 master



SK master



ASME CAT master

Designation	A100M...HSK	A100M.1	A100M.2	A100M.3
Machine-side	HSK DIN 69893-1 A	SK DIN 2080 / ISO 2583	SK DIN 69871	ASME B 5.50
Tool-side	25 - 80	32 - 80	25 - 80	63 - 80
Page in catalog	A 72	A 74	A 75	A 76
QR code				
www.walter-tools.com/woc/	A100M-HSK	A100M-1	A100M-2	A100M-3



MAS-BT master



Walter Capto™ master



ASME CAT Master



Extension adaptor

Designation	A100M.4	A100M.8	A100M.U3	A101M
Machine-side	JIS B 6339 AD/B	Walter Capto™ in acc. with ISO 26623	ASME B 5.50	Modular NCT adaptor
Tool-side	25 - 80	25 - 80	25 - 80	25 - 80
Page in catalog	A 78	A 80	A 77	A 81
QR code				
www.walter-tools.com/woc/	A100M-4	A100M-8	A100M-U3	A101M

Rotating adaptors



Reduction adaptor



Combination adaptor



Shell mill adaptor



Weldon shank adaptor

Designation	A102M	A150M	A155M	A170M
Machine-side	Modular NCT adaptor	Modular NCT adaptor	Modular NCT adaptor	Modular NCT adaptor
Tool-side	25 - 63	16 - 60	22 - 60	10 - 40
Page in catalog	A 82	A 84	A 85	A 88
QR code				
www.walter-tools.com/woc/	A102M	A150M	A155M	A170M



Adaptor for eccentric sleeve



DIN 1835 B milling cutter extension



Small drill chuck



DIN 1835 B ER collet chuck

Designation	A170M...Ex	A175	A201M	A305
Machine-side	Modular NCT adaptor	DIN 1835 B	Modular NCT adaptor	DIN 1835 B
Tool-side	32 - 50	5 - 4 (5/32)	1 - 13	ER11 - ER16
Page in catalog	A 89	A 83	A 95	A 92
QR code				
www.walter-tools.com/woc/	A170M-EX	A175	A201M	A305

Rotating adaptors



Tap quick-change chuck



Synchronous thread cutting adaptor



Shell mill adaptor



Shell mill adaptor

Designation	A320M	AB035-N	AK155M	AK155M.U0
Machine-side	Modular NCT adaptor	Modular NCT adaptor	Modular NCT adaptor	Modular NCT adaptor
Tool-side	1 - 5	ER20 - ER25	16 - 40	1 - 11/4
Page in catalog	A 93	A 94	A 86	A 87
QR code				
www.walter-tools.com/woc/	A320M	AB035-N	AK155M	AK155M-U0



SK master



ER collet chucks

Designation	AK200M.2	AK300M
Machine-side	SK DIN 69871 AD/B	Modular NCT adaptor
Tool-side	40 - 80	ER16 - ER40
Page in catalog	A 79	A 90
QR code		
www.walter-tools.com/woc/	AK200M-2	AK300M

Rotating adaptors



DIN 1835 A adaptor


 Walter Capto™ adaptor –
vibration damped

 HSK adaptor – vibration-
damped

 MAS-BT adaptor – vibration-
damped

Designation	A510	AC060-C	AC060-H	AC060-J
Machine-side	Cylindrical shank	Walter Capto™ in acc. with ISO 26623	HSK DIN 69893-1 A	JIS B 6339 AD/B
Tool-side	T09 - T28	T18 - T28	T18 - T28	T18 - T28
Page in catalog	A 97	A 170	A 171	A 173
QR code				
www.walter-tools.com/woc/	A510	AC060-C	AC060-H	AC060-J


 SK adaptor – vibration-
damped


ER collet chucks



DIN 1835 A adaptor



DIN 1835 A adaptor

Designation	AC060-S	AK300.T	AK510	AK512
Machine-side	SK DIN 69871 AD/B	ScrewFit	Cylindrical shank	Cylindrical shank
Tool-side	T18 - T28	ER11 - ER25	T09 - T45	T14 - T28
Page in catalog	A 172	A 115	A 97	A 99
QR code				
www.walter-tools.com/woc/	AC060-S	AK300-T	AK510	AK512

Rotating adaptors



NCT adaptor



HSK adaptor



HSK adaptor



CAT adaptor

Designation	AK520	AK530	AK531	AK540
Machine-side	Modular NCT adaptor	HSK DIN 69893-1 A	HSK DIN 69893-1 A	ASME B 5.50
Tool-side	T18 - T45	T09 - T45	T18 - T45	T09 - T45
Page in catalog	A 101	A 103	A 104	A 111
QR code				
www.walter-tools.com/woc/	AK520	AK530	AK531	AK540



ASME CAT adaptor



Walter Capto™ adaptor

Designation	AK541	AK580.C
Machine-side	ASME B 5.50	Walter Capto™ in acc. with ISO 26623
Tool-side	T18 - T45	T14 - T45
Page in catalog	A 113	A 114
QR code		
www.walter-tools.com/woc/	AK541	AK580-C

Rotating adaptors






DIN 6535 HA adaptor



HSK adaptor



Walter Capto™ adaptor

Designation	AK610	AK631	AK681
Machine-side	Cylindrical shank	HSK DIN 69893-1 A	Walter Capto™ in acc. with ISO 26623
Tool-side	E10 - E25	E10 - E25	E10 - E25
Page in catalog	A 120	A 124	A 125
QR code			
www.walter-tools.com/woc/	AK610	AK631	AK681

Rotating adaptors



HSK shell mill arbor



MAS-BT shell mill arbor



SK shell mill arbor



HSK Weldon adaptor

Designation	A155...HSK	A155.BT	A155.S	A170...HSK
Machine-side	HSK DIN 69893-1 A	JIS B 6339	SK DIN 69871 AD/B	HSK DIN 69893-1 A
Tool-side	22 - 60	16 - 60	22 - 60	6 - 40
Page in catalog	A 126	A 140	A 138	A 128
QR code				
www.walter-tools.com/woc/	A155-HSK	A155-BT	A155-S	A170-HSK



HSK shrink-fit adaptor



ASME CAT shell end arbor



ASME CAT ER collet chuck



HSK slim hydraulic expansion chuck

Designation	A560.H	AB001.K	AB009.K	AB019-H
Machine-side	HSK DIN 69893-1 A	ASME B 5.50	ASME B 5.50	HSK DIN 69893-1 A
Tool-side	5 - 25	1 - 2 1/2	ER16 - ER40	6 - 20
Page in catalog	A 129	A 142	A 158	A 133
QR code				
www.walter-tools.com/woc/	A560-H	AB001-K	AB009-K	AB019-H

Rotating adaptors



Synchronous thread cutting adaptor



Synchronous thread cutting adaptor



Synchronous thread cutting adaptor



Synchronous thread cutting adaptor

Designation	AB035-H	AB035-J	AB035-S	AB035-W
Machine-side	HSK DIN 69893-1 A	JIS B 6339	SK DIN 69871	DIN 6535 HE, turned 180° DIN 6535 HB
Tool-side	ER20 - ER40	ER11 - ER40	ER20 - ER40	ER11 - ER25
Page in catalog	A 137	Online Only	Online Only	A 137
QR code				
www.walter-tools.com/woc/	AB035-H	AB035-J	AB035-S	AB035-W



ASME CAT Weldon shank adaptor



HSK adaptor – Vibration-damped



MAS-BT adaptor – Vibration-damped



SK adaptor – Vibration-damped

Designation	AB044-K	AC001-H	AC001-J	AC001-S
Machine-side	ASME B 5.50	HSK DIN 69893-1 A	JIS B 6339 AD/B	SK DIN 69871 AD/B
Tool-side	1 - 1 1/4	16 - 40	16 - 40	16 - 40
Page in catalog	A 145	A 165	A 167	A 166
QR code				
www.walter-tools.com/woc/	AB044-K	AC001-H	AC001-J	AC001-S

Rotating adaptors



CAT-V adaptor – Vibration-damped



HSK shell mill arbor



MAS-BT shell mill arbor



SK shell mill arbor

Designation	AC001.K	AK155...HSK	AK155.BT	AK155.S
Machine-side	ASME B 5.50	HSK DIN 69893-1 A	JIS B 6339	SK DIN 69871 AD/B
Tool-side	1 - 1 1/2	16 - 40	16 - 32	16 - 32
Page in catalog	A 168	A 127	A 141	A 139
QR code				
www.walter-tools.com/woc/	AC001-K	AK155-HSK	AK155-BT	AK155-S



MAS-BT Weldon adaptor



SK Weldon adaptor



MAS-BT hydraulic expansion chuck



ASME CAT hydraulic expansion chuck

Designation	AK170.BT	AK170.S	AK182.BT	AK182.CAT
Machine-side	JIS B 6339	SK DIN 69871 AD/B	JIS B 6339	ASME B 5.50
Tool-side	6 - 40	6 - 40	12 - 32	20 - 32
Page in catalog	A 144	A 143	A 149	A 152
QR code				
www.walter-tools.com/woc/	AK170-BT	AK170-S	AK182-BT	AK182-CAT

Rotating adaptors



HSK hydraulic expansion chuck







SK hydraulic expansion chuck



HSK ER collet chuck




MAS-BT ER collet chuck

Designation	AK182.H	AK182.S	AK300...HSK	AK300.BT
Machine-side	HSK DIN 69893-1 A	SK DIN 69871 AD/B	HSK DIN 69893-1 A	JIS B 6339
Tool-side	12 - 32	12 - 32	ER16 - ER40	ER16 - ER40
Page in catalog	A 130	A 146	A 134	A 156
QR code				
www.walter-tools.com/woc/	AK182-H	AK182-S	AK300-HSK	AK300-BT



SK ER collet chuck

Designation	AK300.S
Machine-side	SKG-10 _x_
Tool-side	ER16 - ER40
Page in catalog	A 154
QR code	
www.walter-tools.com/woc/	AK300-S

Rotating adaptors



Walter Capto™ adaptor – vibration damped



HSK adaptor – Vibration-damped



MAS-BT adaptor – Vibration-damped



SK adaptor – Vibration-damped

Designation	AC001-C	AC001-H	AC001-J	AC001-S
Machine-side	Walter Capto™ in acc. with ISO 26623	HSK DIN 69893-1 A	JIS B 6339 AD/B	SK DIN 69871 AD/B
Tool-side	16 - 40	16 - 40	16 - 40	16 - 40
Page in catalog	A 164	A 165	A 167	A 166
QR code				
www.walter-tools.com/woc/	AC001-C	AC001-H	AC001-J	AC001-S



CAT-V adaptor – Vibration-damped



Walter Capto™ adaptor – vibration damped



HSK adaptor – vibration-damped



MAS-BT adaptor – vibration-damped

Designation	AC001.K	AC060-C	AC060-H	AC060-J
Machine-side	ASME B 5.50	Walter Capto™ in acc. with ISO 26623	HSK DIN 69893-1 A	JIS B 6339 AD/B
Tool-side	1 - 1 1/2	T18 - T28	T18 - T28	T18 - T28
Page in catalog	A 168	A 170	A 171	A 173
QR code				
www.walter-tools.com/woc/	AC001-K	AC060-C	AC060-H	AC060-J

Rotating adaptors



SK adaptor – vibration-damped

Designation	AC060-S
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Machine-side SK DIN 69871 AD/B

Tool-side	T18 - T28
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Page in catalog A 172

QR code



www.walter-tools.com/woc/

AC060-S

HSK DIN 69893-1 A master

C.-390.410 mm



Tool	Designation	d_1	d_{11}	l_4 mm	l_{16} mm	kg
<p>HSK DIN 69893-1 A</p>	C4-390.410-100 090A	HSK-A100	C4	90	61	2.61
	C5-390.410-100 100A	HSK-A100	C5	100	71	3.04
	C6-390.410-100 110A	HSK-A100	C6	110	81	3.68
	C8-390.410-100 120A	HSK-A100	C8	120	91	4.89
	C3-390.410-63 075C	HSK-A63	C3	75	49	0.94
	C4-390.410-63 080C	HSK-A63	C4	80	54	1.11
	C5-390.410-63 090C	HSK-A63	C5	90	64	1.47

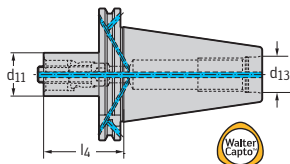
For Walter Capto™ tightening torques, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Accessories	d_1	HSK-A100	HSK-A63
	Coolant transfer	FS1065	FS1064
	Keys	FS953	FS952

DIN SK master

 C.-390B.140


– ISO 7388-1

Tool


SK DIN 69871 AD/B

Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-390B.140-40 030	SK40	C3	30	M16	0.88
C3-390B.140-40 060	SK40	C3	60	M16	1.03
C4-390B.140-40 030	SK40	C4	30	M16	0.87
C4-390B.140-40 060	SK40	C4	60	M16	1.13
C5-390B.140-40 040	SK40	C5	40	M16	0.95
C5-390B.140-40 080	SK40	C5	80	M16	1.52
C6-390B.140-40 085	SK40	C6	85	M16	1.84
C3-390B.140-50 030	SK50	C3	30	M24	2.69
C3-390B.140-50 060	SK50	C3	60	M24	2.82
C4-390B.140-50 030	SK50	C4	30	M24	2.7
C4-390B.140-50 060	SK50	C4	60	M24	2.92
C5-390B.140-50 030	SK50	C5	30	M24	2.66
C5-390B.140-50 070	SK50	C5	70	M24	3.17
C6-390B.140-50 030	SK50	C6	30	M24	2.57
C6-390B.140-50 080	SK50	C6	80	M24	3.66
C8-390B.140-50 070	SK50	C8	70	M24	3.79
C8-390B.140-50 120	SK50	C8	120	M24	5.7

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

MAS-BT JIS B 6339 AD/B master

C.-390B.55 + C.-390B.58



- ISO 7388-2

Tool		Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
<p>JIS B 6339 AD/B</p>		C3-390B.55-40 030	BT40	C3	30	M16	0.9
		C3-390B.55-40 060	BT40	C3	60	M16	1.13
		C4-390B.55-40 030	BT40	C4	30	M16	0.9
		C4-390B.55-40 060	BT40	C4	60	M16	1.2
		C5-390B.55-40 050	BT40	C5	50	M16	1.13
		C5-390B.55-40 090	BT40	C5	90	M16	1.73
		C6-390B.55-40 075	BT40	C6	75	M16	1.74
		C3-390B.58-50 040	BT50	C3	40	M24	3.65
		C3-390B.58-50 070	BT50	C3	70	M24	3.76
		C4-390B.58-50 040	BT50	C4	40	M24	3.61
		C4-390B.58-50 070	BT50	C4	70	M24	3.83
		C5-390B.58-50 040	BT50	C5	40	M24	3.52
		C5-390B.58-50 080	BT50	C5	80	M24	4.04
		C6-390B.58-50 050	BT50	C6	50	M24	3.57
		C6-390B.58-50 100	BT50	C6	100	M24	4.73
		C8-390B.58-50 070	BT50	C8	70	M24	4.08
		C8-390B.58-50 120	BT50	C8	120	M24	5.98

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

DIN 69871 AD/B master

 C.-390B.540 + C.-390.540 mm

 – BIG-PLUS SYSTEM – BIG DAISHOWA licence
 – ISO 7388-1

Tool	Designation	d_1	d_{11}	l_4 mm	d_{13}	kg
 SK DIN 69871 AD/B	C3-390.540-50 030A	SK50	C3	30	M24	2.75
	C4-390.540-50 030A	SK50	C4	30	M24	2.74
	C5-390.540-50 030A	SK50	C5	30	M24	2.7
	C6-390.540-50 050A	SK50	C6	50	M24	3.06
	C8-390.540-50 070A	SK50	C8	70	M24	3.85
 SK DIN 69871 AD/B	C4-390B.540-40 040	SK40	C4	40	M16	0.93
	C5-390B.540-40 050	SK40	C5	50	M16	1.1
	C6-390B.540-40 085	SK40	C6	85	M16	1.82

 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

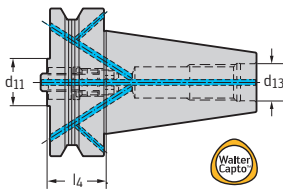
MAS-BT JIS B 6339 AD/B master

C.-390B.555 + C.-390B.558



– BIG-PLUS SYSTEM – BIG DAISHOWA licence
– ISO 7388-2

Tool

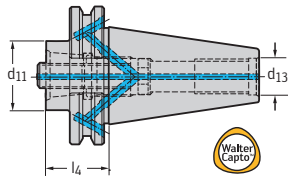


Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-390B.555-40 030	BT40	C3	30	M16	3
C4-390B.555-40 040	BT40	C4	40	M16	1.39
C5-390B.555-40 050	BT40	C5	50	M16	1.12
C6-390B.555-40 075	BT40	C6	75	M16	1.72
C3-390B.558-50 040	BT50	C3	40	M24	3.6
C4-390B.558-50 040	BT50	C4	40	M24	3.6
C5-390B.558-50 040	BT50	C5	40	M24	3.6
C6-390B.558-50 050	BT50	C6	50	M24	3.6
C8-390B.558-50 070	BT50	C8	70	M24	4.12

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
For Walter Capto™ tightening torques, see „Assembly parts and accessories“

ASME CAT master

 C.-A390B.45 mm

Tool


ASME B 5.50

Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	kg
C3-A390B.45-40 030	CAT40	C3	30	5/8"-11	0.83
C3-A390B.45-40 060	CAT40	C3	60	5/8"-11	1
C4-A390B.45-40 030	CAT40	C4	30	5/8"-11	0.83
C4-A390B.45-40 060	CAT40	C4	60	5/8"-11	1.1
C5-A390B.45-40 040	CAT40	C5	40	5/8"-11	0.93
C5-A390B.45-40 080	CAT40	C5	80	5/8"-11	1.5
C6-A390B.45-40 085	CAT40	C6	85	5/8"-11	1.97
C3-A390B.45-50 030	CAT50	C3	30	1"-8	2.68
C3-A390B.45-50 060	CAT50	C3	60	1"-8	2.86
C4-A390B.45-50 030	CAT50	C4	30	1"-8	2.62
C4-A390B.45-50 060	CAT50	C4	60	1"-8	2.9
C5-A390B.45-50 030	CAT50	C5	30	1"-8	2.68
C5-A390B.45-50 070	CAT50	C5	70	1"-8	3.38
C6-A390B.45-50 030	CAT50	C6	30	1"-8	2.56
C6-A390B.45-50 080	CAT50	C6	80	1"-8	3.68
C8-A390B.45-50 070	CAT50	C8	70	1"-8	3.81
C8-A390B.45-50 120	CAT50	C8	120	1"-8	5.68

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Extension

C.-391.01



- ISO 26623

Tool		Designation	d ₁	d ₁₁	l ₄ mm	kg
		C3-391.01-32 060A	C3	C3	60	0.36
		C3-391.01-32 080A	C3	C3	80	0.47
		C4-391.01-40 060A	C4	C4	60	0.56
		C4-391.01-40 080A	C4	C4	80	0.74
		C5-391.01-50 080A	C5	C5	80	1.15
		C5-391.01-50 100A	C5	C5	100	1.45
	Walter Capto™ nach ISO 26623	C6-391.01-63 100A	C6	C6	100	2.26
		C6-391.01-63 140A	C6	C6	140	3.16
		C8-391.01-80 100A	C8	C8	100	3.71
		C8-391.01-80 125A	C8	C8	125	4.64
		C3-391.01-32 035	C3	C3	35	0.22
		C4-391.01-40 040	C4	C4	40	0.39
		C5-391.01-50 050	C5	C5	50	0.73
		C6-391.01-63 060	C6	C6	60	1.37
		C8-391.01-80 065	C8	C8	65	2.4
	Walter Capto™ nach ISO 26623					

*Short version only for bushing clamp
For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Reduction adaptor

C.-391.02



- ISO 26623

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	kg
<p>Walter Capto™ in acc. with ISO 26623</p>	C4-391.02-32 070A	C4	C3	70	12	0.6
	C5-391.02-40 085A	C5	C4	85	12	1.13
	C6-391.02-50 110A	C6	C5	110	12	2.21
	C8-391.02-63 120A	C8	C6	120	12	4.08
<p>Walter Capto™ in acc. with ISO 26623</p>	C5-391.02-32 033A	C5	C3	33	5	0.5
	C5-391.02-40 040A	C5	C4	40	15	0.5
	C6-391.02-32 032	C6	C3	32	6	0.91
	C6-391.02-40 040	C6	C4	40	11.3	0.99
	C6-391.02-50 050A	C6	C5	50	20	1.1
	C8-391.02-50 045A	C8	C5	45	5	1.8
	C8-391.02-63 055A	C8	C6	55	15	2.13
<p>Walter Capto™ in acc. with ISO 26623</p>	C4-391.02-32 055A	C4	C3	55	31	0.47
	C5-391.02-32 060A	C5	C3	60	34.8	0.69
	C5-391.02-40 065A	C5	C4	65	40	0.8
	C6-391.02-32 070A	C6	C3	70	39	1.13
	C6-391.02-40 080A	C6	C4	80	51.3	1.29
	C6-391.02-50 080A	C6	C5	80	51.5	1.51
	C8-391.02-32 060B	C8	C3	60	20.7	1.9
	C8-391.02-40 070B	C8	C4	70	31.4	2.2
	C8-391.02-50 080B	C8	C5	80	42.8	2.42
	C8-391.02-63 080B	C8	C6	80	44.5	2.65

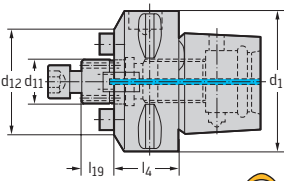
*Short version only for bushing clamp
For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Shell mill adaptor

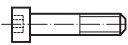

AK155.8.C mm



- For milling tools with parallel bore according to DIN 138
- ISO 26623

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	kg	
		AK155.8.C4.020.16	C4	16	38	37	17	0.3	
		AK155.8.C5.025.16	C5	16	38	42	17	0.55	
		AK155.8.C5.025.22	C5	22	48	42	19	0.61	
		AK155.8.C5.030.27	C5	27	60	51	21	0.8	
		AK155.8.C6.030.16	C6	16	38	47	17	0.95	
		AK155.8.C6.025.22	C6	22	48	44	19	0.91	
		AK155.8.C6.025.27	C6	27	60	46	21	0.98	
		AK155.8.C6.035.32	C6	32	78	59	24	1.46	
	Walter Capto™ in acc. with ISO 26623								

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_1	C4–C5	C6
	ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)
Accessories		d_1	C4–C5	C6
	ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)

Strength class with tightening screw 12.9

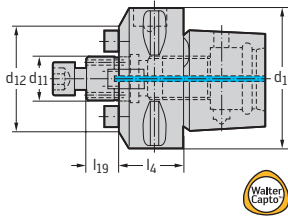
Shell mill adaptor

AK155.8.C inch



- For milling tools with parallel bore according to DIN 138
- ISO 26623

Tool



Walter Capto™ in acc. with ISO 26623

Designation	d_1	d_{11}	l_4 inch	l_{19} inch
C4-A391.05C-19 025M	C4	0.750	0.984	0.709
C4-A391.05C-25 035	C4	1.000	1.378	0.709
C5-A391.05C-19 025M	C5	0.750	0.984	0.709
C5-A391.05C-25 025M	C5	1.000	0.984	0.709
C6-A391.05C-19 030M	C6	0.750	1.181	0.709
C6-A391.05C-25 030M	C6	1.000	1.181	0.709
C6-A391.05-31 030	C6	1.250	1.181	0.709

Weldon shank adaptor

C.-391.20 mm



- For shanks in accordance with DIN 6535 HB
- ISO 26623

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₆ mm	kg
<p>d₁₁ ≤ 20 mm</p>	C3-391.20-06 045A	C3	6	25	45	26.5	0.24
	C3-391.20-08 045A	C3	8	28	45	28	0.27
	C3-391.20-10 050	C3	10	35	50	35	0.37
	C3-391.20-12 055	C3	12	42	55	40	0.5
<p>d₁₁ > 20 mm</p>	C4-391.20-06 050	C4	6	25	50	26.5	0.38
	C4-391.20-08 050	C4	8	28	50	26.5	0.42
	C4-391.20-10 050A	C4	10	35	50	28.6	0.48
	C4-391.20-12 055A	C4	12	42	55	35	0.63
<p>Walter Capto™ in acc. with ISO 26623</p>	C4-391.20-14 055	C4	14	44	55	35	0.62
	C4-391.20-16 055	C4	16	48	55	35	0.7
	C5-391.20-06 050	C5	6	25	50	26.5	0.58
	C5-391.20-08 050	C5	8	28	50	26	0.61
	C5-391.20-10 055	C5	10	35	55	27.5	0.71
	C5-391.20-12 060	C5	12	42	60	36	0.86
	C5-391.20-14 060	C5	14	44	60	37	0.89
	C5-391.20-16 060	C5	16	48	60	39	0.94
	C5-391.20-18 060	C5	18	50	60	60	0.97
	C5-391.20-20 060	C5	20	52	60	40	0.99
	C5-391.20-25 080	C5	25	65	80	60	1.7
	C6-391.20-06 055	C6	6	25	55	25	0.98
	C6-391.20-08 055	C6	8	28	55	26	1
	C6-391.20-10 060	C6	10	35	60	30	1.11
	C6-391.20-12 060	C6	12	42	60	33	1.2
	C6-391.20-14 060	C6	14	44	60	33.5	1.23
	C6-391.20-16 065	C6	16	48	65	35.5	1.36
	C6-391.20-18 065	C6	18	50	65	39	1.37
	C6-391.20-20 065	C6	20	52	65	37.5	1.41
	C6-391.20-25 080	C6	25	65	80	58	2.02
	C6-391.20-32 090	C6	32	72	90	68	2.5
	C6-391.20-40 100	C6	40	90	100	77	3.9
	C8-391.20-16 070	C8	16	48	70	32.5	2.36
	C8-391.20-20 070	C8	20	52	70	35	2.38
	C8-391.20-25 080	C8	25	65	80	53.7	2.72
	C8-391.20-32 080	C8	32	72	80	55.7	2.88
	C8-391.20-40 110	C8	40	90	110	79	4.98

Bodies and assembly parts are included in the scope of delivery

Assembly parts		
d ₁	C3-C6	C8
<p>Screw</p>	3214 050-357	3214 050-539
Accessories		
d ₁	C3-C6	C8
<p>ISO 2936 key</p>	ISO2936-3 (SW 3,5)	ISO2936-6 (SW 6)

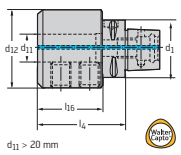
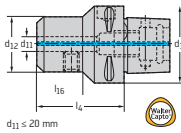
Weldon shank adaptor

C.-391.20 inch



- For shanks in accordance with DIN 6535 HB
- ISO 26623

Tool



Walter Capto™ in acc. with ISO 26623

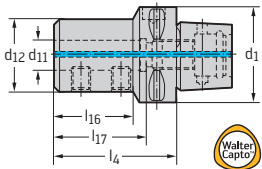
Designation	d ₁	d ₁₁	d ₁₂ inch	l ₄ inch	l ₁₆ inch
C3-A391.20-09050	C3	0.375	0.984	1.969	1.248
C3-A391.20-12055	C3	0.500	1.260	2.165	1.563
C4-A391.20-15 055	C4	0.625	1.625	2.165	1.378
C4-A391.20-16 060	C4	0.625	1.625	2.362	1.575
C4-A391.20-19 060	C4	0.750	1.752	2.362	1.575
C4-A391.20-12 055A	C5		1.250	2.165	1.213
C5-A391.20-09 055	C5	0.375	1.000	2.165	1.102
C5-A391.20-12 060	C5	0.500	1.250	2.362	1.406
C5-A391.20-15 060A	C5		1.625	2.362	1.472
C5-A391.20-19 060	C5	0.750	1.750	2.362	1.512
C5-A391.20-25 085	C5	1.000	2.248	3.346	2.559
C5-A391.20-31 085	C5	1.250	2.48	3.346	2.559
C6-A391.20-09 060	C6	0.375	1.000	2.362	1.142
C6-A391.20-12 060	C6	0.500	1.250	2.362	1.260
C6-A391.20-15 065	C6	0.625	1.625	2.559	1.441
C6-A391.20-19 065A	C6	0.750	1.772	2.598	1.524
C6-A391.20-22 080	C6	0.875	1.969	3.150	2.205
C6-A391.20-25 085	C6	1.000	2.248	3.346	2.402
C6-A391.20-31 085	C6	1.250	2.48	3.346	3.346
C6-A391.20-38 090	C6	1.500	2.765	3.543	2.677

Adaptor for drilling and reaming tools



C.-391.27



- For drilling and reaming tools with shank design
- ISO 26623

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₆ mm	l ₁₇ mm	kg
 Walter Capto™ in acc. with ISO 26623	C3-391.27-16 056	C3	16	36	56	41	49.5	0.39
	C3-391.27-20 060	C3	20	40	60	45	51.5	0.47
	C4-391.27-16 056	C4	16	36	56	32.5	49.5	0.5
	C4-391.27-20 060	C4	20	40	60	60	51.5	0.55
	C4-391.27-25 077	C4	25	45	77	57	57.5	0.75
	C5-391.27-16 065	C5	16	36	65	41.7	49.5	0.75
	C5-391.27-20 060	C5	20	40	60	37.7	51.5	0.75
	C5-391.27-25 071	C5	25	45	71	46.7	57.5	0.89
	C5-391.27-32 075	C5	32	52	75	55	61.5	0.97
	C6-391.27-16 070	C6	16	36	70	43	49.5	1.14
	C6-391.27-20 070	C6	20	40	70	43.8	51.5	1.17
	C6-391.27-25 070A	C6	25	45	70	43.8	57.5	1.22
	C6-391.27-32 075	C6	32	52	75	49.8	61.5	1.3
	C6-391.27-40 085	C6	40	65	85	63	71.5	1.72

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁₁	16-20	25-32	40
	Screw		5514 042-04	416.1-838	5514 042-06
Accessories		d ₁₁	16-20	25-32	40
	ISO 2936 key		ISO2936-4 (SW 4)	ISO2936-6 (SW 6)	ISO2936-8 (SW 8)

ER collet chucks

C.-391.14 mm



– For ER collets in accordance with DIN 6499/ISO15488
 – ISO 26623

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
<p>Walter Capto™ in acc. with ISO 26623</p>	C3-391.14-20 045	C3	1-13	35	45	ER20	0.22
	C4-391.14-20 052	C4	1-13	35	52	ER20	0.37
	C4-391.14-25 052	C4	1-16	42	52	ER25	0.41
	C4-391.14-32 054	C4	1-20	50	54	ER32	0.48
	C5-391.14-20 055	C5	1-13	35	55	ER20	0.6
	C5-391.14-25 055	C5	1-16	42	55	ER25	0.64
	C5-391.14-32 057	C5	1-20	50	57	ER32	0.69
	C6-391.14-20 060	C6	1-13	35	60	ER20	1
	C6-391.14-25 060	C6	1-16	42	60	ER25	1.03
	C6-391.14-25 100	C6	1-16	42	100	ER25	1.43
	C6-391.14-32 060	C6	1-20	50	60	ER32	1.06
	C6-391.14-32 100	C6	1-20	50	100	ER32	1.63
	C6-391.14-40 065	C6	2-26	63	65	ER40	1.22
	C8-391.14-25 070	C8	1-16	42	70	ER25	2.12
	C8-391.14-32 070	C8	1-20	50	70	ER32	2.12
	C8-391.14-32 160	C8	1-20	50	160	ER32	4.1
	C8-391.14-40 070	C8	2-26	63	70	ER40	2.19

For collets, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

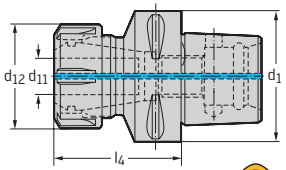

Assembly parts		ER20	ER25	ER32	ER40
	Collets Clamping nut	FS1451	FS1540	FS1541	FS1542

Accessories		ER20	ER25	ER32	ER40
	Collets Tensioning key	FS2553	FS1544	FS1545	FS1546



ER collet chucks for internal cooling

C.-391.14 

- For ER collets in accordance with DIN 6499/ISO15488
- For use with sealing disc

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
  Walter Capto™ in acc. with ISO 26623		C3-391.14-20 050	C3	1-13	35	50	ER20	0.24
		C4-391.14-20 057	C4	1-13	35	57	ER20	0.4
		C4-391.14-25 057	C4	1-16	42	57	ER25	0.45
		C4-391.14-32 059	C4	1-20	50	59	ER32	0.49
		C5-391.14-20 060	C5	1-13	35	60	ER20	0.62
		C5-391.14-25 060	C5	1-16	42	60	ER25	0.67
		C5-391.14-32 062	C5	1-20	50	62	ER32	0.72
		C6-391.14-20 065	C6	1-13	35	65	ER20	1
		C6-391.14-25 065	C6	1-16	42	65	ER25	1.06
		C6-391.14-25 105	C6	1-16	42	105	ER25	1.47
		C6-391.14-32 065	C6	1-20	50	65	ER32	1.09
		C6-391.14-32 105	C6	1-20	50	105	ER32	1.67
		C6-391.14-40 070	C6	2-26	63	70	ER40	1.28
		C8-391.14-25 075	C8	1-16	42	75	ER25	2.18
		C8-391.14-32 075	C8	1-20	50	75	ER32	2.15
		C8-391.14-32 165	C8	1-20	50	165	ER32	4.13
		C8-391.14-40 075	C8	2-26	63	75	ER40	2.25

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER20	ER25	ER32	ER40
	Clamping nut for internal coolant supply		FS1359	FS1449	FS1360	FS1450
Accessories		Collets	ER20	ER25	ER32	ER40
	Tensioning key		FS2553	FS1544	FS1545	FS1546

Walter Capto™ hydraulic expansion chuck ISO

26623-1

AK182.C mm



– For tools with shank in accordance with DIN 1835 Form A
– ISO 26623

Tool	Designation	d_1	d_{11}	d_{12} mm	d_{14} mm	l_4 mm	l_{16} mm	l_{17} mm	l_{17min} mm	kg
	AK182.C5.070.12	C5	12	42	32	70	10.3	46	36	1.01
	AK182.C5.075.20	C5	20	49.5	38	75	12	51	41	1.12
	AK182.C6.075.12	C6	12	42	32	75	10.3	46	36	1.51
	AK182.C6.080.20	C6	20	52.5	38	80	15	51	41	1.68

Walter Capto™ in acc. with ISO 26623

Accessories	d_{11}	12	20
	Sealed reducing sleeve for IK d = 3 mm	FS2189	FS2199
	Sealed reducing sleeve for IK d = 4 mm	FS2190	FS2200
	Sealed reducing sleeve for IK d = 5 mm	FS2191	FS2201
	Sealed reducing sleeve for IK d = 6 mm	FS2192	FS2202
	Sealed reducing sleeve for IK d = 7 mm	FS2193	FS2203
	Sealed reducing sleeve for IK d = 8 mm		FS2204
	Reducing sleeve for PK d = 3 mm	FS2194	
	Sealed reducing sleeve for IK d = 9 mm		FS2205
	Reducing sleeve for PK d = 4 mm	FS2195	
	Sealed reducing sleeve for IK d = 10 mm		FS2206
	Reducing sleeve for PK d = 5 mm	FS2196	
	Sealed reducing sleeve for IK d = 11 mm		FS2207

Accessories		d_{11}	12	20
	Reducing sleeve for PK d = 6 mm		FS2197	
	Sealed reducing sleeve for IK d = 12 mm			FS2208
	Reducing sleeve for PK d = 8 mm		FS2198	
	Sealed reducing sleeve for IK d = 13 mm			FS2209
	Sealed reducing sleeve for IK d = 14 mm			FS2210
	Sealed reducing sleeve for IK d = 15 mm			FS2211
	Sealed reducing sleeve for IK d = 16 mm			FS2212
	Reducing sleeve for PK d = 3 mm			FS2213
	Reducing sleeve for PK d = 4 mm			FS2214
	Reducing sleeve for PK d = 5 mm			FS2215
	Reducing sleeve for PK d = 6 mm			FS2216
	Reducing sleeve for PK d = 8 mm			FS2217
	Reducing sleeve for PK d = 10 mm			FS2218
	Reducing sleeve for PK d = 12 mm			FS2219
	Reducing sleeve for PK d = 14 mm			FS2220
	Reducing sleeve for PK d = 16 mm			FS2221

Synchronous thread cutting adaptor

AB035-C



- Integrated minimum compensation in axial and radial directions
- ISO 26623

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
<p>Walter Capto™ in acc. with ISO 26623</p>		AB035-C4-ER11-080	C4	M4-M5	19	80	ER11	0.39
		AB035-C4-ER20-102	C4	M4-M12	34	102	ER20	0.68
		AB035-C4-ER25-122	C4	M8-M20	42	122	ER25	1.05
		AB035-C5-ER20-103	C5	M4-M12	34	103	ER20	0.85
		AB035-C5-ER25-122	C5	M8-M20	42	122	ER25	1.24
		AB035-C6-ER20-105	C6	M4-M12	34	105	ER20	1.18
		AB035-C6-ER25-124	C6	M8-M20	42	124	ER25	1.57
		AB035-C6-ER40-154	C6	M16-M30	63	154	ER40	2.85

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER11	ER20	ER25	ER40
	Clamping nut for internal coolant supply		FS2556	FS1359	FS1449	FS1450
	Clamping nut for internal coolant supply		FS2557			
	Tensioning key		FS2554	FS2553	FS1544	FS1546

FS2556 corresponds to ER11-4.5

FS2557 corresponds to ER11-6

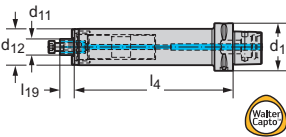
Walter Capto™ adaptor – vibration damped

AC001-C

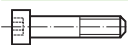
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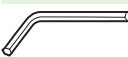


- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	kg
	AC001-C6-B16-160	C6	16	38	160	17	2.12
	AC001-C6-B22-210	C6	22	48	210	19	3.64
	AC001-C6-B27-260	C6	27	60	260	21	6.78
	AC001-C8-B22-210	C8	22	48	210	19	4.54
	AC001-C8-B27-260	C8	27	60	260	21	7.62
	AC001-C8-B32-330	C8	32	78	330	24	14.4
	AC001-C8-B40-350	C8	40	89	350	27	18.99

Bodies and assembly parts are included in the scope of delivery

Assembly parts	d_{11}	16	22	27	32	40
	ISO 4762 tightening screw	FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories	d_{11}	16	22	27	32	40
	ISO 2936 key	ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9

DIN 69893-1 A master

A100M...HSK

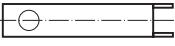
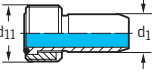
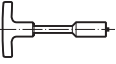


– Modular NCT adaptor

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	Version	kg
<p>HSK DIN 69893-1 A</p>	A100M.7.100.060.25.HSK	HSK-A100	NCT 25	60	23	C	2.21
	A100M.7.100.080.25.HSK	HSK-A100	NCT 25	80	41	C	2.27
	A100M.7.100.060.32.HSK	HSK-A100	NCT 32	60	31	C	2.26
	A100M.7.100.080.32.HSK	HSK-A100	NCT 32	80	51	C	2.36
	A100M.7.100.080.40.HSK	HSK-A100	NCT 40	80	51	C	2.51
	A100M.7.100.080.50.HSK	HSK-A100	NCT 50	80	51	A	2.8
	A100M.7.100.080.63.HSK	HSK-A100	NCT 63	80	51	B	3.24
	A100M.7.100.100.63.HSK	HSK-A100	NCT 63	100	71	B	3.66
	A100M.7.100.100.80.HSK	HSK-A100	NCT 80	100	71	B	4.58
	A100M.7.063.055.25.HSK	HSK-A63	NCT 25	55	29	C	0.77
	A100M.7.063.080.25.HSK	HSK-A63	NCT 25	80	54	C	0.85
	A100M.7.063.055.32.HSK	HSK-A63	NCT 32	55	29	C	0.84
	A100M.7.063.080.32.HSK	HSK-A63	NCT 32	80	54	C	0.99
	A100M.7.063.065.40.HSK	HSK-A63	NCT 40	65	39	C	1
	A100M.7.063.080.40.HSK	HSK-A63	NCT 40	80	54	C	1.12
	A100M.7.063.065.50.HSK	HSK-A63	NCT 50	65	39	A	1.27
	A100M.7.063.080.50.HSK	HSK-A63	NCT 50	80	54	A	1.43
	A100M.7.063.075.63.HSK	HSK-A63	NCT 63	75	49	B	1.66
	A100M.7.063.100.63.HSK	HSK-A63	NCT 63	100	74	B	2.18
	A100M.7.063.080.80.HSK	HSK-A63	NCT 80	80	54	B	2.24

Only use FS1064 (HSK 63) and FS1065 (HSK 100) transfer units
 For accessories for HSK, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁₁	NCT 25	NCT 32	NCT 40	NCT 50	NCT 63	NCT 80
	Drive pin 1						FS555	FS556
	Drive pin 2						FS557	FS558
	Drive pin 1					FS554		
	Cap screw		FS414 (SW 5)	FS414 (SW 5)	FS415 (SW 8)	FS415 (SW 8)		
	Threaded ring		FS410	FS410	FS411	FS411		
	ISO 4027 threaded plug		M04X006 ISO4027 (SW 2)	M04X008 ISO4027				
	Cap screw						FS416 (SW 12)	FS417 (SW 14)
	Threaded ring						FS412	FS413
	ISO 4027 threaded plug							M06X016 ISO4027 (SW 3)

Accessories			
	d_1	HSK-A100	HSK-A63
	Pipe wrench for threaded ring	FS738	FS738
	Coolant delivery	FS1065	FS1064
	Key	FS953	FS952

DIN 2080 master

 A100M.1

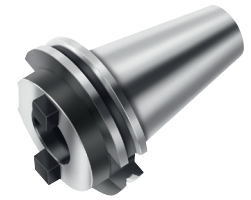

- Modular NCT adaptor
- ISO 297

Tool		Designation	d_1	d_{11}	l_4 mm	d_{13}	Version	kg
		A100M.1.50.020.32	SK50	NCT 32	20	M24	C	2.78
		A100M.1.50.020.40	SK50	NCT 40	20	M24	C	2.82
		A100M.1.50.020.50	SK50	NCT 50	20	M24	A	2.75
		A100M.1.50.020.63	SK50	NCT 63	20	M24	B	2.74
		A100M.1.50.025.80	SK50	NCT 80	25	M24	B	2.82


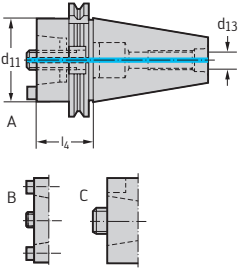
SK40 with ring groove designed for OTT clamp
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

DIN SK master

A100M.2 mm



- Modular NCT adaptor
- ISO 7388-1

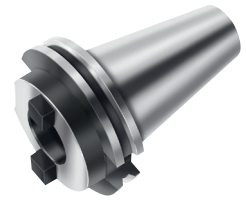
Tool		Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	Version	
		A100M.2.40.020.25	SK40	NCT 25	20	M16	C	0.84
		A100M.2.40.020.32	SK40	NCT 32	20	M16	C	0.85
		A100M.2.40.030.40	SK40	NCT 40	30	M16	C	0.94
		A100M.2.40.030.50	SK40	NCT 50	30	M16	A	0.95
		A100M.2.40.050.63	SK40	NCT 63	50	M16	B	1.3
		A100M.2.40.090.80	SK40	NCT 80	90	M16	B	2.4
		A100M.2.50.020.25	SK50	NCT 25	20	M24	C	2.75
		A100M.2.50.020.32	SK50	NCT 32	20	M24	C	2.76
		A100M.2.50.020.40	SK50	NCT 40	20	M24	C	2.71
		A100M.2.50.020.50	SK50	NCT 50	20	M24	A	2.73
		A100M.2.50.020.63	SK50	NCT 63	20	M24	B	2.68
		A100M.2.50.025.80	SK50	NCT 80	25	M24	B	2.69

SK DIN 69871

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

ASME CAT master

A100M.3



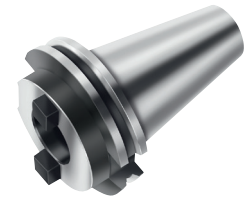
– Modular NCT adaptor

Tool		Designation	d_1	d_{11}	l_4 mm	d_{13}	Version	kg
		A100M.3.50.035.63	CAT50	NCT 63	35	M24	B	3.09
		A100M.3.50.050.80	CAT50	NCT 80	50	M24	B	3.48

ASME B 5.50

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

ASME CAT Master A100M.U3 inch



– Modular NCT adaptor

Tool	Designation	d_1	d_{11}	l_4 inch	d_{13}	Version	lbs
<p>ASME B 5.50</p>	A100M.U3.40.035.25	CAT40	NCT 25	1.378	5/8"-11	C	0.04
	A100M.U3.40.035.32	CAT40	NCT 32	1.378	5/8"-11	C	0.030
	A100M.U3.40.040.40	CAT40	NCT 40	1.575	5/8"-11	C	0.028
	A100M.U3.40.050.50	CAT40	NCT 50	1.969	5/8"-11	A	0.048
	A100M.U3.40.050.63	CAT40	NCT 63	1.969	5/8"-11	B	0.049
	A100M.U3.40.090.80	CAT40	NCT 80	3.543	5/8"-11	B	0.093
	A100M.U3.50.035.25	CAT50	NCT 25	1.378	1"-8	C	0.115
	A100M.U3.50.035.32	CAT50	NCT 32	1.378	1"-8	C	0.123
	A100M.U3.50.035.40	CAT50	NCT 40	1.378	1"-8	C	0.122
	A100M.U3.50.035.50	CAT50	NCT 50	1.378	1"-8	A	0.124
	A100M.U3.50.035.63	CAT50	NCT 63	1.378	1"-8	B	0.121
	A100M.U3.50.050.80	CAT50	NCT 80	1.969	1"-8	B	0.135

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

MAS-BT JIS B 6339 master

A100M.4



- Modular NCT adaptor
- ISO 7388-2

Tool		Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	Version	kg
		A100M.4.40.030.25	BT40	NCT 25	30	M16	C	1.05
		A100M.4.40.030.32	BT40	NCT 32	30	M16	C	1.06
		A100M.4.40.030.40	BT40	NCT 40	30	M16	C	1.01
		A100M.4.40.030.50	BT40	NCT 50	30	M16	A	1
		A100M.4.40.040.63	BT40	NCT 63	40	M16	B	1.19
		A100M.4.40.090.80	BT40	NCT 80	90	M16	B	2.68
		A100M.4.50.040.25	BT50	NCT 25	40	M24	C	3.76
		A100M.4.50.040.32	BT50	NCT 32	40	M24	C	3.78
		A100M.4.50.040.40	BT50	NCT 40	40	M24	C	3.75
		A100M.4.50.040.50	BT50	NCT 50	40	M24	A	3.73
		A100M.4.50.040.63	BT50	NCT 63	40	M24	B	3.66
		A100M.4.50.040.80	BT50	NCT 80	40	M24	B	3.51

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

DIN SK master

AK200M.2 mm



- Modular NCT adaptor
- ISO 7388-1

Tool	Designation	d_1	d_{11}	l_4 mm	d_{13}	Version	kg
	AK200M.2.40.060.63	SK40	NCT 63	60	M16	B	1.49
	AK200M.2.50.030.40	SK50	NCT 40	30	M24	C	2.96
	AK200M.2.50.030.50	SK50	NCT 50	30	M24	A	2.99
	AK200M.2.50.030.63	SK50	NCT 63	30	M24	B	2.93
	AK200M.2.50.030.80	SK50	NCT 80	30	M24	B	2.81

SK DIN 69871 AD/B

Please note: Form AD is delivered
 Form AD is delivered. To convert to Form B, remove both threaded plugs which are screwed into the sides.
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery
 Bodies and assembly parts are included in the scope of delivery

Assembly parts	d_{11}	NCT 40–NCT 80	NCT 63
	Threaded plug	M05X006 ISO 4026 (SW 2,5)	M04X004 ISO 4026 (SW 2)

Walter Capto™ master

A100M.8 mm



- Modular NCT adaptor
- ISO 26623

Tool	Designation	d_1	d_{11}	l_4 mm	l_{16} mm	kg
	A100M.8.63.045.25.C6	C6	NCT 25	45	20	0.93
	A100M.8.63.045.32.C6	C6	NCT 32	45	20	0.96
	A100M.8.63.060.40.C6	C6	NCT 40	60	30	1.24
	A100M.8.63.070.63.C6	C6	NCT 63	70	70	1.85
	A100M.8.63.070.80.C6	C6	NCT 80	70	70	2.35
	A100M.8.80.065.63.C8	C8	NCT 63	65	35	2.48
	A100M.8.80.070.80.C8	C8	NCT 80	70	70	3.1
	Walter Capto™ nach ISO 26623					

For Walter Capto™ tightening torques, see „Assembly parts and accessories“

Extension adaptor

A101M



– Modular NCT adaptor

Tool		Designation	d ₁	d ₁₁	l ₄ mm	Version	kg
<p>NCT adaptor</p>	A101M.0.25.050.25	NCT 25	NCT 25	50	C	0.17	
	A101M.0.25.060.25	NCT 25	NCT 25	60	C	0.21	
	A101M.0.32.050.32	NCT 32	NCT 32	50	C	0.28	
	A101M.0.32.060.32	NCT 32	NCT 32	60	C	0.34	
	A101M.0.32.075.32	NCT 32	NCT 32	75	C	0.44	
	A101M.0.40.070.40	NCT 40	NCT 40	70	C	0.61	
	A101M.0.40.080.40	NCT 40	NCT 40	80	C	0.7	
	A101M.0.50.070.50	NCT 50	NCT 50	70	A	0.98	
	A101M.0.50.080.50	NCT 50	NCT 50	80	A	1.11	
	A101M.0.50.100.50	NCT 50	NCT 50	100	A	1.42	
	A101M.0.63.080.63	NCT 63	NCT 63	80	B	1.8	
	A101M.0.63.100.63	NCT 63	NCT 63	100	B	2.27	
	A101M.0.63.120.63	NCT 63	NCT 63	120	B	2.73	
	A101M.0.63.140.63	NCT 63	NCT 63	140	B	3.2	
	A101M.0.63.160.63	NCT 63	NCT 63	160	B	3.64	
	A101M.0.80.100.80	NCT 80	NCT 80	100	B	3.6	
	A101M.0.80.120.80	NCT 80	NCT 80	120	B	4.38	
	A101M.0.80.140.80	NCT 80	NCT 80	140	B	5.12	
	A101M.0.80.160.80	NCT 80	NCT 80	160	B	5.86	

Reduction adaptor

A102M



– Modular NCT adaptor

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	Version	kg
<p>Modular NCT adaptor</p>	A102M.0.32.050.25	NCT 32	NCT 25	50	32	C	0.22
	A102M.0.40.050.25	NCT 40	NCT 25	50	30	C	0.31
	A102M.0.40.050.32	NCT 40	NCT 32	50	28	C	0.39
	A102M.0.50.050.25	NCT 50	NCT 25	50	25	C	0.42
	A102M.0.50.050.32	NCT 50	NCT 32	50	25	C	0.5
	A102M.0.50.070.40	NCT 50	NCT 40	70	50	C	0.7
	A102M.0.63.050.25	NCT 63	NCT 25	50	20	C	0.68
	A102M.0.63.060.25	NCT 63	NCT 25	60	30	C	0.71
	A102M.0.63.080.25	NCT 63	NCT 25	80	50	C	0.79
	A102M.0.63.050.32	NCT 63	NCT 32	50	20	C	0.77
	A102M.0.63.060.32	NCT 63	NCT 32	60	30	C	0.82
	A102M.0.63.080.32	NCT 63	NCT 32	80	50	C	0.93
	A102M.0.63.070.40	NCT 63	NCT 40	70	45	C	0.92
	A102M.0.63.080.40	NCT 63	NCT 40	80	55	C	1.01
	A102M.0.63.100.40	NCT 63	NCT 40	100	75	C	1.19
	A102M.0.63.120.40	NCT 63	NCT 40	120	95	C	1.37
	A102M.0.63.140.40	NCT 63	NCT 40	140	115	C	1.53
	A102M.0.63.070.50	NCT 63	NCT 50	70	45	A	1.21
	A102M.0.63.080.50	NCT 63	NCT 50	80	55	A	1.34
	A102M.0.63.100.50	NCT 63	NCT 50	100	75	A	1.63
	A102M.0.63.120.50	NCT 63	NCT 50	120	95	A	1.92
	A102M.0.63.140.50	NCT 63	NCT 50	140	115	A	2.19
	A102M.0.80.080.40	NCT 80	NCT 40	80	45	C	1.6
	A102M.0.80.080.50	NCT 80	NCT 50	80	48	A	1.87
	A102M.0.80.080.63	NCT 80	NCT 63	80	50	B	2.28

DIN 1835 B milling cutter extension

A175



– For tools with shank in accordance with DIN 6535 HB

Tool		Designation	d_1	d_{11}	l_4 mm	l_1 mm	kg
<p>DIN 1835 B</p>		A175.0.20.090.04	20	4	40	90	0.19
		A175.0.20.090.05	20	5	40	90	0.19
		A175.0.20.090.06	20	6	40	90	0.19
		A175.0.20.130.06	20	6	80	130	0.28
		A175.0.20.090.08	20	8	40	90	0.19
		A175.0.20.130.08	20	8	80	130	0.27
		A175.0.20.090.10	20	10	40	90	0.18
		A175.0.20.130.10	20	10	80	130	0.26
		A175.0.20.090.12	20	12	40	90	0.17
		A175.0.20.130.12	20	12	80	130	0.25
		A175.0.25.150.14	25	14	94	150	0.42
		A175.0.25.100.16	25	16	44	100	0.25
		A175.0.25.150.16	25	16	94	150	0.4

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_{11}	6-16	12	4	5
	Threaded plug		M04X008 DIN913 (SW 2)	M05X008 ISO 4026 (SW 2,5)	M06X006 ISO 4026 (SW 3)	M06X005 ISO 4026 (SW 3)

Combination adaptor

A150M mm



- For tools in accordance with DIN 841 and DIN 1880
- For tools in accordance with DIN 842 and DIN 1830

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l _{4max} mm	h ₁₉ mm	
<p>Modular NCT adaptor</p>	A150M.0.32.030.16	NCT 32	16	32	20	30	27	0.23
	A150M.0.40.030.16	NCT 40	16	32	20	30	27	0.32
	A150M.0.40.030.22	NCT 40	22	40	18	30	31	0.4
	A150M.0.50.035.16	NCT 50	16	32	25	35	27	0.46
	A150M.0.50.035.22	NCT 50	22	40	23	35	31	0.54
	A150M.0.50.035.27	NCT 50	27	48	23	35	33	0.66
	A150M.0.50.040.32	NCT 50	32	58	26	40	38	1
	A150M.0.63.035.22	NCT 63	22	40	23	35	31	0.63
	A150M.0.63.035.27	NCT 63	27	48	23	35	33	0.79
	A150M.0.63.040.32	NCT 63	32	58	26	40	38	1.11
	A150M.0.63.040.40	NCT 63	40	70	26	40	41	1.51
	A150M.0.80.040.27	NCT 80	27	48	28	40	33	1.27
	A150M.0.80.040.32	NCT 80	32	58	26	40	38	1.39
	A150M.0.80.040.40	NCT 80	40	70	26	40	41	1.78
	A150M.0.80.045.50	NCT 80	50	90	29	45	46	2.84
	A150M.0.80.055.60	NCT 80	60	110	39	55	66	4.99

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁₁	16	22	27	32	40	50	60
	DIN 6366 drive collar		FS424	FS425	FS426	FS427	FS428	FS429	FS911
	DIN 6367 milling cutter tightening screw		FS430	FS431	FS432	FS433	FS434	FS435	FS912

Accessories		d ₁₁	16	22	27	32	40	50	60
	Key for milling cutter tightening screw		FS436	FS437	FS438	FS439	FS440	FS441	FS913
	b = 2, 10, 20 mm Spacer ring set		FS418	FS419	FS420	FS421	FS422	FS423	FS914
	b = 10 mm Spacer rings		FS461	FS465	FS469	FS473	FS477	FS481	FS915
	b = 10 mm Spacer rings		FS462	FS466	FS470	FS474	FS478	FS482	FS916
	b = 10 mm Spacer rings		FS463	FS467	FS471	FS475	FS479	FS483	FS917
	b = 10 mm Spacer rings		FS464	FS468	FS472	FS476	FS480	FS484	FS918


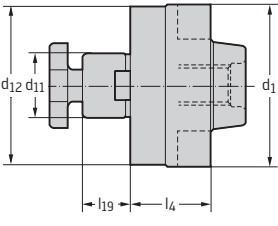
Strength class with tightening screw 12.9

Shell mill adaptor


A155M mm

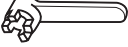
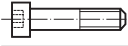


- For milling tools with parallel bore according to DIN 138
- With enlarged collar and fixed drive pins

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm		
	A155M.0.63.030.22	NCT 63	22	50	49	19	0.71	
	A155M.0.63.030.27	NCT 63	27	60	51	21	0.87	
	A155M.0.63.030.32	NCT 63	32	78	24	24	1.22	
	A155M.0.80.030.22	NCT 80	22	50	76	19	0.98	
	A155M.0.80.030.27	NCT 80	27	60	51	21	1.23	
	A155M.0.80.030.32	NCT 80	32	78	54	24	1.48	
	A155M.0.80.040.40	NCT 80	40/40 B	89	67	27	2.13	
	A155M.0.80.065.60	NCT 80	60/50 B	128	115	50	5.7	
	Modular NCT adaptor							

*With 4 additional threaded holes for tools with ISO 40 or ISO 50 adaptor in accordance with DIN 2079
Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁₁	22	27	32	40/40 B	60/50 B
	DIN 6367 milling cutter tightening screw		FS431	FS432	FS433	FS434	FS912

Accessories		d ₁₁	22	27	32	40/40 B	60/50 B
	Key for milling cutter tightening screw		FS437	FS438	FS439	FS441	FS913
	ISO 4762 milling cutter tightening screw		FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)	
	ISO 2936 key		ISO2936-8 (SW 8)		ISO2936-14 (SW 14)	ISO2936-17 (SW 17)	
	ISO 2936 key			ISO2936-10 (SW 10)			

Strength class with tightening screw 12.9

Shell mill adaptor

AK155M mm



- With enlarged collar and fixed drive pins
- For tools with tenon in accordance with DIN 1880

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	kg
Modular NCT adaptor	AK155M.0.50.025.16	NCT 50	16	38	42	17	0.38
	AK155M.0.50.025.22	NCT 50	22	48	44	19	0.46
	AK155M.0.63.030.16	NCT 63	16	38	47	17	0.6
	AK155M.0.63.030.22	NCT 63	22	48	49	19	0.69
	AK155M.0.63.030.27	NCT 63	27	60	51	21	0.84
	AK155M.0.63.030.32	NCT 63	32	78	54	24	1.16
	AK155M.0.80.030.27	NCT 80	27	60	51	21	1.18
	AK155M.0.80.030.32	NCT 80	32	78	54	24	1.42
	AK155M.0.80.040.40	NCT 80	40	89	67	27	2.07

*With 4 additional threaded holes for tools with ISO 40 or ISO 50 adaptor in accordance with DIN 2079
 Bodies and assembly parts are included in the scope of delivery

Assembly parts						
d ₁₁		16	22	27	32	40
	ISO 4762 tightening screw	FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)
Accessories						
d ₁₁		16	22	27	32	40
	ISO 2936 key	ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9

Shell mill adaptor

AK155M.U0 inch



- With enlarged collar and fixed drive pins
- For tools with tenon in accordance with DIN 1880

Tool	Designation	d_1	d_{11}	d_{12} inch	l_4 inch	l_{19} inch
<p style="font-size: small; margin-top: 5px;">Modular NCT adaptor</p>	AK155M.U0.50.025.19	NCT 50	0.750	1.750	1.672	0.688
	AK155M.U0.63.030.31	NCT 63	1.250	2.750	1.869	0.688
	AK155M.U0.80.030.26	NCT 80	1.000	2.750	1.869	0.688
	AK155M.U0.80.030.31	NCT 80	1.250	2.750	1.869	0.688
	AK155M.U0.80.040.38	NCT 80	1.500	3.810	3.223	0.938

Weldon shank adaptor

A170M



– For tools with shank in accordance with DIN 1835 Form B/DIN 6535-HB

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{16} mm	kg
<p>$d_{11} \leq 20 \text{ mm}$</p> <p>$d_{11} > 20 \text{ mm}$</p> <p>Modular NCT adaptor</p>	A170M.0.40.070.16	NCT 40	16	48	70	70	0.79
	A170M.0.50.060.10	NCT 50	10	35	60	35	0.6
	A170M.0.50.065.12	NCT 50	12	42	65	42	0.75
	A170M.0.50.070.16	NCT 50	16	48	70	48	0.91
	A170M.0.63.070.16	NCT 63	16	48	70	42	1.16
	A170M.0.63.070.20	NCT 63	20	52	70	45	1.19
	A170M.0.63.080.25	NCT 63	25	63	80	80	1.76
	A170M.0.63.085.32	NCT 63	32	72	85	85	2.08
	A170M.0.80.070.20	NCT 80	20	52	70	38	1.71
	A170M.0.80.085.25	NCT 80	25	65	85	62	2.22
	A170M.0.80.085.32	NCT 80	32	72	85	65	2.43
	A170M.0.80.095.40	NCT 80	40	78	95	75	2.94

Bodies and assembly parts are included in the scope of delivery

Assembly parts	d_{11}	10	12	16	20	25	32–40
<p>DIN 1835-B clamping screw</p>		M10X012	M12X016 (SW 6)	M14X016	M16X016	M18X2X020	M20X2X020

Adaptor for eccentric sleeve

A170M...Ex



– For diameter adjustment of indexable insert drills with parallel shank

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	kg
		A170M.0.63.079.32.EX	NCT 63	32	72	79	1.93
		A170M.0.80.079.32.EX	NCT 80	32	72	79	2.27
		A170M.0.80.087.40.EX	NCT 80	40	78	87	2.76
		A170M.0.80.096.50.EX	NCT 80	50	85	96	2.97

Modular NCT adaptor

Bodies and assembly parts are included in the scope of delivery

Assembly parts		
d_{11}	32–40	50
DIN 1835-B screw	M20X2X020	M24X2X025

Accessories			
d_{11}	32	40	50
	Adjustable eccentric sleeve, -0.1/+0.3 mm	FS1208	
	Adjustable eccentric sleeve, -0.1/+0.55 mm		FS723
	Adjustable eccentric sleeve, -0.1/+0.55 mm	FS722	FS2132
	Adjustable eccentric sleeve, -0.1/+0.55 mm	FS2131	
	Adjustable eccentric sleeve, -0.1/+0.55 mm	FS2165	
	ISO 2936 key	ISO2936-10 (SW 10)	ISO2936-10 (SW 10)

ER collet chucks

AK300M



– For ER collets in accordance with DIN 6499/ISO15488

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
		AK300M.0.25.050.10	NCT 25	1-10	28	50	ER16	0.15
		AK300M.0.32.050.10	NCT 32	1-10	28	50	ER16	0.21
		AK300M.0.40.080.16	NCT 40	1-16	42	80	ER25	0.6
		AK300M.0.50.080.16	NCT 50	1-16	42	80	ER25	0.8
		AK300M.0.50.080.20	NCT 50	1-20	50	80	ER32	0.83
		AK300M.0.50.080.26	NCT 50	2-26	63	80	ER40	1.07
	Modular NCT adaptor	AK300M.0.63.080.26	NCT 63	2-26	63	80	ER40	1.3

For collets, see „Assembly parts and accessories“
Bodies and assembly parts are included in the scope of delivery


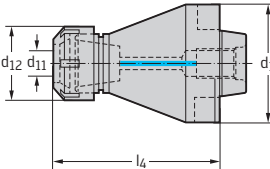
Assembly parts		Collets	ER16	ER25	ER32	ER40
	Clamping nut		FS1537	FS1540	FS1541	FS1542
Accessories		Collets	ER16	ER25	ER32	ER40
	Tensioning key		FS1539	FS1544	FS1545	FS1546

ER collet chuck with internal cooling

AK300M



– For ER collets in accordance with DIN 6499/ISO15488



Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	Collets	
		AK300M.0.25.055.10	NCT 25	1-10	28	55	ER16	0.17
		AK300M.0.32.055.10	NCT 32	1-10	28	55	ER16	0.2
		AK300M.0.40.085.16	NCT 40	1-16	42	85	ER25	0.62
		AK300M.0.50.085.16	NCT 50	1-16	42	85	ER25	0.83
		AK300M.0.50.085.20	NCT 50	1-20	50	85	ER32	0.86
		AK300M.0.63.085.26	NCT 63	2-26	63	85	ER40	1.36
		Modular NCT adaptor						

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER16	ER25	ER32	ER40
	Clamping nut for internal coolant supply		FS1448	FS1449	FS1360	FS1450
Accessories		Collets	ER16	ER25	ER32	ER40
	Tensioning key		FS1539	FS1544	FS1545	FS1546

DIN 1835 B ER collet chuck

A305



– For ER collets in accordance with DIN 6499/ISO15488

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_1 mm	Collets	kg
		A305.0.16.180.06	16	1-6	19	132	180	ER11	0,21
		A305.0.25.140.10	25	1-10	28	84	140	ER16	0,42
		A305.0.25.180.10	25	1-10	28	124	180	ER16	0,52

DIN 1835 B

Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER11	ER16
		Clamping nut	FS653	FS1537

Tap quick-change chuck

A320M



– With elastic length compensation for compression and extension

Tool		Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	Length adjustment C mm	Length adjustment T mm	Collet size	For taps	kg
		A320M.0.40.110.19	NCT 40	19	36	110	7.5	7.5	1	M4-M12	0.9
		A320M.0.50.136.31	NCT 50	31	53	136	12.5	12.5	3	M8-M20	1.82
		A320M.0.63.180.48	NCT 63	48	78	180	20	20	4	M14-M33	4.43
		A320M.0.63.196.60	NCT 63	60	96	196	22.5	22.5	5	M22-M48	6.36

Modular NCT adaptor

An A330/A331 quick-change collet is required for every chuck – see „Assembly parts and accessories“

Synchronous thread cutting adaptor

AB035-N



– Integrated minimum compensation in axial and radial directions

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	Collets	kg
		AB035-N40-ER20-105	NCT 40	4-10	34	105	ER20	0.66
		AB035-N50-ER25-125	NCT 50	8-16	42	125	ER25	1.18

Modular NCT adaptor

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER20	ER25
	Clamping nut for internal coolant supply		FS1359	FS1449
	Tensioning key		FS2553	FS1544

Small drill chuck

A201M



– With clamping mechanism backup

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	kg
<p>Modular NCT adaptor</p>	A201M.0.50.092.13	NCT 50	1-13	36.5	92	1.18

The clamping mechanism backup prevents parts from coming loose if the spindle stops suddenly.

Reduction adaptor

AK521 / AK522



– For ScrewFit front pieces

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	kg
<p>ScrewFit</p>	AK521.T14.25.T09	T14	T09		25	0.04
	AK521.T18.30.T14	T18	T14		30	0.06
	AK521.T22.35.T18	T22	T18		35	0.09
	AK521.T28.40.T22	T28	T22		40	0.17
	AK521.T36.45.T28	T36	T28		45	0.03
	AK521.T45.50.T36	T45	T36		50	0.46
<p>Cylindrical modular</p>	AK522.TC10.35.T18	M10	T18	18.5	35	0.07
	AK522.TC12.40.T22	M12	T22	22	40	0.11
	AK522.TC16.40.T28	M16	T28	28	40	0.17
	AK522.TC08.30.T14	M8	T14	14.5	30	0.05

AK522: For converting cylindrical cut-off area to Walter cut-off area

For the tightening torques of screw on front pieces. see „Rotating adaptors/Assembly parts and accessories“

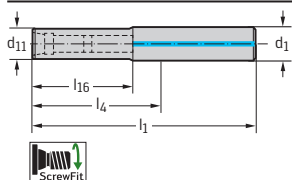
DIN 1835 A adaptor

A510 / AK510



– For ScrewFit front pieces

Tool	Designation	d ₁	d ₁₁	l ₁ mm	l ₄ mm	l ₁₆ mm	kg
	A510.Z10.T09.070-CS	10	T09	120	70	29	0.13
	A510.Z20.T18.070-CS	20	T18	120	70	45	0.44
	A510.Z20.T18.123-CS	20	T18	175	123	45	0.7
	A510.Z25.T18.277-CS	25	T18	335	277	45	2.2
	A510.Z25.T22.070-CS	25	T22	130	70	55	0.53
	A510.Z25.T22.122-CS	25	T22	180	122	55	1.06
	A510.Z25.T22.282-CS	25	T22	340	282	55	2.22
	A510.Z32.T28.283-CS	32	T28	345	283	60	3.79
Cylindrical shaft							
	A510.Z12.T09.120-CS	12	T09	170	120	32	0.26
	A510.Z16.T14.070-CS	16	T14	120	70	38	0.31
	A510.Z16.T14.120-CS	16	T14	170	120	37	0.45
Cylindrical shaft							
	A510.Z25.T28.070-CS	25	T28	130	70	55	0.79
	A510.Z25.T28.127-CS	25	T28	185	127	60	1.18
Cylindrical shaft							
	AK510.Z10.T09.030	10	T09		30	10	0.05
	AK510.Z10.T09.060	10	T09		60	20	0.06
	AK510.Z12.T09.060	12	T09		60	20	0.09
	AK510.Z16.T09.090	16	T09		90	20	0.18
	AK510.Z16.T14.050	16	T14		50	45	0.14
	AK510.Z16.T14.110	16	T14		110	45	0.22
Cylindrical shaft							
	AK510.Z20.T18.068	20	T18		68	50	0.25
	AK510.Z20.T18.128	20	T18		128	50	0.39
	AK510.Z25.T22.072	25	T22		72	55	0.42
	AK510.Z25.T22.142	25	T22		142	55	0.66
	AK510.Z40.T36.130	40	T36		130	60	1.72
	AK510.Z40.T36.230	40	T36		230	100	2.6



For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

DIN 1835 A adaptor A510 / AK510 (cont.)

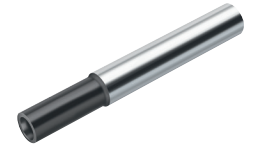
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Tool		Designation	d_1	d_{11}	l_1 mm	l_4 mm	l_{16} mm	kg
		AK510.Z20.T14.108	20	T14		108	52	0.32
		AK510.Z25.T18.122	25	T18		122	62	0.56
		AK510.Z32.T18.178	32	T18		178	128	1.14
		AK510.Z32.T22.138	32	T22		138	95	0.96
		AK510.Z32.T28.138	32	T28		138	40	0.95
		AK510.Z40.T28.228	40	T28		228	115	2.47
Cylindrical shaft								
		AK510.Z25.T28.072	25	T28		72	55	0.48
		AK510.Z25.T28.142	25	T28		142	55	0.76
		AK510.Z32.T36.090	32	T36		90	60	0.86
		AK510.Z32.T36.140	32	T36		140	60	1.19
		AK510.Z40.T45.080	40	T45		80	60	1.47
		AK510.Z40.T45.230	40	T45		230	100	2.97
Cylindrical shaft								

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

DIN 1835 A adaptor

AK512



- For ScrewFit front pieces
- Steel shank with solid carbide core

Tool	Designation	d ₁	d ₁₁	l ₁ mm	l ₄ mm	l ₁₆ mm	kg
<p>Cylindrical shaft</p>	AK512.Z20.T18.123	20	T18	175	123	45	0.47
	AK512.Z25.T22.122	25	T22	180	122	55	0.81
<p>Cylindrical shaft</p>	AK512.Z16.T14.120	16	T14	170	120	37	0.3
	AK512.Z32.T28.283	32	T28	345	283	60	2.66
<p>Cylindrical shaft</p>	AK512.Z25.T28.127	25	T28	185	127	60	0.91

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

DIN 1835 A adaptor

AK510 inch



– For ScrewFit front pieces

Tool	Designation	d_1	d_{11}	l_4 inch	l_{16} inch
 Cylindrical shaft	AK510.UZ13.T09.060	0.020	T09	2.362	0.787
	AK510.UZ15.T09.090	0.025	T09	3.543	1.575
	AK510.UZ15.T14.050	0.025	T14	1.969	1.772
	AK510.UZ15.T14.110	0.025	T14	4.331	1.772
	AK510.UZ19.T18.128	0.030	T18	5.039	1.969
	AK510.UZ26.T22.142	0.039	T22	5.591	2.165
	AK510.UZ26.T28.072	0.039	T28	2.835	2.165
	AK510.UZ38.T36.130	0.059	T36	5.118	2.362
	AK510.UZ09.T09.060	0.375	T09	2.362	0.787
	 Cylindrical shaft	AK510.UZ19.T14.108	0.030	T14	4.252
AK510.UZ19.T18.068		0.030	T18	2.677	1.969
AK510.UZ26.T18.122		0.039	T18	4.803	2.441
AK510.UZ26.T22.072		0.039	T22	2.835	2.165
AK510.UZ26.T28.142		0.039	T28	5.591	2.165
AK510.UZ31.T36.090		0.049	T36	3.543	2.362
AK510.UZ31.T36.140		0.049	T36	5.512	2.362
 Cylindrical shaft	AK510.UZ31.T22.138	0.049	T22	5.433	1.575
	AK510.UZ31.T28.138	0.049	T28	5.433	2.362
	AK510.UZ38.T45.080	0.059	T45	3.150	2.362

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

NCT adaptor

AK520 mm



– For ScrewFit front pieces

Tool	Designation	d_1	d_{11}	d_{14} mm	l_4 mm	l_{16} mm	l_{18} mm	kg
	AK520.N50.T18.060CO	NCT 50	T18	18.5	60	24	10	0.46
	AK520.N50.T22.065CO	NCT 50	T22	22	65	33	10	0.49
	AK520.N63.T22.065CO	NCT 63	T22	22	65	30	10	0.73
	AK520.N63.T28.085CO	NCT 63	T28	28	85	48	10	0.9
	AK520.N63.T45.080CO	NCT 63	T45	45	80	58	10	1.2
	AK520.N80.T36.070CO	NCT 80	T36	36	70	48	10	1.16
	AK520.N80.T45.080CO	NCT 80	T45	45	80	58	10	1.16

NCT adaptor

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

DIN 69893-1 A adaptor

AK530



– For ScrewFit front pieces

Tool	Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	kg
<p>HSK DIN 69893-1 A</p>	AK530.H63A.T09.045	HSK-A63	T09	9.7	45	14	10	0.69
	AK530.H63A.T09.070	HSK-A63	T09	9.7	70	31	10	0.72
	AK530.H63A.T14.045	HSK-A63	T14	14.5	45	11	10	0.7
	AK530.H63A.T14.070	HSK-A63	T14	14.5	70	24	10	0.74
	AK530.H63A.T14.095	HSK-A63	T14	14.5	95	24	10	0.8
	AK530.H63A.T18.050CO	HSK-A63	T18	18.5	50	16	10	0.72
	AK530.H63A.T18.075	HSK-A63	T18	18.5	75	24	10	0.78
	AK530.H63A.T18.100	HSK-A63	T18	18.5	100	24	10	0.88
	AK530.H63A.T18.125	HSK-A63	T18	18.5	125	24	10	0.94
	AK530.H63A.T18.150	HSK-A63	T18	18.5	150	24	10	1.09
	AK530.H63A.T22.060CO	HSK-A63	T22	22	60	26	10	0.77
	AK530.H63A.T22.085	HSK-A63	T22	22	85	38	10	0.86
	AK530.H63A.T22.110	HSK-A63	T22	22	110	38	10	0.99
	AK530.H63A.T22.135	HSK-A63	T22	22	135	38	10	1.13
	AK530.H63A.T22.160	HSK-A63	T22	22	160	38	10	1.29
	AK530.H63A.T28.065CO	HSK-A63	T28	28	65	31	10	0.84
	AK530.H63A.T28.090	HSK-A63	T28	28	90	48	10	0.99
	AK530.H63A.T28.115	HSK-A63	T28	28	115	48	10	1.18
	AK530.H63A.T28.140	HSK-A63	T28	28	140	48	10	1.37
	AK530.H63A.T28.165	HSK-A63	T28	28	165	48	10	1.62
	AK530.H63A.T36.065CO	HSK-A63	T36	36	65	33	10	0.91
	AK530.H63A.T36.090	HSK-A63	T36	36	90	48	10	1.16
	AK530.H63A.T36.115	HSK-A63	T36	36	115	48	10	1.43
	AK530.H63A.T45.065CO	HSK-A63	T45	45	65	36	10	1.08
	AK530.H63A.T45.090	HSK-A63	T45	45	90	57	10	1.44

Balance class: G6.3 where n = 25,000 rpm

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For accessories for HSK, see „Assembly parts and accessories“

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

Accessories	d ₁	HSK-A63
<p>Coolant transfer</p>		FS1064
<p>Keys</p>		FS952

DIN 69893-1 A adaptor

AK530



– For ScrewFit front pieces

Tool		Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	kg
<p>HSK DIN 69893-1 A</p>		AK530.H100A.T14.055	HSK-A100	T14	14.5	55	14.9	10	2.09
		AK530.H100A.T18.055	HSK-A100	T18	18.5	55	18.9	10	2.12
		AK530.H100A.T22.055CO	HSK-A100	T22	22	55	16	10	2.1
		AK530.H100A.T22.100	HSK-A100	T22	22	100	38	10	2.31
		AK530.H100A.T22.150	HSK-A100	T22	22	150	38	10	2.63
		AK530.H100A.T22.200	HSK-A100	T22	22	200	38	10	3.02
		AK530.H100A.T28.060CO	HSK-A100	T28	28	60	23	10	2.17
		AK530.H100A.T28.110	HSK-A100	T28	28	110	48	10	2.49
		AK530.H100A.T28.160	HSK-A100	T28	28	160	48	10	2.96
		AK530.H100A.T28.210	HSK-A100	T28	28	210	48	10	3.49
		AK530.H100A.T28.260	HSK-A100	T28	28	260	48	10	4.17
		AK530.H100A.T36.070CO	HSK-A100	T36	36	70	33	10	2.33
		AK530.H100A.T36.120	HSK-A100	T36	36	120	48	10	2.84
		AK530.H100A.T36.170	HSK-A100	T36	36	170	48	10	3.53
		AK530.H100A.T36.220	HSK-A100	T36	36	220	48	10	4.32
		AK530.H100A.T36.270	HSK-A100	T36	36	270	48	10	5.31
		AK530.H100A.T45.070CO	HSK-A100	T45	45	70	33	10	2.53
		AK530.H100A.T45.120	HSK-A100	T45	45	120	57	10	3.3
		AK530.H100A.T45.170	HSK-A100	T45	45	170	57	10	4.28
		AK530.H100A.T45.220	HSK-A100	T45	45	220	57	10	5.4

Balance class: G6.3 where n = 16,000 rpm
 ...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For accessories for HSK, see „Assembly parts and accessories“
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

Accessories		d ₁	HSK-A100
	Coolant transfer		FS1065
	Keys		FS953

DIN 69893-1 A adaptor

AK531



- Cutting edge-oriented (CO)
- For ScrewFit front pieces

Tool	Designation	d_1	d_{11}	l_4 mm	l_{16} mm	kg
<p>HSK DIN 69893-1 A</p>	AK531.H100A.T22.100CO	HSK-A100	T22	100	56	2.27
	AK531.H100A.T28.110CO	HSK-A100	T28	110	71	2.38
	AK531.H100A.T36.120CO	HSK-A100	T36	120	81	2.66
	AK531.H100A.T45.170CO	HSK-A100	T45	170	136	3.78
	AK531.H63A.T18.075CO	HSK-A63	T18	75	41	0.76
	AK531.H63A.T22.110CO	HSK-A63	T22	110	76	0.92
	AK531.H63A.T28.115CO	HSK-A63	T28	115	81	1.07
	AK531.H63A.T36.115CO	HSK-A63	T36	115	81	1.27
	AK531.H63A.T45.090CO	HSK-A63	T45	90	59	1.37

HSK-A63: Balance class G6.3 where $n = 25,000$ rpm; HSK-A100: Balance class G6.3 where $n = 16,000$ rpm;

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For accessories for HSK, see „Assembly parts and accessories“

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

Accessories	d_1	HSK-A100	HSK-A63
	Coolant transfer	FS1065	FS1064
	Keys	FS953	FS952

DIN SK adaptor

AK540 mm



– For ScrewFit front pieces

Tool		Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	d ₁₃	kg
<p>SK DIN 69871 AD/B</p>		AK540.S40.T09.040	SK40	T09	9.7	40	17	10	M16	0.83
		AK540.S40.T09.090	SK40	T09	9.7	90	31	10	M16	0.91
		AK540.S40.T14.045	SK40	T14	14.5	45	16	10	M16	0.88
		AK540.S40.T14.070	SK40	T14	14.5	70	24	10	M16	0.91
		AK540.S40.T14.095	SK40	T14	14.5	95	24	10	M16	0.96
		AK540.S40.T18.040CO	SK40	T18	18.5	40	16	10	M16	0.86
		AK540.S40.T18.050CO	SK40	T18	18.5	50	28	10	M16	0.88
		AK540.S40.T18.075	SK40	T18	18.5	75	24	10	M16	0.95
		AK540.S40.T18.100	SK40	T18	18.5	100	24	10	M16	1.03
		AK540.S40.T18.125	SK40	T18	18.5	125	24	10	M16	1.14
		AK540.S40.T18.150	SK40	T18	18.5	150	24	10	M16	1.32
		AK540.S40.T22.040CO	SK40	T22	22	40	16	10	M16	0.86
		AK540.S40.T22.060CO	SK40	T22	22	60	39	10	M16	0.94
		AK540.S40.T22.085	SK40	T22	22	85	38	10	M16	1
		AK540.S40.T22.110	SK40	T22	22	110	38	10	M16	1.14
		AK540.S40.T22.135	SK40	T22	22	135	38	10	M16	1.31
		AK540.S40.T22.160	SK40	T22	22	160	38	10	M16	1.53
		AK540.S40.T28.040CO	SK40	T28	28	40		17	M16	0.87
		AK540.S40.T28.065	SK40	T28	28	65	42	10	M16	1
		AK540.S40.T28.090	SK40	T28	28	90	48	10	M16	1.18
		AK540.S40.T28.115	SK40	T28	28	115	48	10	M16	1.36
		AK540.S40.T28.140	SK40	T28	28	140	48	10	M16	1.63
		AK540.S40.T28.165	SK40	T28	28	165	48	10	M16	1.88
		AK540.S40.T36.040CO	SK40	T36	36	40		17	M16	0.89
		AK540.S40.T36.065	SK40	T36	36	65	42	10	M16	1.12
		AK540.S40.T36.090	SK40	T36	36	90	48	10	M16	1.37
		AK540.S40.T36.115	SK40	T36	36	115	48	10	M16	1.66
		AK540.S40.T45.040CO	SK40	T45	45	40		17	M16	0.98
	AK540.S40.T45.065	SK40	T45	45	65	42	42	M16	1.29	

Form AD is delivered. To convert to Form B, remove both threaded plugs.
 ...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts	
d ₁	SK40
<p>DIN 913 threaded plug</p>	M04X005 DIN913

DIN SK adaptor

AK540 mm



– For ScrewFit front pieces

Tool		Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	l ₁₈ mm	d ₁₃	kg
<p>SK DIN 69871 AD/B</p>		AK540.S50.T22.050CO	SK50	T22	50	29	10	M24	2.82
		AK540.S50.T22.100	SK50	T22	100	38	10	M24	3.04
		AK540.S50.T22.150	SK50	T22	150	38	10	M24	3.35
		AK540.S50.T22.200	SK50	T22	200	38	10	M24	3.7
		AK540.S50.T28.050CO	SK50	T28	50	30	10	M24	2.85
		AK540.S50.T28.100	SK50	T28	100	48	10	M24	3.08
		AK540.S50.T28.150	SK50	T28	150	48	10	M24	3.52
		AK540.S50.T28.200	SK50	T28	200	48	10	M24	4.2
		AK540.S50.T28.250	SK50	T28	250	48	10	M24	5
		AK540.S50.T36.050CO	SK50	T36	50	30	10	M24	2.9
		AK540.S50.T36.100	SK50	T36	100	48	10	M24	3.39
		AK540.S50.T36.150	SK50	T36	150	48	10	M24	4.05
		AK540.S50.T36.200	SK50	T36	200	48	10	M24	4.87
		AK540.S50.T36.250	SK50	T36	250	48	10	M24	5.83
		AK540.S50.T45.050CO	SK50	T45	50	27	10	M24	3.04
		AK540.S50.T45.100	SK50	T45	100	57	10	M24	3.7
		AK540.S50.T45.150	SK50	T45	150	57	10	M24	4.63
		AK540.S50.T45.200	SK50	T45	200	57	10	M24	5.89
		AK540.S50.T45.250	SK50	T45	250	57	10	M24	7.1

Form AD is delivered. To convert to Form B, remove both threaded plugs.

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Bodies and assembly parts are included in the scope of delivery

Assembly parts

	d ₁	SK50
	DIN 913 threaded plug	M06X006 ISO 4026 (SW 3)

DIN SK adaptor

AK541



– Cutting edge-oriented (CO)

Tool		Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	d ₁₃	kg
<p>SK DIN 69871 AD/B</p>		AK541.S40.T18.075CO	SK40	T18	75	55.9	M16	0.94
		AK541.S40.T22.110CO	SK40	T22	110	90.9	M16	1.09
		AK541.S40.T28.115CO	SK40	T28	115	95.9	M16	1.22
		AK541.S40.T36.115CO	SK40	T36	115	95.9	M16	1.49
<p>SK DIN 69871 AD/B</p>		AK541.S50.T22.100CO	SK50	T22	100	80.9	M24	2.96
		AK541.S50.T28.100CO	SK50	T28	100	80.9	M24	3.07
		AK541.S50.T36.150CO	SK50	T36	150	130.9	M24	3.7
		AK541.S50.T45.200CO	SK50	T45	200	180.9	M24	4.92

Form AD is delivered. To convert to Form B, remove both threaded plugs.

Balance class: G6.3 where n = 25,000 rpm

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Bodies and assembly parts are included in the scope of delivery

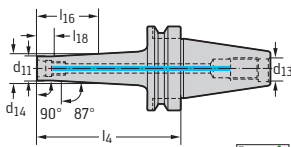
Assembly parts			
	d ₁	SK40	SK50
	DIN 913 threaded plug	M04X005 DIN913	M06X006 ISO 4026 (SW 3)

MAS-BT JIS B 6339 adaptor

AK540



Tool



JIS B 6339

Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	d ₁₃	kg
AK540.BT40.T09.050	BT40	T09	9.7	50	10	17	M16	1.04
AK540.BT40.T14.055	BT40	T14	14.5	55	10	22	M16	1.06
AK540.BT40.T14.080	BT40	T14	14.5	80	10	24	M16	1.13
AK540.BT40.T18.060CO	BT40	T18	18.5	60	10	24	M16	1.1
AK540.BT40.T18.085	BT40	T18	18.5	85	10	24	M16	1.13
AK540.BT40.T18.110	BT40	T18	18.5	110	10	24	M16	1.26
AK540.BT40.T18.135	BT40	T18	18.5	135	10	24	M16	1.43
AK540.BT40.T22.050CO	BT40	T22	22	50	10	17	M16	1.05
AK540.BT40.T22.070CO	BT40	T22	22	70	10	37	M16	1.15
AK540.BT40.T22.095	BT40	T22	22	95	10	38	M16	1.25
AK540.BT40.T22.120	BT40	T22	22	120	10	38	M16	1.39
AK540.BT40.T22.145	BT40	T22	22	145	10	38	M16	1.58
AK540.BT40.T22.170	BT40	T22	22	170	10	38	M16	1.75
AK540.BT40.T28.050CO	BT40	T28	28	50	10	17	M16	1.08
AK540.BT40.T28.075	BT40	T28	28	75	10	42	M16	1.19
AK540.BT40.T28.100	BT40	T28	28	100	10	48	M16	1.4
AK540.BT40.T28.125	BT40	T28	28	125	10	48	M16	1.59
AK540.BT40.T28.150	BT40	T28	28	150	10	48	M16	1.74
AK540.BT40.T28.175	BT40	T28	28	175	10	48	M16	2.09
AK540.BT40.T36.075CO	BT40	T36	36	75	10	42	M16	1.33
AK540.BT40.T36.100	BT40	T36	36	100	10	48	M16	1.59
AK540.BT40.T36.125	BT40	T36	36	125	10	48	M16	1.88
AK540.BT40.T45.075CO	BT40	T45	45	75	10	42	M16	1.55
AK540.BT40.T45.100	BT40	T45	45	100	10	57	M16	1.93

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

MAS-BT JIS B 6339 adaptor

AK540



Tool		Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₈ mm	d ₁₃	kg
<p>JIS B 6339</p>		AK540.BT50.T22.070CO	BT50	T22	22	70	10	26	M24	3,85
		AK540.BT50.T22.120	BT50	T22	22	120	10	82	M24	4,1
		AK540.BT50.T22.170	BT50	T22	22	170	10	132	M24	4,4
		AK540.BT50.T22.220	BT50	T22	22	220	10	182	M24	4,88
		AK540.BT50.T28.070CO	BT50	T28	28	70	10	26	M24	3,88
		AK540.BT50.T28.120	BT50	T28	28	120	10	82	M24	4,22
		AK540.BT50.T28.170	BT50	T28	28	170	10	132	M24	4,64
		AK540.BT50.T28.220	BT50	T28	28	220	10	182	M24	5,23
		AK540.BT50.T28.270	BT50	T28	28	270	10	232	M24	4,46
		AK540.BT50.T36.070CO	BT50	T36	36	70	10	26	M24	3,91
		AK540.BT50.T36.120	BT50	T36	36	120	10	82	M24	4,4
		AK540.BT50.T36.170	BT50	T36	36	170	10	132	M24	5,06
		AK540.BT50.T36.220	BT50	T36	36	220	10	182	M24	5,88
		AK540.BT50.T36.270	BT50	T36	36	270	10	232	M24	6,86
		AK540.BT50.T45.070CO	BT50	T45	45	70	10	26	M24	4,01
		AK540.BT50.T45.170	BT50	T45	45	170	10	132	M24	5,73
		AK540.BT50.T45.220	BT50	T45	45	220	10	182	M24	6,79
		AK540.BT50.T45.270	BT50	T45	45	270	10	232	M24	8,22

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

MAS-BT JIS B 6339 adaptor

AK541



– Cutting edge-oriented (CO)

Tool	Designation	d_1	d_{11}	l_4 mm	l_{16} mm	d_{13}	kg
	AK541.BT40.T22.120CO	BT40	T22	120	103	M16	1.25
	AK541.BT40.T28.125CO	BT40	T28	125	98	M16	1.41
	AK541.BT40.T36.125CO	BT40	T36	125	98	M16	1.67
	AK541.BT50.T22.120CO	BT50	T22	120	82	M24	4
	AK541.BT50.T28.120CO	BT50	T28	120	82	M24	4.12
	AK541.BT50.T36.170CO	BT50	T36	170	132	M24	4.63

Balance class: G6.3 where $n = 25,000$ rpm

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

ASME CAT adaptor

AK540 inch



– For ScrewFit front pieces

Tool	Designation	d ₁	d ₁₁	d ₁₄ inch	l ₄ inch	l ₁₆ inch	l ₁₈ inch	d ₁₃	
<p>ASME B 5.50</p>	AK540.US40.T09.040	CAT40	T09	0.382	1.575	0.394	0.197	5/8"-11	
	AK540.US40.T14.045	CAT40	T14	1.752	1.772	0.394	0.394	5/8"-11	
	AK540.US40.T18.050-CO	CAT40	T18	0.728	1.969	0.394	0.472	5/8"-11	
	AK540.US40.T22.060-CO	CAT40	T22	0.866	2.362	0.394	0.945	5/8"-11	
	AK540.US40.T22.085	CAT40	T22	0.866	3.346	0.394	1.496	5/8"-11	
	AK540.US40.T22.160	CAT40	T22	0.866	6.299	0.394	1.496	5/8"-11	
	AK540.US40.T28.040-CO	CAT40	T28	1.752	1.575	0.004	0.197	5/8"-11	
	AK540.US40.T28.065	CAT40	T28	1.102	2.559	0.394	1.142	5/8"-11	
	AK540.US40.T28.090	CAT40	T28	1.102	3.543	0.394	1.890	5/8"-11	
	AK540.US40.T28.140	CAT40	T28	1.102	5.512	0.394	1.890	5/8"-11	
	AK540.US40.T28.165	CAT40	T28	1.102	6.496	0.394	1.890	5/8"-11	
	AK540.US40.T36.040-CO	CAT40	T36	1.752	1.575	0.004	0.197	5/8"-11	
	AK540.US40.T36.065	CAT40	T36	1.417	2.559	0.394	1.181	5/8"-11	
	AK540.US40.T36.090	CAT40	T36	1.417	3.543	0.394	1.890	5/8"-11	
	AK540.US40.T36.115	CAT40	T36	1.417	4.528	0.394	1.890	5/8"-11	
	AK540.US40.T45.040-CO	CAT40	T45		1.575	0.004	0.787	5/8"-11	
	AK540.US40.T45.090	CAT40	T45		1.969	3.543	0.394	2.756	5/8"-11

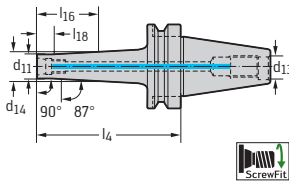
For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

ASME CAT adaptor

AK540 inch



– For ScrewFit front pieces

Tool	Designation	d_1	d_{11}	d_{14} inch	l_4 inch	l_{16} inch	l_{18} inch	d_{13}
 <p>ASME B 5.50</p>	AK540.US50.T22.050-CO	CAT50	T22	0.866	1.969	0.394	0.512	1"-8
	AK540.US50.T22.100	CAT50	T22	0.866	3.937	0.394	1.496	1"-8
	AK540.US50.T22.200	CAT50	T22	0.866	7.874	0.394	1.496	1"-8
	AK540.US50.T28.050-CO	CAT50	T28	1.102	1.969	0.394	0.551	1"-8
	AK540.US50.T28.100	CAT50	T28	1.102	3.937	0.394	1.890	1"-8
	AK540.US50.T28.150	CAT50	T28	1.102	5.906	0.394	1.890	1"-8
	AK540.US50.T28.200	CAT50	T28	1.102	7.874	0.394	1.890	1"-8
	AK540.US50.T28.250	CAT50	T28	1.102	9.843	0.394	1.890	1"-8
	AK540.US50.T36.050-CO	CAT50	T36	1.417	1.969	0.004	0.551	1"-8
	AK540.US50.T36.100	CAT50	T36	1.417	3.937	0.394	1.890	1"-8
	AK540.US50.T36.150	CAT50	T36	1.417	5.906	0.394	1.890	1"-8
	AK540.US50.T36.200	CAT50	T36	1.417	7.874	0.394	1.890	1"-8
	AK540.US50.T36.250	CAT50	T36	1.417	9.843	0.394	1.890	1"-8
	AK540.US50.T45.050-CO	CAT50	T45	1.772	1.969	0.004	0.551	1"-8
	AK540.US50.T45.100	CAT50	T45	1.772	3.937	0.394	2.244	1"-8
	AK540.US50.T45.150	CAT50	T45	1.772	5.906	0.394	2.244	1"-8
AK540.US50.T45.200	CAT50	T45	1.772	7.874	0.394	2.244	1"-8	

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

ASME CAT adaptor

AK541 inch



– For ScrewFit front pieces

Tool	Designation	d ₁	d ₁₁	l ₄ inch	l ₁₆ inch	d ₁₃
<p>ASME B 5.50</p>	AK541.US4.T18.075CO	CAT40	T18	2.953	2.161	5/8"-11
	AK541.US4.T22.110CO	CAT40	T22	4.331	3.539	5/8"-11
	AK541.US4.T28.115CO	CAT40	T28	4.528	3.736	5/8"-11
	AK541.US4.T36.115CO	CAT40	T36	4.528	3.736	5/8"-11
<p>ASME B 5.50</p>	AK541.US5.T22.100CO	CAT50	T22	3.937	3.146	1"-8
	AK541.US5.T28.100CO	CAT50	T28	3.937	3.146	1"-8
	AK541.US5.T36.150CO	CAT50	T36	5.906	5.114	1"-8
	AK541.US5.T45.200CO	CAT50	T45	7.874	7.083	1"-8

...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Walter Capto™ adaptor

AK580.C mm



- For ScrewFit front pieces
- ISO 26623

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	l ₁₈ mm	kg
	AK580.C3.T14.45CO	C3	T14	45	27	10	0.16
	AK580.C3.T18.45CO	C3	T18	45	27	10	0.18
	AK580.C3.T22.45CO	C3	T22	45	27	10	0.2
	AK580.C3.T28.55CO	C3	T28	55	40	10	0.28
	AK580.C4.T14.45CO	C4	T14	45	22	10	0.3
	AK580.C4.T18.45CO	C4	T18	45	22	10	0.31
	AK580.C4.T22.45CO	C4	T22	45	22	10	0.32
	AK580.C4.T28.55CO	C4	T28	55	32	10	0.39
	AK580.C4.T36.55CO	C4	T36	55	35	10	0.46
	AK580.C4.T45.55CO	C4	T45	55		35	0.6
	AK580.C5.T18.45	C5	T18	45	22	10	0.49
	AK580.C5.T22.45	C5	T22	45	22	10	0.51
	AK580.C5.T28.55	C5	T28	55	32	10	0.58
	AK580.C5.T36.55	C5	T36	55	32	10	0.65
	AK580.C5.T45.55	C5	T45	55	35	10	0.81
	AK580.C6.T14.50	C6	T14	50	25	10	0.84
	AK580.C6.T18.50	C6	T18	50	25	10	0.85
	AK580.C6.T22.50	C6	T22	50	25	10	0.87
	AK580.C6.T28.60	C6	T28	60	35	10	0.94
	AK580.C6.T36.60	C6	T36	60	35	10	1.01
AK580.C6.T45.60CO	C6	T45	60	35	10	1.19	
AK580.C8.T14.56	C8	T14	56	23	10	1.76	
AK580.C8.T18.56	C8	T18	56	23	10	1.77	
AK580.C8.T22.56	C8	T22	56	23	10	1.78	
AK580.C8.T28.60	C8	T28	60	27	10	1.82	
AK580.C8.T36.60	C8	T36	60	27	10	1.87	
AK580.C8.T45.60CO	C8	T45	60	27	10	2	

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“
 ...CO = Interface is manufactured to be cutting edge-oriented. For the use of B4030.T and B3230.T.

ER collet chucks

AK300.T



– For ER collets in accordance with DIN 6499/ISO15488

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
<p>ScrewFit</p>		AK300.T18.030.06	T18	1-6	19	30	ER11	0.06
		AK300.T22.040.10	T22	1-10	28	40	ER16	0.12
		AK300.T22.045.10	T22	1-10	28	45	ER16	0.14
		AK300.T22.030.06	T22	1-6	19	30	ER11	0.08
		AK300.T28.040.10	T28	1-10	28	40	ER16	0.17
		AK300.T28.045.10	T28	1-10	28	45	ER16	0.18
		AK300.T36.050.16	T36	1-16	42	50	ER25	0.38
		AK300.T36.055.16	T36	1-16	42	55	ER25	0.41

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories” must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see „Assembly parts and accessories”
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories”
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER11	ER16	ER25
	Clamping nut		FS653		
	Clamping nut			FS1537	FS1540

Accessories		Collets	ER11	ER16	ER25
	Tensioning key			FS1539	FS1544

HSK adaptor – vibration-damped

AC060-H mm



- For ScrewFit front pieces
- With preset vibration damping

Tool	Designation	d_1	d_{11}	d_{14} mm	l_4 mm	l_{18} mm	l_{16} mm	kg
 HSK DIN 69893-1 A	AC060-H100-T22-235	HSK-A100	T22	22	235	19.5	24	4
	AC060-H100-T28-235	HSK-A100	T28	28	235	18.8	24	4.8
	AC060-H100-T28-285	HSK-A100	T28	28	285	18.8	24	5.9
	AC060-H63-T18-185	HSK-A63	T18	18.5	185	20	23.5	1.51
	AC060-H63-T22-185	HSK-A63	T22	22	185	19.5	24	1.9
	AC060-H63-T28-185	HSK-A63	T28	28	185	18.8	24	2.59
	AC060-H63-T28-235	HSK-A63	T28	28	235	18.8	24	3.5

For accessories for HSK, see „Assembly parts and accessories“

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

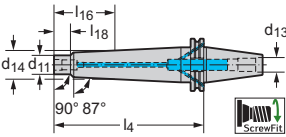
Accessories	d_1	HSK-A100	HSK-A63
 Coolant transfer		FS1065	FS1064
 Keys		FS953	FS952

SK adaptor – vibration-damped

AC060-S



- For ScrewFit front pieces
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₈ mm	l ₁₆ mm	d ₁₃	kg
 SK DIN 69871 AD/B	AC060-S40-T18-185	SK40	T18	18.5	185	20	23.5	M16	2.2
	AC060-S40-T22-185	SK40	T22	22	185	20	24	M16	2.2
	AC060-S40-T28-185	SK40	T28	28	185	20	24	M16	2.8
	AC060-S40-T28-235	SK40	T28	28	235	20	24	M16	3.7
	AC060-S50-T22-235	SK50	T22	22	235	19.5	24	M24	5.5
	AC060-S50-T28-235	SK50	T28	28	235	18.8	24	M24	5.5
	AC060-S50-T28-285	SK50	T28	28	285	18.8	24	M24	6.6

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

MAS-BT adaptor – vibration-damped

AC060-J mm



- For ScrewFit front pieces
- With preset vibration damping

Tool		Designation	d_1	d_{11}	d_{14} mm	l_4 mm	l_{18} mm	l_{16} mm	d_{13}	kg
<p>JIS B 6339 AD/B</p>		AC060-J40-T18-185	BT40	T18	18.5	185	20	23.5	M16	2.2
		AC060-J40-T22-185	BT40	T22	22	185	19.5	24	M16	2.2
		AC060-J40-T28-185	BT40	T28	28	185	18.8	24	M16	2.8
		AC060-J40-T28-235	BT40	T28	30	235	18.8	24	M16	3.7
		AC060-J50-T22-235	BT50	T22	22	235	19.5	24	M24	6
		AC060-J50-T28-235	BT50	T28	28	235	18.8	24	M24	6.1
		AC060-J50-T28-285	BT50	T28	28	285	18.8	24	M24	7.2

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

Walter Capto™ adaptor – vibration damped

AC060-C mm



- For ScrewFit front pieces
- With preset vibration damping

Tool		Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₈ mm	l ₁₆ mm	kg
		AC060-C6-T18-185	C6	T18	18.5	185	20	23.5	2
		AC060-C6-T22-185	C6	T22	22	185	19.5	24	2.1
		AC060-C6-T28-185	C6	T28	28	185	18.8	24	2.8
		AC060-C6-T28-235	C6	T28	28	235	18.8	24	3.6

Walter Capto™ in acc. with ISO 26623

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

DIN 6535 HA adaptor

AK610



– For ConeFit milling cutter heads

Tool		Designation	d_1	d_{11}	l_1 mm	l_4 mm	kg	
<p>Cylindrical shaft</p>		AK610.Z10.E10.020	10	E10	75	35	0.05	
		AK610.Z10.E10.050	10	E10	100	60	0.07	
		AK610.Z12.E10.005	12	E10	65	20	0.06	
		AK610.Z12.E12.022	12	E12	100	55	0.09	
		AK610.Z12.E12.048	12	E12	100	55	0.09	
		AK610.Z16.E10.005	16	E10	65	17	0.11	
		AK610.Z16.E12.005	16	E12	65	17	0.1	
		AK610.Z16.E16.025	16	E16	110	62	0.17	
		AK610.Z16.E16.050	16	E16	110	62	0.16	
		AK610.Z16.E16.080	16	E16	135	87	0.14	
		AK610.Z20.E16.005	20	E16	70	20	0.17	
		AK610.Z20.E16.025	20	E16	110	60	0.24	
		AK610.Z20.E20.030	20	E20	120	70	0.26	
		AK610.Z20.E20.110	20	E20	180	130	0.39	
	<p>Cylindrical shaft</p>		AK610.Z16.E10.050	16	E10	160	112	0.21
		AK610.Z16.E12.060	16	E12	170	122	0.22	
		AK610.Z20.E16.075	20	E16	190	140	0.39	
<p>Cylindrical shaft</p>			AK610.Z16.E10.036	16	E10	140	92	0.2
			AK610.Z16.E12.025	16	E12	140	92	0.2
		AK610.Z25.E16.054	25	E16	170	114	0.57	
		AK610.Z32.E20.073	32	E20	180	120	0.96	
		AK610.Z32.E25.045	32	E25	200	140	1.17	

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

DIN 6535 HA adaptor

AK610 inch



– For ConeFit milling cutter heads

Tool	Designation	d_1	d_{11}	l_1 inch	l_4 inch
<p>Cylindrical shaft</p>	AK610.UZ13.E10.006	0.020	E10	2.500	0.717
	AK610.UZ13.E10.025	0.020	E10	3.000	1.217
	AK610.UZ13.E12.006	0.020	E12	3.000	1.217
	AK610.UZ13.E12.025	0.020	E12	4.500	2.717
	AK610.UZ15.E16.006	0.025	E16	3.000	1.094
	AK610.UZ15.E16.025	0.025	E16	4.500	2.594
	AK610.UZ19.E20.006	0.030	E20	3.000	0.969
	AK610.UZ19.E20.025	0.030	E20	4.500	2.468
	AK610.UZ26.E25.006	0.039	E25	3.500	1.217
	AK610.UZ31.E25.063	0.049	E25	6.500	4.217
<p>Cylindrical shaft</p>	AK610.UZ15.E10.051	0.025	E10	6.500	4.594
	AK610.UZ15.E12.061	0.025	E12	7.500	5.594
	AK610.UZ19.E16.076	0.030	E16	7.500	5.468
<p>Cylindrical shaft</p>	AK610.UZ15.E10.038	0.025	E10	5.500	3.594
	AK610.UZ15.E12.021	0.025	E12	6.500	4.594
	AK610.UZ19.E16.021	0.030	E16	6.500	4.468
	AK610.UZ26.E20.040	0.039	E20	6.500	3.717
	AK610.UZ31.E25.042	0.049	E25	7.500	5.217

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

DIN 6535 HA adaptor

AK610



- For ConeFit milling cutter heads
- With solid carbide shank

Tool		Designation	d_1	d_{11}	l_1 mm	l_4 mm	kg
<p>Cylindrical shaft</p>		AK610.Z10.E10.050C	10	E10	100	60	0.1
		AK610.Z12.E12.048C	12	E12	100	55	0.14
		AK610.Z16.E16.080C	16	E16	135	87	0.34
		AK610.Z20.E20.038C	20	E20	95	45	0.34
		AK610.Z20.E20.110C	20	E20	180	130	0.7
		AK610.Z25.E25.120C	25	E25	200	140	1.2
<p>Cylindrical shaft</p>		AK610.Z16.E10.100C	16	E10	155	107	0.3
		AK610.Z16.E12.090C	16	E12	150	102	0.34
		AK610.Z20.E16.118C	20	E16	175	125	0.62

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

DIN 635 HA adaptor

AK610 inch



- For ConeFit milling cutter heads
- With solid carbide shank

Tool	Designation	d_1	d_{11}	l_1 mm	l_4 mm
<p>Cylindrical shaft</p>	AK610.UZ13.E10.051C	1	E10	101.6	56.3
	AK610.UZ13.E12.032C	1	E12	101.6	56.3
	AK610.UZ19.E16.051C	1	E16	139.7	91.3
	AK610.UZ19.E20.044C	1	E20	114.3	62.7
	AK610.UZ31.E25.063C	1	E25	165.1	107.1
<p>Cylindrical shaft</p>	AK610.UZ15.E10.051C	1	E10	165.1	116.7
	AK610.UZ15.E12.061C	1	E12	190.5	142.1
	AK610.UZ19.E16.076C	1	E16	190.5	138.9

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

DIN 69893-1 A adaptor

AK631



– For ConeFit milling cutter heads

Tool		Designation	d_1	d_{11}	l_4 mm	l_{16} mm	kg
		AK631.H63A.E10.049	HSK-A63	E10	49	13.5	0.73
		AK631.H63A.E12.051	HSK-A63	E12	51	15.8	0.74
		AK631.H63A.E16.056	HSK-A63	E16	56	21.3	0.75
		AK631.H63A.E20.053	HSK-A63	E20	53	18.8	0.75
		AK631.H63A.E25.059	HSK-A63	E25	59	25.5	0.79

HSK DIN 69893-1 A

For accessories for HSK, see „Assembly parts and accessories“

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

Accessories		d_1	HSK-A63
	Coolant transfer		FS1064
	Keys		FS952

Walter Capto™ adaptor

AK681



- For ConeFit milling cutter heads
- ISO 26623

Tool	Designation	d ₁	d ₁₁	l ₄ mm	l ₁₆ mm	kg
 <p>Walter Capto™ nach ISO 26623</p>	AK681.C5.E10.042	C5	E10	42	12.8	0.5
	AK681.C5.E12.045	C5	E12	45	16	0.51
	AK681.C5.E16.050	C5	E16	50	21.5	0.53
	AK681.C5.E20.047	C5	E20	47	19	0.52
	AK681.C5.E25.052	C5	E25	52	24.7	0.56
	AK681.C6.E12.049	C6	E12	49	16.3	0.89
	AK681.C6.E16.054	C6	E16	54	21.8	0.9
	AK681.C6.E20.051	C6	E20	51	19.3	0.91
	AK681.C6.E25.056	C6	E25	56	25	0.94

For the tightening torques of ConeFit heads, see „Rotating adaptors/Assembly parts and accessories“

DIN 69893-1 A shell mill arbor

A155...HSK mm



– For milling tools with parallel bore according to DIN 138

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	kg
<p>HSK DIN 69893-1 A</p>	A155.7.100.050.22.HSK	HSK-A100	22	48	69	19	2.47
	A155.7.100.100.22.HSK	HSK-A100	22	48	119	19	3.15
	A155.7.100.050.27.HSK	HSK-A100	27	60	71	21	2.72
	A155.7.100.100.27.HSK	HSK-A100	27	60	121	21	3.78
	A155.7.100.050.32.HSK	HSK-A100	32	78	74	24	3.06
	A155.7.100.100.32.HSK	HSK-A100	32	78	124	24	4.94
	A155.7.100.060.40.HSK	HSK-A100	40/40 B	89	87	27	3.8
	A155.7.100.100.40.HSK	HSK-A100	40/40 B	89	127	27	5.71
	A155.7.100.075.60.HSK	HSK-A100	60/50 B	128	115	40	6.76
	A155.7.100.160.60.HSK	HSK-A100	60/50 B	128	200	40	15.5
	A155.7.063.050.22.HSK	HSK-A63	22	48	69	19	1.12
	A155.7.063.100.22.HSK	HSK-A63	22	48	119	19	1.84
	A155.7.063.060.27.HSK	HSK-A63	27	60	81	21	1.49
	A155.7.063.100.27.HSK	HSK-A63	27	60	21	21	2.37
	A155.7.063.060.32.HSK	HSK-A63	32	78	84	24	1.84
	A155.7.063.100.32.HSK	HSK-A63	32	78	124	24	3.32

*With 4 additional threaded holes for tools with tool connection in accordance with DIN 2079

For accessories for HSK. see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery

Assembly parts

	d_1	HSK-A100–HSK-A63
	DIN 6367 milling cutter tightening screw	FS431

Accessories

	d_1	HSK-A100	HSK-A63
	Key for milling cutter tightening screw	FS437	FS437
	ISO 4762 milling cutter tightening screw	FS939 (SW 8)	FS939 (SW 8)
	ISO 2936 key	ISO2936-8 (SW 8)	ISO2936-8 (SW 8)
	Coolant transfer	FS1065	FS1064
	Keys	FS953	FS952

Strength class with tightening screw 12.9

DIN 69893-1 A shell mill arbor

AK155...HSK



– For milling tools with parallel bore according to DIN 138

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	kg
	AK155.7.100.050.22.HSK	HSK-A100	22	48	69	19	2.4
	AK155.7.100.050.27.HSK	HSK-A100	27	60	71	21	2.64
	AK155.7.100.050.32.HSK	HSK-A100	32	78	74	24	3.5
	AK155.7.100.060.40.HSK	HSK-A100	40	89	87	27	3.7
	AK155.7.063.050.16.HSK	HSK-A63	16	38	67	17	0.92
	AK155.7.063.050.22.HSK	HSK-A63	22	48	69	19	1.07
	AK155.7.063.060.27.HSK	HSK-A63	27	60	81	21	1.45
	AK155.7.063.060.32.HSK	HSK-A63	32	78	84	24	1.77
	AK155.7.063.060.40.HSK	HSK-A63	40	89	87	27	2.14

*With 4 additional threaded holes for tools with tool connection in accordance with DIN 2079
 For accessories for HSK, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts						
	d ₁₁	16	22	27	32	40
	ISO 4762 tightening screw	FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)
Accessories						
	d ₁	HSK-A100		HSK-A63		
	ISO 2936 key	ISO2936-8 (SW 8)		ISO2936-6 (SW 6)		
	Coolant transfer	FS1065		FS1064		
	Keys	FS953		FS952		

Strength class with tightening screw 12.9

DIN 69893-1 A Weldon adaptor

A170...HSK



– For tools with shank in accordance with DIN 1835 Form B

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{16} mm	kg
<p>HSK DIN 69893-1 A</p>	A170.7.100.080.12.HSK	HSK-A100	12	42	80	51	2.55
	A170.7.100.100.16.HSK	HSK-A100	16	48	100	71	2.94
	A170.7.100.100.20.HSK	HSK-A100	20	52	100	71	3.04
	A170.7.100.100.25.HSK	HSK-A100	25	65	100	71	3.56
	A170.7.100.100.32.HSK	HSK-A100	32	72	100	71	3.81
	A170.7.100.105.40.HSK	HSK-A100	40	80	105	76	4.23
	A170.7.063.065.06.HSK	HSK-A63	6	25	65	39	0.8
	A170.7.063.065.08.HSK	HSK-A63	8	28	65	39	0.84
	A170.7.063.065.10.HSK	HSK-A63	10	35	65	39	0.93
	A170.7.063.080.12.HSK	HSK-A63	12	42	80	54	1.18
	A170.7.063.080.16.HSK	HSK-A63	16	48	80	54	1.31
	A170.7.063.080.20.HSK	HSK-A63	20	52	80	54	1.39
	A170.7.063.110.25.HSK	HSK-A63	25	65	110	84	2.37
	A170.7.063.110.32.HSK	HSK-A63	32	72	110	84	2.58

For accessories for HSK, see „Assembly parts and accessories“
Bodies and assembly parts are included in the scope of delivery

Assembly parts	d_{11}	10	12	16	20	25	32-40	6	8
<p>DIN 1835-B clamping screw</p>		FS835	M08X010	M10X012	M12X016 (SW 6)	M14X016	M16X016	M18X2X020	M20X2X020

Accessories	d_1	HSK-A100	HSK-A63
<p>Coolant transfer</p>		FS1065	FS1064
<p>Keys</p>		FS953	FS952

DIN 69893-1 A shrink-fit adaptor

A560.H



– For tools with parallel shank in accordance with DIN 1835 (h6 or better)

Tool		Designation	d_1	d_{11}	d_{14} mm	l_4 mm	l_{16} mm	kg
<p>HSK DIN 69893-1 A</p>		A560.H63A.05.080	HSK-A63	5	14.6	80	45	0.72
		A560.H63A.06.080	HSK-A63	6	16.6	80	45	0.74
		A560.H63A.08.080	HSK-A63	8	20.6	80	45	0.78
		A560.H63A.10.085	HSK-A63	10	25.2	85	50	0.84
		A560.H63A.12.090	HSK-A63	12	29.8	90	55	0.94
		A560.H63A.16.095	HSK-A63	16	35	95	67	1.03
		A560.H63A.20.100	HSK-A63	20	41	100	68	1.19
		A560.H63A.25.115	HSK-A63	25	47.8	115	85	1.46

Balance class: G6.3 where $n = 25,000$ rpm
 For accessories for HSK, see „Assembly parts and accessories“

Assembly parts		d_{11}	10	12	16–25	5	6	8
	Threaded plug		FS1137	FS1138	FS1139	FS1140	FS1141	FS1142 (SW 5)

Accessories		d_1	HSK-A63
	ISO 2936 key		ISO2936-2 (SW 2,5)
	Coolant transfer		FS1064
	Keys		FS952

DIN 69893-1 A hydraulic expansion chuck

AK182.H



– For tools with shank in accordance with DIN 1835 Form A

Tool	Designation	d_1	d_{11}	d_{12} mm	d_{14} mm	l_4 mm	l_{16} mm	l_{17} mm	l_{17min} mm	
	AK182.H100.090.20	HSK-A100	20	52.5	38	90	61	51	41	2.9
	AK182.H100.100.32	HSK-A100	32	72	58.5	100	71	61	51	3.79
	AK182.H63.080.12	HSK-A63	12	42	32	80	34	46	36	1.3
	AK182.H63.080.20	HSK-A63	20	52.5	38	80	54	51	41	1.39

HSK DIN 69893-1 A

For accessories for HSK, see „Assembly parts and accessories“

Accessories	d_{11}	12	20	32
	Sealed reducing sleeve for IK $d = 6$ mm	FS2189	FS2199	FS2222
	Sealed reducing sleeve for IK $d = 8$ mm	FS2190	FS2200	FS2223
	Sealed reducing sleeve for IK $d = 10$ mm	FS2191	FS2201	FS2224
	Sealed reducing sleeve for IK $d = 12$ mm	FS2192	FS2202	FS2225
	Sealed reducing sleeve for IK $d = 14$ mm	FS2193	FS2203	FS2226
	Sealed reducing sleeve for IK $d = 16$ mm		FS2204	FS2227
	Reducing sleeve for PK $d = 3$ mm	FS2194		
	Sealed reducing sleeve for IK $d = 18$ mm		FS2205	FS2228
	Reducing sleeve for PK $d = 4$ mm	FS2195		
	Sealed reducing sleeve for IK $d = 20$ mm		FS2206	FS2229
	Reducing sleeve for PK $d = 5$ mm	FS2196		

IK: internal cooling
PK: peripheral cooling

Accessories		d_{11}	12	20	32
	Sealed reducing sleeve for IK d = 25 mm			FS2207	FS2230
	Reducing sleeve for PK d = 6 mm		FS2197		
	Sealed reducing sleeve for IK d = 12 mm			FS2208	
	Reducing sleeve for PK d = 6 mm		FS2198		FS2231
	Coolant transfer		FS1064		
	Sealed reducing sleeve for IK d = 13 mm			FS2209	
	Reducing sleeve for PK d = 8 mm				FS2232
	Sealed reducing sleeve for IK d = 14 mm			FS2210	
	Reducing sleeve for PK d = 10 mm				FS2233
	Keys		FS952		
	Sealed reducing sleeve for IK d = 15 mm			FS2211	
	Reducing sleeve for PK d = 12 mm				FS2234
	Sealed reducing sleeve for IK d = 16 mm			FS2212	
	Reducing sleeve for PK d = 14 mm				FS2235
	Reducing sleeve for PK d = 16 mm			FS2213	FS2236
	Reducing sleeve for PK d = 18 mm			FS2214	FS2237
	Reducing sleeve for PK d = 20 mm			FS2215	FS2238
	Reducing sleeve for PK d = 25 mm			FS2216	FS2239
	Reducing sleeve for PK d = 8 mm			FS2217	

IK: internal cooling
PK: peripheral cooling

DIN 69893-1 A hydraulic expansion chuck

AK182.H (cont.)

Accessories		d_{11}	12	20	32
	Reducing sleeve for PK $d = 10$ mm			FS2218	
	Reducing sleeve for PK $d = 12$ mm			FS2219	
	Reducing sleeve for PK $d = 14$ mm			FS2220	
	Reducing sleeve for PK $d = 16$ mm			FS2221	
	Coolant transfer			FS1065	FS1065
	Keys			FS953	FS953

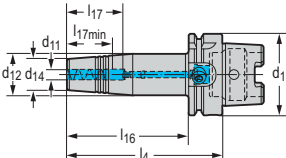
IK: internal cooling
PK: peripheral cooling

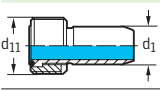
DIN 69893-1 A slim hydraulic expansion chuck

AB019-H mm



– For tools with shank in accordance with DIN 1835 Form A

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₇ mm	l _{17min} mm	kg
 <p>HSK DIN 69893-1 A</p>		AB019-H100-P06-085	HSK-A100	6	27	21	85	56	36.7	26.7	2.2
		AB019-H100-P06-120	HSK-A100	6	27	21	120	91	38.2	28.2	2.3
		AB019-H100-P08-085	HSK-A100	8	27	21	85	56	36.7	26.7	2.2
		AB019-H100-P08-120	HSK-A100	8	27	21	120	91	38.7	28.7	2.3
		AB019-H100-P10-090	HSK-A100	10	32	24	90	61	42.7	32.7	2.2
		AB019-H100-P10-120	HSK-A100	10	32	24	120	91	43.3	33.2	2.4
		AB019-H100-P12-095	HSK-A100	12	32	24	95	66	47.7	37.7	2.2
		AB019-H100-P12-120	HSK-A100	12	32	24	120	91	47.7	37.7	2.4
		AB019-H100-P16-100	HSK-A100	16	34	27	100	71	53.2	43.2	2.3
		AB019-H100-P16-120	HSK-A100	16	34	27	120	91	53.2	43.2	2.4
		AB019-H100-P20-105	HSK-A100	20	42	33	105	76	55.7	45.7	2.5
		AB019-H100-P20-120	HSK-A100	20	42	33	120	91	55.7	45.7	2.6
		AB019-H63-P06-080	HSK-A63	6	27	21	80	54	38.2	28.2	0.87
		AB019-H63-P06-120	HSK-A63	6	27	21	120	94	38.2	28.2	1
		AB019-H63-P08-080	HSK-A63	8	27	21	80	54	38.2	28.2	0.86
		AB019-H63-P08-120	HSK-A63	8	27	21	120	94	38.2	28.2	1
		AB019-H63-P10-085	HSK-A63	10	32	24	85	59	42.7	32.7	0.9
		AB019-H63-P10-120	HSK-A63	10	32	24	120	94	43.2	33.2	1.1
		AB019-H63-P12-090	HSK-A63	12	32	24	90	64	47.7	37.7	0.9
		AB019-H63-P12-120	HSK-A63	12	32	24	120	94	47.7	37.7	1.1
		AB019-H63-P14-090	HSK-A63	14	34	27	90	64	48.7	38.7	0.99
		AB019-H63-P14-120	HSK-A63	14	34	27	120	94	48.7	38.8	1.19
		AB019-H63-P16-095	HSK-A63	16	34	27	95	69	53.2	43.2	1
		AB019-H63-P16-120	HSK-A63	16	34	27	120	94	53.2	43.2	1.16
		AB019-H63-P20-100	HSK-A63	20	42	33	100	74	55.7	45.7	1.18
		AB019-H63-P20-120	HSK-A63	20	42	33	120	94	55.7	45.7	1.39

Accessories		d ₁	HSK-A100	HSK-A63
	Coolant transfer		FS1065	FS1064
	Keys		FS953	FS952

DIN 69893-1 A ER collet chuck

AK300...HSK



– For ER collets in accordance with DIN 6499/ISO15488

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	Collets	kg
		AK300.7.100.100.20.HSK	HSK-A100	1-20	50	100	ER32	2.64
		AK300.7.100.120.26.HSK	HSK-A100	2-26	63	120	ER40	3.14
		AK300.7.063.100.10.HSK	HSK-A63	1-10	28	100	ER16	0.96
		AK300.7.063.100.16.HSK	HSK-A63	1-16	42	100	ER25	1.05
		AK300.7.063.100.20.HSK	HSK-A63	1-20	50	100	ER32	1.21
		AK300.7.063.120.26.HSK	HSK-A63	2-26	63	120	ER40	1.77

HSK DIN 69893-1 A

For collets, see „Assembly parts and accessories“
 For accessories for HSK, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER16	ER25	ER32	ER40
	Clamping nut		FS1537	FS1540	FS1541	FS1542

Accessories		Collets	ER16	ER25	ER32	ER40
	Tensioning key		FS1539	FS1544	FS1545	FS1546
	Coolant transfer		FS1064	FS1064	FS1064	FS1064
	Keys		FS952	FS952	FS952	FS952

DIN 69893-1 A ER collet chuck with internal cooling

AK300...HSK



– For ER collets in accordance with DIN 6499/ISO15488

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	Collets	kg
<p>HSK DIN 69893-1 A</p>		AK300.7.100.105.20.HSK	HSK-A100	1-20	50	105	ER32	2.62
		AK300.7.100.125.26.HSK	HSK-A100	2-26	63	125	ER40	3.19
		AK300.7.063.105.10.HSK	HSK-A63	1-10	28	105	ER16	0.97
		AK300.7.063.105.16.HSK	HSK-A63	1-16	42	105	ER25	1.29
		AK300.7.063.105.20.HSK	HSK-A63	1-20	50	105	ER32	1.24
		AK300.7.063.125.26.HSK	HSK-A63	2-26	63	125	ER40	1.82

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see „Assembly parts and accessories“
 For accessories for HSK, see „Assembly parts and accessories“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER16	ER25	ER32	ER40
	Clamping nut for internal coolant supply		FS1448	FS1449	FS1360	FS1450

Accessories		Collets	ER16	ER25	ER32	ER40
	Tensioning key		FS1539	FS1544	FS1545	FS1546
	Coolant transfer		FS1064	FS1064	FS1064	FS1064
	Keys		FS952	FS952	FS952	FS952

Synchronous thread cutting adaptor

AB035-H



– Integrated minimum compensation in axial and radial directions

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	Collets	kg
 HSK DIN 69893-1 A		AB035-H100-ER20-115	HSK-A100	M4-M12	34	145	ER20	2.52
		AB035-H100-ER25-134	HSK-A100	M8-M20	42	134	ER25	2.94
		AB035-H100-ER40-164	HSK-A100	M16-M30	63	163	ER40	4.36
		AB035-H63-ER20-108	HSK-A63	M4-M12	34	108	ER20	1.1
		AB035-H63-ER25-128	HSK-A63	M8-M20	42	128	ER25	1.46
		AB035-H63-ER40-160	HSK-A63	M16-M30	63	160	ER40	3.8

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery


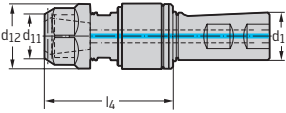
Assembly parts		Collets	ER20	ER25	ER40
	Clamping nut for internal coolant supply		FS1359	FS1449	FS1450
	Tensioning key		FS2553	FS1544	FS1546

Synchronous thread cutting adaptor

AB035-W



– Integrated minimum compensation in axial and radial directions




Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	Collets	
		AB035-W25-ER11-052	25	M2-M5	19	52	ER11	0.43
		AB035-W25-ER20-069	25	M4-M12	34	69	ER20	0.76
		AB035-W25-ER25-088	25	M8-M20	42	88	ER25	1.3

DIN 6535 HE, turned 180° DIN 6535 HB

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used
The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER11	ER20	ER25
	Clamping nut for internal coolant supply		FS2556	FS1359	FS1449
	Clamping nut for internal coolant supply		FS2557		
	Tensioning key		FS2554	FS2553	FS1544

FS2556 corresponds to ER11-4.5
FS2557 corresponds to ER11-6

SK shell mill arbor

A155.S mm



- For milling tools with parallel bore according to DIN 138
- ISO 7388-1

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	d ₁₃	kg
 SK DIN 69871 AD/B	A155.S50.100.22	SK50	22	48	119	19	M24	4.03
	A155.S50.100.27	SK50	27	60	121	21	M24	4.67
	A155.S50.035.32	SK50	32	78	69	24	M24	3.57
	A155.S50.100.32	SK50	32	78	124	24	M24	5.95
	A155.S50.050.40	SK50	40/40 B	89	77	27	M24	4.35
	A155.S50.100.40	SK50	40/40 B	89	127	27	M24	6.75
	A155.S50.070.60	SK50	60/50 B	127	110	40	M24	7.76

*With 4 additional threaded holes for tools with tool connection in accordance with DIN 2079
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁	SK50
	DIN 6367 milling cutter tightening screw		FS433
Accessories		d ₁	SK50
	Key for milling cutter tightening screw		FS439
	ISO 4762 milling cutter tightening screw		FS941 (SW 14)
	ISO 2936 key		ISO2936-14 (SW 14)

Strength class with tightening screw 12.9

SK shell mill arbor

AK155.S



- For milling tools with parallel bore according to DIN 138
- ISO 7388-1

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	d ₁₃	kg
<p>SK DIN 69871 AD/B</p>		AK155.S40.035.16	SK40	16	36	52	17	M16	1
		AK155.S40.035.22	SK40	22	48	54	19	M16	1.12
		AK155.S40.035.27	SK40	27	48	56	21	M16	1.17
		AK155.S40.050.32	SK40	32	78	74	24	M16	1.8
		AK155.S50.035.16	SK50	16	36	52	17	M24	2.93
		AK155.S50.035.22	SK50	22	48	54	19	M24	3.06
		AK155.S50.035.27	SK50	27	60	56	21	M24	3.23
		AK155.S50.035.32	SK50	32	78	59	24	M24	3.51

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁	SK40-SK50
	ISO 4762 tightening screw		FS938 (SW 6)
Accessories		d ₁	SK40-SK50
	ISO 2936 key		ISO2936-6 (SW 6)

Strength class with tightening screw 12.9

MAS-BT JIS B 6339 shell mill arbor

A155.BT



- For milling tools with parallel bore according to DIN 138
- ISO 7388-2

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	d ₁₃	kg
<p>JIS B 6339</p>	A155.BT40.035.16	BT40	16	36	52	17	M16	1.11
	A155.BT40.100.16	BT40	16	36	117	17	M16	1.57
	A155.BT40.035.22	BT40	22	48	54	19	M16	1.2
	A155.BT40.100.22	BT40	22	48	119	19	M16	2.07
	A155.BT40.035.27	BT40	27	48	56	21	M16	1.25
	A155.BT40.100.27	BT40	27	60	121	21	M16	2.65
	A155.BT40.065.32	BT40	32	78	89	24	M16	2.34
	A155.BT50.055.22	BT50	22	48	74	19	M24	4.05
	A155.BT50.100.22	BT50	22	48	119	19	M24	4.74
	A155.BT50.055.27	BT50	27	60	73	21	M24	4.28
	A155.BT50.100.27	BT50	27	60	121	21	M24	5.26
	A155.BT50.055.32	BT50	32	78	79	24	M24	4.63
	A155.BT50.100.32	BT50	32	78	124	24	M24	6.3
	A155.BT50.055.40	BT50	40/40 B	89	72	27	M24	4.89
	A155.BT50.080.60	BT50	60/50 B	127	120	40	M24	8.1

*With 4 additional threaded holes for tools with tool connection in accordance with DIN 2079
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts			
	d ₁	BT40	BT50
	DIN 6367 milling cutter tightening screw	FS430	FS431
Accessories			
	d ₁	BT40	BT50
	Key for milling cutter tightening screw	FS436	FS437
	ISO 4762 milling cutter tightening screw	FS938 (SW 6)	FS939 (SW 8)
	ISO 2936 key	ISO2936-6 (SW 6)	ISO2936-8 (SW 8)

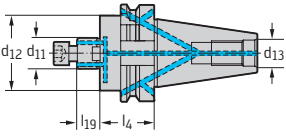
Strength class with tightening screw 12.9

MAS-BT JIS B 6339 shell mill arbor



AK155.BT



- For milling tools with parallel bore according to DIN 138
- ISO 7388-2

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	d_{13}	kg
 <p>JIS B 6339</p>		AK155.BT40.035.16	BT40	16	36	52	17	M16	1.11
		AK155.BT40.035.22	BT40	22	48	54	19	M16	1.18
		AK155.BT40.035.27	BT40	27	48	56	21	M16	1.23
		AK155.BT40.065.32	BT40	32	78	89	24	M16	2.31
		AK155.BT50.055.16	BT50	16	36	72	17	M24	3.94
		AK155.BT50.055.22	BT50	22	48	74	19	M24	4.08
		AK155.BT50.055.27	BT50	27	60	76	21	M24	4.26
		AK155.BT50.055.32	BT50	32	78	79	24	M24	4.58

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_1	BT40–BT50
	ISO 4762 tightening screw		FS938 (SW 6)
Accessories		d_1	BT40–BT50
	ISO 2936 key		ISO2936-6 (SW 6)

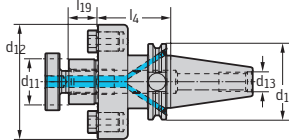
Strength class with tightening screw 12.9

ASME CAT shell end milling cutter arbor

AB001.K inch



– For milling tools with parallel bore according to DIN 138

Tool	Designation	d_1	d_{11}	d_{12} inch	l_4 inch	l_{19} inch	d_{13}
 <p>ASME B 5.50</p>	AB001.K40-B19-038	CAT40	0.750	1.750	2.187	0.687	5/8"-11
	AB001.K40-B26-051	CAT40	1.000	2.250	2.687	0.687	5/8"-11
	AB001.K40-B31-102	CAT40	1.250	2.750	4.687	0.687	5/8"-11
	AB001.K40-B38-061	CAT40	1.500	3.750	3.337	0.937	5/8"-11
	AB001.K50-B19-038	CAT50	0.750	2.750	2.187	0.687	1"-8
	AB001.K50-B26-051	CAT50	1.000	2.250	2.687	0.687	1"-8
	AB001.K50-B26-102	CAT50	1.000	2.250	4.687	0.687	1"-8
	AB001.K50-B31-038	CAT50	1.250	2.750	2.187	0.687	1"-8
	AB001.K50-B38-061	CAT50	1.500	3.750	3.337	0.937	1"-8
	AB001.K50-B38-102	CAT50	1.500	3.750	4.937	0.937	1"-8
	AB001.K50-B63-061	CAT50	2.000	4.875	3.525	1.125	1"-8

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

DIN SK Weldon adaptor

AK170.S mm



- For tools with shank in accordance with DIN 1835 Form B
- ISO 7388-1

Tool	Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{16} mm	d_{13}	kg
<p>SK DIN 69871 AD/B</p>	AK170.S40.050.06	SK40	6	25	50	31	M16	0.94
	AK170.S40.050.08	SK40	8	28	50	31	M16	0.96
	AK170.S40.050.10	SK40	10	35	50	31	M16	1.01
	AK170.S40.050.12	SK40	12	42	50	31	M16	1.1
	AK170.S40.063.16	SK40	16	48	63	44	M16	1.32
	AK170.S40.063.20	SK40	20	52	63	44	M16	1.32
	AK170.S40.100.25	SK40	25	65	100	81	M16	2.37
	AK170.S40.100.32	SK40	32	72	100	81	M16	2.58
	AK170.S50.063.06	SK50	6	25	63	44	M24	2.91
	AK170.S50.063.08	SK50	8	28	63	44	M24	2.94
	AK170.S50.063.10	SK50	10	35	63	44	M24	3.04
	AK170.S50.063.12	SK50	12	42	63	44	M24	3.17
	AK170.S50.063.16	SK50	16	48	63	44	M24	3.22
	AK170.S50.063.20	SK50	20	52	63	44	M24	3.3
	AK170.S50.080.25	SK50	25	65	80	59	M24	3.99
	AK170.S50.100.32	SK50	32	72	100	81	M24	4.78
	AK170.S50.100.40	SK50	40	78	100	81	M24	4.84

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts	
d_1	SK40-SK50
DIN 1835-B clamping screw	FS835

MAS-BT JIS B 6339 Weldon adaptor

AK170.BT



- For tools with shank in accordance with DIN 1835 Form B
- ISO 7388-2

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₆ mm	d ₁₃	kg
<p>JIS B 6339</p>		AK170.BT40.050.08	BT40	8	28	50	23	M16	1.09
		AK170.BT40.063.10	BT40	10	35	63	36	M16	1.21
		AK170.BT40.063.12	BT40	12	42	63	36	M16	1.31
		AK170.BT40.063.14	BT40	14	44	63	36	M16	1.33
		AK170.BT40.063.16	BT40	16	48	63	36	M16	1.38
		AK170.BT40.063.18	BT40	18	50	63	36	M16	1.4
		AK170.BT40.063.20	BT40	20	52	63	36	M16	1.4
		AK170.BT40.090.25	BT40	25	59	90	63	M16	1.99
		AK170.BT40.100.32	BT40	32	72	100	73	M16	2.44
		AK170.BT50.063.06	BT50	6	25	63	25	M24	3.86
		AK170.BT50.070.10	BT50	10	35	70	32	M24	3.97
		AK170.BT50.080.12	BT50	12	42	80	42	M24	4.15
		AK170.BT50.080.16	BT50	16	48	80	42	M24	4.24
		AK170.BT50.080.20	BT50	20	52	80	42	M24	4.27
		AK170.BT50.100.25	BT50	25	65	100	59	M24	5
		AK170.BT50.105.32	BT50	32	72	105	63	M24	5.35
		AK170.BT50.115.40	BT50	40	78	115	75	M24	5.72

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts		
d ₁	BT40	BT50
DIN 1835-B clamping screw	M08X010	FS835

ASME CAT Weldon shank adaptor

AB044.K inch



– For tools with shank in accordance with DIN 1835 Form B

Tool	Designation	d_1	d_{11}	l_4 inch	d_{13}
<p>ASME B 5.50</p>	AB044.K40-W07-064	CAT40	0.250	2.500	5/8"-11
	AB044.K40-W09-044	CAT40	0.375	1.750	5/8"-11
	AB044.K40-W09-064	CAT40	0.375	2.500	5/8"-11
	AB044.K40-W13-044	CAT40	0.500	1.750	5/8"-11
	AB044.K40-W13-067	CAT40	0.500	2.62	5/8"-11
	AB044.K40-W15-044	CAT40	0.625	1.750	5/8"-11
	AB044.K40-W15-070	CAT40	0.625	2.750	5/8"-11
	AB044.K40-W19-044	CAT40	0.750	1.750	5/8"-11
	AB044.K40-W19-089	CAT40	0.750	3.500	5/8"-11
	AB044.K40-W26-044	CAT40	1.000	1.750	5/8"-11
	AB044.K40-W26-102	CAT40	1.000	4.000	5/8"-11
	AB044.K40-W31-102	CAT40	1.250	4.000	5/8"-11
	AB044.K40-W39-102	CAT40	1.500	4.000	5/8"-11
	AB044.K50-W13-067	CAT50	0.500	2.625	1"-8
	AB044.K50-W15-095	CAT50	0.625	3.750	1"-8
	AB044.K50-W19-095	CAT50	0.750	3.750	1"-8
	AB044.K50-W26-102	CAT50	1.000	4.000	1"-8
	AB044.K50-W31-102	CAT50	1.250	4.000	1"-8
	AB044.K50-W39-102	CAT50	1.500	4.000	1"-8
	AB044.K50-W51-143	CAT50	2.000	5.625	1"-8

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

DIN SK hydraulic expansion chuck

AK182.S mm



– For tools with shank in accordance with DIN 1835 Form A
– ISO 7388-1

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₇ mm	l _{17min} mm	d ₁₃	kg
	AK182.S40.050.12	SK40	12	42	32	50	31	46	36	M16	1.1
	AK182.S40.065.20	SK40	20	49.3	38	64.5	45.5	51	41	M16	1.32
	AK182.S50.065.20	SK50	20	49.3	38	64.5	45.5	51	41	M24	3.16
	AK182.S50.081.32	SK50	32	72	58.5	81	62	61	51	M24	4.1

SK DIN 69871 AD/B

Form AD is delivered. To convert to Form B, remove both threaded plugs.
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Accessories	d ₁₁	12			20		32	
			FS2189		FS2199		FS2222	
			FS2190		FS2200		FS2223	
			FS2191		FS2201		FS2224	
			FS2192		FS2202		FS2225	
			FS2193		FS2203		FS2226	
					FS2204		FS2227	
			FS2194					
					FS2205		FS2228	
			FS2195					
					FS2206		FS2229	
			FS2196					

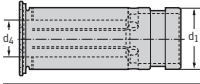
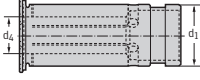
IK: internal cooling
PK: peripheral cooling

Accessories				
	d ₁₁	12	20	32
	Sealed reducing sleeve for IK d = 25 mm		FS2207	FS2230
	Reducing sleeve for PK d = 6 mm	FS2197		
	Sealed reducing sleeve for IK d = 12 mm		FS2208	
	Reducing sleeve for PK d = 6 mm	FS2198		FS2231
	Sealed reducing sleeve for IK d = 13 mm		FS2209	
	Reducing sleeve for PK d = 8 mm			FS2232
	Sealed reducing sleeve for IK d = 14 mm		FS2210	
	Reducing sleeve for PK d = 10 mm			FS2233
	Sealed reducing sleeve for IK d = 15 mm		FS2211	
	Reducing sleeve for PK d = 12 mm			FS2234
	Sealed reducing sleeve for IK d = 16 mm		FS2212	
	Reducing sleeve for PK d = 14 mm			FS2235
	Reducing sleeve for PK d = 16 mm		FS2213	FS2236
	Reducing sleeve for PK d = 18 mm		FS2214	FS2237
	Reducing sleeve for PK d = 20 mm		FS2215	FS2238
	Reducing sleeve for PK d = 25 mm		FS2216	FS2239
	Reducing sleeve for PK d = 8 mm		FS2217	
	Reducing sleeve for PK d = 10 mm		FS2218	
	Reducing sleeve for PK d = 12 mm		FS2219	

IK: internal cooling
 PK: peripheral cooling

DIN SK hydraulic expansion chuck

AK182.S (cont.)

Accessories				
	d_{11}	12	20	32
	Reducing sleeve for PK $d = 14$ mm		FS2220	
	Reducing sleeve for PK $d = 16$ mm		FS2221	

IK: internal cooling
 PK: peripheral cooling

MAS-BT JIS B 6339 hydraulic expansion chuck

AK182.BT



- For tools with shank in accordance with DIN 1835 Form A
- ISO 7388-2

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	d ₁₄ mm	l ₄ mm	l ₁₆ mm	l ₁₇ mm	l _{17min} mm	d ₁₃	kg
	AK182.BT30.069.12	BT30	12	42	32	69	31	46	36	M12	0.85
	AK182.BT30.090.20	BT30	20	42	38	90	51	51	41	M12	0.99
	AK182.BT40.058.12	BT40	12	42	32	58	31	46	36	M16	1.25
	AK182.BT40.072.20	BT40	20	49.3	38	72.5	45.5	51	41	M16	1.48
	AK182.BT50.084.20	BT50	20	49.3	38	83.5	45.5	51	41	M24	4.15
	AK182.BT50.090.32	BT50	32	72	58.5	90	52	61	51	M24	4.78

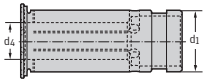
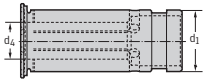
Form AD is delivered. To convert to Form B, remove both threaded plugs.
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Accessories	d ₁₁	12			20		32	
	Sealed reducing sleeve for IK d = 6 mm		FS2189		FS2199		FS2222	
	Sealed reducing sleeve for IK d = 8 mm		FS2190		FS2200		FS2223	
	Sealed reducing sleeve for IK d = 10 mm		FS2191		FS2201		FS2224	
	Sealed reducing sleeve for IK d = 12 mm		FS2192		FS2202		FS2225	
	Sealed reducing sleeve for IK d = 14 mm		FS2193		FS2203		FS2226	
	Sealed reducing sleeve for IK d = 16 mm				FS2204		FS2227	
	Reducing sleeve for PK d = 3 mm		FS2194					
	Sealed reducing sleeve for IK d = 18 mm				FS2205		FS2228	
	Reducing sleeve for PK d = 4 mm		FS2195					
	Sealed reducing sleeve for IK d = 20 mm				FS2206		FS2229	
	Reducing sleeve for PK d = 5 mm		FS2196					

IK: internal cooling
 PK: peripheral cooling

Accessories		d_{11}	12	20	32
	Sealed reducing sleeve for IK d = 25 mm			FS2207	FS2230
	Reducing sleeve for PK d = 6 mm		FS2197		
	Sealed reducing sleeve for IK d = 12 mm			FS2208	
	Reducing sleeve for PK d = 6 mm		FS2198		FS2231
	Sealed reducing sleeve for IK d = 13 mm			FS2209	
	Reducing sleeve for PK d = 8 mm				FS2232
	Sealed reducing sleeve for IK d = 14 mm			FS2210	
	Reducing sleeve for PK d = 10 mm				FS2233
	Sealed reducing sleeve for IK d = 15 mm			FS2211	
	Reducing sleeve for PK d = 12 mm				FS2234
	Sealed reducing sleeve for IK d = 16 mm			FS2212	
	Reducing sleeve for PK d = 14 mm				FS2235
	Reducing sleeve for PK d = 16 mm			FS2213	FS2236
	Reducing sleeve for PK d = 18 mm			FS2214	FS2237
	Reducing sleeve for PK d = 20 mm			FS2215	FS2238
	Reducing sleeve for PK d = 25 mm			FS2216	FS2239
	Reducing sleeve for PK d = 8 mm			FS2217	
	Reducing sleeve for PK d = 10 mm			FS2218	
	Reducing sleeve for PK d = 12 mm			FS2219	

IK: internal cooling
PK: peripheral cooling

Accessories		d_{11}	12	20	32
	Reducing sleeve for PK $d = 14$ mm			FS2220	
	Reducing sleeve for PK $d = 16$ mm			FS2221	

IK: internal cooling
PK: peripheral cooling

ASME CAT hydraulic expansion chuck

AK182.CAT mm



– For tools with shank in accordance with DIN 1835 Form A

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	d ₁₄ mm	l ₄ mm	l ₆ mm	l ₇ mm	l _{7min} mm	d ₁₃	kg
	AK182.CAT40.065.20	CAT40	20	49.3	38	64.5	45.5	51	41	5/8"-11	1.34
	AK182.CAT50.081.32	CAT50	32	72	58.5	81	62	61	51	1"-8	4.1

ASME B 5.50

Form AD is delivered. To convert to Form B, remove both threaded plugs.
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Accessories	d ₁	CAT40	CAT50
	Sealed reducing sleeve for IK d = 6 mm	FS2199	FS2222
	Sealed reducing sleeve for IK d = 8 mm	FS2200	FS2223
	Sealed reducing sleeve for IK d = 10 mm	FS2201	FS2224
	Sealed reducing sleeve for IK d = 12 mm	FS2202	FS2225
	Sealed reducing sleeve for IK d = 14 mm	FS2203	FS2226
	Sealed reducing sleeve for IK d = 16 mm	FS2204	FS2227
	Sealed reducing sleeve for IK d = 18 mm	FS2205	FS2228
	Sealed reducing sleeve for IK d = 20 mm	FS2206	FS2229
	Sealed reducing sleeve for IK d = 25 mm	FS2207	FS2230
	Sealed reducing sleeve for IK d = 12 mm	FS2208	
	Reducing sleeve for PK d = 6 mm		FS2231
	Sealed reducing sleeve for IK d = 13 mm	FS2209	

Accessories		CAT40	CAT50
	Reducing sleeve for PK d = 8 mm		FS2232
	Sealed reducing sleeve for IK d = 14 mm	FS2210	
	Reducing sleeve for PK d = 10 mm		FS2233
	Sealed reducing sleeve for IK d = 15 mm	FS2211	
	Reducing sleeve for PK d = 12 mm		FS2234
	Sealed reducing sleeve for IK d = 16 mm	FS2212	
	Reducing sleeve for PK d = 14 mm		FS2235
	Reducing sleeve for PK d = 16 mm	FS2213	FS2236
	Reducing sleeve for PK d = 18 mm	FS2214	FS2237
	Reducing sleeve for PK d = 20 mm	FS2215	FS2238
	Reducing sleeve for PK d = 25 mm	FS2216	FS2239
	Reducing sleeve for PK d = 8 mm	FS2217	
	Reducing sleeve for PK d = 10 mm	FS2218	
	Reducing sleeve for PK d = 12 mm	FS2219	
	Reducing sleeve for PK d = 14 mm	FS2220	
	Reducing sleeve for PK d = 16 mm	FS2221	

DIN 69871 A ER collet chuck

AK300.S



– For ER collets in accordance with DIN 6499/ISO15488
 – ISO 7388-1

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	d ₁₃	Collets	
	AK300.S40.070.ER16	SK40	1-10	28	70	M16	ER16	1.17
	AK300.S40.100.ER16	SK40	1-10	28	100	M16	ER16	1.32
	AK300.S40.100.ER20	SK40	1-13	34	100	M16	ER20	1.25
	AK300.S40.070.ER25	SK40	1-16	42	70	M16	ER25	1.15
	AK300.S40.100.ER25	SK40	1-16	42	100	M16	ER25	1.71
	AK300.S40.070.ER32	SK40	1-20	50	70	M16	ER32	1.2
	AK300.S40.100.ER32	SK40	1-20	50	100	M16	ER32	1.58
	AK300.S50.100.ER20	SK50	1-13	34	100	M24	ER20	3.22
	AK300.S50.070.ER25	SK50	1-16	42	70	M24	ER25	3.08
	AK300.S50.100.ER25	SK50	1-16	42	100	M24	ER25	3.43
	AK300.S50.070.ER32	SK50	1-20	50	70	M24	ER32	3.15
	AK300.S50.100.ER32	SK50	1-20	50	100	M24	ER32	3.6
	AK300.S50.070.ER40	SK50	2-26	63	70	M24	ER40	3.23
	AK300.S50.100.ER40	SK50	2-26	63	100	M24	ER40	4.01

For collets, see „Assembly parts and accessories“

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Bodies and assembly parts are included in the scope of delivery

Assembly parts		ER16	ER20	ER25	ER32	ER40
	Collets					
	Clamping nut	FS1537	FS2183	FS1540	FS1541	FS1542
Accessories		ER16	ER20	ER25	ER32	ER40
	Collets					
	Tensioning key	FS1539	FS1539	FS1544	FS1545	FS1546

DIN SK ER collet chuck with internal cooling

AK300.S



- For ER collets in accordance with DIN 6499/ISO15488
- ISO 7388-1

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	d ₁₃	Collets	kg
<p>SK DIN 69871 AD/B</p>	AK300.S40.105.ER16	SK40	1-10	28	105	M16	ER16	1.12
	AK300.S40.105.ER20	SK40	1-13	34	105	M16	ER20	1.24
	AK300.S40.075.ER25	SK40	1-16	42	75	M16	ER25	1.19
	AK300.S40.105.ER25	SK40	1-16	42	105	M16	ER25	1.48
	AK300.S40.075.ER32	SK40	1-20	50	75	M16	ER32	1.23
	AK300.S40.105.ER32	SK40	1-20	50	105	M16	ER32	1.62
	AK300.S50.105.ER25	SK50	1-16	42	105	M24	ER25	3.47
	AK300.S50.075.ER32	SK50	1-20	50	75	M24	ER32	3.17
	AK300.S50.105.ER32	SK50	1-20	50	105	M24	ER32	3.62
	AK300.S50.105.ER40	SK50	2-26	63	105	M24	ER40	6

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used
 The clamping nut can be damaged if the chuck is used without a sealing disc.
 For collets, see „Assembly parts and accessories“
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 Bodies and assembly parts are included in the scope of delivery

Assembly parts		ER16	ER20	ER25	ER32	ER40
	Clamping nut for internal coolant supply	FS1448	FS1359	FS1449	FS1360	FS1450

Accessories		ER16	ER20	ER25	ER32	ER40
	Tensioning key	FS1539	FS1539	FS1544	FS1545	FS1546

MAS-BT JIS B 6339 ER collet chuck

AK300.BT



– For ER collets in accordance with DIN 6499/ISO15488
– ISO 7388-2

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	d ₁₃	Collets	kg
<p>JIS B 6339</p>		AK300.BT40.070.ER16	BT40	1-10	28	70	M16	ER16	1.13
		AK300.BT40.100.ER16	BT40	1-10	28	100	M16	ER16	1.25
		AK300.BT40.070.ER20	BT40	1-13	34	70	M16	ER20	1.18
		AK300.BT40.100.ER20	BT40	1-13	34	100	M16	ER20	1.36
		AK300.BT40.070.ER25	BT40	1-16	42	70	M16	ER25	1.23
		AK300.BT40.100.ER25	BT40	1-16	42	100	M16	ER25	1.54
		AK300.BT40.070.ER32	BT40	1-20	50	70	M16	ER32	1.26
		AK300.BT40.100.ER32	BT40	1-20	50	100	M16	ER32	1.65
		AK300.BT40.070.ER40	BT40	2-26	63	70	M16	ER40	1.35
		AK300.BT40.100.ER40	BT40	2-26	63	100	M16	ER40	1.8
		AK300.BT50.100.ER20	BT50	1-13	34	100	M24	ER20	4.11
		AK300.BT50.070.ER25	BT50	1-16	42	70	M24	ER25	4
		AK300.BT50.100.ER25	BT50	1-16	42	100	M24	ER25	4.3
		AK300.BT50.070.ER32	BT50	1-20	50	70	M24	ER32	3.91
		AK300.BT50.100.ER32	BT50	1-20	50	100	M24	ER32	4.34
		AK300.BT50.080.ER40	BT50	2-26	63	80	M24	ER40	4.09
		AK300.BT50.100.ER40	BT50	2-26	63	100	M24	ER40	6

For collets, see „Assembly parts and accessories“
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

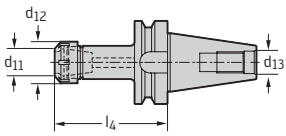
Assembly parts		Collets	ER16	ER20	ER25	ER32	ER40
	Clamping nut		FS1537	FS2183	FS1540	FS1541	FS1542
Accessories		Collets	ER16	ER20	ER25	ER32	ER40
	Tensioning key		FS1539	FS1539	FS1544	FS1545	FS1546

MAS-BT JIS B 6339 ER collet chuck with internal cooling


AK300.BT




– For ER collets in accordance with DIN 6499/ISO15488
– ISO 7388-2

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	d ₁₃	Collets	kg
 <p>JIS B 6339</p>		AK300.BT40.105.ER16	BT40	1-10	28	105	M16	ER16	1.26
		AK300.BT40.105.ER20	BT40	1-13	34	105	M16	ER20	1.39
		AK300.BT40.075.ER25	BT40	1-16	42	75	M16	ER25	1.27
		AK300.BT40.105.ER25	BT40	1-16	42	105	M16	ER25	1.57
		AK300.BT40.075.ER32	BT40	1-20	50	75	M16	ER32	1.29
		AK300.BT40.105.ER32	BT40	1-20	50	105	M16	ER32	1.68
		AK300.BT40.075.ER40	BT40	2-26	63	75	M16	ER40	1.41
		AK300.BT40.105.ER40	BT40	2-26	63	105	M16	ER40	1.86
		AK300.BT50.105.ER20	BT50	1-13	34	105	M24	ER20	4.15
		AK300.BT50.105.ER25	BT50	1-16	42	105	M24	ER25	4.3
		AK300.BT50.075.ER32	BT50	1-20	50	75	M24	ER32	3.93
		AK300.BT50.105.ER32	BT50	1-20	50	105	M24	ER32	4.4
		AK300.BT50.105.ER40	BT50	2-26	63	105	M24	ER40	4.63

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used
The clamping nut can be damaged if the chuck is used without a sealing disc.
For collets, see „Assembly parts and accessories“
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts		Collets	ER16	ER20	ER25	ER32	ER40
	Clamping nut for internal coolant supply		FS1448	FS1359	FS1449	FS1360	FS1450


Accessories		Collets	ER16	ER20	ER25	ER32	ER40
	Tensioning key		FS1539	FS1539	FS1544	FS1545	FS1546

ASME CAT ER collet chuck

AB009.K



– For ER collets in accordance with DIN 6499/ISO15488

Tool	Designation	d ₁	d ₁₁	l ₄ mm	d ₁₃	Collets	 kg
ASME B 5.50	AB009.K40-ER16-067	CAT40	1-10	66.5	5/8"-11	ER16	0.98
	AB009.K40-ER16-105	CAT40	1-10	104.6	5/8"-11	ER16	1.25
	AB009.K40-ER20-105	CAT40	1-13	104.6	5/8"-11	ER20	1.32
	AB009.K40-ER20-156	CAT40	1-13	155.4	5/8"-11	ER20	1.59
	AB009.K40-ER25-105	CAT40	1-16	104.6	5/8"-11	ER25	1.48
	AB009.K40-ER32-079	CAT40	1-20	79.2	5/8"-11	ER32	1.25
	AB009.K40-ER32-105	CAT40	1-20	104.6	5/8"-11	ER32	1.5
	AB009.K40-ER40-105	CAT40	2-26	104.6	5/8"-11	ER40	1.8
	AB009.K50-ER20-105	CAT50	1-13	104.6	1"-8	ER20	3.41
	AB009.K50-ER25-105	CAT50	1-16	104.6	1"-8	ER25	3.59
	AB009.K50-ER32-105	CAT50	1-20	104.6	1"-8	ER32	3.72
	AB009.K50-ER40-105	CAT50	2-26	104.6	1"-8	ER40	3.93

If collet chucks are used for the internal coolant supply, the sealing discs under „Assembly parts and accessories“ must be used

The clamping nut can be damaged if the chuck is used without a sealing disc.

For collets, see „Assembly parts and accessories“

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

HSK adaptor – Vibration-damped

AC001-H

Accure-tec



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool		Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	kg
<p>HSK DIN 69893-1 A</p>		AC001-H100-B22-210	HSK-A100	22	48	210	19	4.8
		AC001-H100-B27-260	HSK-A100	27	60	260	21	7.92
		AC001-H100-B32-330	HSK-A100	32	78	330	24	14.42
		AC001-H100-B40-350	HSK-A100	40	89	350	27	19.34
		AC001-H63-B16-160	HSK-A63	16	38	160	17	2.4
		AC001-H63-B22-210	HSK-A63	22	48	210	19	3.54
		AC001-H63-B27-260	HSK-A63	27	60	260	21	6.56

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d ₁₁	16	22	27	32	40
	ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories		d ₁₁	16	22	27	32	40
	ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)
	Coolant transfer		FS1064	FS1065	FS1065	FS1065	FS1065
	Keys		FS952	FS953	FS953	FS953	FS953

Strength class with tightening screw 12.9

SK adaptor – Vibration-damped

AC001-S

Accure-tec



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	d ₁₃	kg
 SK DIN 69871 AD/B	AC001-S40-B16-160	SK40	16	38	160	17	M16	2.12
	AC001-S40-B22-210	SK40	22	48	210	19	M16	3.74
	AC001-S50-B22-210	SK50	22	48	210	19	M24	5.36
	AC001-S50-B27-260	SK50	27	60	260	21	M24	8.52
	AC001-S50-B32-330	SK50	32	78	330	24	M24	14.96
	AC001-S50-B40-350	SK50	40	89	350	27	M24	20.36

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts	d ₁₁	16	22	27	32	40
 ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories	d ₁₁	16	22	27	32	40
 ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9


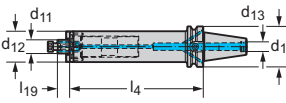
MAS-BT adaptor – Vibration-damped

AC001-J


Accure-tec




- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	d_{13}	
 JIS B 6339 AD/B		AC001-J40-B16-160	BT40	16	38	160	17	M16	2.22
		AC001-J40-B22-210	BT40	22	48	210	19	M16	3.78
		AC001-J40-B27-260	BT40	27	60	260	21	M16	6.86
		AC001-J50-B22-210	BT50	22	48	210	19	M24	6.08
		AC001-J50-B27-260	BT50	27	60	260	21	M24	9.06
		AC001-J50-B32-330	BT50	32	78	330	24	M24	15.34
		AC001-J50-B40-350	BT50	40	89	350	27	M24	20.7

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_{11}	16	22	27	32	40
	ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories		d_{11}	16	22	27	32	40
	ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9

CAT-V adaptor – Vibration-damped

AC001.K inch



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d_1	d_{11}	l_4 inch	d_{13}
<p>ASME B 5.50</p>	AC001.K40-B19-191	CAT40	0.750	7.500	5/8"-11
	AC001.K40-B26-229	CAT40	1.000	9.000	5/8"-11
	AC001.K50-B19-191	CAT50	0.750	7.500	1"-8
	AC001.K50-B26-229	CAT50	1.000	9.000	1"-8
	AC001.K50-B38-349	CAT50	1.500	13.750	1"-8

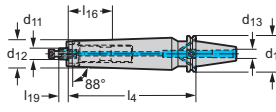
For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

CAT-V adaptor, conical – vibration-damped

AC001.K inch



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d_1	d_{11}	l_4 inch	d_{13}
 <p>ASME B 5.50</p>	AC001.K40-B19-229	CAT40	0,750	9,000	5/8"-11
	AC001.K50-B19-229	CAT50	0,750	9,000	1"-8
	AC001.K50-B26-305	CAT50	1,000	12,000	1"-8

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Walter Capto™ adaptor – vibration damped

AC001-C

Accure-tec



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	kg
	AC001-C6-B16-160	C6	16	38	160	17	2.12
	AC001-C6-B22-210	C6	22	48	210	19	3.64
	AC001-C6-B27-260	C6	27	60	260	21	6.78
	AC001-C8-B22-210	C8	22	48	210	19	4.54
	AC001-C8-B27-260	C8	27	60	260	21	7.62
	AC001-C8-B32-330	C8	32	78	330	24	14.4
	AC001-C8-B40-350	C8	40	89	350	27	18.99

Bodies and assembly parts are included in the scope of delivery

Assembly parts	d ₁₁	16	22	27	32	40
ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories	d ₁₁	16	22	27	32	40
ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9

HSK adaptor – Vibration-damped

AC001-H

Accure-tec



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	kg
<p>HSK DIN 69893-1 A</p>		AC001-H100-B22-210	HSK-A100	22	48	210	19	4.8
		AC001-H100-B27-260	HSK-A100	27	60	260	21	7.92
		AC001-H100-B32-330	HSK-A100	32	78	330	24	14.42
		AC001-H100-B40-350	HSK-A100	40	89	350	27	19.34
		AC001-H63-B16-160	HSK-A63	16	38	160	17	2.4
		AC001-H63-B22-210	HSK-A63	22	48	210	19	3.54
		AC001-H63-B27-260	HSK-A63	27	60	260	21	6.56

Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_{11}	16	22	27	32	40
	ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories		d_{11}	16	22	27	32	40
	ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)
	Coolant transfer		FS1064	FS1065	FS1065	FS1065	FS1065
	Keys		FS952	FS953	FS953	FS953	FS953

Strength class with tightening screw 12.9

SK adaptor – Vibration-damped

AC001-S

Accure-tec



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₂ mm	l ₄ mm	l ₁₉ mm	d ₁₃	kg
 SK DIN 69871 AD/B	AC001-S40-B16-160	SK40	16	38	160	17	M16	2.12
	AC001-S40-B22-210	SK40	22	48	210	19	M16	3.74
	AC001-S50-B22-210	SK50	22	48	210	19	M24	5.36
	AC001-S50-B27-260	SK50	27	60	260	21	M24	8.52
	AC001-S50-B32-330	SK50	32	78	330	24	M24	14.96
	AC001-S50-B40-350	SK50	40	89	350	27	M24	20.36

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts	d ₁₁	16	22	27	32	40
 ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories	d ₁₁	16	22	27	32	40
 ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9


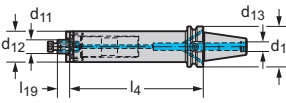
MAS-BT adaptor – Vibration-damped

AC001-J


Accure-tec




- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool		Designation	d_1	d_{11}	d_{12} mm	l_4 mm	l_{19} mm	d_{13}	
 JIS B 6339 AD/B		AC001-J40-B16-160	BT40	16	38	160	17	M16	2.22
		AC001-J40-B22-210	BT40	22	48	210	19	M16	3.78
		AC001-J40-B27-260	BT40	27	60	260	21	M16	6.86
		AC001-J50-B22-210	BT50	22	48	210	19	M24	6.08
		AC001-J50-B27-260	BT50	27	60	260	21	M24	9.06
		AC001-J50-B32-330	BT50	32	78	330	24	M24	15.34
		AC001-J50-B40-350	BT50	40	89	350	27	M24	20.7

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
Bodies and assembly parts are included in the scope of delivery

Assembly parts		d_{11}	16	22	27	32	40
	ISO 4762 tightening screw		FS938 (SW 6)	FS939 (SW 8)	FS940 (SW 10)	FS941 (SW 14)	FS942 (SW 17)

Accessories		d_{11}	16	22	27	32	40
	ISO 2936 key		ISO2936-6 (SW 6)	ISO2936-8 (SW 8)	ISO2936-10 (SW 10)	ISO2936-14 (SW 14)	ISO2936-17 (SW 17)

Strength class with tightening screw 12.9

CAT-V adaptor – Vibration-damped

AC001.K inch



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d_1	d_{11}	l_4 inch	d_{13}
<p>ASME B 5.50</p>	AC001.K40-B19-191	CAT40	0.750	7.500	5/8"-11
	AC001.K40-B26-229	CAT40	1.000	9.000	5/8"-11
	AC001.K50-B19-191	CAT50	0.750	7.500	1"-8
	AC001.K50-B26-229	CAT50	1.000	9.000	1"-8
	AC001.K50-B38-349	CAT50	1.500	13.750	1"-8

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

CAT-V adaptor, conical – vibration-damped

AC001.K inch



- For milling tools with parallel bore according to DIN 138
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	l ₄ inch	d ₁₃
<p>ASME B 5.50</p>	AC001.K40-B19-229	CAT40	0.750	9.000	5/8"-11
	AC001.K50-B19-229	CAT50	0.750	9.000	1"-8
	AC001.K50-B26-305	CAT50	1.000	12.000	1"-8

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“

Walter Capto™ adaptor – vibration damped

AC060-C mm



- For ScrewFit front pieces
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₈ mm	l ₁₆ mm	
	AC060-C6-T18-185	C6	T18	18.5	185	20	23.5	2
	AC060-C6-T22-185	C6	T22	22	185	19.5	24	2.1
	AC060-C6-T28-185	C6	T28	28	185	18.8	24	2.8
	AC060-C6-T28-235	C6	T28	28	235	18.8	24	3.6

Walter Capto™ nach ISO 26623

For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

HSK adaptor – vibration-damped

AC060-H mm



- For ScrewFit front pieces
- With preset vibration damping

Tool	Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₈ mm	l ₁₆ mm	
 HSK DIN 69893-1 A	AC060-H100-T22-235	HSK-A100	T22	22	235	19.5	24	4
	AC060-H100-T28-235	HSK-A100	T28	28	235	18.8	24	4.8
	AC060-H100-T28-285	HSK-A100	T28	28	285	18.8	24	5.9
	AC060-H63-T18-185	HSK-A63	T18	18.5	185	20	23.5	1.51
	AC060-H63-T22-185	HSK-A63	T22	22	185	19.5	24	1.9
	AC060-H63-T28-185	HSK-A63	T28	28	185	18.8	24	2.59
	AC060-H63-T28-235	HSK-A63	T28	28	235	18.8	24	3.5

For accessories for HSK, see „Assembly parts and accessories“
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

Accessories	d ₁	HSK-A100		HSK-A63	
		Part	Part	Part	Part
 Coolant transfer		FS1065		FS1064	
 Keys		FS953		FS952	

SK adaptor – vibration-damped

AC060-S mm



- For ScrewFit front pieces
- With preset vibration damping

Tool		Designation	d_1	d_{11}	d_{14} mm	l_4 mm	l_{18} mm	l_{16} mm	d_{13}	kg
		AC060-S40-T18-185	SK40	T18	18.5	185	20	23.5	M16	2.2
		AC060-S40-T22-185	SK40	T22	22	185	20	24	M16	2.2
		AC060-S40-T28-185	SK40	T28	28	185	20	24	M16	2.8
		AC060-S40-T28-235	SK40	T28	28	235	20	24	M16	3.7
		AC060-S50-T22-235	SK50	T22	22	235	19.5	24	M24	5.5
		AC060-S50-T28-235	SK50	T28	28	235	18.8	24	M24	5.5
		AC060-S50-T28-285	SK50	T28	28	285	18.8	24	M24	6.6

SK DIN 69871 AD/B
 For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“

MAS-BT adaptor – vibration-damped

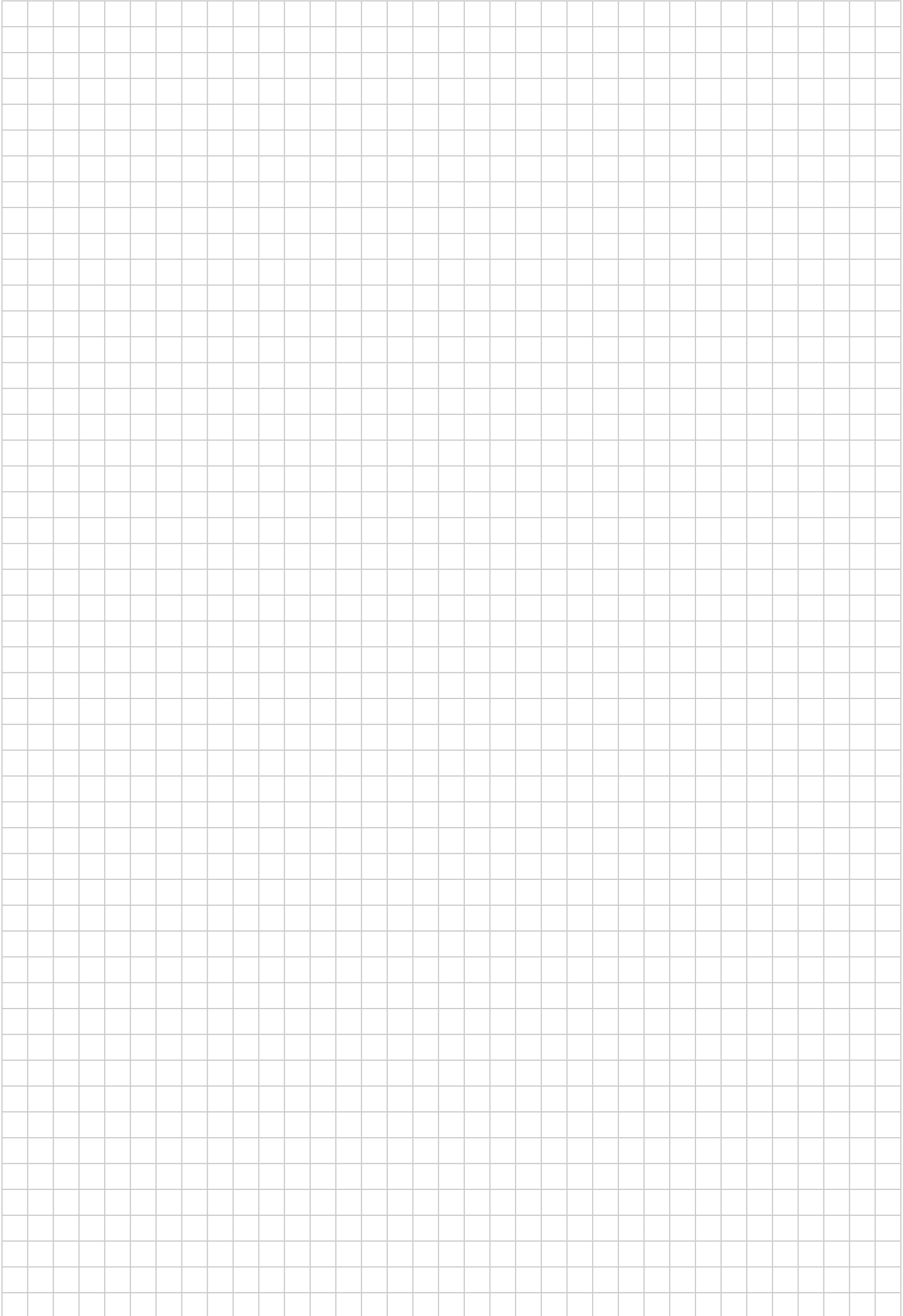
AC060-J mm



- For ScrewFit front pieces
- With preset vibration damping

Tool		Designation	d ₁	d ₁₁	d ₁₄ mm	l ₄ mm	l ₁₈ mm	l ₁₆ mm	d ₁₃	kg
<p>JIS B 6339 AD/B</p>	AC060-J40-T18-185	BT40	T18	18.5	185	20	23.5	M16	2.2	
	AC060-J40-T22-185	BT40	T22	22	185	19.5	24	M16	2.2	
	AC060-J40-T28-185	BT40	T28	28	185	18.8	24	M16	2.8	
	AC060-J40-T28-235	BT40	T28	30	235	18.8	24	M16	3.7	
	AC060-J50-T22-235	BT50	T22	22	235	19.5	24	M24	6	
	AC060-J50-T28-235	BT50	T28	28	235	18.8	24	M24	6.1	
	AC060-J50-T28-285	BT50	T28	28	285	18.8	24	M24	7.2	

For pull studs for steep tapers, see „Assembly parts and accessories/Steel taper pull studs“
 For the tightening torques of screw on front pieces, see „Rotating adaptors/Assembly parts and accessories“



General information – Adaptors



Boring bar adaptor



Quick-change collet



Synchronised quick-change ER collet



Synchronised quick-change collet

Designation	A2140-W	A331	AB735-ER	AB735-ER-R
Machine-side	Cylindrical shank with flat	Tap adapter SES	DIN 6499	Tap adapter SES
Tool-side	6 - 25	10.00 x 8.00 - 9.00 x 7.00	8 - 19	10.00 x 8.00 - 9.00 x 7.00
Page in catalog	A 177	A 187	A 188	A 189
QR code				
www.walter-tools.com/woc/	A2140-W	A331	AB735-ER	AB735-ER-R



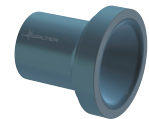
DIN 6499 ER collets



DIN 6499 ER tapping collets



Adaptor sleeves for internal cooling



Cooling nozzles for ER collets

Designation	C330	C340	FS...	GL00..
Machine-side	DIN 6499	DIN 6499	Cylindrical shank	
Tool-side	1.0 - 0.5 - 6.00 - 5.50	10.00 x 8.00 - 9.00 x 7.00	3 - 25	ER32
Page in catalog	A 189	A 177	A 185	A 182
QR code				
www.walter-tools.com/woc/	C330	C340	FS	GL00

General information – Adaptors



Adaptor sleeves for internal cooling

Designation	SL...
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Machine-side Cylindrical shank

Tool-side	1 - 3/16
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Page in catalog A 183

QR code



www.walter-tools.com/woc/ SL

Boring bar adaptor

A2140-W mm



- With Weldon shank in accordance with DIN 9766
- Self-centring for parallel round shank

Tool	Designation	d_1	d_{11} mm	l_1 mm	l_4 mm	kg
<p>Cylindrical shank with flat</p>	A2140-W16-R06-048	16	6	48	5	0.06
	A2140-W16-R08-048	16	8	48	5	0.06
	A2140-W16-R10-048	16	10	48	5	0.05
	A2140-W16-R12-048	16	12	48	5	0.04
	A2140-W20-R06-055	20	6	55	5	0.11
	A2140-W20-R08-055	20	8	55	5	0.11
	A2140-W20-R10-055	20	10	55	5	0.1
	A2140-W20-R12-055	20	12	55	5	0.09
	A2140-W20-R16-055	20	16	55	5	0.06
	A2140-W25-R06-061	25	6	61	5	0.19
	A2140-W25-R08-061	25	8	61	5	0.19
	A2140-W25-R10-061	25	10	61	5	0.19
	A2140-W25-R12-061	25	12	61	5	0.17
	A2140-W25-R16-061	25	16	61	5	0.14
	A2140-W32-R06-065	32	6	65	5	0.33
	A2140-W32-R08-065	32	8	65	5	0.33
	A2140-W32-R10-065	32	10	65	5	0.33
	A2140-W32-R12-065	32	12	65	5	0.31
	A2140-W32-R16-065	32	16	65	5	0.28
	A2140-W32-R20-065	32	20	65	5	0.25
A2140-W40-R06-075	40	6	75	5	0.6	
A2140-W40-R08-075	40	8	75	5	0.61	
A2140-W40-R10-075	40	10	75	5	0.62	
A2140-W40-R12-075	40	12	75	5	0.62	
A2140-W40-R16-075	40	16	75	5	0.58	
A2140-W40-R20-075	40	20	75	5	0.55	
A2140-W40-R25-075	40	25	75	5	0.45	

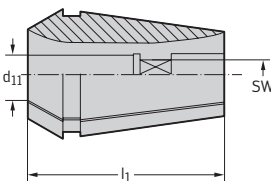
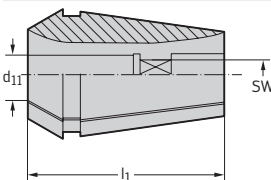
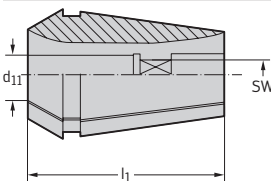
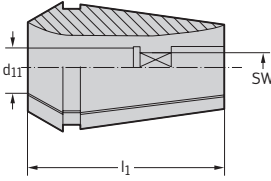
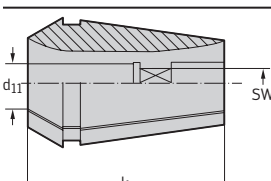
Note: Groove for self-centring is present on all Walter Turn boring bars with cylindrical shank (-R) dia. 6–25 mm. The maximum recommended coolant pressure is 80 bar (1160 psi)

DIN 6499 ER tapping collets

C340



– ER – GB in accordance with DIN 6499

Tool	Designation	Collets	l ₁ mm	SW mm	kg
 <p>DIN 6499</p>	C340.11.028	ER11	18	2.1	0.01
	C340.11.035	ER11	18	2.7	0.01
	C340.11.045	ER11	18	3.4	0.01
	C340.11.060	ER11	18	4.9	0.01
 <p>DIN 6499</p>	C340.20.045	ER20	31.5	3.4	0.05
	C340.20.060	ER20	31.5	4.9	0.04
	C340.20.070	ER20	31.5	5.5	0.04
	C340.20.080	ER20	31.5	6.2	0.04
	C340.20.090	ER20	31.5	7	0.04
	C340.20.100	ER20	31.5	8	0.03
 <p>DIN 6499</p>	C340.25.045	ER25	34	3.4	0.01
	C340.25.060	ER25	34	4.9	0.01
	C340.25.070	ER25	34	5.5	0.01
	C340.25.080	ER25	34	6.2	0.08
	C340.25.090	ER25	34	7	0.08
	C340.25.100	ER25	34	8	0.07
	C340.25.110	ER25	34	9	0.07
	C340.25.120	ER25	34	9	0.07
	C340.25.140	ER25	34	11	0.06
	C340.25.160	ER25	34	12	0.05
 <p>DIN 6499</p>	C340.32.045	ER32	40	3.4	0.16
	C340.32.060	ER32	40	4.9	0.15
	C340.32.070	ER32	40	5.5	0.15
	C340.32.080	ER32	40	6.2	0.15
	C340.32.090	ER32	40	7	0.15
	C340.32.100	ER32	40	8	0.15
	C340.32.110	ER32	40	9	0.15
	C340.32.120	ER32	40	9	0.15
	C340.32.140	ER32	40	11	0.14
	C340.32.160	ER32	40	12	0.13
 <p>DIN 6499</p>	C340.40.120	ER40	46	9	0.28
	C340.40.140	ER40	46	11	0.28
	C340.40.160	ER40	46	12	0.26
	C340.40.180	ER40	46	14.5	0.25
	C340.40.200	ER40	46	16	0.23
	C340.40.220	ER40	46	18	0.21

DIN 6499 ER collets


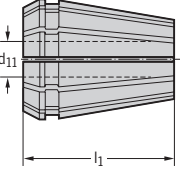
C330 mm



Tool	Designation	Collets	d ₁₁ mm	l ₁ mm	kg
 DIN 6499	C330.06.010	ER11	1-0.75	18	0.01
	C330.06.020	ER11	2-1.75	18	0.01
	C330.06.030	ER11	3-2.5	18	0.01
	C330.06.040	ER11	4-3.5	18	0.01
	C330.06.050	ER11	5-4.5	18	0.01
	C330.06.060	ER11	6-5.5	18	0.01
 DIN 6499	C330.10.010	ER16	1-0.5	27.5	0.02
	C330.10.020	ER16	2-1	27.5	0.02
	C330.10.030	ER16	3-2	27.5	0.03
	C330.10.040	ER16	4-3	27.5	0.02
	C330.10.050	ER16	5-4	27.5	0.02
	C330.10.060	ER16	6-5	27.5	0.03
	C330.10.070	ER16	7-6	27.5	0.02
	C330.10.080	ER16	8-7	27.5	0.02
	C330.10.090	ER16	9-8	27.5	0.02
	C330.10.100	ER16	10-9	27.5	0.02
 DIN 6499	C330.13.010	ER20	1-0.5	31.5	0.05
	C330.13.020	ER20	2-1	31.5	0.05
	C330.13.030	ER20	3-2	31.5	0.05
	C330.13.040	ER20	4-3	31.5	0.05
	C330.13.050	ER20	5-4	31.5	0.04
	C330.13.060	ER20	6-5	31.5	0.04
	C330.13.070	ER20	7-6	31.5	0.05
	C330.13.080	ER20	8-7	31.5	0.04
	C330.13.090	ER20	9-8	31.5	0.04
	C330.13.100	ER20	10-9	31.5	0.03
	C330.13.110	ER20	11-10	31.5	0.03
	C330.13.120	ER20	12-11	31.5	0.03
	C330.13.130	ER20	13-12	31.5	0.03
 DIN 6499	C330.16.020	ER25	2-1	34	0.08
	C330.16.030	ER25	3-2	34	0.08
	C330.16.040	ER25	4-3	34	0.08
	C330.16.050	ER25	5-4	34	0.08
	C330.16.060	ER25	6-5	34	0.08
	C330.16.070	ER25	7-6	34	0.07

DIN 6499 ER collets

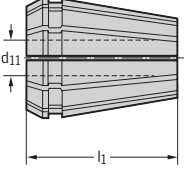
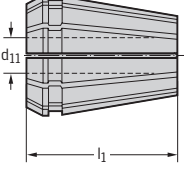
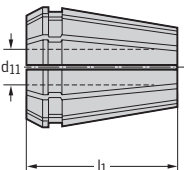
 C330 (cont.)

Tool	Designation	Collets	d_{11} mm	l_1 mm	
 <p data-bbox="124 629 193 649">DIN 6499</p>	C330.16.080	ER25	8-7	34	0.07
	C330.16.090	ER25	9-8	34	0.07
	C330.16.100	ER25	10-9	34	0.07
	C330.16.110	ER25	11-10	34	0.07
	C330.16.120	ER25	12-11	34	0.06
	C330.16.130	ER25	13-12	34	0.06
	C330.16.140	ER25	14-13	34	0.06
	C330.16.150	ER25	15-14	34	0.05
	C330.16.160	ER25	16-15	34	0.05

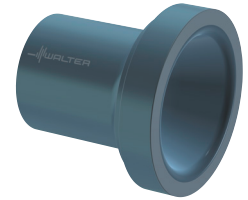
DIN 6499 ER collets

C330



Tool	Designation	Collets	d ₁₁ mm	l ₁ mm	kg	
 DIN 6499	C330.20.020	ER32	2-1	40	0.15	
	C330.20.030	ER32	3-2	40	0.16	
	C330.20.040	ER32	4-3	40	0.15	
	C330.20.050	ER32	5-4	40	0.16	
	C330.20.060	ER32	6-5	40	0.16	
	C330.20.070	ER32	7-6	40	0.15	
	C330.20.080	ER32	8-7	40	0.16	
	C330.20.090	ER32	9-8	40	0.15	
	C330.20.100	ER32	10-9	40	0.14	
	C330.20.110	ER32	11-10	40	0.14	
	C330.20.120	ER32	12-11	40	0.14	
	C330.20.130	ER32	13-12	40	0.14	
	C330.20.140	ER32	14-13	40	0.13	
	C330.20.150	ER32	15-14	40	0.12	
	C330.20.160	ER32	16-15	40	0.12	
	C330.20.170	ER32	17-16	40	0.11	
	C330.20.180	ER32	18-17	40	0.11	
	C330.20.190	ER32	19-18	40	0.1	
	C330.20.200	ER32	20-19	40	0.09	
	 DIN 6499	C330.26.030	ER40	3-2	46	0.29
C330.26.040		ER40	4-3	46	0.28	
C330.26.050		ER40	5-4	46	0.28	
C330.26.060		ER40	6-5	46	0.28	
C330.26.070		ER40	7-6	46	0.29	
C330.26.080		ER40	8-7	46	0.28	
C330.26.090		ER40	9-8	46	0.28	
C330.26.100		ER40	10-9	46	0.29	
C330.26.110		ER40	11-10	46	0.28	
C330.26.120		ER40	12-11	46	0.28	
C330.26.130		ER40	13-12	46	0.27	
C330.26.140		ER40	14-13	46	0.27	
C330.26.150		ER40	15-14	46	0.26	
C330.26.160		ER40	16-15	46	0.26	
C330.26.170		ER40	17-16	46	0.25	
C330.26.180		ER40	18-17	46	0.24	
 DIN 6499		C330.26.190	ER40	19-18	46	0.24
		C330.26.200	ER40	20-19	46	0.23
	C330.26.210	ER40	21-20	46	0.22	
	C330.26.220	ER40	22-21	46	0.21	
	C330.26.230	ER40	23-22	46	0.2	
	C330.26.240	ER40	24-23	46	0.19	
	C330.26.250	ER40	25-24	46	0.18	
	C330.26.260	ER40	26-25	46	0.17	

Cooling nozzles for ER collets GL00..



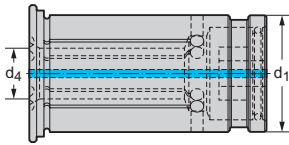
Tool	Designation	Collets	d ₁₁ mm	d ₁ mm	d ₁₂ mm	l ₄ mm	l ₁ mm	kg
	GL0001	ER16	3	6.4	13	11	15	0.006
	GL0002	ER16	4	7.4	13	11	15	0.006
	GL0003	ER16	5	8.4	13	11	15	0.006
	GL0004	ER16	6	9.4	13	11	15	0.006
	GL0005	ER16	7	11	13	12	15	0.006
	GL0006	ER16	8	11	13	12	15	0.006
	GL0009	ER20	6	9.4	16	11	15	0.008
	GL0010	ER20	7	10.4	16	11	15	0.004
	GL0011	ER20	8	11.4	16	11	15	0.008
	GL0013	ER20	10	14	16	12	15	0.008
	GL0014	ER20	12	14	16	3	6	0.005
	GL0015	ER25	6	9.4	21	11	15	0.01
	GL0018	ER25	9	12.4	21	11	15	0.01
	GL0019	ER25	10	13.4	21	11	15	0.01
	GL0020	ER25	12	15.4	21	11	15	0.01
	GL0021	ER25	14	17.4	21	11	15	0.01
	GL0022	ER25	16	19	21	12	15	0.01
	GL0023	ER32	6	9.4	27	11	15	0.016
	GL0024	ER32	7	10.4	27	11	15	0.016
	GL0025	ER32	8	11.4	27	11	15	0.016
	GL0026	ER32	9	12.4	27	11	15	0.016
	GL0027	ER32	10	13.4	27	11	15	0.016
	GL0028	ER32	12	15.4	27	11	15	0.016
	GL0029	ER32	14	17.4	27	11	15	0.016
	GL0030	ER32	16	19.4	27	11	15	0.016

Adaptor sleeves for internal cooling

SL... inch



Tool



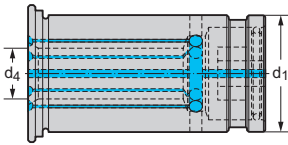
Designation	Collets	d ₁₁ inch	l ₁ inch
SL0001	0.472	0.125	1.85
SL0002	0.472	0.187	1.85
SL0003	0.472	0.250	1.85
SL0004	0.472	0.375	1.85
SL0005	0.787	0.125	2.067
SL0006	0.787	0.187	2.067
SL0007	0.787	0.250	2.067
SL0008	0.787	0.375	2.067
SL0009	0.787	0.500	2.067
SL0010	0.787	0.625	2.067
SL0011	1.260	0.250	2.461
SL0012	1.260	0.375	2.461
SL0013	1.260	0.500	2.461
SL0014	1.260	0.625	2.461
SL0015	1.260	0.750	2.461
SL0016	1.260	1.000	2.461

Adaptor sleeves for peripheral cooling

SL...



Tool



Designation	Collets	d ₁₁ inch	l ₁ inch
SL0017	0.472	0.125	1.85
SL0018	0.472	0.187	1.85
SL0019	0.472	0.250	1.85
SL0020	0.472	0.375	1.85
SL0021	0.787	0.125	2.067
SL0022	0.787	0.187	2.067
SL0023	0.787	0.250	2.067
SL0024	0.787	0.375	2.067
SL0025	0.787	0.500	2.067
SL0026	0.787	0.625	2.067
SL0027	1.260	0.500	2.461
SL0028	1.260	0.625	2.461
SL0029	1.260	0.750	2.461
SL0030	1.260	1.000	2.461

Adaptor sleeves for internal cooling

FS...

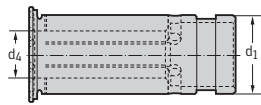


Tool		Designation	Collets	d ₁₁ mm	l ₁ mm	kg
		FS2189	12	3	47	0.03
		FS2190	12	4	47	0.03
		FS2191	12	5	47	0.32
		FS2192	12	6	47	0.03
		FS2193	12	8	47	0.03
		FS2199	20	3	52.5	0.1
		FS2200	20	4	52.5	0.1
		FS2201	20	5	52.5	0.1
		FS2202	20	6	52.5	0.1
		FS2203	20	7	52.5	0.1
		FS2204	20	8	52.5	0.09
		FS2205	20	9	52.5	0.09
		FS2206	20	10	52.5	0.09
		FS2207	20	11	52.5	0.09
		FS2208	20	12	52.5	0.08
		FS2209	20	13	52.5	0.08
		FS2210	20	14	52.5	0.07
		FS2211	20	15	52.5	0.07
		FS2212	20	16	52.5	0.06
		FS2222	32	6	52.5	0.29
	FS2223	32	8	62.5	0.29	
	FS2224	32	10	62.5	0.29	
	FS2225	32	12	62.5	0.28	
	FS2226	32	14	62.5	0.27	
	FS2227	32	16	62.5	0.27	
	FS2228	32	18	62.5	0.25	
	FS2229	32	20	62.5	0.23	
	FS2230	32	25	62.5	0.17	

Adaptor sleeves for peripheral cooling

 FS...


Tool



Designation	Collets	d ₁₁ mm	l ₁ mm	kg
FS2194	12	3	47	0.03
FS2195	12	4	47	0.03
FS2196	12	5	47	0.03
FS2197	12	6	47	0.03
FS2198	12	8	47	0.03
FS2213	20	3	52.5	0.1
FS2214	20	4	52.5	0.1
FS2215	20	5	52.5	0.1
FS2216	20	6	52.5	0.1
FS2217	20	8	52.5	0.1
FS2218	20	10	52.5	0.09
FS2219	20	12	52.5	0.08
FS2220	20	14	52.5	0.07
FS2221	20	16	52.5	0.06
FS2231	32	6	62.5	0.29
FS2232	32	8	62.5	0.29
FS2233	32	10	62.5	0.29
FS2234	32	12	62.5	0.28
FS2235	32	14	62.5	0.27
FS2236	32	16	62.5	0.26
FS2237	32	18	62.5	0.25
FS2238	32	20	62.5	0.23
FS2239	32	25	62.5	0.17

Quick-change collet

A331 mm



– With overload clutch

Tool	Designation	d ₁	d ₁₂ mm	l ₄ mm	kg
	A331.0.19.025.03	1SWE-01	32	25	0.18
	A331.0.19.025.04	1SWE-01	32	25	0.18
	A331.0.19.025.05	1SWE-01	32	25	0.17
	A331.0.19.025.06	1SWE-01	32	25	0.18
	A331.0.19.025.07	1SWE-01	32	25	0.2
	A331.0.19.025.08	1SWE-01	32	25	0.18
	A331.0.19.025.09	1SWE-01	32	25	0.17
	A331.0.19.025.10	1SWE-01	32	25	0.16
	A331.0.31.034.06	3SWE-01	50	34	0.54
	A331.0.31.034.07	3SWE-01	50	34	0.58
	A331.0.31.034.08	3SWE-01	50	34	0.54
	A331.0.31.034.09	3SWE-01	50	34	0.54
	A331.0.31.034.10	3SWE-01	50	34	0.54
	A331.0.31.034.11	3SWE-01	50	34	0.54
	A331.0.31.034.12	3SWE-01	50	34	0.53
	A331.0.31.034.14	3SWE-01	50	34	0.52
	A331.0.31.034.16	3SWE-01	50	34	0.54
	A331.0.48.045.11	4SWE-01	72	45	1.68
	A331.0.48.045.12	4SWE-01	72	45	1.66
	A331.0.48.045.14	4SWE-01	72	45	1.69
	A331.0.48.045.16	4SWE-01	72	45	1.66
	A331.0.48.045.18	4SWE-01	72	45	0.17
	A331.0.48.045.20	4SWE-01	72	45	1.63
	A331.0.48.045.22	4SWE-01	72	45	1.63
	A331.0.48.045.25	4SWE-01	72	45	1.59
	A331.0.60.068.18	5SWE-01	95	68	3.92
	A331.0.60.068.20	5SWE-01	95	68	4
	A331.0.60.068.22	5SWE-01	95	68	3.86
	A331.0.60.068.25	5SWE-01	95	68	3.82
	A331.0.60.068.28	5SWE-01	95	68	3.77
	A331.0.60.068.32	5SWE-01	95	68	3.68
	A331.0.60.068.36	5SWE-01	95	68	3.57

A collet is required for each tap shank diameter (order in acc. with D2).

Synchronised quick-change ER collet

AB735-ER



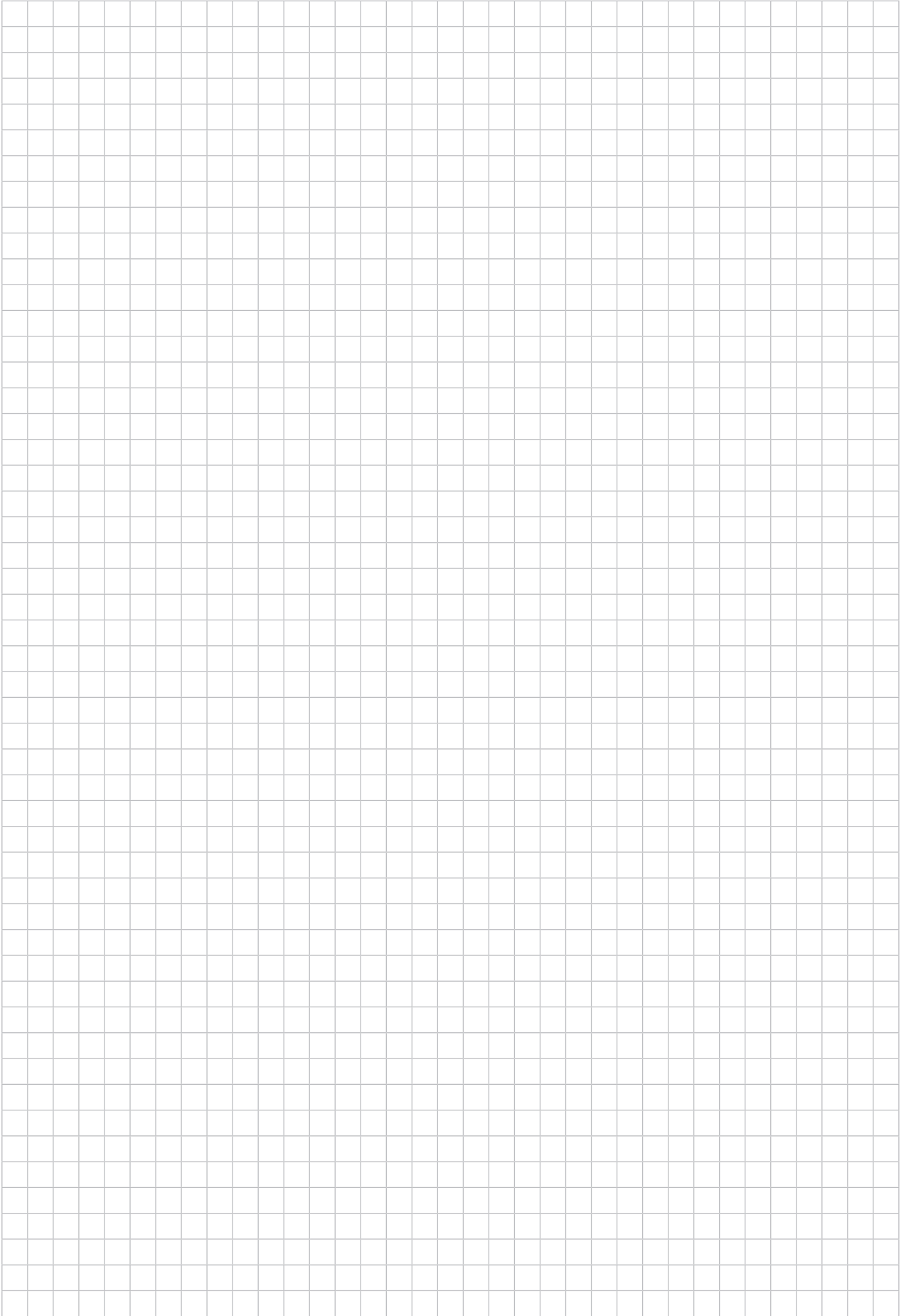
Tool	Designation	Collets	d ₁₁ mm	l ₁ mm	kg
 DIN 6499	AB735-ER16	ER16	8	26	0.03
 DIN 6499	AB735-ER20	ER20	11	31.5	0.04
 DIN 6499	AB735-ER25	ER25	14	34	0.05
 DIN 6499	AB735-ER32	ER32	19	40	0.06

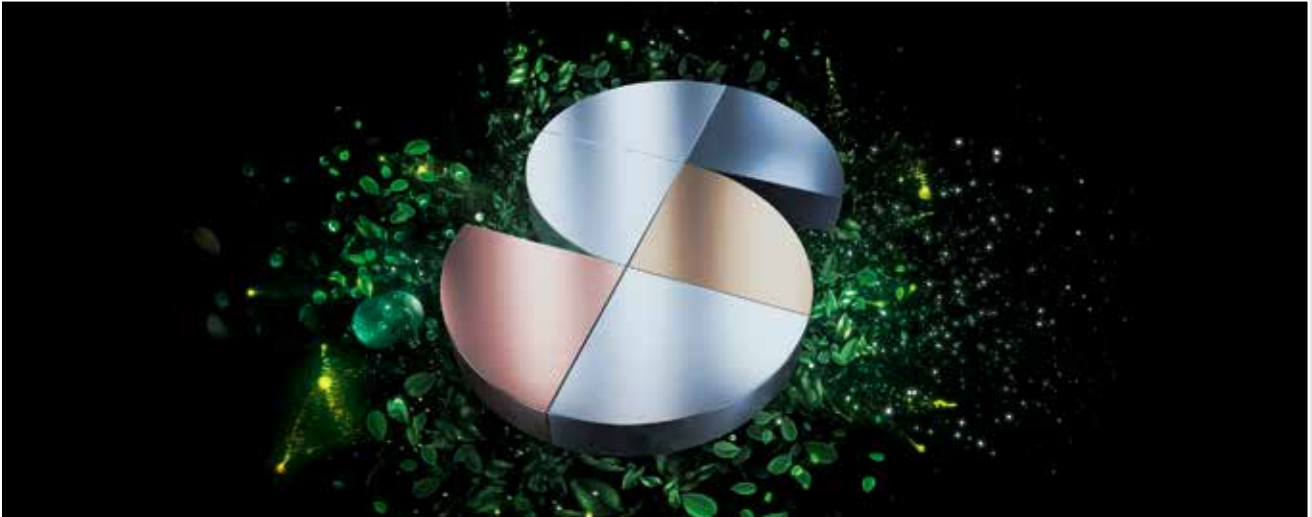
Synchronised quick-change collet

AB735-ER-R mm



Tool		Designation	d ₁	d ₁₁ mm	d ₁₂ mm	l ₄ mm	l ₁₇ mm	SW mm	Collet size	kg
		AB735-ER16-R035-024	8SWB-09	3.5	13	24	20.3	2.7	8	0.04
		AB735-ER16-R045-024	8SWB-09	4.5	13	24	20.3	3.4	8	0.04
		AB735-ER16-R050-024	8SWB-09	5.5	13	24	20.3	4.3	8	0.04
		AB735-ER20-R060-035	11SWB-09	6	16	35	23	4.9	11	0.05
		AB735-ER20-R070-035	11SWB-09	7	16	35	23	5.5	11	0.05
		AB735-ER25-R070-030	11SWB-09	7	19	30	25.5	5.5	11	0.06
		AB735-ER25-R080-030	14SWB-09	8	19	30	25.5	6.2	14	0.06
		AB735-ER25-R090-040	14SWB-09	9	19	40	25.5	7	14	0.06
		AB735-ER32-R080-037	19SWB-09	8	25	37	32	6.2	19	0.07
		AB735-ER32-R090-037	19SWB-09	9	25	37	32	7	19	0.07
		AB735-ER32-R100-037	19SWB-09	10	25	37	32	8	19	0.07
		AB735-ER32-R110-037	19SWB-09	11	25	37	32	9	19	0.07
		AB735-ER32-R120-037	19SWB-09	12	25	37	32	9	19	0.07





Sustainable products and services – certified and transparent

Walter is a company that takes responsibility for people and the environment. Sustainability is a central component of our corporate strategy. It pervades our products and business divisions and is reviewed and certified by independent third parties on a regular basis.

Proven to be produced to high standards

All processes, procedures, methods and instruments that we use are checked and certified by an independent body according to strict criteria. Occupational health and safety, quality assurance and environmentally friendly actions (for example through resource-saving, energy-efficient and CO₂-offset production) are examples of this. Our social commitment shows that Walter has a broader definition of responsibility.

Transparency throughout the entire process chain – for your peace of mind

The integrated management system at Walter includes the sustainable use of resources and production equipment as well as of people – our customers, partners and employees. So that you can count on all of our products meeting these requirements throughout the entire process chain, we apply our own benchmarks to our suppliers too.

Certification

The integrated management system at Walter includes certification in accordance with:

- ISO 9001 (Quality management)
- VDA 6.4 (Production equipment for the automotive industry)
- ISO 14001 (Environmental management)
- ISO 45001 (Occupational health and safety management)
- ISO 50001 (Energy management)



You can find more information on Walter certification here:



Occupational health and safety

Walter protects its employees against health hazards. To prevent accidents, we continuously review our processes and take proactive measures as a precaution.



Environmental and energy management

Environmental protection is an important company objective for Walter. We use energy efficiently and deploy practical methods to sustainably reduce the consumption of energy, water and resources.



Quality management

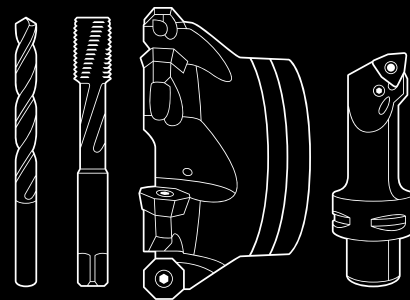
Walter is continuously improving its products and processes. We ensure our product quality using effective measures and procedures – and check it on a regular basis with our comprehensive quality management system.

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