

Leitz Lexicon Edition 7



Explanation of abbreviations

Α	= dimension A	LL	= left hand rotation
	= cutting thickness (radial)		
a _e	= cutting depth (axial)	M	= metric thread
a _p ABM	= dimension	MBM	
APL		MC	= minimum order quantity
	= panel raising length		= multi-purpose steel, coated
APT	= panel raising depth	MD . ₋₁	= thickness of knife
AL	= working length	min ⁻¹	= revolutions per minute (RPM)
AM	= number of knives	MK	= morse taper
AS	anti sound (low noise design)	m min ⁻¹	= metres per minute
		m s ⁻¹	= metres per second
b	= overhang		
В	= width	n	= RPM
BDD	= thickness of shoulder	n _{max} .	= maximum permissible RPM
BEM	= note	NÄL	= position of hub
BEZ	= description	ND	= thickness of hub
BH	= tipping height	NH	= zero height
BO	= bore diameter	NL	= cutting length
БО	- bore diameter	NLA	= pinhole dimensions
CNC	Computarized Numerical Control		•
CNC	= Computerized Numerical Control	NT	= grooving depth
d	= diameter	Р	= profile
D	= cutting circle diameter	POS	= cutter position
D0	= zero diameter	PT	= profile depth
DA	= outside Diameter	PG	= profile group
DB	= diameter of shoulder	ı u	= prome group
		041	outting material quality
DFC	= Dust Flow Control (optimised chip clearance)	QAL	 cutting material quality
DGL	= number of links	_	
DIK	= thickness	R	= radius
DKN	= double keyway	RD	= right hand twist
DP	polycrystalline diamond	RL	= right hand rotation
DRI	= rotation	RP	= radius of cutter
FAB	= width of rebate	S	= shank dimension
FAT	= depth of rebate	SB	= cutting width
FAW	= bevel angle	SET	= set
FLD	= flange diameter	SLB	= slotting width
f _z	= tooth feed	SLL	= slotting length
$f_{z \text{ eff}}^{-}$	= effective tooth feed	SLT	= slotting depth
		SP	= tool steel
GEW	= thread	ST	= Cobalt-basis cast alloys,
GL	= total length		e.g. Stellit®
GS	= Plunging edge	STO	= shank tolerance
ao	- I langing eage		
	- hoight	SW	= cutting angle
H	= height		diamatan afta al ba d
HC	= tungsten carbide, coated	TD	= diameter of tool body
HD	= wood thickness (thickness of workpiece)	TDI	= thickness of tool
HL	= high-alloyed tool steel	TG	= pitch
HS	= high-speed steel (HSS)	TK	= reference diameter
HW	= tungsten carbide (TCT)		
	Salamat assumate ass	UT	= cutting edges with irregular pitch
ID IV	= ident number	V	- number of anum
IV	= insulation glazing	V	= number of spurs
		V _c	= cutting speed
KBZ	= abbreviation	V _f	= feed speed
KLH	= clamping height	VE	= packing unit
KM	= edge breaker	VSB	= adjustment range
KN	= single keyway		<u>-</u>
KNL	= combination pinhole consists of	WSS	= workpiece material
	2/7/42 2/9/46,35 2/10/60		
		Z	= number of teeth
L	= length	ZA	= number of fingers
_	- clamping langth	ZF	= tooth shape (cutting edge shape)
Ī	= clamping length	 -	tooti. onapo (outinig ougo onapo,
I LD	= left hand twist	ZL	= finger length
I			

The statements made in the diagrams and tables relate to specific conditions and represent parameters from tests subjected to defined conditions. Variations when using tools in individual case due to special application conditions may be possible. Our support team will provide you with detailed information.





Overv	Overview clamping systems		
	Clamping elements Hydro clamping - open system Hydro clamping - closed system Clamping sleeves	6 6 7 16	
	Quick clamping elements Hydro clamping - closed system Mechanical clamping	20 20 22	
7.3.3 7.3.4	Clamping chucks Shrink-fit chucks Hydro chucks Collet chucks Weldon chucks Drill adaptors	26 26 31 33 54 56	
7.4.2	Clamping arbors Hydro clamping arbors Cutter arbors Adaptors for circular sawblades	64 64 68 78	
Alpha	betical product index	82	
ID ind	dex	83	

Clamping elements 7.1



ID

ID

ID

005462 •

008239 •

007934 •

007935 •

030600 •

030605 030602 •

005452 •

008239

007934 •

007935 •

005936 •

005942 •

7.1.1 Hydro clamping - open system

Application:

Clamping sleeve for centric, play-free clamping of tools and cutterheads.

For spindle without safety device against twisting

Machines with high precision spindles e.g. moulders etc.

Technical information:

Hydro-Duo open clamping system, activation of hydro clamping by a grease gun. Suitable for right and left hand rotation.

With clamping nut

PH 130 0 01

Spare parts: **BEZ**

Grease gun

PH 130 0 02

Spare parts: **BEZ**

Grease cartridge

Grease nipple

Allen key Grease gun

D

mm

50

60

60

Grease nipple

Grease cartridge

Sickle spanner adjustable

With end ring and clamping screws

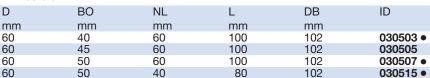
BO

mm

40

45

50



for Hydro sleeve

mm

130

55

for Hydro sleeve

130

ABM

mm SW 5

M10x1

D90/155; L290; DIN1816; tenon 6

DB

mm

92 102

102

ABM

M10x1

NL

mm

95

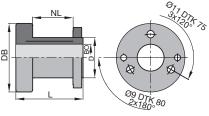
35

95

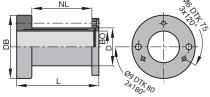








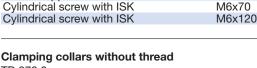
Hydro-Duo clamping element PH 130 0 01 with clamping nut



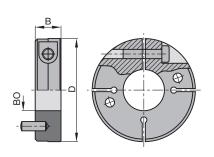
Hydro-Duo clamping element PH 130 0 02 with end ring and clamping screws

89 2+180.80

100100			
D	В	ВО	ID
mm	mm	mm	
100	25	40	030700 •
100	25	45	030701 •
100	25	50	030702 •



וט 87	0 0		
D	В	ВО	ID
mm	mm	n mm	
100	25	40	030700 ●
100	25	45	030701 •
100	25	50	030702 ●



Clamping collar without thread





7.1.2 Hydro clamping - closed system



Application:

Clamping sleeve for centric clamping of tools, tool sets and cutterheads.

For spindle without safety device against twisting

Machine

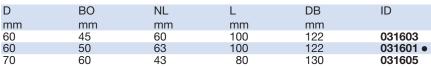
Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines, window production machines etc.

Technical information:

Hydro-Duo closed hydro clamping system, activation of hydro clamping by internal clamping system without grease gun. Suitable for right and left hand rotation.

With clamping nut

PH 130 0 05



Spare parts:

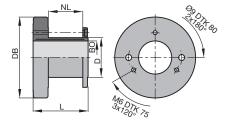
BEZ	ABM	ID
	mm	
Sickle spanner adjustable	D90/155; L290; DIN1816; tenon 6	005462 ●

Hydro-Duo clamping element PH 130 0 05 with clamping nut

With end ring and clamping screws

PH 130 0 06

D	ВО	NL	L	DB	ID
mm	mm	mm	mm	mm	
60	50	52	83	122	031650 ●



Spare parts:

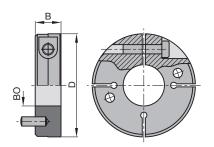
BEZ	ABM	ID
	mm	
Allen key	SW 5	005452 ●
Cylindrical screw with ISK	M6x70	005936 •

Hydro-Duo clamping element PH 130 0 06 with end ring and clamping screws

Clamping collars without thread

TD 870 0

D	В	ВО	ID
mm	mm	mm	
100	25	45	030701 ●
100	25	50	030702 ●



Clamping collar without thread



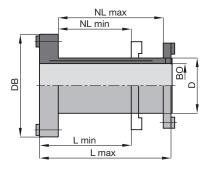












Hydro-Duo clamping element PH 130 0 13 with end ring, clamping screws and safety device against twisting

For spindle without safety device against twisting

Application:

Clamping sleeve for centric, play-free clamping of tool sets, for window tools on stacked spindle machines.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines, window production machines etc.

Technical information:

Hydro-Duo closed hydro clamping system, activation of hydro clamping by internal clamping system without grease gun.

Total length of sleeves adjusted as required.

With end ring, clamping screws and safety device against twisting $\mathsf{PH}\ 130\ 0\ 13$

D	ВО	NL	L	DB	ID
mm	mm	mm	mm	mm	
50	40	35 - 55	60 - 80	85	031658 🗆
50	40	55 - 75	80 - 100	85	031659 🗆
50	40	75 - 95	100 - 120	85	031660 •
60	40	95 - 115	120 - 140	93	031661 •
60	50	35 - 55	60 - 80	93	031655 •
60	50	55 - 75	80 - 100	93	031652 •
60	50	75 - 95	100 - 120	93	031653 •
60	50	95 - 115	120 - 140	93	031654 •
60	50	115 - 135	140 - 160	93	031657 •

Spare parts:

BEZ	ABM	BEM	ID
	mm		
Cylindrical screw with ISK	M6x50		005932 •
Cylindrical screw with ISK	M6x70		005936 •
Cylindrical screw with ISK	M6x90		005939 •
Cylindrical screw with ISK	M6x100		005940 ●
Cylindrical screw with ISK	M6x110		005941 •
Cylindrical screw with ISK	M6x130		006542 ●
Cylindrical screw with ISK	M6x150		006400 •
Countersink screw, Torx® 15	M4x6	for feather key 3	007436 ●
Countersink screw, Torx® 15	M4x10-12.9	for feather key 1,2,4	007437 ●
Feather key 1	19x8x7	· · · · · · · · · · · · · · · · · · ·	008525 ●
Feather key 2	10x8.5x6.5		008526 ●
Feather key 3	19x8x3.5		008527 ●
Feather key 4	19x8x7		008528 •
Allen key	SW 5		005452 ●
Torx [®] key	Torx [®] 15		117507 •

End ring with safety device against twisting

TR 112 0

D	ВО	TK	DIK	ID
mm	mm		mm	
85	50	65	8	008245 ●
93	60	75	8	008222 ●



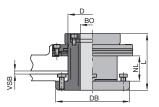


7.1.2 Hydro clamping - closed system

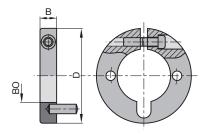








Hydro-Duo clamping element with axial piston clamping and fine adjustment PH 130 0 11



Clamping collar without thread

Spindle without safety device against twisting -Hydro-Duo clamping sleeve with stepless fine adjustment of 2 part tool sets

Application:

Hydro-Duo clamping sleeve with fine thread and axial piston clamping for stepless adjustment of 2 part tool sets. Additional clamping collar with safety device against twisting.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines etc.

Technical information:

High precision fine thread adjustment with a 0.01 mm scale for fine adjustment of 2 part cuttersets with repeatability. Adjustment range 10 mm. Maintenance free hydro clamping mechanism.

With Hydro-Duo 2 chamber axial piston clamping and fine adjustment

PH 130 0 11

D	ВО	ВО	L	DB	VSB	ID
mm	mm	in	mm	mm		
80	40		117	120	10	031555 🗆
80	45		117	120	10	031556 🗆
80	46.04	1 13/15"	117	120	10	031557 🗆
100	50		117	140	10	030566 🗆
100	53.97	2 1/8"	117	140	10	031552 🗆

Spare parts:

BEZ	ABM	ID
	mm	
Allen key	SW 5	005452 ●

Clamping collars without thread

TD 870 0

D	В	ВО	ВО	ID
mm	mm	mm	in	
80	14	40		030713 ●
80	14	45		030714 ●
80	14	46.04	1 13/15"	030715 ●
80	14	50		030716 ●
80	14	53.97	2 1/8"	030717 ●

7.1 Clamping elements

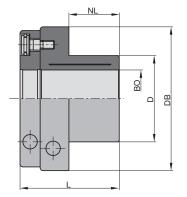


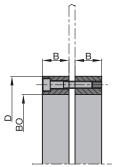






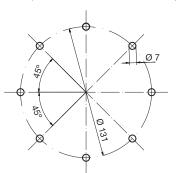






Set of spacers

Bore pattern for tools for mounting on:



Hydro sleeve ID 030555 and 030557

For spindle without safety device against twisting -Hydro-Duo clamping sleeve for saws, cutters and hoggers

Application:

Hydro-Duo clamping sleeve for high precision clamping and flexible positioning of saws, cutters and hoggers on spindles without using spacers or spindle nuts.

Machine:

Multi-blade circular saw machines, four-sided moulders, double-end tenoners etc.

Technical information:

Closed hydro clamping system with maintenance free pressure piston mechanism.

With integrated safety device against twisting

PH 130 0 10

D	ВО	NLA	NL	L	DB	ID
mm	mm	mm	mm	mm	mm	
60	40	3/M6/75	35	69	100	030572 ●
60	50	3/M6/75	35	69	100	030574 ●
90	70	6/M6/106	35	70	120	030571
115	100	6/M6/131	14	49.5	145	030557 ●
115	100	6/M6/131	48.5	84	145	030555 ●

with clamping screws.

Spacer set, aluminium screwed, for mounting saws

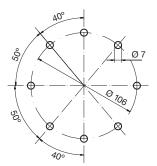
AT 102 0

D	В	ВО	NLA	ID
mm	mm	mm	mm	
120	30	90	6/7/106	028482 ●
145	44	115	6/7/131	028480 ●

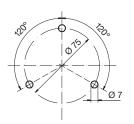
Steel spacers, for mounting sets of sawblades

TR 100 0

D	В	ВО	NLA	ID
mm	mm	mm	mm	
120	0.5	90	8/7/106	028679 ●
120	1	90	8/7/106	028680 ●
120	3	90	8/7/106	028681 •
120	5	90	8/7/106	028682 ●
145	0.5	115	8/7/131	028683 ●
145	1	115	8/7/131	028684 ●
145	3	115	8/7/131	028685 ●
145	5	115	8/7/131	028686 ●



Hydro sleeve ID 030571

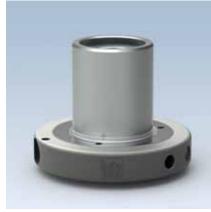


Hydro sleeve ID 030572 und 030574

7.1 Clamping elements



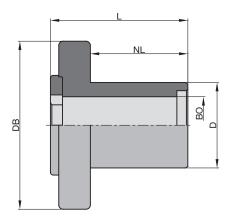
7.1.2 Hydro clamping - closed system











Hydro Duo clamping element PH 130 0 04

Spindle with safety device against twisting hexagon HF spindle 40 Hydro-Duo clamping sleeve

Application:

Hydro-Duo clamping element for play-free clamping cutting tools on high precision spindle with hexagon safety device against twisting (HF spindle) for high concentricity.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines etc.

Technical information:

Closed hydro clamping system with maintenance free pressure piston mechanism. RPM $n_{\rm max}$ 12000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

With end ring and clamping screws, for tool sets with bore 60 mm PH 130 0 $04\,$

D	ВО	NL	L	DB	ID
mm	mm	mm	mm	mm	
60	40	68	96.5	118	030559 •

Spindle fixture consisting of:

Conical spring washer, clamping screw, hexagon spanner, brace.

BEZ	ABM	ID
	mm	
Securing part	for HF-spindle HF 40	066473 ●
Allen key	SW 5	005452 ●



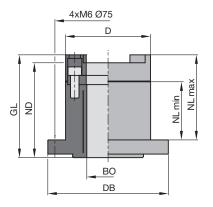












Hydro clamping sleeve PH 130 0

Spindle with safety device against twisting hexagon HF spindle 30 Hydro clamping sleeve

Application:

Hydro clamping sleeve for play-free clamping of cutting tools on high precision spindle with hexagon safety device against twisting (HF spindle 30) for high concentricity.

Machine:

Machines with high precision spindles diameter 30 mm, e.g. edgebanding machines, double-end tenoners, moulders etc.

Technical information:

Closed hydro clamping system with maintenance free pressure piston mechanism. User friendly axial handling of the hydro clamping screw from top. Safety against twisting on the spindle through an appropriate hexagon in the spindle fixture. RPM n_{max} . 12000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

For cutting tools with bore 60 mm

PH 130 0

D	ВО	NL	ND	GL	DB	ID
mm	mm	mm	mm	mm	mm	
60	30	40 - 60	65	72.5	85	030567 ●

Spindle securing part consists of:

Securing parts, clamping screw, hexagon spanner, brace.

BEZ	ABM	ID
	mm	
Securing part	for HF-spindle HF 30	066563 ●
Allen key	SW 5, L 150	005501 ●





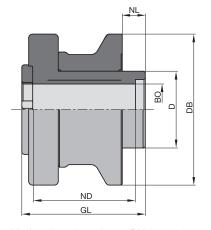
7.1.2 Hydro clamping - closed system











Hydro clamping sleeve PH 130 0 03

Spindle with safety device against twisting hexagon HF spindle 40 Hydro clamping sleeve

Application:

Hydro clamping sleeve for play-free clamping of hogging/cutting tools on high precision spindle with hexagon safety device against twisting (HF spindle) for high concentricity.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines etc.

Technical information:

Closed hydro clamping system with maintenance free pressure piston mechanism. RPM $n_{\rm max}$ 12000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

For cutting tools and hoggers with bore 60/80 mm

PH 130 0 03

D	ВО	NL	ND	GL	DB	ID
mm	mm	mm	mm	mm	mm	
60	40	18	80.3	96.5	118	061702 ●
80	40	18	80.3	96.5	118	061703 ●

Spindle fixture consisting of:

Conical spring washer, clamping screw, hexagon spanner, brace.

BEZ	ABM	ID
	mm	
Securing part	for HF-spindle HF 40	066473 ●





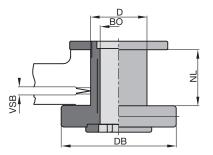




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Hydro-Duo clamping sleeve with fine adjustment PH 130 0 07

Spindle with safety device against twisting hexagon HF spindle 40 Hydro-Duo clamping sleeve, adjustable

Application:

Hydro-Duo clamping sleeve for play-free clamping cutting tools on high precision spindle with hexagon safety device against twisting (HF spindle). With extra fine thread and dual piston clamping for stepless adjustment of 2 part tool sets on the spindle.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines etc.

Technical information:

Closed hydro clamping system with maintenance free pressure piston mechanism. RPM $n_{\text{max.}}$ 12000 min^{-1} .

Dual piston clamping, independent clamping: sleeve - spindle and sleeve - tool. **Attention:** Comply with maximum admissible speed for the mounted tools!

With dual piston clamping and hexagon safety device against twisting, fine adjustment

PH 130 0 07

D	ВО	NL	DB	VSB	ID
mm	mm	mm	mm		
60	40	58	122	2	030553 •
60	40	58	122	10	030556 ●

Included in delivery: Duo sleeve complete with parts for mounting cutter and adjusting mechanism.

BEZ	ABM	ID
	mm	
Allen key	SW 5	005452 ●





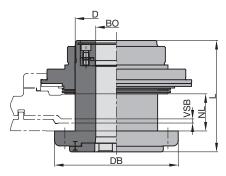
7.1.2 Hydro clamping - closed system











Hydro-Duo clamping element with axial piston clamping and fine adjustment PH 130 0 14

Spindle with safety device against twisting hexagon HF spindle 40 Hydro-Duo clamping sleeve, adjustable

Application

Hydro-Duo clamping sleeve for play-free clamping cutting tools on high precision spindle with hexagon safety device against twisting (HF spindle). Model with extra fine thread and axial dual piston clamping for stepless adjustment of 2 part tool sets on the spindle.

Machine:

Machines with high precision spindles, e.g. moulders, double-end tenoners, edgebanding machines etc.

Technical information:

Closed Hydro-Duo clamping system with axial dual piston clamping, independent clamping: sleeve - spindle and sleeve - tool.

With dual piston clamping and hexagon safety device against twisting, fine adjustment

PH 130 0 14

D	ВО	NL	L	DB	VSB	ID
mm	mm	mm	mm	mm		
80	40	45	108	120	4	031560 🗆
80	40	54	108	120	10	030562 🗆

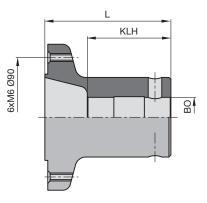
BEZ	ABM	ID
	mm	
Allen key	SW 5	005452 ●

7.1 Clamping elements

7.1.3 Clamping sleeves







Flanged sleeve TB 300 0

Flanged sleeve

Application:

Flanged sleeve for mounting scoring and grooving sawblades.

Machine:

Double-end tenoners, edgebanding machines etc.

Technical information:

For standard spindle (DKN). Case hardened steel tool body with high concentricity. Spindle fixing parts are supplied by the machine manufacturer.

For circular sawblades with bore 65 mm

TB 300 0

Machine	L	KLH	ВО	ID
	mm	mm	mm	
Homag, IMA	95	63	30 DKN	065600 ●

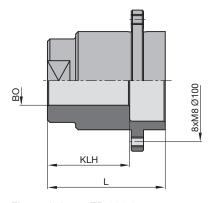
Machine	ABM	ID
	mm	
	M6x10	005780 ●
IMA	48x24x18	066561 ●
IMA	48x24x18	066562 ●
Homag	40x9x17	066567 ●
	IMA IMA	mm M6x10 IMA 48x24x18 IMA 48x24x18

7.1 Clamping elements

7.1.3 Clamping sleeves







Flanged sleeve TB 300 0

Flanged sleeve

Application:

Flanged sleeve for mounting hoggers, segment hoggers, solid hoggers and folding hoggers.

Machine:

Double-end tenoners, finger joint machines, edgebanding machines etc.

Technical information:

For standard spindle (with or without keyway). Case hardened steel tool body with high concentricity. Spindle fixing parts are supplied by the machine manufacturer.

For cutting and hogging tools with bore 80 mm

TB 300 0, TB 300 0 01, TB 300 0 03, TB 300 0 06, TB 300 0 08, TB 300 0 11, TB 300 0 12

Machine	L	KLH	ВО	ID
	mm	mm	mm	
Schwabedissen	96	67	40 DKN	061654 ●
Torwegge	90	63	35 DKN	061655 ●
Celaschi	95	65	35 KN	061652 •
Grecon	75	45	30 KN	061660 ●
Homag, IMA	90	63	35 KN	061650 ●
* Gabbiani	95	65	40 DKN	061657 ●
Dimter, Grecon	59	44	40 DKN	061679 ●

^{* =} L and KLH values include 13 mm spacer thickness.

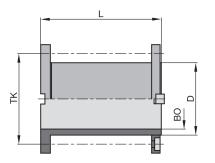
BEZ	ABM	ID
	mm	
Cylindrical screw with ISK	M8x18	005945 ●
Cylindrical screw with ISK	M8x20	005946 ●

7.1 Clamping elements

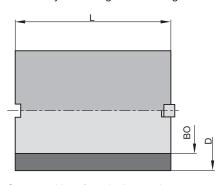
7.1.3 Clamping sleeves







Clamping sleeve TB 260 0 with end ring and safety device against twisting



Spacer with safety device against twisting

Clamping sleeve with end ring

Application:

Clamping sleeve for mounting sets of single tools.

Machine:

Spindle moulders, moulders, double end tenoners, edgebanding machines and window production machines.

Technical information:

Suitable for the use with several tool sets mounted on top of each other e.g. stacked spindle machines.

With end ring and safety device against twisting

TB 260 0

D	ВО	TK	L	ID
mm	mm		mm	
50	40	65	112	029676 ●
60	40	75	112	029677 ●
60	40	75	100	029678 ●
60	50	75	100	029679 ●
60	50	75	95	029680 •
60	50	75	80	029697 ●

Spare parts:

BEZ	for L	ABM	ID
	mm	mm	
Cylindrical screw with ISK	80	M6x74	007075 ●
Cylindrical screw with ISK	100	M6x94	007077 ●
Cylindrical screw with ISK	112	M6x106	007078 ●
Countersink screw, Torx® 15		M4x10-12.9	007437 ●
Feather key		B 8x7x16	008506 ●
Allen key		SW 5	005452 ●
Torx [®] key		Torx [®] 15	117507 ●
•			

Application:

Spacer element for use with clamping sleeves with safety device against twisting to fill free spindle lengths.

Spindle filler spacers with safety device against twisting

TR 112 0

D	ВО	KLH	ID
mm	mm	mm	
77	50	60	027875 ●
77	50	80	027876 ●
77	50	100	027878 ●

Clamping elements 7.1

7.1.3 Clamping sleeves





Reducing sleeve

Application:

Reducing sleeve with/without flange for cutting tools and tool sets for use on spindles of various diameters.

Machine:

Spindle moulders, plug cutters etc.

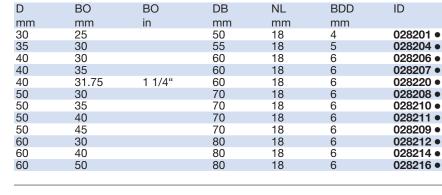
Technical information:

The length of the reducing sleeve should be approximately 2 mm shorter than the width of the hub or the total height of the tool/tool set.

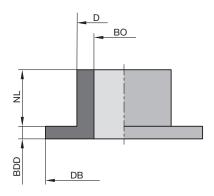
For safety reasons, the use of reducing sleeves should be avoided if possible.

With flange

TB 200 0







Reducing sleeve TB 200 0 with flange

Reducing sleeve TB 100 0 01 without flange

Without flange

TB 100 0 01

1000001			
D	ВО	L	ID
mm	mm	mm	
35	30	10	028290 •
35	30	40	028293 ●
35	30	60	028294 ●
35	30	96	028295 ●
40	30	20	028296 ●
40	30	40	028298 ●
40	30	53	028300 ●
40	30	60	028301 •
40	30	96	028302 ●
40	35	30	028304 •
40	35	40	028305 ●
40	35	60	028306 ●
40	35	96	028307 ●
50	40	96	028310 •



7.2.1 Hydro clamping - closed system

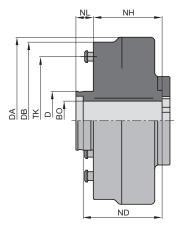












Hydro quick clamping sleeve type 160 HF

Spindle with safety device against twisting hexagon HF spindle 40 Quick clamping sleeve type 160 Hydro

Quick clamping sleeve for tools and hoggers on high precision spindle D = 40 mm with hexagon safety device against twisting.

Double-end tenoners, edgebanding machines etc.

Technical information:

Hardened steel tool body, with mechanical quick clamping mechanism without compressed air. Tool is mounted directly on the quick clamping system without intermediate flange, closed hydro clamping system with maintenance free pressure piston mechanism, suitable for right hand and left hand rotation.

RPM $n_{max} = 9000 \text{ min}^{-1}$. Tools must have four bayonet holes on 130 mm pitch. Attention: Comply with maximum admissible speed for the mounted tools!

For tools and hoggers

PH 110 0 01

BEM	DA	DB	D	ND	NH	NL	ВО	TK	Clamping bolts	ID
	mm	mm	mm	mm	mm	mm	mm		PCS	
For HF-spindle with	170	160	60	80	70	17.7	40	130	4	150100 •
hexagon										

Spare parts:

BEZ	ABM	ID
	mm	
Securing part	for HF-spindle HF 40	066473 ●
Hexagon key	SW 6	117516 ●

Spindle securing part consists of:

Conical spring washer, clamping screw, hexagon spanner, brace.







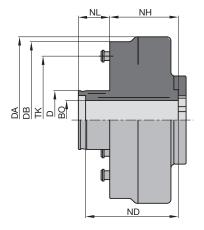


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Hydro-Duo quick clamping sleeve type 160 HF

Spindle with safety device against twisting hexagon HF spindle 40 Quick clamping sleeve type 160 Hydro-Duo

Application:

Quick clamping sleeve for tools and hoggers on high precision spindle $D=40\,$ mm with hexagon safety device against twisting. Double acting hydro centering clamping eliminating the tolerance between spindle, clamping element and tool.

Machine:

Double end tenoners, edgebanding machines etc.

Technical information:

Hardened steel tool body, with mechanical quick clamping mechanism without compressed air. Tool is mounted directly on the quick clamping system without intermediate flange, closed hydro clamping system with maintenance free pressure piston mechanism, suitable for right hand and left hand rotation.

RPM $n_{max} = 9000 \text{ min}^{-1}$. Tools must have four bayonet holes on 130 mm pitch. **Attention:** Comply with maximum admissible speed for the mounted tools!

For tools and hoggers

PH 110 0 02

BEM	DA	DB	D	ND	NH	NL	ВО	TK	Clamping bolts	ID
	mm	mm	mm	mm	mm	mm	mm		PCS	
For HF-spindle with	170	160	60	80	56	32	40	130	4	150200 •
hexagon										

Spare parts:

BEZ	ABM	ID
	mm	
Securing part	for HF-spindle HF 40	066473 ●
Hexagon key	SW 6	117516 ●

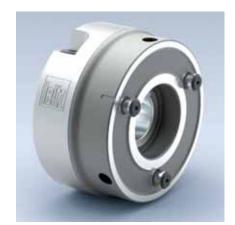
Spindle securing part consists of:

Conical spring washer, clamping screw, hexagon spanner, brace.

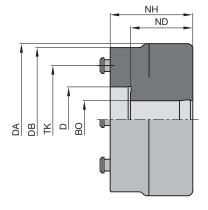
7.2 Quick clamping elements

7.2.2 Mechanical clamping

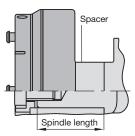








Quick clamping sleeve



Quick clamping sleeve, flush mounted on spindle

Spindle with safety device against twisting - keyway Quick clamping sleeve type 110

Application:

For quick clamping of scoring sawblades, grooving sawblades and tools.

Machine

Double-end tenoners, finger joint machines, edgebanding machines etc.

Technical information:

For standard spindle (DKN), hardened steel tool body with mechanical operation of the quick clamping mechanism without compressed air. Tool is mounted directly or by using a flange, suitable for right hand rotation and left hand rotation.

For scoring sawblades and tools

PM 110 0 01

DA	DB	D	ND	NH	ВО	DKN	TK	Clamping bolts	ID
mm	mm	mm	mm	mm	mm	mm		PCS	
116	110	50	47.5	63	30	8x3	80	3	150000 ●

Spare parts:

BEZ	Machine	ID	ID
		LH	RH
Securing part	IMA	066477 ●	066477 ●
Securing part	Homag	066541 •	066540 ●
Hexagon key			117516 ●

Spindle securing part consists of:

Conical spring washer, clamping nut or clamping screw, spanner or hexagon spanner, brace.

Application:

Spacer for flush mounting when using flanges type 110/2.

Spacer for flush mounting

TR 111 0

Machine	ABM	ABM-spindle	ID
	mm	mm	
Homag, IMA	60x26x30,DKN	30 DKN x68	028800 ●



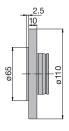


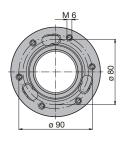




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Tool flange type 110/2 for scoring saws

Spindle with safety device against twisting - keyway tool flange type 110

Application:

Tool flange for quick clamping sleeve type 110. Hardened steel tool body for quick clamping of scoring/grooving sawblades.

Machine:

Double end tenoners, finger joint machines, edgebanding machines etc.

Technical information:

Tool mounted directly on tool flange. RPM n_{max} 12000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

Tool flange

TD 883 0 01

Tool Type	ID	ID
	LH	RH
110/2 for scoring saws mounted on flange	159051 •	159052 •

7.2 Quick clamping elements

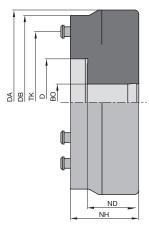
7.2.2 Mechanical clamping



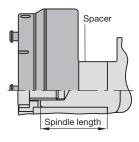


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Quick clamping sleeve



Quick clamping sleeve, flush mounted on spindle

Spindle with safety device against twisting - keyway Quick clamping sleeve type 160

Application:

For quick clamping of hoggers and tools.

Machine

Double-end tenoners, edgebanding machines etc.

Technical information:

For standard spindle (KN/DKN). Hardened steel tool body, with mechanical operation of the quick clamping mechanism without compressed air. Tool is mounted directly on the quick clamping sleeve or by a flange, suitable for right hand rotation and left hand rotation. RPM n_{max} 9000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

For tools and hoggers

PM 110 0 01

DA	DB	D	ND	NH	ВО	TK	Clamping bolts	ID
mm	mm	mm	mm	mm	mm		PCS	
170	160	80	47.5	63	35 DKN	130	4	150001 •
170	160	80	47.5	63	40 DKN	130	4	150008 •

Spare parts:

Machine	BEZ	ID ID
		LH RH
Homag	Securing part	066460 ● 066461 ●
IMA	Securing part	066556 ● 066556 ●
	Hexagon key	117516 ●

Spindle securing part consists of:

Conical spring washer, clamping nut or clamping screw, spanner or hexagon spanner, brace.

Application:

Spacer for flush mounting when using cutter flange type 160/2, type 160/3.

Spacer / set for flush mounting

AT 100 0

M	achine	Type	ABM	ABM-spindle	ID
			mm	mm	
IN	1A	160/2 - 3	60x15/20x35.DKN	35 DKNx93	028803 •
H	omag	160/2 - 3	60x10/20x35.DKN	35 DKNx70	028804 •

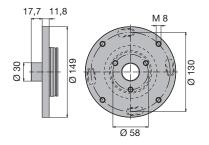




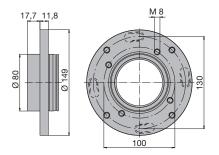
leitz







Tool flange type 160/1, for tools



Tool flange type 160/2, for hoggers

Spindle with safety device against twisting - keyway tool flange type 160

Application:

Tool flange for quick clamping sleeve type 160. Hardened steel tool body for quick clamping of tools and hoggers.

Machine:

Double-end tenoners, finger joint machines, edgebanding machines etc.

Technical information:

Tool mounted directly on the flange. RPM n_{max} 9000 min⁻¹.

Attention: Comply with maximum admissible speed for the mounted tools!

Tool flange

TD 882 0 01, TD 883 0 01

Tool Type	ID	ID
	LH	RH
160/1 for cutting tools BO 30 mm/NL 17.7	159059 ●	159060 •
160/2 for hoggers BO 80 mm/NL 17.7	159063 •	159064 •

7.3 Clamping chucks 7.3.1 Shrink-fit chucks





Shrink-fit chuck ThermoGrip® Tapered

Application:

High precision tool chuck for clamping shank tools by thermal shrinking. Has the highest stability and rigidity of all known shank tools clamping systems, suitable for HSC and HPC machining.

Technical information:

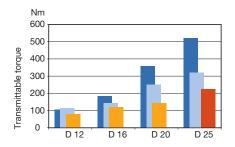
Tool chuck for high performance. Precision-balanced for speeds up to 36000 min⁻¹. Short, slim design for improved chip flow extraction. For clamping tungsten carbide and steel shanks. Clamping eccentricity $e \le 0.01$ mm. Integrated length adjustment to adopt the clamping depth of the tool.

SK 30, DIN ISO 7388

PT 301 0

Type	d	D	Α	Length adj.	STO	Weight	ID
	mm	mm	mm	mm		kg	
Α	12	34	70	7	g6	0.7	670200 □
Α	16	34	70	7	g6	0.7	670201 🗆
Α	20	42	70	7	g6	0.8	670202 🗆
Α	25	42	80	7	g6	1.0	670210 🗆
В	12	34	70	7	g6	0.7	670203 □
В	16	34	70	7	g6	0.7	670204 🗆
В	20	42	70	7	g6	0.8	670205 □
В	25	42	80	7	g6	1.0	670211 🗆

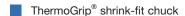
Comparison of transferable torque of traditional clamping chucks



SK 40, DIN ISO 7388

PT 301 0

Type	d	D	Α	Length adj.	STO	Weight	ID
	mm	mm	mm	mm		kg	
E	12	34	70	7	g6	1.1	670206 🗆
E	16	34	70	7	g6	1.1	670207 🗆
E	20	42	70	7	g6	1.2	670208 🗆
F	25	42	80	7	a6	1.2	670209 □

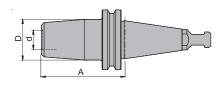


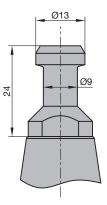
Collet DIN ISO 10897-B25, 75 Nm Tightening torque

Collet DIN ISO 15488-B32 (ER32), 75 Nm Tightening torque

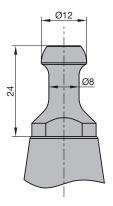
Hydro clamping chuck

The clamping range of collet chucks and hydro clamping chucks includes shank tolerances g7 and h6. Leitz ThermoGrip® chucks are designed for a shank tolerance h6 for clamping diameters d < 12 mm and a shank tolerance g6 for clamping diameters $d \ge 12$ mm.

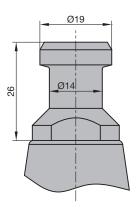




Type: A SK 30 pull stud as per DIN ISO 7388



Type: B SK 30/ISO 30 pull stud for HSD spindles from construction year 9/92 on



Type: E SK 40 pull stud as per DIN ISO 7388

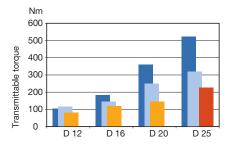
7.3 Clamping chucks

7.3.1 Shrink-fit chucks



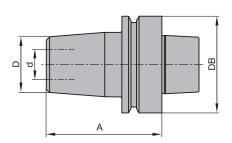


Comparison of transferable torque of traditional clamping chucks



- ThermoGrip® shrink-fit chuck
- Collet DIN ISO 10897-B25, 75 Nm Tightening torque
- Collet DIN ISO 15488-B32 (ER32), 75 Nm Tightening torque
- Hydro clamping chuck

The clamping range of collet chucks and hydro clamping chucks includes shank tolerances g7 and h6. Leitz ThermoGrip® chucks are designed for a shank tolerance h6 for clamping diameters d < 12 mm and a shank tolerance g6 for clamping diameters $d \ge 12$ mm.



Shrink-fit chuck ThermoGrip® with hollow taper shank

Application:

High precision tool chuck for clamping shank tools by thermal shrinking. Has the highest stability and rigidity of all known shank tools clamping systems, suitable for HSC and HPC machining.

Technical information:

Tool chuck for high performance. Precision-balanced for speeds up to 36000 min⁻¹. Short, slim design for improved chip flow extraction. For clamping tungsten carbide and steel shanks. Clamping eccentricity $e \le 0.01$ mm.

HSK-E 63, DIN 69893

PT 300 0

d	D	Α	STO	Weight	ID
mm	mm	mm		kg	
8	27	75	h6	0.9	670002 ●
10	32	75	h6	0.9	670003 •
12	34	75	g6	0.9	670004 •
14	34	75	g6	0.9	670005 ●
16	34	75	g6	0.9	670006 •
18	42	75	g6	1.0	670007 ●
20	42	75	g6	1.0	670008 •
25	42	75	g6	1.0	670009 •
32	53	90	g6	1.2	670016 •

HSK-F 63, DIN 69893

PT 300 0

d mm	d in	D mm	A mm	STO	Weight kg	ID With chip	ID Without chip
6		27	75	h6	0.8	037753 🗆	037713 •
8		27	75	h6	0.8	037754 🗆	037714 ●
9.53	3/8"	32	75	h6	0.9	670013 🗆	670010 ●
10		32	75	h6	0.9	037755 🗆	037715 ●
10		32	120	h6	1.0		670017 ●
12		34	75	g6	0.9	037752 🗆	037712 •
12		34	90	g6	1.0		670018 •
12		34	120	g6	1.1		670019 •
12.7	1/2"	34	75	h6	0.9	670014 🗆	670011 ●
14		34	75	g6	0.9	037756 🗆	037716 •
16		34	75	g6	0.9	037719 🗆	037709 •
16		34	95	g6	1.0		670020 •
16		34	120	g6	1.0		670021 ●
18		42	75	g6	1.0	037757 🗆	037718 •
19.05	3/4"	42	75	h6	0.9	670015 🗆	670012 •
20		42	75	g6	1.0	037750 🗆	037710 •
20		42	100	g6	1.2		670022 ●
25		42	75	g6	0.9	037751 🗆	037711 •
32		53	90	g6	1.2	670001 🗆	670000 •

Note:

Chucks with chip already have a data chip (511 bytes) ID **081309** ex works. Chips with larger capacity are available on request.

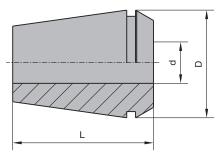


7.3.1 Shrink-fit chucks





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Shrink-fit collet TER, TB 120 0 01

Note:

Corresponding accessories for shrink-fit units are required in order to use shrink-fit collets TER - ER together with the shrink-fit units ISG 22xx / 32xx or 24xx / 34xx.

See: Brochure ThermoGrip® shrink-fit generator.

Shrink collet ThermoGrip®, Type TER, DIN ISO 15488

Application:

High precision tool chuck for clamping shank tools by thermal shrinking. Has the highest stability and rigidity of all known shank tools clamping systems, suitable for HSC and HPC machining.

Technical information:

Replacement for conventional spring collets to increase concentricity, rigidity and speed strength. Universal design for the adaptation of shank tools in machining aggregates as well as direct clamping in spindles with integrated collet adaptor. For clamping of carbide and steel shanks. Clamping eccentricity $e \leq 0.01\,$ mm. **Attention**: In order to mount the collet nut in the shrinked tool, the tool diameter is not allowed to be larger than the collar diameter (DB) stated in the table. In individual cases the existing clamping nut must be exchanged with the version stated in the

TER - ER16, DIN ISO 15488, 8°

TB 120 0 01

BEZ	d	D	DB	L	ID
	mm	mm	mm	mm	
Shrink collet	3	17	12.5	27	679500 □
Shrink collet	4	17	12.5	27	679501 □
Shrink collet	6	17	12.5	27	679502 🗆
Shrink collet	8	17	12.5	27	679503 □

Spare parts:

BEZ	ABM	D	ID
	mm	mm	
Collet chuck nut	M22x1.5	28	006657 □

TER - ER20, DIN ISO 15488, 8°

TB 120 0 01

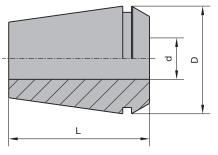
BEZ	d	D	DB	L	ID
	mm	mm	mm	mm	
Shrink collet	6	21	15.5	31	679504 🗆
Shrink collet	8	21	15.5	31	679505 □
Shrink collet	10	21	15.5	31	679506 □

BEZ	ABM	D	ID
	mm	mm	
Collet chuck nut	M25x1.5	34	006658 🗆

7.3 Clamping chucks 7.3.1 Shrink-fit chucks







Shrink-fit collet TER, TB 120 0 01

Note:

Corresponding accessories for shrink-fit units are required in order to use shrink-fit collets TER - ER together with the shrink-fit units ISG 22xx / 32xx or 24xx / 34xx.

See: Brochure ThermoGrip® shrink-fit generator.

Shrink collet ThermoGrip®, Type TER, DIN ISO 15488

Application:

High precision tool chuck for clamping shank tools by thermal shrinking. Has the highest stability and rigidity of all known shank tools clamping systems, suitable for HSC and HPC machining.

Technical information:

Replacement for conventional spring collets to increase concentricity, rigidity and speed strength. Universal design for the adaptation of shank tools in machining aggregates as well as direct clamping in spindles with integrated collet adaptor. For clamping of carbide and steel shanks. Clamping eccentricity $e \leq 0.01\,$ mm. **Attention**: In order to mount the collet nut in the shrinked tool, the tool diameter is not allowed to be larger than the collar diameter (DB) stated in the table. In individual cases the existing clamping nut must be exchanged with the version stated in the

TER - ER25, DIN ISO 15488, 8°

TB 120 0 01

BEZ	d	D	DB	L	ID
	mm	mm	mm	mm	
Shrink collet	3	26	20	35	679507 □
Shrink collet	4	26	20	35	679508 🗆
Shrink collet	6	26	20	35	679509 🗆
Shrink collet	8	26	20	35	679510 🗆
Shrink collet	10	26	20	35	679511 🗆
Shrink collet	12	26	20	35	679512 🗆
Shrink collet	14	26	20	35	679513 🗆
Shrink collet	16	26	20	35	679514 🗆

Spare parts:

BEZ	ABM	D	ID
	mm	mm	
Collet chuck nut	M32x1.5	42	006659 🗆

TER - ER32, DIN ISO 15488, 8°

TB 120 0 01

BEZ	d	D	DB	L	ID
	mm	mm	mm	mm	
Shrink collet	6	33	26	40	679515 🗆
Shrink collet	8	33	26	40	679516 🗆
Shrink collet	10	33	26	40	679517 □
Shrink collet	12	33	26	40	679518 🗆
Shrink collet	14	33	26	40	679519 🗆
Shrink collet	16	33	26	40	679520 □
Shrink collet	18	33	26	40	679521 □
Shrink collet	20	33	26	40	679522 □

BEZ	ABM	D	ID
	mm	mm	
Collet chuck nut	M40x1.5	50	006660 🗆



7.3.2 Hydro chucks





Hydro chucks for shank tools with hollow shank taper HSK-F 63

Application:

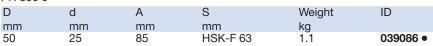
High precision tool chuck for hydro clamping shank tools with cylindrical shank and shank diameters up to $d_{\text{max}} = 25$ mm.

Technical information:

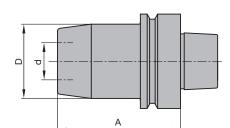
Reduction of clamping diameter by special reduction inserts. Independent of direction of rotation, suitable for right hand and left hand rotation tool. Axial safety device by special length adjustment screw. Easy handling clamping system. Tool adaptor finely balanced. Maximum admissible speed $n_{\text{max}} = 25000 \text{ min}^{-1}$.

Clamping diameter 25 mm

PH 350 0



Sales unit consisting of chuck and clamping key.



Hydro chuck HSK-F 63

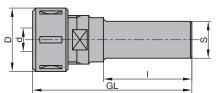
BEZ	ABM	ID
	mm	
Reducing sleeve	d12/25x56x12	039081 •
Reducing sleeve	d14/25x56x14	039082 •
Reducing sleeve	d16/25x56x16	039083 •
Reducing sleeve	d20/25x56x20	039084 •
Length adjustment screw	M8x25/14.5x35	007069 •
Length adjustment screw	M6x25	007071 •
Allen key	SW 5	005446 ●

7.3 Clamping chucks

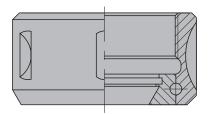
7.3.3 Collet chucks



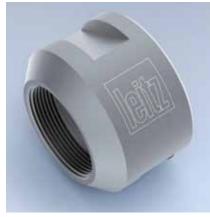


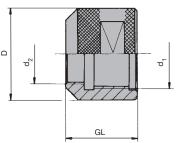


Collet chuck with cylindrical shank



Ball bearing collet nut





Fixing nut TK 510 0 d₁ = machine related d₂ = tool related

Precision collet chuck, cylindrical shank

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 16$ mm.

Technical information:

Exact concentricity through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design.

Model with ball bearing collet nut

PM 350 0 03

D	d	GL	Α	S	Type	ID
mm	mm	mm	mm	mm		
35	6 - 12.7	77		25x50	1	671001 ●
43	6 - 16	115	55	MK II / M30	2	037493 •
43	6 - 16	108		25x60	2	037494 •

Sales unit consists of clamping chuck, collet nut and key, without collet.

Spare parts:

opare parto.				
BEZ	ABM	for S	ID	ID
	mm	mm	Type	Type
			1	2
Collet (2°52')		6	679013 •	037473 •
Collet (2°52')		7	679015 ●	
Collet (2°52')		8	679016 •	037475 ●
Collet (2°52')		9	679017 •	037476 •
Collet (2°52')		9.5		037477 ●
Collet (2°52')		10	679019 •	037479 •
Collet (2°52')		11		037480 •
Collet (2°52')		12	679020 •	037481 •
Collet (2°52')		13		037483 •
Collet (2°52')		14		037485 ●
Collet (2°52')		16		037486 •
Collet (2°52')		6.35 (1/4")	679014 •	037474 •
Collet (2°52')		9.53 (3/8")	679018 •	037478 •
Collet (2°52')		12.7 (1/2")	679021 •	037482 •
Sickle spanner	34/36	, ,	005498 •	
Sickle spanner	40/42			005469 •
Collet chuck nut	M27x1.5		006653 •	
Collet chuck nut with	M33x1.5			005685 •
ball bearing				

Clamping nut for morse taper II shanks

Application:

For clamping tools or tool chucks with morse taper II shanks (MK II).

Technical information:

 d_1 = W 1 3/8" suitable for Perske and Maka motor spindles.

 $d_1 = M 33 X 3$ suitable for Italian routers.

With differential thread

TK 510 0

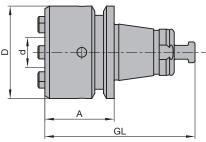
D	d_1	d_2	GL	ID
mm	mm	mm	mm	RH
45	W 1 3/8"	M30x1,5	30	005682 ●
45	M33x3	M30x1,5	35	006624 ●

7.3 Clamping chucks

7.3.3 Collet chucks







Collet chuck

Collet chuck with steep taper for CNC aggregates

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 16$ mm (5/8").

Technical information:

Steep taper design for Flex 5+ aggregates (Homag Group) and 5-motion-Plus aggregate (Felder Format-4). Exact concentric running through hardened, ground and double slotted collets. Easy handling through automatic opening of the collet when opening the collet nut. Tool adaptor and collet nut fine balanced. Maximum tool protrusion of the chuck = 50 mm. A collet with clamping diameter 10 mm is included.

A = 30 mm, diameter range 3-16 mm

PM 350 0

Machine	D	d	Α	GL	Weight	ID
	mm	mm	mm	mm	kg	
Felder Format-4,	40	3 - 16	30	65	0.3	672002 ●
Homag Group						

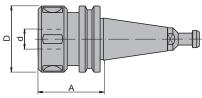
•			
BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037979 ●
Collet (8°)		8	037980 ●
Collet (8°)		10	037981 ●
Collet (8°)		12	037982 ●
Collet (8°)		14	037983 •
Collet (8°)		16	037984 ●
Collet (8°)		6.35	679027 ●
Collet (8°)		9.53	679028 ●
Collet (8°)		12.7	679029 ●
Collet (8°)		15.88	679030 ●
Clamping key	E25AX		117519 ●
Collet chuck nut	ERAX25		116501 🗆

7.3 Clamping chucks

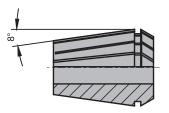




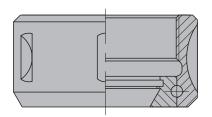




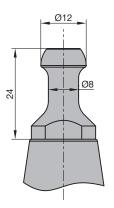
Collet chuck with steep taper



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut



Type: B SK 30/ISO 30 pull stud for HSD spindles from construction year 9/92 on

Collet chuck with steep taper SK 30

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 20$ mm.

Technical information:

Steep taper design as per DIN ISO 7388, without grooves and notches. Exact concentric running through hardened, ground and double slotted collets. Vibration free cutting by short design. Easy handling through automatic opening of the collet when loosening the collet nut. Suitable for right hand and left hand rotation due to ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

SK 30, A = 50 / 63 mm, diameter range 6-20 mm, 8° taper angle of the collet PM $350\ 0\ 04$

Type	D	d	Α	S	Weight	ID
	mm	mm	mm	mm	kg	
В	50	6 - 20	50	SK 30	0.6	037904 •
В	50	6 - 20	63	SK 30	0.7	672001 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

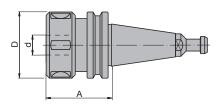
BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037439 •
Collet (8°)		8	037440 •
Collet (8°)		10	037441 •
Collet (8°)		12	037442 ●
Collet (8°)		13	037443 •
Collet (8°)		14	037444 •
Collet (8°)		16	037445 ●
Collet (8°)		18	037446 ●
Collet (8°)		20	037447 ●
Collet (8°)		6.35 (1/4")	037509 •
Collet (8°)		9.53 (3/8")	037510 •
Collet (8°)		12.7 (1/2")	037511 ●
Collet (8°)		15.88 (5/8")	037507 ●
Collet (8°)		19.05 (3/4")	037506 ●
Sickle spanner	45/50		005491 •
Collet chuck nut with ball bearing	M40x1.5		005718 ●



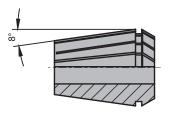
7.3.3 Collet chucks



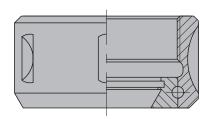




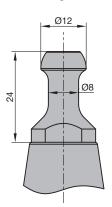
Collet chuck with steep taper



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut



Type: B SK 30/ISO 30 pull stud for HSD spindles from construction year 9/92 on

Collet chuck with steep taper SK 30

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to d_{max} = 25.4 mm (1").

Technical information:

Steep taper design as per DIN ISO 7388, without grooves and notches. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

SK 30, A = 61 mm, 8° taper angle of collet, diameter range 6-25.4 mm PM $350\ 0\ 16$

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
В	63	6 - 25.4	61	0.9	037968 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

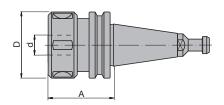
BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037926 •
Collet (8°)		8	037927 ●
Collet (8°)		10	037928 •
Collet (8°)		12	037929 •
Collet (8°)		14	037930 •
Collet (8°)		16	037931 •
Collet (8°)		20	037932 •
Collet (8°)		25	037933 •
Collet (8°)		6.35 (1/4")	037934 •
Collet (8°)		9.53 (3/8")	037935 •
Collet (8°)		12.7 (1/2")	037936 •
Collet (8°)		15.88 (5/8")	037937 •
Collet (8°)		19.05 (3/4")	037938 •
Collet (8°)		25.4 (1")	037939 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M50x1.5		006639 •

7.3 Clamping chucks

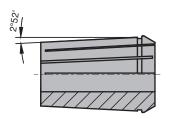
7.3.3 Collet chucks



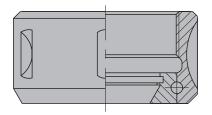




Collet chuck with steep taper



Collet angle 2°52': DIN ISO 10897



Ball bearing collet nut

Collet chuck with steep taper SK 30 / SK 40

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 25.4 \text{ mm } (1^{\circ}).$

Technical information:

Steep taper design as per DIN ISO 7388, without grooves and notches. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

SK 30, A = 70 mm, diameter range 6-25.4 mm

PM 350 0 05

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
Α	60	6 - 25.4	70	0.9	037421 •

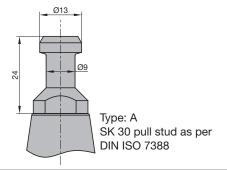
SK 40, A = 70 mm, diameter range 6-25.4 mm

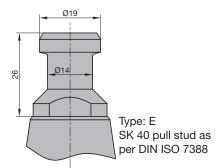
PM 350 0 05

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
E	60	6 - 25.4	70	1.5	037422 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 ●
Collet (2°52')		10	037431 ●
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 ●
Collet (2°52')		14	037434 ●
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 ●
Collet (2°52')		20	037437 ●
Collet (2°52')		25	037438 ●
Collet (2°52')		6.35 (1/4")	037495 ●
Collet (2°52')		9.53 (3/8")	037505 ●
Collet (2°52')		12.7 (1/2")	037496 ●
Collet (2°52')		15.88 (5/8")	037502 ●
Collet (2°52')		19.05 (3/4")	037497 ●
Collet (2°52')		25.4 (1")	037508 ●
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M48x2		005714 ●
Locking nut with Euchner chip	SK 40, 511 Bytes		081600 ●
Locking nut with Balluff chip	SK 40, 511 Bytes		081601 ●



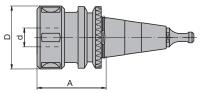


7.3 Clamping chucks

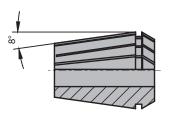
7.3.3 Collet chucks



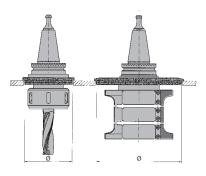




Collet chuck ISO 30 with serration



Collet angle 8°: DIN ISO 15488



Tool chucks in the "pick-up" magazine. Chuck and arbors with aluminium discs required. All Leitz tool chucks for SCM/ Morbidelli can be equipped with aluminium discs. These allow the chucks to be used on machines with "pick-up" tool magazines. Diameter of aluminium discs available on request.

Collet chuck with steep taper ISO 30 for SCM and Morbidelli

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max}=20\ mm.$

Technical information:

Steep taper design ISO 30, with serration. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

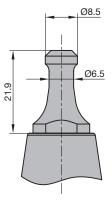
A = 55 mm, diameter range 6-20 mm

PM 350 0 09

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
D	50	6 - 20	55	0.6	037418 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)	111111	6	037439 •
Collet (8°)		8	037440 •
Collet (8°)		10	037441 •
Collet (8°)		12	037442 ●
Collet (8°)		13	037443 ●
Collet (8°)		14	037444 ●
Collet (8°)		16	037445 ●
Collet (8°)		18	037446 ●
Collet (8°)		20	037447 ●
Collet (8°)		6.35 (1/4")	037509 •
Collet (8°)		9.53 (3/8")	037510 •
Collet (8°)		12.7 (1/2")	037511 ●
Collet (8°)		15.88 (5/8")	037507 ●
Collet (8°)		19.05 (3/4")	037506 ●
Sickle spanner	45/50	• •	005491 •
Collet chuck nut with ball bearing	M40x1.5		005718 ●



Type: D ISO 30 pull stud Morbidelli, SCM

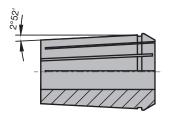
7.3 Clamping chucks 7.3.3 Collet chucks



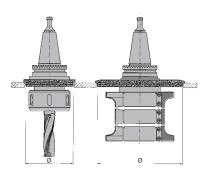


A

Collet chuck ISO 30 with serration



Collet angle 2°52': DIN ISO 10897



Tool chucks in the "pick-up" magazine. Chuck and arbors with aluminium discs required. All Leitz tool chucks for SCM/ Morbidelli can be equipped with aluminium discs. These allow the chucks to be used on machines with "pick-up" tool magazines. Diameter of aluminium discs available on request.

Collet chuck with steep taper ISO 30 for SCM and Morbidelli

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max}=25.4~mm$ (1").

Technical information:

Steep taper design ISO 30, with serration. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

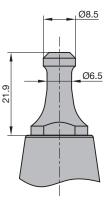
A = 70 mm, diameter range 6-25.4 mm

PM 350 0 09

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
D	60	6 - 25.4	70	0.9	037910 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 •
Collet (2°52')		10	037431 •
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 ●
Collet (2°52')		14	037434 ●
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 •
Collet (2°52')		20	037437 •
Collet (2°52')		25	037438 •
Collet (2°52')		6.35 (1/4")	037495 ●
Collet (2°52')		9.53 (3/8")	037505 ●
Collet (2°52')		12.7 (1/2")	037496 ●
Collet (2°52')		15.88 (5/8")	037502 ●
Collet (2°52')		19.05 (3/4")	037497 •
Collet (2°52')		25.4 (1")	037508 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M48x2		005714 ●



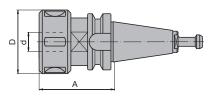
Type: D ISO 30 pull stud Morbidelli, SCM

7.3 Clamping chucks

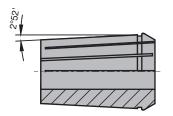
7.3.3 Collet chucks



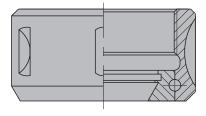




Collet chuck BT 35



Collet angle 2°52': DIN ISO 10897



Ball bearing collet nut

Collet chuck with steep taper BT 30 and BT 35

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 25.4$ mm (1").

Technical information:

Steep taper design BT 30 or BT 35. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts. (Design for SK 30).

Steep taper BT 30 without grooves and notches

PM 350 0 07

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
F	60	6 - 25.4	70	0.9	037962 ●

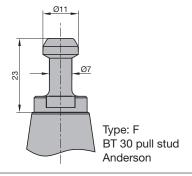
Steep taper BT 35 with grooves and notches

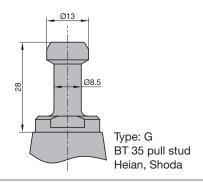
PM 350 0 07

Type	D	d	Α	Weight	ID
	mm	mm	mm	kg	
G	60	6 - 25.4	70	1	037414 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 •
Collet (2°52')		10	037431 •
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 ●
Collet (2°52')		14	037434 ●
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 ●
Collet (2°52')		20	037437 ●
Collet (2°52')		25	037438 •
Collet (2°52')		6.35 (1/4")	037495 ●
Collet (2°52')		9.53 (3/8")	037505 ●
Collet (2°52')		12.7 (1/2")	037496 ●
Collet (2°52')		15.88 (5/8")	037502 ●
Collet (2°52')		19.05 (3/4")	037497 •
Collet (2°52')		25.4 (1")	037508 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M48x2		005714 ●



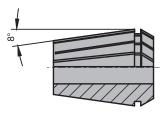


7.3 Clamping chucks 7.3.3 Collet chucks

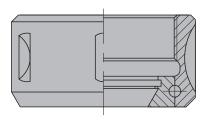


0 11 1 1 11

Collet chuck HSK-F 50



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-F 50

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 20$ mm.

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-F 50, DIN 69893, diameter range up to 20 mm, $\,$ 8° angle of the collet PM $350\,\,0\,\,15$

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
50	6 - 20	64	50	0.9	037999 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet and spanner.

BEZ	ABM	for S	ID
DEZ	ADIVI	101 3	טו
	mm	mm	
Collet (8°)		6	037439 ●
Collet (8°)		8	037440 ●
Collet (8°)		10	037441 •
Collet (8°)		12	037442 ●
Collet (8°)		13	037443 •
Collet (8°)		14	037444 •
Collet (8°)		16	037445 ●
Collet (8°)		18	037446 ●
Collet (8°)		20	037447 •
Collet (8°)		6.35 (1/4")	037509 •
Collet (8°)		9.53 (3/8")	037510 •
Collet (8°)		12.7 (1/2")	037511 ●
Collet (8°)		15.88 (5/8")	037507 ●
Collet (8°)		19.05 (3/4")	037506 •
Sickle spanner	45/50		005491 •
Collet chuck nut with ball bearing	M40x1.5		005718 ●

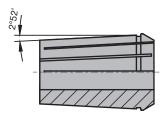
7.3 Clamping chucks 7.3.3 Collet chucks



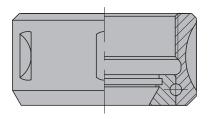


A A

Collet chuck HSK-F 50



Collet angle 2°52': DIN ISO 10897



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-F 50

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to d_{max} = 25.4 mm (1").

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-F 50, DIN 69893, diameter range up to 25.4 mm $\mathsf{PM}\ 350\ 0\ 06$

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
60	6 - 25.4	76	50	0.9	037500 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 •
Collet (2°52')		10	037431 •
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 •
Collet (2°52')		14	037434 •
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 •
Collet (2°52')		20	037437 •
Collet (2°52')		25	037438 •
Collet (2°52')		6.35 (1/4")	037495 ●
Collet (2°52')		9.53 (3/8")	037505 ●
Collet (2°52')		12.7 (1/2")	037496 ●
Collet (2°52')		15.88 (5/8")	037502 •
Collet (2°52')		19.05 (3/4")	037497 •
Collet (2°52')		25.4 (1")	037508 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M48x2		005714 ●

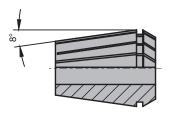
7.3 Clamping chucks7.3.3 Collet chucks



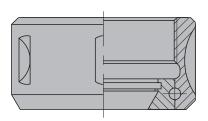


D A A

Collet chuck HSK-E 63



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-E 63

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{\text{max}} = 30$ mm.

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Vibration free cutting by short design. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-E 63, DIN 69893, A = 76 mm, diameter range 6-30 mm, 8° taper angle of the collet

PM 350 0 15

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
63	6 - 30	76	63	1.1	679040 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037926 ●
Collet (8°)		8	037927 ●
Collet (8°)		10	037928 •
Collet (8°)		12	037929 •
Collet (8°)		14	037930 •
Collet (8°)		16	037931 •
Collet (8°)		20	037932 •
Collet (8°)		25	037933 •
Collet (8°)		30	679039 •
Collet (8°)		6.35 (1/4")	037934 •
Collet (8°)		9.53 (3/8")	037935 ●
Collet (8°)		12.7 (1/2")	037936 •
Collet (8°)		15.88 (5/8")	037937 •
Collet (8°)		19.05 (3/4")	037938 •
Collet (8°)		25.4 (1")	037939 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M50x1.5		006639 •
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

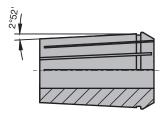
7.3 Clamping chucks7.3.3 Collet chucks



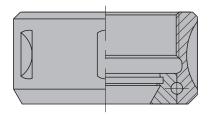


A B

Collet chuck HSK-E 63



Collet angle 2°52': DIN ISO 10897



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-E 63

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 25.4$ mm (1").

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Vibration free cutting by short design. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-E 63, DIN 69893, A = 78 mm, diameter range 6-25.4 mm PM 350 0 06

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
60	6 - 25.4	78	63	1.1	037914 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

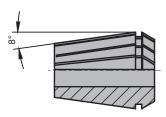
oparo partor			
BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 •
Collet (2°52')		10	037431 •
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 •
Collet (2°52')		14	037434 ●
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 ●
Collet (2°52')		20	037437 •
Collet (2°52')		25	037438 •
Collet (2°52')		6.35 (1/4")	037495 ●
Collet (2°52')		9.53 (3/8")	037505 ●
Collet (2°52')		12.7 (1/2")	037496 •
Collet (2°52')		15.88 (5/8")	037502 •
Collet (2°52')		19.05 (3/4")	037497 ●
Collet (2°52')		25.4 (1 [°])	037508 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M48x2		005714 ●
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

7.3 Clamping chucks 7.3.3 Collet chucks

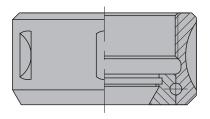




Collet chuck HSK-F 63



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-F 63

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 30 \text{ mm}$ (1").

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-F 63, DIN 69893, A = 76 mm, diameter range 6-30 mm, short design, 8° taper angle of the collet

PM 350 0 15

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
63	6 - 30	76	63	1	037970 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

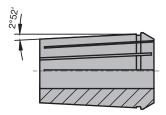
BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037926 ●
Collet (8°)		8	037927 •
Collet (8°)		10	037928 •
Collet (8°)		12	037929 •
Collet (8°)		14	037930 •
Collet (8°)		16	037931 •
Collet (8°)		20	037932 ●
Collet (8°)		25	037933 •
Collet (8°)		30	679039 •
Collet (8°)		6.35 (1/4")	037934 •
Collet (8°)		9.53 (3/8")	037935 ●
Collet (8°)		12.7 (1/2")	037936 •
Collet (8°)		15.88 (5/8")	037937 ●
Collet (8°)		19.05 (3/4")	037938 •
Collet (8°)		25.4 (1")	037939 •
Sickle spanner	58/62		005458 ●
Collet chuck nut with ball bearing	M50x1.5		006639 •
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

7.3 Clamping chucks 7.3.3 Collet chucks

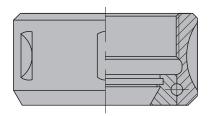




Collet chuck HSK-F 63



Collet angle 2°52': DIN ISO 10897



Ball bearing collet nut

Collet chuck with hollow taper shank HSK-F 63

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 25.4$ mm (1").

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-F 63, DIN 69893, A = 78 / 105 mm, diameter range 6-25.4 mm PM $350\ 0\ 06$

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
60	6 - 25.4	78	63	1.1	037412 ●
60	6 - 25.4	105	63	1.5	037924 ●

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

BEZ	ABM	for S	ID
	mm	mm	
Collet (2°52')		6	037429 •
Collet (2°52')		8	037430 •
Collet (2°52')		10	037431 •
Collet (2°52')		12	037432 ●
Collet (2°52')		13	037433 ●
Collet (2°52')		14	037434 ●
Collet (2°52')		16	037435 ●
Collet (2°52')		18	037436 ●
Collet (2°52')		20	037437 ●
Collet (2°52')		25	037438 •
Collet (2°52')		6.35 (1/4")	037495 •
Collet (2°52')		9.53 (3/8")	037505 •
Collet (2°52')		12.7 (1/2")	037496 •
Collet (2°52')		15.88 (5/8")	037502 •
Collet (2°52')		19.05 (3/4")	037497 •
Collet (2°52')	E0/00	25.4 (1")	037508 •
Sickle spanner	58/62		005458 •
Collet chuck nut with ball bearing	M48x2		005714 •
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

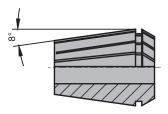
7.3 Clamping chucks



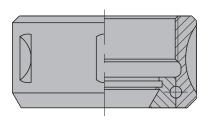




Collet chuck HSK-F 63



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut

Table for max. tool projection:

max. projection
2,2 x d
3,0 x d
3,0 x d

Collet chuck with hollow taper shank HSK-F 63, HSC machining

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank. For speeds up to $n_{\text{max}} = 30000 \text{ min}^{-1}$.

Technical information:

Hollow taper shank as per DIN 69893. Exact concentric running through hardened, ground and double slotted collets. Vibration free cutting by short design. Easy handling as loosening the ball bearing collet nut automatically opens the collet. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device VN 799 0 see section Knives and Spare Parts.

HSK-F 63, DIN 69893, A = 65 mm diameter range up to 20 mm, n_{max} = 30000 $\text{min}^{\text{-}1}$

PM 350 0 15

D	d	Α	DB	Weight	ID
mm	mm	mm	mm	kg	
50	6 - 20	65	63	0.85	679041 •

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

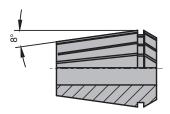
BEZ	ABM	for S	ID
			10
0 11 1 (20)	mm	mm	
Collet (8°)		6	037439 ●
Collet (8°)		8	037440 •
Collet (8°)		10	037441 •
Collet (8°)		12	037442 •
Collet (8°)		13	037443 •
Collet (8°)		14	037444 •
Collet (8°)		16	037445 •
Collet (8°)		18	037446 •
Collet (8°)		20	037447 •
Collet (8°)		6.35 (1/4")	037509 •
Collet (8°)		9.53 (3/8")	037510 •
Collet (8°)		12.7 (1/2")	037511 •
Collet (8°)		15.88 (5/8")	037507 •
Collet (8°)		19.05 (3/4")	037506 •
Sickle spanner	45/50		005491 •
Collet chuck nut with ball bearing	M40x1.5		005718 ●
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

7.3 Clamping chucks 7.3.3 Collet chucks

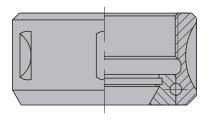




Collet chuck HSK 85 WS



Collet angle 8°: DIN ISO 15488



Ball bearing collet nut

Collet chuck with hollow taper shank HSK 85 WS

Application:

Precision tool chuck with collet for clamping shank tools with cylindrical shank and shank diameters up to $d_{max} = 30 \text{ mm}$ (1").

Technical information:

Exact concentric running through hardened, ground and double slotted collets. Easy handling by automatic collet opening when loosening the collet nut. Suitable for right hand and left hand rotation because of ball bearing collet nut. Ball bearing collet nut for increased clamping forces and improved concentricity compared to monobloc design. Tool chuck and collet nut fine balanced. Suitable mounting device ID **079010**.

HSK 85 WS, A = 61 mm, diameter range 6-30 mm, 8° taper angle of the collet PM 350 0 15

Machine	D	d	Α	DB	Weight	ID
	mm	mm	mm	mm	kg	
Weinig	63	6 - 30	61	85	1.2	679038

Sales unit consisting of clamping chuck with ball bearing collet nut, without collet or spanner.

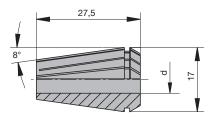
BEZ	ABM	for S	ID
	mm	mm	
Collet (8°)		6	037926 •
Collet (8°)		8	037927 ●
Collet (8°)		10	037928 •
Collet (8°)		12	037929 •
Collet (8°)		14	037930 •
Collet (8°)		16	037931 •
Collet (8°)		20	037932 •
Collet (8°)		25	037933 •
Collet (8°)		30	679039 •
Collet (8°)		6.35 (1/4")	037934 •
Collet (8°)		9.53 (3/8")	037935 •
Collet (8°)		12.7 (1/2")	037936 •
Collet (8°)		15.88 (5/8")	037937 •
Collet (8°)		19.05 (3/4")	037938 •
Collet (8°)		25.4 (1")	037939 •
Sickle spanner	58/62		005458 •
Collet chuck nut with ball bearing	M50x1.5		006639 •

7.3 Clamping chucks

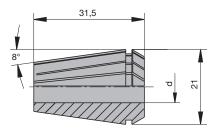
7.3.3 Collet chucks



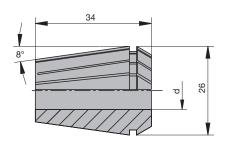




ER 16 collet diameter range 6-10 mm



ER 20 collet diameter range 6-13 mm



ER 25 collet diameter range 6-16 mm

Collets, type ER, DIN ISO 15488

Application:

For collet chucks and multi spindle units and trimming units with 8° taper angle (type ER, DIN ISO 15488).

Technical information:

Double slotted design for maximum clamping forces and concentricity.

Diamater range 6-10 mm, ER 16, Type 426E, DIN ISO 15488 $\,$

PM 150 0

BEZ	for S	ID
	mm	
Collet (8°)	6	037972 •
Collet (8°)	8	037973 •
Collet (8°)	10	037974 •
Collet (8°)	6.35 (1/4")	679022 ●
Collet (8°)	9.53 (3/8")	679023 ●

Spare parts:

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	30/32		6 - 10		005516 •
Collet chuck nut with ball bearing	M22x1.5	32	6 - 10	RH	006645 ●
Collet chuck nut with ball bearing	M22x1.5	32	6 - 10	LH	006646 •

Diameter range 6-13 mm, ER 20, Type 428E, DIN ISO 15488

PM 150 0

BEZ	for S	ID
	mm	
Collet (8°)	6	037975 ●
Collet (8°)	8	037976 ●
Collet (8°)	10	037977 •
Collet (8°)	12	037978 •
Collet (8°)	6.35 (1/4")	679024 ●
Collet (8°)	9.53 (3/8")	679025 ●
Collet (8°)	12.7 (1/2")	679026 ●

Spare parts:

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	34/36		6 - 12.7		005498 •
Collet chuck nut with ball bearing	M25x1.5	35	6 - 13	RH	006647 ●
Collet chuck nut with ball bearing				LH	006648 •

Diameter range 6-16 mm, ER 25, Type 430E, DIN ISO 15488

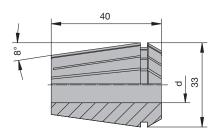
PM 150 0

BEZ	for S	ID
	mm	
Collet (8°)	6	037979 •
Collet (8°)	8	037980 •
Collet (8°)	10	037981 •
Collet (8°)	12	037982 ●
Collet (8°)	14	037983 •
Collet (8°)	16	037984 •
Collet (8°)	6.35 (1/4")	679027 ●
Collet (8°)	9.53 (3/8")	679028 ●
Collet (8°)	12.7 (1/2")	679029 •
Collet (8°)	15.88 (5/8")	679030 ●

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	40/42		6 - 16		005518 •
Collet chuck nut with ball bearing	M32x1.5	42	6 - 16	RH	006649 •
Collet chuck nut with ball bearing	M32x1.5	42	6 - 16	LH	006650 •

7.3 Clamping chucks7.3.3 Collet chucks





ER 32 collet diameter range 6-20 mm

Diameter range 6-20 mm, ER 32, Type 470E, DIN ISO 15488 $\rm PM~150~0$

1 101 100 0		
BEZ	for S	ID
	mm	
Collet (8°)	6	037439 •
Collet (8°)	8	037440 ●
Collet (8°)	10	037441 •
Collet (8°)	12	037442 ●
Collet (8°)	13	037443 •
Collet (8°)	14	037444 ●
Collet (8°)	16	037445 ●
Collet (8°)	18	037446 •
Collet (8°)	20	037447 ●
Collet (8°)	6.35 (1/4")	037509 •
Collet (8°)	9.53 (3/8")	037510 •
Collet (8°)	12.7 (1/2")	037511 •
Collet (8°)	15.88 (5/8")	037507 ●
Collet (8°)	19.05 (3/4")	037506 ●
. ,	. ,	

Spare parts:

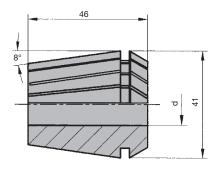
BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	45/50				005491 •
Collet chuck nut with ball bearing	M40x1.5	50	6 - 20	RH	005718 •
Collet chuck nut with ball bearing	M40x1.5	50	6 - 20	LH	006631 •

Diameter range 6-26 mm, ER 40 Type 472E, DIN ISO 15488 \mbox{PM} 150 0

BEZ	for S	ID
	mm	
Collet (8°)	6	037926 •
Collet (8°)	8	037927 ●
Collet (8°)	10	037928 •
Collet (8°)	12	037929 •
Collet (8°)	14	037930 •
Collet (8°)	16	037931 •
Collet (8°)	20	037932 ●
Collet (8°)	25	037933 •
Collet (8°)	30	679039 •
Collet (8°)	6.35 (1/4")	037934 ●
Collet (8°)	9.53 (3/8")	037935 ●
Collet (8°)	12.7 (1/2")	037936 ●
Collet (8°)	15.88 (5/8")	037937 ●
Collet (8°)	19.05 (3/4")	037938 •
Collet (8°)	25.4 (1")	037939 •



oparo partor					
BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	58/62		6 - 25.4		005458 ●
Collet chuck nut with ball bearing	M50x1.5	63	6 - 25.4	RH	006639 •
Collet chuck nut with hall bearing	M50x1.5	63	6 - 25 4	ΙH	006640 •



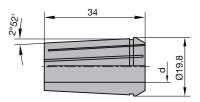
ER 40 collet diameter range 6-26 mm

7.3 Clamping chucks

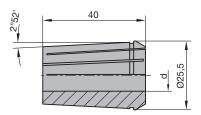


7.3.3 Collet chucks





Collet type 407E diameter range 6-12.7 mm



Collet type 415E diameter range 6-16 mm

Collets, DIN ISO 10897, taper ratio 1:10

Application:

For collet chucks as well as for multi spindle units and trimming units with 2°52' taper angle (taper ratio 1:10).

Technical information:

Double slotted design for maximum clamping forces and concentricity.

Diameter range 6-12.7 mm, Type 407E, DIN ISO 10897

PM 150 0

BEZ	for S	ID
	mm	
Collet (2°52')	6	679013 •
Collet (2°52')	7	679015 ●
Collet (2°52')	8	679016 •
Collet (2°52')	9	679017 ●
Collet (2°52')	10	679019 •
Collet (2°52')	12	679020 ●
Collet (2°52')	6.35 (1/4")	679014 •
Collet (2°52')	9.53 (3/8")	679018 •
Collet (2°52')	12.7 (1/2")	679021 ●

Spare parts:

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	34/36		6 - 12.7		005498 •
Collet chuck nut	M27x1.5	35		RH	006653 ●
	0 1, 0 0	35	6 - 12.7	RH	

Diameter range 6-16 mm, Type 415E, DIN ISO 10897

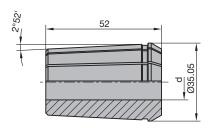
PM 150 0

BEZ	for S	ID
	mm	
Collet (2°52')	6	679005 ●
Collet (2°52')	8	679032 ●
Collet (2°52')	9	679033 •
Collet (2°52')	9.5	679034 •
Collet (2°52')	10	679006 •
Collet (2°52')	11	679035 ●
Collet (2°52')	12	679036 •
Collet (2°52')	13	679007 ●
Collet (2°52')	14	679037 •
Collet (2°52')	16	679008 •
Collet (2°52')	6.35 (1/4")	679009 •
Collet (2°52')	9.53 (3/8")	679010 •
Collet (2°52')	12.7 (1/2")	679011 •
Collet (2°52')	15.88 (5/8")	679012 •

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	40/42		6 - 16		005469 •
Collet chuck nut with ball bearing	M33x1.5	43		RH	005685 ●

7.3 Clamping chucks7.3.3 Collet chucks





Collet type 462E diameter range 6-25.4 mm

Diameter range 6-25.4 mm, Type 462E, DIN ISO 10897 $\,$ PM 150 0

BEZ	for S	ID
	mm	
Collet (2°52')	6	037429 •
Collet (2°52')	8	037430 •
Collet (2°52')	10	037431 •
Collet (2°52')	12	037432 ●
Collet (2°52')	13	037433 •
Collet (2°52')	14	037434 ●
Collet (2°52')	16	037435 ●
Collet (2°52')	18	037436 •
Collet (2°52')	20	037437 ●
Collet (2°52')	25	037438 •
Collet (2°52')	6.35 (1/4")	037495 ●
Collet (2°52')	9.53 (3/8")	037505 ●
Collet (2°52')	12.7 (1/2")	037496 •
Collet (2°52')	15.88 (5/8")	037502 ●
Collet (2°52')	19.05 (3/4")	037497 •
Collet (2°52')	25.4 (1")	037508 •

BEZ	ABM	D	Diameter range	DRI	ID
	mm	mm	mm		
Sickle spanner	58/62		6 - 25.4		005458 •
Collet chuck nut with ball bearing	M48x2	60		RH	005714 ●
Collet chuck nut with ball bearing	M48x2	60		LH	006632 •





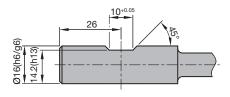
7.3.4 Weldon chucks



A

Weldon clamping chuck

Required shank design:



Clamping chuck with steep taper for CNC aggregates

Application:

Precision tool chuck for clamping shank tools with cylindrical shank and shank diameters up to $\rm d_{\rm max}$ = 16 mm.

Technical information:

Steep taper design for Flex 5+ aggregates (Homag Group) and 5-motion-Plus aggregate (Felder Format-4). High stability for medium difficult cutting operations. Easy tool change through opening of the radial clamping screw. Tool adaptor fine balanced. Maximum tool protrusion (length projecting of the chuck) 60 mm.

A = 20 mm, clamping diameter 16 mm

PM 320 0 53

Machine	D	d	Α	GL	Weight	ID
	mm	mm	mm	mm	kg	
Felder Format-4,	40	16	20	55	0.3	037722 🗆
Homag Group						

BEZ	ABM	ID
	mm	
Clamping screw	M8x10	007800 🗆
Allen key	SW 4	005434 ●

7.3 Clamping chucks

7.3.5 Drill adaptors





Drill adaptor, conventional clamping

Application:

Clamping chuck for drill bits with 10 mm shank diameter and driving flat for drilling spindles with threaded adaptor.

Technical information:

Stable and secure clamping of drills by 2 clamping screws. Smallest spindle pitch in the drilling unit: 21 mm. For narrower pitches, 8 mm shank chucks and drills must be used.

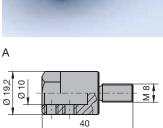
Clamping chuck for drills with 10 mm shank and driving flat

PM 320 0 28, PM 320 0 29, PM 320 0 30, PM 320 0 32, PM 320 0 34, PM 320 0 40, PM 320 0 42, PM 320 0 46, PM 320 0 50

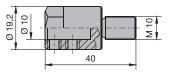
,,				
Machine	GL	Pic.	ID	ID
	mm		LH	RH
Nottmeyer (old machine type)	40	Α	033088 •	033089 •
Ayen, Brandt, Holzma, Knoevenagel,	40	В	033092 •	033093 •
Mayer, Reichenbacher, Torwegge, Zubiola				
Lehbrink, Nottmeyer (new machine type)	40	С	033080 •	033081 •
Lehbrink, Nottmeyer (new machine type)	52	С	033082 •	033083 •
Alberti, Balestrini, Biesse,	43	D	033086 •	033087 •
Böttcher & Gessner, Busellato, Goma,				
Grotefeld, Holz-Her, Hüllhorst, Koch,				
Morbidelli, Reimall, Torwegge,				
Vitap (from YOM 4/91 on), Weeke				
Bilek, Knoevenagel	55	Е	033084 •	033085 •
Alberti, Balestrini, Bilek, Busellato,	45.5	F	033090 •	033091 •
Dubus, Goma, Grotefeld, Ompec, Reimall,				
Schleicher, SCM, Tanzani, Viciani,				
Vitap (up to YOM 4/91), Weingärtner				
Morbidelli	51	G	033094 •	033095 •
Scheer	45	Н	033096 •	033097 •
SCHEEN	40	11	000090	000097

Spare parts:

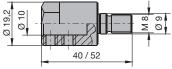
BEZ	ABM	ID
	mm	
Allen key	SW 3	005433 ●
Allen screw	M6x5	005836 ●



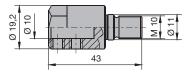
В



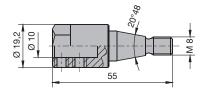
С



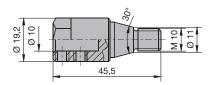
D



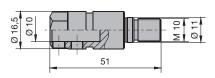
Е



F



G



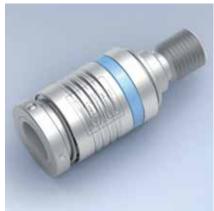
Н



7.3 Clamping chucks

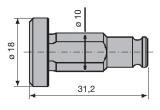
7.3.5 Drill adaptors



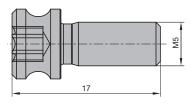


43,2

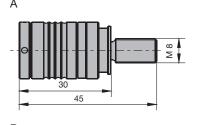
Mounting device ID 115522

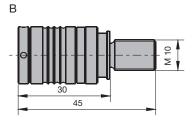


Dust cover ID 115521



Length adjustment screw ID 009157





Drill adaptor, quick clamping design

Application:

Quick clamping chuck for drills with 10 mm shank and driving flat for drilling spindles with threaded adaptor.

Technical information:

The drill is held in the chuck by the length adjusting screw (ID **009157**). Ideal if the hole diameter must be changed quickly. Quick clamping chucks not in use should be covered using the optional dust cover.

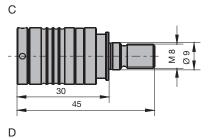
Note: The drill shanks require an appropriate shank and driving flat dimensional tolerance to ensure trouble free operation. Drills from the Leitz range guarantees functional reliability. Speed up to 12000 min⁻¹ (quick change drill adaptor without drill must be covered with the dust cover ID **115521** for speeds exceeding 9000 min⁻¹ to prevent unbalance).

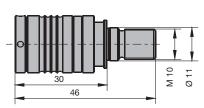
Clamping chuck for drills with 10 mm shank and driving flat

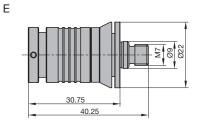
PM 320 0, PM 320 0 55, PM 320 0 56, PM 320 0 57, PM 320 0 58, PM 320 0 59

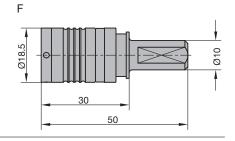
	,	,		,	
Machine	BEM	GL	Pic.	ID	ID
		mm		LH	RH
Lehbrink, Nottmeyer		45	Α	033102 •	033103 •
(new machine type)					
Ayen, Brandt, Holzma,		45	В	033104 •	033105 •
Knoevenagel, Mayer,					
Reichenbacher, Torwegge,					
Zubiola					
Nottmeyer (old machine type)		45	С	033098 •	033099 •
Alberti, Biesse,		46	D	033100 •	033101 •
Böttcher & Gessner,					
Busellato, Goma, Grotefeld,					
Holz-Her, Hüllhorst, Koch,					
Morbidelli, Reimall, Torwegge,					
Vitap (from YOM 4/91 on),					
Weeke					
Weeke	from YOM 2/04 on	40.25	Е	033109 •	033110 •
Universal	Shank D-10 mm	50	F	033106 •	033106 •

BEZ	ABM	ID
	mm	
Dust cover	d8/10/D18/L31.2	115521 ●
Mounting device	d8/10/D20/L43.2/SW17	115522 ●
Length adjustment screw Torx® 20	M5x17	009157 •









7.3 Clamping chucks

7.3.5 Drill adaptors





Drill adaptor

Application:

For mounting dowel drills, through hole drills and hinge boring bits on point-to-point drilling machines, through feed drilling machines and stationary drilling machines.

Technical information:

Wear resistant material, ground surface. High concentricity for clean holes and long drill life time.

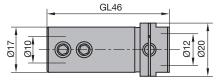
For Weeke through-feed machines

PM 320 0

Machine	D	d	GL	ID
	mm	mm	mm	
Weeke	20	10	46	033107 •

Spare parts:

o position position		
BEZ	ABM	ID
	mm	
Allen key	SW 3	005433 ●
Allen screw	M6x4	005837 ●



Drill adaptor for Weeke

Drill adaptor

Application:

For mounting dowel drills, through hole drills and hinge boring bits on point-to-point drilling machines, through feed drilling machines and stationary drilling machines.

Technical information:

Wear resistant material, ground surface. High concentricity for clean holes and long drill life time.

For Biesse boring units

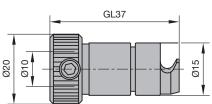
PM 320 0

Machine	D	d	GL	ID
	mm	mm	mm	
Biesse	20	10	37	033108 •



BEZ	ABM	ID
	mm	
Allen key	SW 3	005433 ●
Allen screw	M6x5	005836 ●





Drill adaptor for Biesse



7.3.5 Drill adaptors





Quick change drill adaptor, spare parts for previous system

Tool adaptor for drills with 10 mm shanks

PM 320 0 02

D	d	ID	ID
mm	mm	LH	RH
20	10	033270 •	033271 •

Spare parts:

BEZ	ABM	ID
	mm	
Allen key	SW 3	005433 •
Allen screw	M6x5	005836 •

Tool adaptor for drills with 8 mm shanks

PM 320 0 01

033171 •
RH
ID

BEZ	ABM	ID
	mm	
Allen key	SW 3	005433 ●
Allen screw	M6x5	005836 ●



Drill chuck for CNC spindle

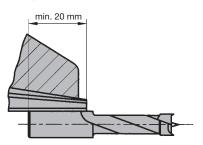
7.3.5 Drill adaptors



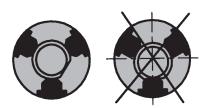


Conditions to be observed during clamping:

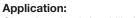
- Minimum clamping length
 I_{min} = 20 mm
- Maximum clamping length
 I_{max} = 29 mm



- Do not clamp tapered shanks
- If possible use cylindrical shanks
- without clamping flat, grooves or other recesses



 If drills with driving flat are used, the clamping flat is not allowed to touch the clamping wedges. See illustration



Clamping chuck for drills for CNC routers and machining centres.

Technical information:

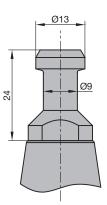
Precision design with high concentricity < 0.02 mm. Special clamping mechanism with improved holding forces to prevent the tool shank from slipping. Stepless adjustable clamping range: 0.5 - 13 mm (SK 30, ISO 30, SK 40), 3-16 mm (HSK-E/-F 63). Fine balanced design. Clamping wedges hardened for improved wear resistance. Suitable for right hand and left hand rotation. Only to be used for drills.

Stepless adjustable clamping range

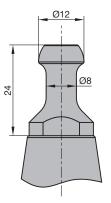
PM 330 0

Type	D	d	S	Α	Weight	ID
	mm	mm	mm	mm	kg	
Α	50	1 - 13	SK 30	103	1.30	037758 🗆
В	50	1 - 13	SK 30	103	1.30	037759 🗆
E	50	1 - 13	SK 40	87.5	1.50	037761 •
	50	1 - 16	HSK-E 63	98	1.80	037763 ●
	50	1 - 16	HSK-F 63	98	1.70	037762 •

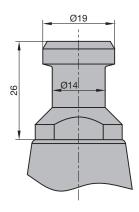
BEZ	BEM	ABM	L	ID
		mm	mm	
Allen key	for SK	SW 6	100	005447 ●
Allen key	for HSK	SW 4	100	005503 ●



Type: A SK 30 pull stud as per DIN ISO 7388



Type: B SK 30/ISO 30 pull stud for HSD spindles from construction year 9/92 on



Type: E SK 40 pull stud as per DIN ISO 7388

7.4 Clamping arbors







Hydro clamping arbor HSK-F 63 / HSK-E 63

Application:

For precise and play free mounting of tools with bore, such as saw blades, tools, toolsets and cutterheads.

Machine:

Machines with HSK-F 63 or HSK-E 63 adaptor, e.g. moulders, window producing machines, CNC-machining centres etc.

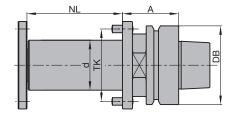
Technical information:

Hollow taper shank design as per DIN 69863. Play free and precise adaption of bore tools through hydro clamping arbors. Axial clamping actuation of the closed hydro system. Safety against twisting of the tools through pins and screws.

Note: Please observe the admitted maximum weight and diameters as well as the maximum tool RPM of the machine producer!







Hydro clamping arbor HSK-F 63

HSK-F / E 63, A = 45 / 90 mm

PH 160 0 04, PH 160 0 05

NL	d	Α	DB	TK	ID
mm	mm	mm	mm		
100	40	45	63	58	663811
140	40	45	63	58	663812
190	40	45	63	58	663813 ●
190	40	90	63	58	663814
190	40	45	63	58	663815
190	40	90	63	58	663816
	mm 100 140 190 190	mm mm 100 40 140 40 190 40 190 40 190 40	mm mm mm 100 40 45 140 40 45 190 40 45 190 40 90 190 40 45	mm mm mm mm 100 40 45 63 140 40 45 63 190 40 45 63 190 40 90 63 190 40 45 63	mm mm mm mm 100 40 45 63 58 140 40 45 63 58 190 40 45 63 58 190 40 90 63 58 190 40 45 63 58 190 40 45 63 58



NL NL

Hydro clamping arbor HSK-F 63 mod. PH 160 0 02

Hydro clamping arbor HSK-F 63 mod.

Application:

Hydro clamping arbor for precise and play free mounting of tools with bore such as circular saw blades, tools, toolsets and cutterheads for high concentricity.

Machine:

Machines with HSK-F 63 interface, e.g. laminate and parquet flooring lines, edge-banding machines, double end tenoners, profile cutting machines, etc.

Technical information:

Closed hydro clamping system with maintenance free pressurising piston mechanism. User friendly axial positioned hydro clamping screw. Play free and precise mounting of tools with bores on hydro clamping arbors. Suitable for RH and LH. RPM $n_{\text{max.}}$ 12000⁻¹.

Note: Check the allowed maximum RPM of the tool mounted on the arbor!

HSK-F 63 mod. for tools with bore 60 mm, A = 12.5 mm

PH 160 0 02

Machine	NL	d	Α	DB	TK	ID
	mm	mm	mm	mm		
Homag	75	60	12.5	90	75	663804

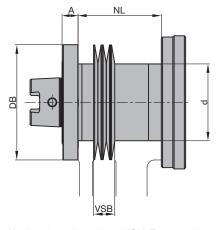
7.4 Clamping arbors











Hydro clamping arbor HSK-F 63 mod. with stepless fine adjustment PH 160 0 03

Hydro clamping arbor HSK-F 63 mod. with stepless fine adjustment

Application:

Hydro clamping arbor for precise and play free mounting of tools with bore such as circular saw blades, toolsets and sets of cutterheads for high concentricity. Fine thread design of the hydro clamping arbor allows stepless fine adjustment of multi part tooling sets.

Machine:

Machines with HSK-F 63 adaptor, e.g. laminate and parquet flooring lines, edge-banding machines, double end tenoners, profile cutting machines, etc.

Technical information:

Closed hydro clamping system with maintenance free pressurising piston mechanism. User friendly axial positioned hydro clamping screw. Play free and precise mounting of tools with bores on hydro clamping arbors. Suitable for RH and LH.

RPM n_{max.} 12000⁻¹.

Note: Check the allowed maximum RPM of the tool mounted on the arbor!

HSK-F 63 mod. for tools with bore 60 mm, A = 12.5 mm

PH 160 0 03

Machine	NL	d	VSB	Α	DB	TK	ID
	mm	mm		mm	mm		
Homag	55 - 65	60	10	12.5	90	75	663803 ●





Hydro clamping arbor HSK 85 WS





Application:

For precise, play free mounting of tools with bore, such as saw blades, cutting tools, sets of cutting tools and cutterheads.

Machine:

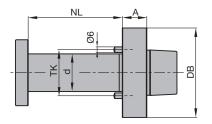
Machines with HSK 85 WS adaptor e.g. moulders (Weinig Powermat), window production machines, etc.

Technical information:

Play free and precise mounting of tools with bore by hydro arbors. Radial clamping by closed hydro system. Easy and safe handling with optionally lifting rings. **Note:** Observe the information of the machine producer for the permitted maximum weight and diameter as well as the maximum tool RPM!







Hydro clamping arbor HSK 85 WS - PH 160 0 01

HSK 85 WS, A = 26 mm

PH 160 0 01

Machine	NL	d	Α	DB	TK	ID
	mm	mm	mm	mm		
Weinig	100	40	26	95	58	663800 ●
Weinig	170	40	26	95	58	663802 ●

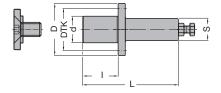
7.4 Clamping arbors

7.4.2 Cutter arbors

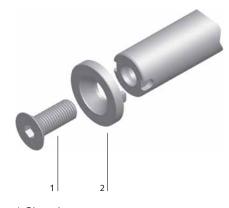




Arbor, short design



Arbor, long design



1 Clamping screw 2 Conical spring washer for safety against twisting

Cutter arbor with cylindrical shank

Application:

Arbor for single tools with bore or tool sets with bore.

Technical information:

Cylindrical shank design. Short design for grooving cutter and sawblades up to widths NB = 10 mm. Long design for one part or multi part tools/tool sets. Safety device against tool twisting by screw or pin. Cutter arbors are fine balanced. If conical spring washers with safety device against twisting are used, slots are required in the cutter arbor.

Note: Maximum admissible speed n_{max} depends on the mounted tools. Please comply with the specifications regarding the maximum admissible weight and diameters detailed by the machine manufacturer.

Short version

TI 501 0 04

D	d	L	I	S	TK	ID
mm	mm	mm	mm	mm		
60	30	85	4	16x50	48	041429 •
59	30	102	4	20x50	48	041368 ●
59	30	102	4	25x60	48	041367 ●
59	30	127	4	25x60	48	042980 ●

With four countersunk screws M6X16. Maximum diameter for circular saw blades = 250 mm.

Long design

TI 501 0 03

D	d	L	I	S	TK	ID
mm	mm	mm	mm	mm		
50	20	83	25	20x50	32	042982 🗆
50	20	98	40	20x50	32	042983 □
50	20	113	55	20x50	32	042984 •
50	20	107	40	25x60	32	041124 ●
50	20	122	55	25x60	32	041125 ●
50	20	137	70	25x60	32	041126 ●
59	30	83	25	20x50	48	042985 □
59	30	98	40	20x50	48	042986 ●
59	30	93	25	25x60	48	041127 🗆
59	30	108	40	25x60	48	041128 •

Sales unit consisting of arbor, clamping screw and conical spring washer (flat design), without spacers.

Spare parts:

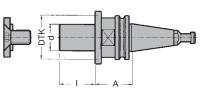
BEZ	ABM	BEM	ID
	mm		
Washer with safety device against twisting, M10	20/35x13x10.5	for d = 20	006768 •
Washer with safety device against twisting, M16	30/45x15x16.5	for d = 30	006769 •

7.4 Clamping arbors

7.4.2 Cutter arbors







Arbor SK 30/SK 40

1 Clamping screw 2 Conical spring washer for safety against twisting

Cutter arbor with steep taper SK 30 / SK 40

Application:

Arbor for single tools with bore or tool sets with bore.

Technical information:

Steep taper design as per DIN ISO 7388, without grooves and notches. Short design, suitable for low vibration cutting. Safety device against tool twisting by screw or pin. Arbors are fine balanced. If conical spring washers with safety device against twisting are used, slots are required in the arbor. For suitable mounting device VN 799 0, see section Knives and Spare Parts.

Note: Please comply with the specifications regarding the maximum admissible weight and diameters detailed by the machine manufacturer!

SK 30, A = 42 mm

TI 501 0 01

I	d	TK	Weight	ID
mm	mm		kg	
70	20	32	1	041137 □
80	30	48	1.3	042814 🗆
70	20	32	1	041370 🗆
80	30	48	1.3	041373 🗆
70	20	32	1	042832 □
80	30	48	1.3	042836 □
	70 80 70 80	70 20 80 30 70 20 80 30 70 20	mm mm 70 20 32 80 30 48 70 20 32 80 30 48 70 20 32	mm mm kg 70 20 32 1 80 30 48 1.3 70 20 32 1 80 30 48 1.3 70 20 32 1

SK 40, A = 42 mm

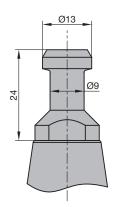
TI 501 0 01

Type	I	d	TK	Weight	ID
	mm	mm		kg	
E	80	30	48	1.8	042815 🗆

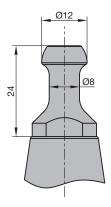
Sales unit consists of arbor with pull stud, clamping screw and conical spring washer (flat design), without spacers.

Spare parts:

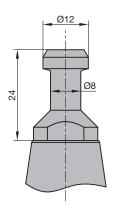
BEZ	ABM	BEM	ID
	mm		
Washer with safety device against	20/35x13x10.5	for $d = 20$	006768 •
twisting, M10			
Washer with safety device against	30/45x15x16.5	for $d = 30$	006769 •
twisting, M16			
Locking nut with Balluff chip	SK 40, 511 Bytes		081601 •
_ccg Danan omp	5. t . c, 5 Dy 100		



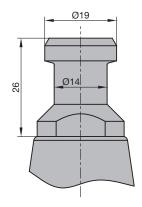
Type: A SK 30 pull stud as per DIN ISO 7388



Type: B SK 30/ISO 30 pull stud for HSD spindles from construction year 9/92



Type: C SK 30/ISO 30 pull stud Biesse until construction year 9/92



Type: E SK 40 pull stud as per DIN ISO 7388



7.4.2 Cutter arbors





Application:

Arbor for single tools with bore or tool sets with bore.

Technical information:

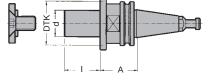
Steep taper design as per DIN ISO 7388, without grooves and notches. Outside dimension A = 63 mm for longer tool length in the machine. Safety device against tool twisting by screw or pin. Arbors are fine balanced. If conical spring washers with safety device against twisting are used, slots are required in the arbor. For suitable mounting device VN 799 0, see section Knives and Spare Parts.

Note: Please comply with the specifications regarding the maximum admissible weight and diameters detailed by the machine manufacturer!



Type	I	d	TK	Weight	ID
	mm	mm		kg	
Α	70	20	32	1.3	042818 🗆
Α	80	30	48	1.6	042822 🗆
А	80	30	48	1.0	042822





Arbor SK 30/SK 40

SK 40, A = 63 mm TI 501 0 01

Type	1	d	TK	Weight	ID
	mm	mm		kg	
E	80	30	48	2.2	042829 🗆

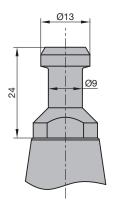
Sales unit consists of arbor with pull stud, clamping screw and conical spring washer (flat design), without spacers.



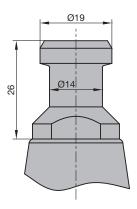
1 Clamping screw 2 Conical spring washer for safety against twisting

Spare parts:

BEZ	ABM	BEM	ID
	mm		
Washer with safety device against	20/35x13x10.5	for $d = 20$	006768 •
twisting, M10			
Washer with safety device against	30/45x15x16.5	for $d = 30$	006769 •
twisting, M16			
Locking nut with Balluff chip	SK 40, 511 Bytes		081601 •



Type: A SK 30 pull stud as per DIN ISO 7388



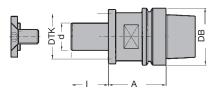
Type: E SK 40 pull stud as per **DIN ISO 7388**



7.4.2 Cutter arbors







Arbor HSK-E 63



1 Clamping screw 2 Conical spring washer for safety against twisting

Cutting arbor with hollow taper shank HSK-E 63

Application:

Arbor for single tools with bore or tool sets with bore.

Technical information:

Hollow taper shank design as per DIN 69893. Safety device against tool twisting by screw or pin. Arbors are fine balanced. Spring washers with safety against twisting. For suitable mounting device VN 799 0, see section Knives and Spare Parts. Note: Please comply with the specifications regarding the maximum admissible weight and diameters detailed by the machine manufacturer.

HSK-E 63, DIN 69893, A = 45 mm

TI 501 0 07

1	d	Α	DB	TK	Weight	ID
mm	mm	mm	mm		kg	
70	20	45	63	32	1.2	039801 •
80	30	45	63	48	1.6	039805 •
140	30	45	63	48	1.9	663071 ●
192	35	45	63	52	2.6	039806 •

Sales unit consisting of arbor, clamping screw and conical spring washer (flat design) with safety device against twisting, without spacers.

Spare parts:

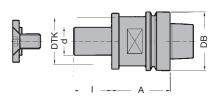
BEZ	ABM	BEM	ID
Washer with safety device against	mm 20/25v13v10 5	for d = 20	006768 •
twisting, M10	20/33X13X10.3	101 u = 20	000700
Washer with safety device against	30/45x15x16.5	for $d = 30$	006769 •
twisting, M16			
Washer with safety device against	35/50x15x16.5	for $d = 35$	006770 ●
twisting, M16			
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆



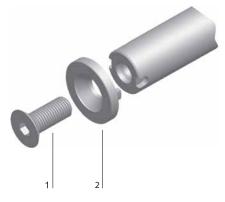
7.4.2 Cutter arbors







Arbor HSK-F 63



1 Clamping screw 2 Conical spring washer for safety against twisting

Cutting arbor with hollow taper shank HSK-F 63

Application:

Arbor for single tools with bore or tool sets with bore.

Technical information:

Hollow taper shank design as per DIN 69893. Safety device against tool twisting by screw or pin. Arbors are fine balanced. Spring washers with safety against twisting. For suitable mounting device VN 799 0, see section Knives and Spare Parts.

Note: Preferably use the short model for low vibration cutting. Please comply with the specifications regarding the maximum admissible weight and diameters detailed by the machine manufacturer.

HSK-F 63, DIN 69893, A = 45 mm

TI 501 0 07

I	d	Α	DB	TK	Weight	ID
mm	mm	mm	mm		kg	
70	20	45	63	32	1.2	042987 ●
80	30	45	63	48	1.6	042988 •
140	30	45	63	48	1.9	041426 ●
192	35	45	63	52	2.6	041425 ●

HSK-F 63, DIN 69893, A = 80 mm

TI 501 0 07

1	d	Α	DB	TK	Weight	ID
mm	mm	mm	mm		kg	
70	20	80	63	32	1.7	042847 ●
80	30	80	63	48	2.1	042951 ●
120	30	80	63	48	2.4	041427 ●

HSK-F 63, DIN 69893, A = 90 mm

TI 501 0 07

I	d	Α	DB	TK	Weight	ID
mm	mm	mm	mm		kg	
170	35	90	63	52	3.2	041428 ●

Sales unit consisting of arbor, clamping screw and conical spring washer (flat design) with safety device against twisting, without spacers.

Spare parts:

BEZ	ABM	BEM	ID
	mm		
Washer with safety device against twisting, M10		for d = 20	006768 ●
Washer with safety device against twisting, M16	30/45x15x16.5	for d = 30	006769 •
Washer with safety device against twisting, M16	35/50x15x16.5	for d = 35	006770 ●
Chip-Balluff	511 Bytes		081309 •
Chip-Balluf	2047 Bytes		081330 🗆

7.4 Clamping arbors

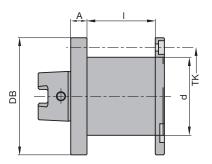
7.4.2 Cutter arbors





A D B B D

Arbors HSK-F 63 mod. (ID **663052**) with flange



Arbor HSK-F 63 mod. (ID **663053**) with end ring and clamping screws

Cutting arbor with hollow taper shank HSK-F 63 mod.

Application:

Arbors for single tools with bore or tool sets with bore. For precise clamping in the machine spindle and quick tool change, mainly on Homag through feed machines with HSK-F 63 mod. motor spindle.

Machine

Double-end tenoner, flooring machines, edgebanding machines etc.

Technical information:

Fine balanced arbors with hollow shank taper modified design as per DIN 69893 HSK-F 63. Precise tool clamping for high concentricity. Clamping screws and end ring are part of the arbor.

HSK-F 63 mod., A = 12.5 mm, 20 mm and 52 mm

TB 300 0

Machine	1	d	Α	DB	TK	ID
	mm	mm	mm	mm		
Homag	28	60	52	90	75	663052 ●
Homag	55	60	12.5	90	75	663053 •

BEZ	ABM	ID
	mm	
Cylindrical screw with ISK	M6x30	005928 ●
Cylindrical screw with ISK	M6x65	005935 ●
Allen key	SW 5	005452 ●

7.4 Clamping arbors

7.4.2 Cutter arbors





NL A

Cutting arbor HSK 85 WS with clamping spacer and safety device against twisting

Cutting arbor with hollow shank taper HSK 85 WS

Application:

For mounting saws, cutting tools, sets of cutting tools and cutterheads.

Machine

Machines with HSK 85 WS adaptor e.g. moulders (Weinig Powermat), window production machines etc.

Technical information:

Easy and safe handling with optional lifting rings.

HSK 85 WS, A = 26 mm, for Weinig Powermat without safety device against twisting

TI 501 0 14

Machine	NL	I	d	Α	DB	ID
	mm	mm	mm	mm	mm	
Weinig	55	50	30	26	85	663101 ●
Weinig	85	80	30	26	85	663102 ●
Weinig	110	105	30	26	85	663103 ●
Weinig	85	80	40	26	85	663075 ●
Weinig	105	100	40	26	85	663083 □
Weinig	135	130	40	26	85	663077 ●
Weinig	150	145	40	26	85	663084 🗆
Weinig	170	165	40	26	85	663078 ●
Weinig	210	205	40	26	85	663085 □
Weinig	240	235	40	26	85	663079 ●
Weinig	85	80	50	26	85	663076 ●
Weinig	105	100	50	26	85	663086 □
Weinig	135	130	50	26	85	663080 ●
Weinig	150	145	50	26	85	663087 □
Weinig	170	165	50	26	85	663081 •
Weinig	210	205	50	26	85	663088 □
Weinig	240	235	50	26	85	663082 ●

BEZ	ABM	BEM	ID
	mm		
Washer with safety device against twisting		for d = 30	008376 ●
Washer with safety device against twisting	60/20	for d = 40	008368 •
Washer with safety device against twisting	70/20	for d = 50	008369 •
Cylindrical screw with ISK	M8x20	for $d = 40/50$	114048 •

7.4 Clamping arbors

7.4.2 Cutter arbors





NL A B

Cutting arbor HSK 85 WS with clamping spacer and safety device against twisting in HSK.

Cutting arbor with hollow shank taper HSK 85 WS

Application:

For mounting saws, cutting tools, sets of cutting tools and cutterheads.

Machine:

Machines with HSK 85 WS adaptor e.g. moulders (Weinig Powermat), window production machines etc.

Technical information:

Easy and safe handling with optional lifting rings.

\mbox{HSK} 85 WS, A = 26 mm, for Weinig Powermat with two safety device grooves against twisting in the \mbox{HSK}

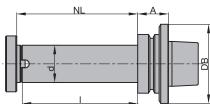
TI 501 0 16

Machine	NL	I	d	Α	DB	ID
	mm	mm	mm	mm	mm	
Weinig	170	165	40	26	85	663104 🗆
Weinig	240	235	40	26	85	663105 🗆
Weinig	100	105.5	60	26	85	663106 ●

Spare parts:

• •			
BEZ	ABM mm	BEM	ID
Washer with safety device against twisting	60/20	for d = 40	008368 •
Washer with safety device against twisting	90/18	for d = 60	008379 •
Cylindrical screw with ISK	M8x20	for $d = 40/60$	114048 •





Cutting arbor HSK 85 - TI 501 0 14

Cutting arbor with hollow shank taper HSK 85

Application:

For mounting saws, cutting tools, sets of cutting tools and cutterheads.

Machine

Machines with HSK 85 WS adaptor e.g. moulders, window production machines, etc.

Technical information:

Easy and safe handling with optional lifting rings.

HSK 85, A = 26 mm and A = 33 mm, for SCM

TI 501 0 14

Machine	NL	I	d	Α	DB	ID
	mm	mm	mm	mm	mm	
SCM	130	127	40	33	63	663061 •
SCM	319	325	50	26	85	663055 ●

BEZ	ABM	BEM	ID
Weeker with sefety device against	mm 60/20	for d = 40	008370 ●
Washer with safety device against twisting	60/20	for d = 40	000370
Washer with safety device against	70/20	for d = 50	008375 •
twisting			
Cylindrical screw with ISK	M8x20	for $d = 40$	114048 •
Cylindrical screw with ISK	M8x35	for $d = 50$	006524 ●

7.4 Clamping arbors

7.4.2 Cutter arbors





Blanking arbor HSK 85 WS

Application:

Dust cover for spindles when not in use.

Machine:

Machines with HSK 85 WS adaptor e.g. moulders (Weinig Powermat), window production machines etc.

Blanking arbor for Weinig Powermat

TI 501 0 14

Machine	ID
Weinig	663044 ●



Lifting ring, HSK 85 WS

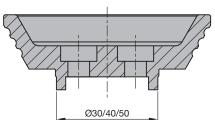
Application:

Lifting rings can be mounted on arbors for easy and safe tool handling.

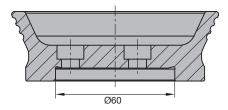
Lifting ring for HSK 85 WS arbors

TK 540 0

Machine	BEZ	ABM mm	TK	ID
Weinig	Spindle lifting rings	for d=30 with safety device against twisting	18	008378 ●
Weinig	Spindle lifting rings	for d=40 with safety device against twisting	25	008365 ●
Weinig	Spindle lifting rings	for d=50 with safety device against twisting	32	008366 ●
Weinig	Spindle lifting rings	for d=60 with safety device against twisting	45	008380 ●



ID 008378/ 008365 / 008366



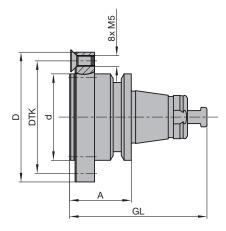
ID **008380**





7.4.3 Adaptors for circular sawblades





Saw blade adaptor

Tool adaptor for circular sawblades for CNC aggregates

Application:

Tool adaptor with flange for the adaption of circular sawblades.

Technical information:

Steep taper design for Flex 5+ aggregate (Homag Group) and 5-motion-Plus aggregate (Felder Format-4). The circular sawblade is fixed through 8 countersink screws M5 on the flange. Maximum sawblade diameter 220 mm (limitation through the aggregate). The maximum cutting width of sawblade is limited to 6 mm. Tool adaptor is fine balanced.

Saw blade adaptor

TI 501 0

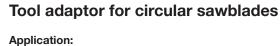
Machine	D	d	Α	TK	I	Weight	ID
	mm	mm	mm		mm	kg	
Felder Format-4,	60	40	26	52	2.5	0.4	663074 ●
Homag Group							

BEZ	ABM	ID
	mm	
Countersink screw	M5x10	005779 ●
Allen key	SW 3	005433 ●









Tool adaptor with flange for the adaption of circular saw blades.

Technical information:

Optionally mounting the sawblade by means of counterscrews or with the enclosed counterflange. Mounting with counterflange is preferred for increased stability and concentricity in case of precision cuts. Application without counterflange is preferred for producing mitre and rafter cuts. Maximum diameter of sawblade 350 mm.



TI 501 0 07

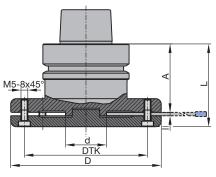
Machine	Α	d	D	I _{max}	TK	L	Weight	ID
	mm	mm	mm	mm		mm	kg	
Homag	40	30	110	3.5	90	75.5	2.0	663094 •
	50	30	110	3.5	90	85.5	2.2	663093 •
SCM	60	30	110	3.5	90	95.5	2.5	663109 •

Sales unit consisting of HSK-flange with counterscrews as well as counterflange with cylindrical screws.

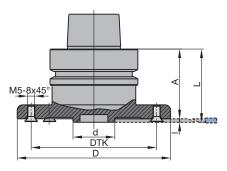


ABM	ID
mm	
M5x12	006414 •
M5x8.5	007808 •
SW 4, L 71	005468 •
Torx® 20	117511 ●
	M5x12 M5x8.5 SW 4, L 71





Clamping variant with counter flange



Clamping variant with concentrically mounted sawblade

7.4 Clamping arbors

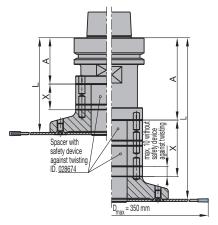


7.4.3 Adaptors for circular sawblades

M5/8x45° BO DTK90

D

Flange TR 810 0



Note:

Variable clamping length through the combination of spacers without pins and spacers with pins for the safety device against twisting ID **028674**. Maximum thickness of the spacers without safety device against twisting = 10 mm.

Flange for circular sawblades

Application:

To mount circular sawblades on arbors.

Technical information:

Saw blade flange is mounted on arbor with diameter d=30 mm by clamping screws and pins. The length and the dimension A are flexible and defined by spacers. Maximum sawblade diameter 350 mm.

Flange adaptor

TR 810 0

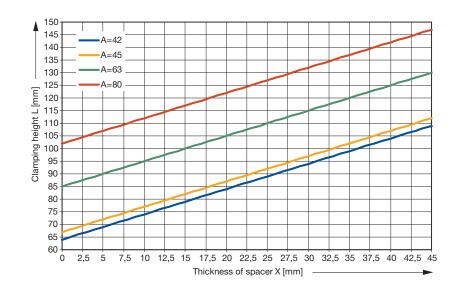
Machine	Н	ВО	D	I _{max}	TK	Weight	ID
	mm	mm	mm	mm		kg	
Universal	22	30	110	3.5	90	0.9	066752 ●

Spare parts:

ABM	ID
mm	
M5x12	006247 ●
Torx [®] 20	117511 ●
60x20x30	028674 ●
	mm M5x12 Torx [®] 20

Suitable spacers, see section Knives and Spare Parts.

Clamping length L depending on spacer thickness X and the dimension A of the arbor used:







Spindle without twist protection



Spindle with anti-twist keyway



Spindle with anti-twist hexagon



Hydro clamping system - open



Hydro clamping system - closed



Hydro-Duo (bi-directio-nal) clamping



Hydro clamping arbors



Hydro clamping



Shrink-fit clamping



Quick clamping system