



Clamping Systems

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Clamping Systems Ø 110 mm

Product

Drawing

Machine / Application

double end tenoners

through feed machines

for mounting of tools with

bore and for combination with

mounting flanges Ø 110 mm

- Design
- I hardened tool mounting area
- I n max = 9,000 min-1

55x23,5x30

[mm]

Advantages

- I excellent balance quality
 I long tool life
- I consistent runout accuracy after each tool change
- I minimization of setup-times thanks to easy and quick tool change
- I maintenance-free and protected from dust

Notes

- I for clockwise and counterclockwise rotationI indicate machine type and shaft design when placing an
- I required tool adapters Class-No. 997370
- I for changing the tools the pneumatic part Ident-No. 058250 is necessary
- I operational pressure 6 bar
- I included in delivery: clamping part incl. cap for attachment on the machine spindle

955520

994200

172398

058250

Ø D	Ø D2	Ød	L1	L3	DKN			Ident-No.
110	50	30	63	47.5	8x3			172399 &
110	50	30	63	47.5	8x3	Homag, Lehbrink, Tor meyer	wegge, SPA, Wilms-	160836
110	50	35	63	47.5	10x4	Spanevello		162599
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts	5		Dimension			For Ident-No.	Class-No.	Ident-No.
Head Ca _l	p Screws		M12x30	DIN EN I	SO 4762	172399	995111	001917
Covers						172399	997370	172397
Covers						160836	997370	181802
Covers						162599	997370	162602

172399



Spacers

pneumatic hose

Mounting Flanges for Clamping System Ø 110 mm - saw blades d=65 mm

Drawing

Product



Type A

Machine / Application

for the mounting of saw blades up to Ø 250 mm with bore Ø 65 mm, 6 countersunk holes

TK 90 mm for screw M 5

Design

Advantages

- I for clockwise and counterclockwise rotation
- I especially suited for the mounting of scoring saw blades
- I at least two separate tool/ flange assemblies should be used per clamping element (reduced downtimes)
- I for DP circular saw blades the cylindrical head screw Ident-No. 001869 is necessary (to be ordered separately)

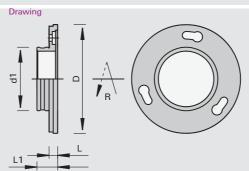
Ø D	Ø d1	L2	L	L1		Ident-No. [L]	Ident-No. [R]
110	65	2,5	10	27		164770	164758
[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts			Dimension			Class-No.	ldent-No.
Countersu	ınk Flat Hea	ded Screws	M5x12		for mounting of saw blade	995122	180007
Head Cap	Screws		M5x12 DIN 912	2	for mounting of DP saw blades	995111	001869
			[mm]				

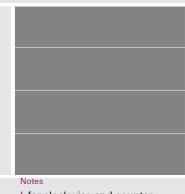


997370

Mounting Flanges for Clamping System Ø 110 mm - saw blades d=50 mm

Product





Machine / Application

for the mounting of saw blades up to Ø 250 mm and saw plate thickness 1.8 - 2.2 mm with bore Ø 50 mm, 3 NL - Ø 22 mm, TK Ø 80 mm

Design

Advantages

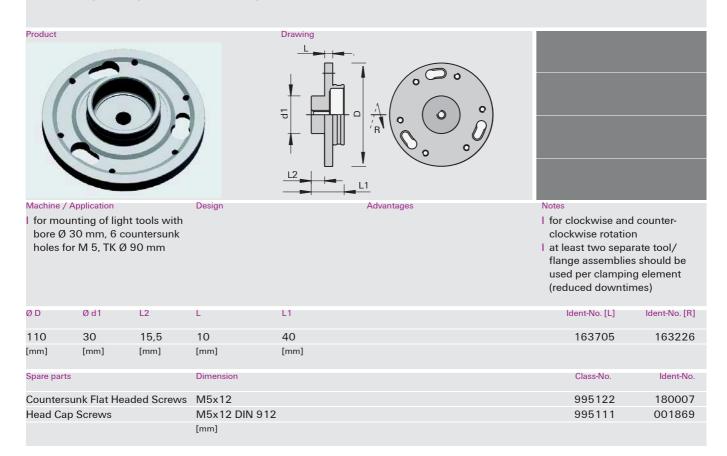
- I for clockwise and counterclockwise rotation
- I especially suited for the mounting of scoring saw blades

Ø D	Ø d1	L	L1	Ident-No.
107	50	10	26.5	160849
[mm]	[mm]	[mm]	[mm]	

7-2



Mounting Flanges for Clamping System Ø 110 mm - tools with bore d=30 mm





Clamping Systems Ø 140 mm

Product

L1

57

57

57

[mm]

I n max = 9,000 min-1

Machine / Application

Ø D

140

140

140

[mm]

Ø D2

80

80

80

[mm]

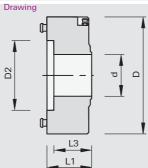
30

35

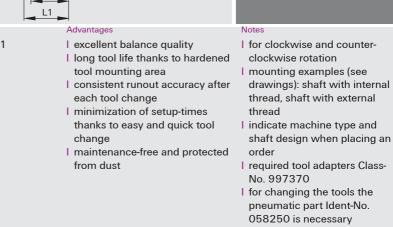
40

[mm]

- double end tenoners through feed machines
- for mounting of tools with bore and for combination with mounting flanges Ø 140 mm



- I operational pressure 6 bar
- I included in delivery: clamping part incl. cap for attachment on the machine spindle (spare parts for Homag and IMA not included in delivery)



167453
167451
167452
o. Ident-No.

Ident-No.

Spare parts	Ø D	Ø D1	Ød	For Ident-No.	Class-No.	Ident-No.
Covers	40	30	17	167453	997370	181802
Covers	45	35	22	167451	997370	180082
Covers	48	40	22	167452	997370	180121
Special Nuts	58		M30 x 1,5		995290	170364
	[mm]	[mm]	[mm]			

Homag

Homag, IMA

DKN

8x3

10x4

12x5

[mm]

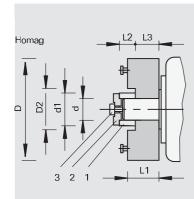
41.5

41.5

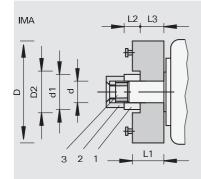
41.5

[mm]





Spare parts	Dimension	ØD	Ø d1	ØD	For Ident-No.	Class-No.	Ident-No.
1 centering adapter				30	167453	997370	168457 s
2 caps		40	30	17	167453	997370	181802
1 centering adapter				35	167451	997370	180540
2 caps		45	35	22	167451	997370	180082
3 cylindrical head screws for Ød=30	M12x55R					995111	80068438
3 cylindrical head screws for Ød=30	M16x35L					995111	80068436
	[mm]	[mm]	[mm]	[mm]			



Spare parts	ØD	Ø d	Dimension	Class-No.	Ident-No.
1 centering adapter		35		997370	180540
2 special nuts			M35x1,5	995290	IMA3
3 countersunk flat he screws	aded			995121	IMA4
4 spacers	70	35	70x25x35	955520	170363
	[mm]	[mm]	[mm]		



Mounting Flanges for Clamping System Ø 140 mm - tools with bore d=30 mm



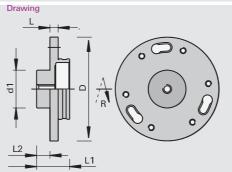


for mounting of medium-

8, TK Ø 110 mm

weight tools with bore Ø 30

mm, 6 countersunk holes for M



Advantages

- I for clockwise and counterclockwise rotation
- I for S-System on shaft with internal thread
- I indicate shaft design when placing an order
- I at least two separate tool/ flange assemblies should be used per clamping element (reduced downtimes)

Ø D	Ø d1	L2	L	L1	Ident-No. [L]	Ident-No. [R]
137	30	17,4	10.8	43.4	163946	163945
[mm]	[mm]	[mm]	[mm]	[mm]		

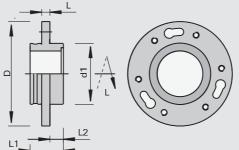
Mounting Flanges for Clamping System Ø 140 mm - tools with bore d=80 mm

Product Ω

Design

for mounting of mediumweight tools with bore Ø 80 mm, 6 countersunk holes for M 8, TK Ø 110 mm

Machine / Application



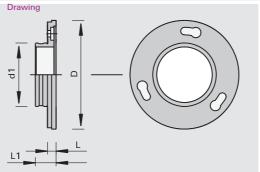
- I for clockwise and counterclockwise rotation
- I for S-System on shafts with external thread
- I indicate shaft design when placing an order
- I at least two separate tool/ flange assemblies should be used per clamping element (reduced downtimes)

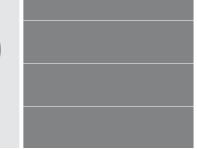
ØD	Ø d1	L2	L	L1	Ident-No. [L]	Ident-No. [R]
137	80	17,5	11.8	44.7	168401	168400
[mm]	[mm]	[mm]	[mm]	[mm]		



Mounting Flanges for Clamping System Ø 140 mm - saw blades d=80 mm







Machine / Application

I for the mounting of saw blades up to Ø 400 mm and saw plate thickness 1.8 - 2.2 mm with bore Ø 80 mm, 3 NL - Ø 22 mm, TK Ø 110 mm Design

Advantages

Votes

I for clockwise and counterclockwise rotation

ØD	Ø d1	L	L1	Ident-No.
137	80	10	28	177050
[mm]	[mm]	[mm]	[mm]	

93301

Clamping Systems Ø 160 mm



Machine / Application

double end tenoners

through feed machines

for mounting of tools with bore

I n max = 9,000 min-1

Drawing

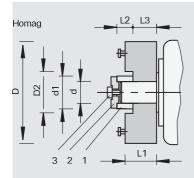
- I excellent balance quality
- I long tool life thanks to hardened tool mounting area
- I consistent runout accuracy after each tool change
- I minimization of setup-times thanks to easy and quick tool change
- I maintenance-free and protected from dust



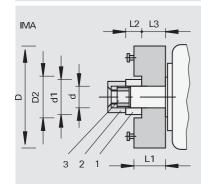
- I for clockwise and counterclockwise rotation
- I mounting examples (see drawing): shaft with internal thread, shaft with external thread
- I indicate machine type and shaft design when placing an order
- I required tool adapters Class-No. 997370
- I for changing the tools the pneumatic part Ident-No. 058250 is necessary
- I operational pressure 6 bar
- I included in delivery: clamping part incl. cap for attachment on the machine spindle (spare parts for Homag and IMA not included in delivery)

טש	Ø DZ	Ø a	LI	L3	DKN		ident-ivo.
160	80	35	60	44.5	10x4	Homag, IMA	167462
160	80	40	60	44.5	12x4		167463
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts	Ø D	Ø D1	Ød	Class-No.	Ident-No.
Covers	40	30	17	997370	181802
Covers	45	35	22	997370	180082
Covers	48	40	22	997370	180121
Special Nuts	58		M30 x 1,5	995290	170364
	[mm]	[mm]	[mm]		



Spare parts	Dimension	Ø D	Ø D1	Ød	Class-No.	Ident-No.
1 centering adapter				30	997370	168457 s
2 caps		40	30	17	997370	181802
1 centering adapter				35	997370	180540
2 caps		45	35	22	997370	180082
3 cylindrical head screw for Ød=35	^S M16x55R				995111	80068439
3 cylindrical head screw for Ød=35	s M20x35L				995111	80068437
4 spacers		60		35	955520	180647
	[mm]	[mm]	[mm]	[mm]		

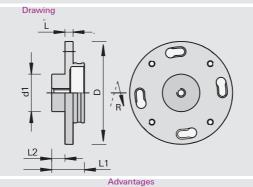


Spare parts	Ø D	Ød	Dimension	Class-No.	Ident-No.
1 centering adapter		35		997370	180540
2 special nuts			M35x1,5	995290	IMA3
3 countersunk flat he screws	aded			995121	IMA4
4 spacers	70	35	70x25x35	955520	170363
	[mm]	[mm]	[mm]		



Mounting Flanges for Clamping System Ø 160 mm - tools with bore d=30 mm





Neter

Machine / Application

I for mounting of heavy tools with bore Ø 30 mm with 4 countersunk holes M 8, TK Ø 130 mm Design

··

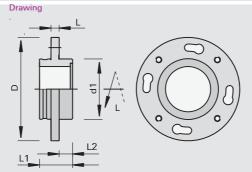
- I for S-System on shaft with external thread
- I for clockwise and counterclockwise rotation
- I indicate shaft design when placing an order
- I at least two separate tool/ flange assemblies should be used per clamping element (reduced downtimes)
- I sense of rotation see drawing

ØD	Ø d1	L2	L	L1	ldent-No. [L]	Ident-No. [R]
157	30	17,4	10.8	43.4	167465	167464
[mm]	[mm]	[mm]	[mm]	[mm]		

997370

Mounting Flanges for Clamping System Ø 160 mm - tools with bore d=80 mm

Product



Notes

Machine / Application

I for mounting of heavy tools with bore Ø 80 mm with 4 countersunk holes M 8, TK Ø 130 mm Design

- I for S-System on shaft with external thread
- I for clockwise and counterclockwise rotation
- I indicate shaft design when placing an order
- I at least two separate tool/ flange assemblies should be used per clamping element (reduced downtimes)
- I sense of rotation see drawing

Ø D	Ø d1	L2	L	L1	ldent-No. [L]	Ident-No. [R]
157	80	18	11.8	45	168399	168398
[mm]	[mm]	[mm]	[mm]	[mm]		

Zeroplan Clamping Systems Ø 160 mm

Product

Drawing L1

Machine / Application

- double end tenoners through feed machines
- for mounting of tools with bore and for combination with mounting flanges Ø 160 mm

I n max = 7,200 min-1

- I high runout accuracy almost as good as on hydro motors, now available for standard-motor shafts d = 35
- I distinct increase of edge life and quality thanks to precise run-out- I operational pressure 6 bar adjustment
- I consistent runout accuracy after each tool change
- I minimization of setup-times thanks to easy and quick tool change
- I maintenance-free and protected from dust

- I for clockwise and counterclockwise rotation
- I for changing the tools the pneumatic part Ident-No. 058250 is necessary

Ø D	Ød	Ø d1	L2	L1	DKN		Ident-No.
160	35	60	17,5	95	10x4	Homag	180654
160	35	60	17,5	102	10x4	IMA	180655
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts	Dimension	Class-No. Ident-No.
Covers (IMA)	45x25x35 DKN	997370 180656 o
Engineers Wrenches	SW10/13 DIN 895	985720 171060 o
	[mm]	



Clamping Systems Ø 192 mm

Product Drawing

Machine / Application

- Design
- I n max = 7,200 min-1
- I double end tenoners
 I through feed machines
- for mounting of hoggers with \emptyset 250 mm

- Advantages
- l excellent balance quality
 long tool life thanks to hardened
 tool mounting area
- consistent runout accuracy after each tool change
 minimization of setup-times thanks to easy and quick tool
- change
 I maintenance-free and protected
 from dust
- Notes
- I for clockwise and counterclockwise rotation
 I mounting example (see drawing)
 I indicate machine type and
- shaft design when placing an order
- I required tool adapters Class-No.
- I operational pressure 6 bar I included in delivery: see
- accessory list

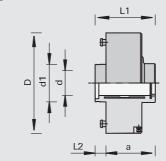
Ø D	Ød	Ø d1	KN	DKN			Ident-No.
192	35	80		10x4	clamping part, spacer ring	IMA, B+G, Hüllhorst	161363 &
192	35	80		10x4	clamping part, spacer ring	B+G (flat nut)	161364 &
192	40	80		12x5	clamping part, spacer ring	B+G, SCM-Stefani	161365 &
192	35	80		10x4	clamping part, spacer ring	Celaschi	161366 &
192	35	80		10x4	clamping part, spacer ring, cover disk	Danckaert	161367 &
192	40	80	10x4		clamping part, spacer ring	Gabbiani	161257 &
192	35	80		10x4	clamping part, spacer ring	Festo	161256 &
192	35	80		10x4	clamping part, spacer ring, cover disk	Frommia	161258 &
192	35	80		10x4	clamping part	Homag, Lehbrink, Torwegge, SPA, Wilmsmeyer	161259
192	35	80		10x4	clamping part, spacer ring, cover disk	Kuhlmann	161260 &
192	40	80		12x5	clamping part, spacer ring, cover disk	M+S, Schwabedissen	161251 &
192	35	80		10x4	clamping part, cover disk	Raimann	161252 &
192	30	80			clamping part	SPA	161253 s
[mm]	[mm]	[mm]	[mm]	[mm]			



Hydro Clamping System Ø 160 mm - hoggers

Product







I for mounting of tools with bore

Docian

- I hardened tool mounting area I n max = 9,000 min-1
- I closed hydraulic expansion clamping chuck with one clamping zone for tight-tolerance fit on the motor shaft

Advantages

- high cutting quality thanks to distinctly increased runout accuracy and concentricity
 consistent runout accuracy after
- each tool change
 I minimization of setup-times
 thanks to easy and quick tool
 change
- I maintenance-free

Notes

- I for clockwise and counterclockwise rotation
- I specifically designed for high-precision motors with hexagonal spindle base
- I for changing the tools the pneumatic part Ident-No. 058250 is necessary
- I operational pressure 6 bar
- I included in delivery: hydro quick-clamping system incl. Screwdrivers

Ø D	Ød	Ø d1	L2	L1	a			Ident-No.
160	40	60	17,5	96	78.5	Hoggers		172677
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts							Class-No.	ldent-No.

Spare parts	Class-No.	ldent-No.
Covers with O-Rings	997300	172679
Head Cap Screws	995111	184251
pneumatic hose	994200	058250
Screwdrivers	985730	167817
Cranked Wrench Keys	985730	177106





Hydro Clamping System Ø 160 mm - cutters







I for mounting of tools with bore

- I hardened tool mounting area I n max = 9,000 min-1
- I closed hydraulic system with two clamping zones
- I clamping zone 1: for tighttolerance fit on the motor shaft I minimization of setup-times (runout)
- I clamping zone 2: for tighttolerance fit of milling tools on the clamping element (concentricity)

- I high cutting quality thanks to distinctly increased runout accuracy and concentricity I consistent runout accuracy after each tool change thanks to easy and quick tool
- change I maintenance-free

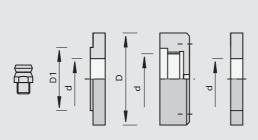
- I for clockwise and counterclockwise rotation
- I specifically designed for high-precision motors with hexagonal spindle base
- I for changing the tools the pneumatic part Ident-No. 058250 is necessary
- I operational pressure 6 bar
- I included in delivery: hydro quick-clamping system incl. Screwdrivers

Ø D	Ød	Ø d1	L2	a			Ident-No.
160	40	60	35	53	milling tools		176829
[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts						Class-No.	ldent-No.
Covers wi	th O-Rings					997300	172679
Head Cap	Screws					995111	184251
pneumation	hose					994200	058250
Screwdriv	ers					985730	167817
Cranked V	Vrench Keys					985730	177106



Accessories for Quick-Clamping Systems





Drawing

Machine / Application

Design

Advantages

I for engaging or releasing the LEUCO quick-clamping systems

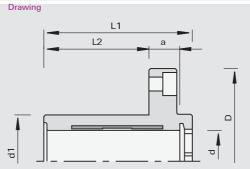
- I anti-twist bolt Ident-No. 160875 for mounting I ring Ident-No. 170363 is required for L = 68 mm if no centering adapter is used I nut Ident-No. 170364 is required for IMA machines with short shaft I the pneumatic hose is required to change the
- tools; must be ordered separately before first delivery of clamping systems Class-No. Ident-No.

hydraulic connector R 1,	/8" (old design)				994400	160632			
hydraulic connector M1	hydraulic connector M10x1 (new design) 99440								
fitting					997800	161289			
pneumatic hose comple	te				994200	058250			
		~ 5	~ ~ .	~ .					
Spare parts	For S-Sytem Ø D/d	ØD	Ø D1	Ød	Class-No.	Ident-No.			
Covers	110/140/160/30	40	30	17	997370	181802			
Covers	110/35	40	35	17	997370	162602			
Covers	140/160/35	45	35	22	997370	180082			
Covers	140/160/40	48	40	22	997370	180121			
Special Nuts	140/160/35	58		M30 x 1,5	995290	170364			
Spacers	140/160/35	70		35	955520	170363			
Bolts	110/140/160			10x120	995322	160875			
		[mm]	[mm]	[mm]					



Hydro Clamping Bushings with hexagonal adapter bottom-tools with bore

Product





Machine / Application

I for mounting of tools with bore

- I hardened tool mounting area I with one clamping zone
- I closed hydraulic expansion clamping chuck for tighttolerance fit on the motor shaft
- I n max = 9,000 min-1

Advantages

- I optimum cutting quality when milling and hogging
- I maintenance-free and inured to dirt

- I for clockwise and counterclockwise rotation
- I specifically designed for high-precision motors with hexagonal spindle base
- I included in delivery: hydro clamping bushing without screwdrivers

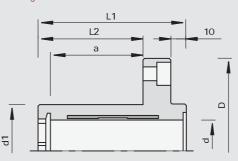
Ø D	Ø d	Ø d1	L2	LT	а	NL	Ident-No.
120	40	60	68	96	20	4/M8/100	172678
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts		Class-No.	ldent-No.
Covers with O-Rings	for axial locking or bores 40 mm	997300	172679
Head Cap Screws	M14x60 DIN 6912 for 172679	995111	184251
Screwdrivers	SW6 for hydro pressure build-up	985730	167817
Cranked Wrench Keys	SW12 DIN 6911	985730	177106
Spacers	119,5x51x60 NL	955520	179471

Hydro Clamping Bushings with hexagonal adapter top-tools with bore



Drawing





Machine / Application

for mounting of tools with bore and for combination with Postforming radius panel raising cutters und LEUCODIA CompactTec hoggers

Design

- I hardened tool mounting area I with one clamping zone
- I closed hydraulic expansion clamping chuck for tighttolerance fit on the motor shaft
- I n max = 9.000 min-1

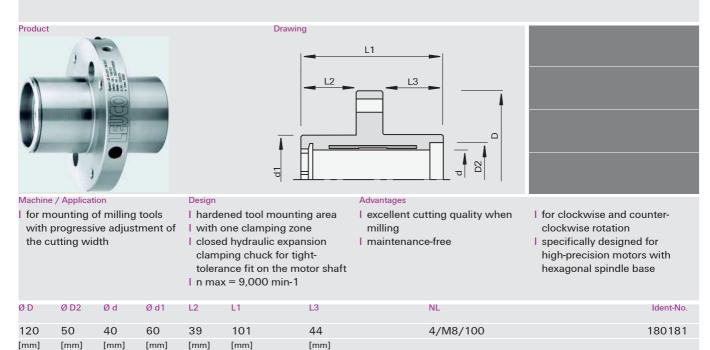
- I excellent cutting quality when milling and hogging
- I maintenance-free

- I for clockwise and counterclockwise rotation
- I specifically designed for high-precision motors with hexagonal spindle base
- I included in delivery: Hydro Clamping Bushing incl. screwdriver SW 6

Ø D	Ød	Ø d1	L2	L1	a	NL	Ident-No.
120	40	60	68	96	60	4/M8/100	173724
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts		Class-No.	ldent-No.
Spare parts		Class-IVO.	ident-No.
Covers with O-Rings	for axial locking or bores 40 mm	997300	172679
Head Cap Screws	M14x60 DIN 6912 for 172679	995111	184251
Screwdrivers	SW6 for hydro pressure build-up	985730	167817
Cranked Wrench Keys	SW12 DIN 6911	985730	177106
Spacers	119,5x51x60 NL	955520	179471

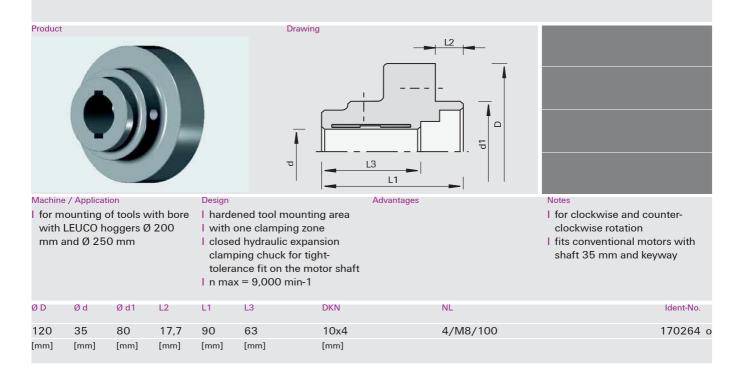
Hydro Clamping Bushings - tools with bore progressively adjustable



→ ←

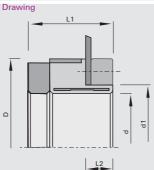
933030

Hydro Clamping Bushings - hoggers



Hydro Clamping Bushings - gang-rip saw blades and hoggers (Paul, Homag)

Product



Machine / Application

for mounting of of multi-rip saw | | with one clamping zone

Advantages I hardened tool mounting area I high smoothness of running I short retool-times of panelwidths thanks to quick adjust-

ment of tools tolerance fit on the motor shaft | maintenance-free

- I for clockwise and counterclockwise rotation
- I mounting arrangements: 1. saw blade with spacer, 2. hogger without spacer
- I positive locking between machine and sleeve
- I tap holes on PCD for fixing of tools

ØD	Ød	Ø d1	L2	L1	NL	Ident-No.
145	100	110	18	65.5	4/M8/130	183829
150	100	110	18	49.5	4/M8/130	183821 s
[mm]	[mm]	[mm]	[mm]	[mm]		

Mounting Flanges - scoring saw blades (Homag, Brandt, IMA)

I closed hydraulic expansion

clamping chuck for tight-

I n max = 9,000 min-1

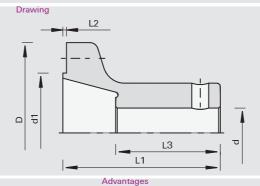
Product

I machines Paul, Homag

blades and hoggers



- double end tenoners
- edge banding machines Homag, Brandt, IMA
- for mounting of HW scoring saw blades and DP scoring saw blades



Design

- I tempered design
- I mating and seating surfaces ground



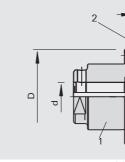
- I for clockwise and counterclockwise rotation
- I for DP circular saw blades the cylindrical head screw Ident-No. 001869 is necessary (to be ordered separately)
- I countersink screw included in delivery

ØD	Ød	Ø d1	L2	L1	L3		DKN		NL		Ident-No.
109	30	65	2,2	95	63		8x4		6/M5/90		006480
109	35	65	2,2	95	63		10x3,3		6/M5/90		182128
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]				
Spare pa	rts					ØD	Ø D1	Ød		Class-No.	Ident-No.
Covers						40	30	17		997370	181802
Countersunk Flat Headed for mounting of saw blade 995122 1800										180007	
						[mm]	[mm]	[mm]			

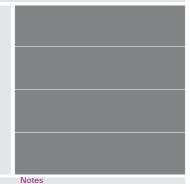
Spare parts		Ø D	Ø D1	Ød	Class-No.	Ident-No.
Head Cap Screws	for mounting of DP saw blades				995111	001869
		[mm]	[mm]	[mm]		

Attachment Sleeves and Flanges - grooving saw blades, scoring saw blades, clipping saw blades and hoggers





Drawing



for mounting of grooving saw blades, scoring saw blades, clipping saw blades and hoggers

Design

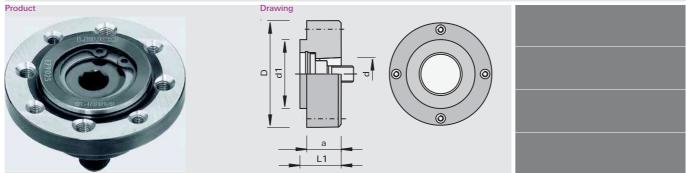
- I for clockwise and counterclockwise rotation
- I 1 = hogger sleeve
- I 2 = flange
- I for horizontally tilted motor when working in small distance to chain track

Ø D	Ød	Ø d1	L2	L1	DKN	NL		ldent-No.
115	30	80	17,7	96	8x3	8/M8/100		006309
115	35	60	17,7	90	10x4	8/M8/100		180062
115	35	80	17,7	90	10x4	8/M8/100		055997
115	40	60	17,7	90	12x5	8/M8/100		180120
115	40	80	17,7	96	12x5	8/M8/100		006308
145	35	110	17	89.4	10x4	4/M8/130		189750 s
158	40	80	21	96	12x5	8/M8/130		008507
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Flange			Ø D	В	Ød	Ø NL	Class-No.	ldent-No.
			137	80	15	6/M5/105	997300	819300 s
			[mm]	[mm]	[mm]			





Mounting Flanges - clipping saw blades (Homag, IMA)



Machine / Application

I edge banding machines Homag, IMA

for mounting of clipping saw blades

Design

I machine interface HSK 25R

Advantages

I optimum cutting quality thanks to high radial running accuracy and precise tool balancing Motos

- I for clockwise and counterclockwise rotation I countersunk screw and
- I countersunk screw and screwdrivers are not included in delivery

Ø D	Ød	Ø d1	L1	a	NL	ldent-No.
55	HSK 25R	34	22	20	4/M4/44+4/M5/42	179025
62	HSK 25R	40	24	20	4/M5/52	177788
66	HSK 25R	40	24	15	4/M5/52	183817
[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts	Dimension	Class-No.	ldent-No.
Screws	M10x1,25x32 SW8	995190	177780
Shim Rings	18x25x1,0 DIN 988	995440	177781
Locking Rings	25x1,2 DIN 472	995460	177782
Countersunk Flat Headed Screws	M5x10 T20	995125	171236
Screwdrivers	T20x100	985730	166092
	[mm]		



Mounting Flanges - clipping saw blades (Homag Power-Line)

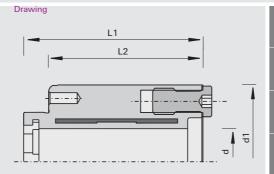
Product					Drawing			
Machine /	Application		Design			Advantages	Notes	
I machines Power-Line Homag I for mounting of clipping saw blades		I machir	ne interfa	ace HSK 25R	I optimum cutting quality thanks to high radial running accuracy and precise tool balancing	I for clockwise and clockwise rotation		
ØD	Ød	Ø d1	L1	а	NL			ldent-No.
105	HSK 25R	30	23	14	4/M5/52			181590
[mm]	[mm]	[mm]	[mm]	[mm]				
Spare parts	S				Dimension		Class-No.	ldent-No.
Screws					M10x1,25x32 S	SW8	995190	177780
Shim Rin	igs				18x25x1,0 DIN	988	995440	177781
Locking F	Rings				25x1,2 DIN 472		995460	177782
Head Cap	p Screws				M5x12 DIN 912		995111	001869
Screwdri	ivers				SW4x100		985730	166091
					[mm]			





Hydro Clamping Bushings - tools with bore on spindle 30 mm





Machine / Application

I for Homag and IMA jointing aggregat with spindle 30 mm and hexagon adapter I for mounting of tools with bore

Design

I hardened tool mounting area
I with one clamping zone
I axial impressurement
I closed hydraulic expansion
clamping chuck for tighttolerance fit on the 30 mm
motor shaft

.

I reduced machine downtimes thanks to axial impressurement excellent cutting quality when milling and hogging maintenance-free

Notes

clockwise rotation
I specifically designed for high-precision motors with hexagonal spindle base

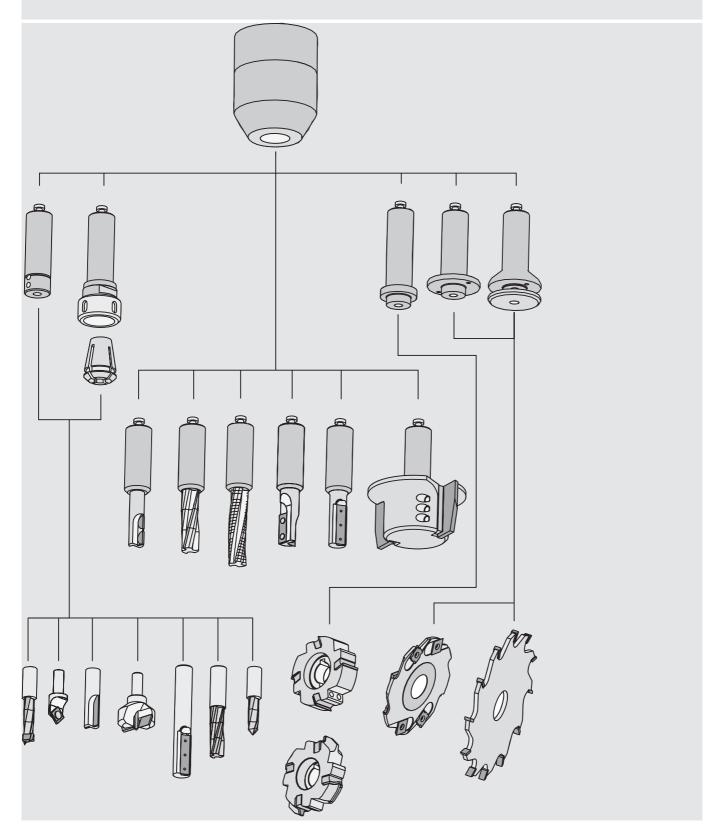
I for clockwise and counter-

I included in delivery: hydro clamping bushing without screwdrivers

			I n max =	9,000 min-1	screwdrivers	Ü
Ød	Ø d1	L2	L1	NL		ldent-No.
30	70	70,5	86	6/M6/58		184310
[mm]	[mm]	[mm]	[mm]			
Spare parts					Class-No.	Ident-No.
Covers wit	th O-Rings			for axial locking or bores 30 mm	997300	184317
Head Cap	Screws			M10x50 DIN EN ISO 4762 for 184317	995111	001909
Screwdriv	ers			SW6/4 for hydro pressure build-up	985730	184707
Cranked V	rench Keys	;		SW8 DIN ISO 2936	985730	009677



Chart Tool Holders machine interface PS 2000-E







Hydro Clamping Chucks - tool directly attached by screws





Universal Reducing Bushings

5/8

3/4

[inch]

[mm]

38

42

[mm]

25

25

[mm]

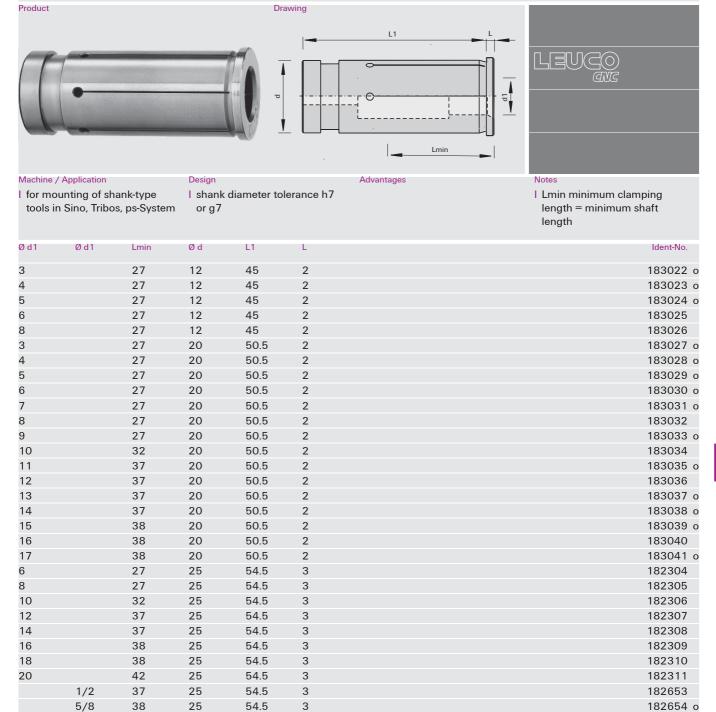
54.5

54.5

[mm]

3

[mm]

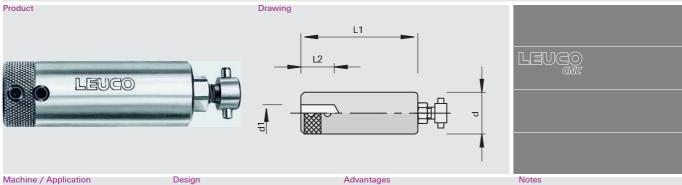




182654 o

182655

Adapters with cylindrical shank - shank-type tools



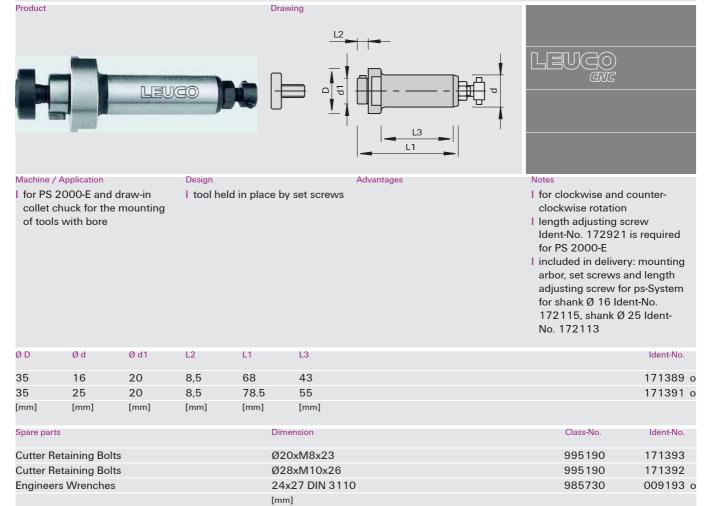
I for mounting of shank-type tools in PS 2000-E for shank diameter 6 - 12 mm

- I the tool shanks must feature a flat clamping area
- I length adjusting screw Ident-No. 172921 is required for PS 2000-E
- I with length adjusting screw for ps-System Ø 16 mm Ident-No. 172115, Ø 25 mm Ident-No. 172113

Ød	Ø d1	L2	L1		Ident-No.
16	6,35	20	61		172112 o
16	8	20	61		172117
16	9,5	20	61		172118 o
16	10	20	61		172119
25	6	20	70		172103
25	8	20	70		172104
25	9,5	20	70		172105 o
25	10	20	70		172101
25	12	20	70		172102
[mm]	[mm]	[mm]	[mm]		



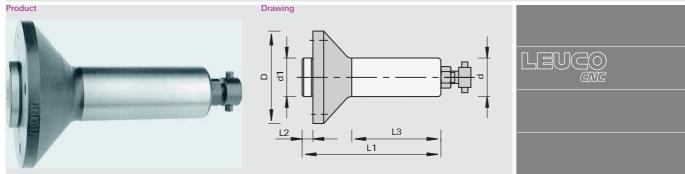
Adapters with cylindrical shank - tools with bore







Adapters with cylindrical shank - saw blades, grooving cutters and cutters



Machine / Application

I for PS 2000-E and draw-in collet chuck for the mounting of tools with bore

Design

I tool attached and secured against rotation with screws

Advantages

es I

- I for clockwise and counterclockwise rotation
- I length adjusting screw Ident-No. 172921 is required for PS 2000-E
- I clamping length L2 = 30 and 36 mm for single- and multipiece cutters and cutterheads
- I clamping length L2 = 4 and 5 mm for circular saw blades and grooving cutters
- I included in delivery: mounting arbor and PS length adjusting screw for shank Ø 25 Ident-No. 172113

Ø D	Ød	Ø d1	L2	L1	L3	NL		Ident-No.
50	16	22	4	68	45	4/M5/34 + 4/M4/36		184277
50	25	22	4	92	60	4/M5/34 + 4/M4/36		184276
60	16	30	4	80	60	4/M6/48	Lamello Clamex P	184304
60	25	30	4	90	70	4/M6/48	Lamello Clamex P	184305
60	25	25	30	111	60	6/M6/48		168814 o
60	25	30	36	117	60	6/M6/48		168815
66	25	30	5	92	60	4/M5/48		171386
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			



Adapters with cylindrical shank - saw blades and grooving cutters

Product

Drawing L1 L1 L3



Machine / Application

I for PS 2000-E and draw-in collet chuck for mounting of circular saw blades and grooving cutters

Design

I secured against rotation with drive pin

Advantages

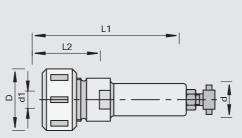
- I for clockwise and counterclockwise rotation
- I length adjusting screw Ident-No. 172921 is required for PS 2000-E
- I included in delivery: clamping arbor, clamping flange, cap screw and length adjusting screw for ps-System for shank Ø 16 Ident-No. 172115, shank Ø 25 Ident-No. 172113

Ø D	Ød	Ø d1	L2	L1	L3		ldent-No.
60	16	30	8	78	43	for plate thickness max. 6 mm	171394
60	25	30	9	94	55	for plate thickness max. 8 mm	167826
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

933250

Draw-In Collet Chucks with cylindrical shank







Machine / Application

I for mounting of shank-type tools in PS 2000-E

Design

I for shank diameter 2-16 mm

Drawing

- collet chucks DIN 6388 Type 415E/OZ16
- I lock nut with sleeve bearing

Advantages

Notes

- I for clockwise and counterclockwise rotation
- I length adjusting screw Ident-No. 172921 is required for PS 2000-E
- I included in delivery: collet chuck adapter with nut and length adjusting screw for ps-System for shank Ø 16 Ident-No. 172115, shank Ø 25 Ident-No. 172113

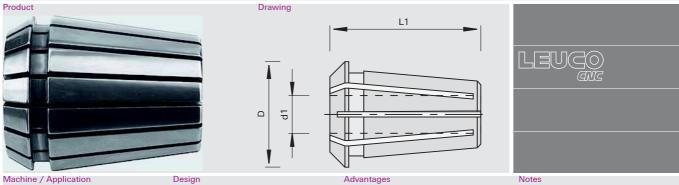
ØD	Ød	Ø d1	L2	L1		Ident-No.
43	16	2-16	50	95		170181
43	25	2-16	50	105		170182
[mm]	[mm]	[mm]	[mm]	[mm]		





Spare parts	Dimension	Class-No.	ldent-No.
Ball-bearing lock nuts	M30x1,5R	995290	178763
Hook Wrenches	SW40/42 DIN 1810	985720	169298
Engineers Wrenches	24x27 DIN 3110	985730	009193 o
	[mm]		

Precision collets - 415E/OZ16



I for use in draw-in collet chucks Type 415E/OZ16

- I slotted from top and bottom
- I clamping tolerance 0.5 mm
- I according to DIN 6388 415E/ OZ16

I for Ident-No. 170181, 170182

Ø D	Ø d1	L1	Ident-No.
25.5	2,5	40	820753 o
25.5	3	40	820754 o
25.5	4	40	820494 o
25.5	4,5	40	830236 o
25.5	5	40	820495 o
25.5	6	40	170779 o
25.5	6,35	40	821421 o
25.5	7	40	829692 o
25.5	8	40	170780
25.5	9	40	825190 o
25.5	9,5	40	168739 o
25.5	10	40	170781
25.5	12	40	168740
25.5	12,7	40	830156 o
25.5	13	40	821221 o
25.5	16	40	168741
[mm]	[mm]	[mm]	



StarterKit for Weeke BHX series



Drawing



Advantages

- I flexible, quick clamping I low building height
- I individual tool pre-setting outside of the machine is possible
- I time saving tool changes

I for Weeke BHX machines grooving cutters HW "g5-System" are also available

for use in hydro expansion chuck on WEEKE BHX machines, expecially BHX 050/055 series for tools with shank diameter up to 1-16 mm

Machine / Application

StarterKit SET1

StarterKit SET2

Design I adapters with high-precision collet chucks, especially adapted to the hydro clamping system of the BHX milling spindle

I with internal lock nut

[d]+[f] 3 clamping adapter incl. lock nuts

[e] 3 collet chucks (8, 10, 12 mm)

[c] 1 mounting device [a] 1 hook wrench [g] 1 wrench

[d]+[f] 5 clamping adapter incl. lock nuts

[e] 5 collet chucks (6, 8, 10, 12, 16 mm) [c] 1 mounting device

[a] 1 hook wrench [b] 1 wrench socket Ident-No.

184359 o

184360 o

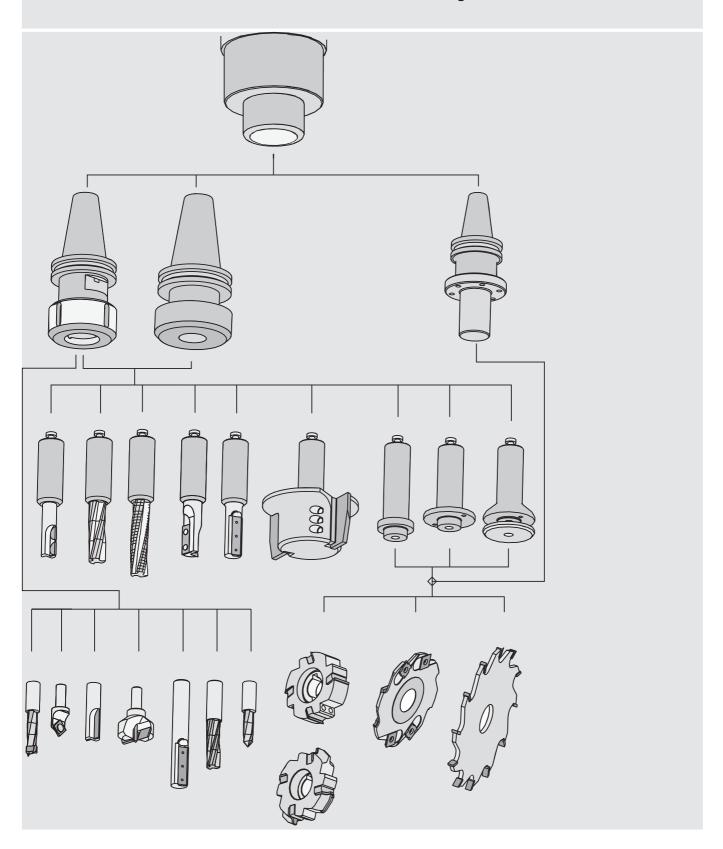
Spare parts Content StarterKit Ident-No. Class-No. [f]+[d] clamping adapter D25x16 mm incl. lock nut For all 184362 o 933250 [c] mounting devices For all 985202 184363 o [a] hook wrench D25 L=200 For all 985720 184364 o [g] wrench D30 SW27 H20 184359 184365 o 985720 [b] wrench socket D30 SW22 H96 184360 184366 o 985720 184372 o [e] collet chucks 411E D=6 184360 933280 184373 o [e] collet chucks 411E D=8 For all 933280 184374 o [e] collet chucks 411E D=10 For all 933280 For all 184375 o [e] collet chucks 411E D=12 933280 184360 184376 o [e] collet chucks 411E D=16 933280

Accessories	Class-No.	Ident-No.
[e] collet chucks 411E D=1	933280	184367 o
[e] collet chucks 411E D=2	933280	184368 o
[e] collet chucks 411E D=3	933280	184369 o
[e] collet chucks 411E D=4	933280	184370 o
[e] collet chucks 411E D=5	933280	184371 o
[e] collet chucks 411E D=6	933280	184372 o
[e] collet chucks 411E D=16	933280	184376 o
torque wrench 40-200 Nm	985720	184377 o
[d] lock nut s M43x1,5	995290	184378 o





Chart Tool Holders machine interface SK- and BT-Mounting





Hydro Clamping Chucks PS 2000-E - tool changer

Product



Machine / Application

I CNC machining centers with automatic tool changer I for precise clamping of shanktype tools with cylindrical shank

Design

- I n max = 25,000 min -1
 I quick-release taper BT 30 and quick-release taper BT 35 with retaining bolt according to standard MAS 403
- I quick-release taper SK 30 according to ISO 7388-3 (without retaining bolt - must be ordered separately)
- I quick-release taper SK 30 and SK 40 according to DIN 69871A (with retaining bolt)

Advantages

- I minimization of setup-times thanks to easy and quick tool change
- I high cutting quality and long edge lives thanks to high concentricity

Notes

I for clockwise and counterclockwise rotation

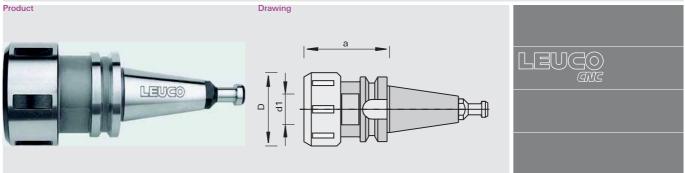
Ø D	Ød	Ø d1	L2	L1	a	Weight		ldent-No.
70	SK 30 (ISC	0)25	55	111	63	1.1	CMS	173774
70	SK 30 (DIN)	25	55	111	63	1.1	IMA, Maka, Biesse, Reichenbacher, Weeke	173754
70	SK 40 (DIN)	25	55	128	60	1.39	IMA, Maka, Reichenbacher, Stegherr	173756
70	BT 35	25	55	120	63	1.25	Heian	175796
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]		

Retaining Bolts		Mach.	Class-No.	Ident-No.
for SK 30	DIN 69872 A	IMA, Maka, Reichenbacher, Weeke	997870	169293
for SK 40	DIN 69872 A	IMA, Reichenbacher, Stegherr	997870	169294
for SK 30	ISO 7388-3	CMS, Masterwood	997870	177021
for SK 30		Rover old, Biesse up to 08/92	997870	175637
for SK 30		Rover new, Biesse (HSD motor) from 09/92, Masterwood (Colombo motor)	997870	173641
for SK 30	ISO 7388-3	Alberti	997870	177020
for BT 35	PT 35T-2	Heian	997870	176103





Draw-In Collet Chucks with SK shank



Machine / Application

I CNC machining centers with automatic tool changer I for clamping of shank-type tools with cylindrical shank

Design

- I quick-release taper according to DIN 69871 resp. ISO 7388-3 (without dog and locating grooves)
- I quick-release taper according to Japanese standard MAS -403 (for Ident-No. 176102)
- I lock nut with sleeve bearing (except for Ident-No. 177304 with ball bearing)

Advantages

- I minimization of setup-times thanks to easy and quick tool change
- I high cutting quality and long edge lives thanks to high concentricity

Notes

- I for clockwise and counterclockwise rotation
- I included in delivery:collet chuck, clamping nut and retaining bolt

ØD	Ø d	Norm number	Ø d1	a				Ident-No.
43	SK 30 (DIN)	415E/ OZ16	2-16	55	SW 41	Weeke		177304 o
60	SK 30 (DIN)	462E/ OZ25	2-25	70	SW 41	IMA, Maka, Reichenbach	er	173794
50	SK 30 (ISO)	470E/ ER32	2-20	58	SW 41	CMS		180360 o
60	SK 40 (DIN)	462E/ OZ25	2-25	70	SW 46	IMA, Maka, Stegherr, Rei cher	chenba-	173795
60	BT 35	462E/ OZ25	2-25	70	SW 41	Heian		176102
[mm]	[mm]		[mm]	[mm]				
Spare parts						Cl	lass-No.	ldent-No.
Ball-bearing	ng lock nuts	M30x1,5F	}		for Ø D = 43	9:	95290	178763
Lock Nut	with sleeve bearing	M48x2R			for Ø D = 60	99	95290	178764
Retention	knobs	DIN 6987	2 A		for SK 30 997870			169293
Retention	knobs	DIN 6987	2 B		for SK 40 997870		97870	179339
Retention	knobs	ISO 7388-	3		for SK 30	9:	97870	177021
Retention	knobs	PT 35T-2			for BT 35 997870		97870	176103
Hook Wrenches		SW58/62	DIN 1810		for Ø D = 60	98	85720	169299
Hook Wrenches		SW40/42	DIN 1810		for Ø D = 43	98	85720	169298
Single-Head Engineers Wrenches		SW46x10	DIN 894			98	85720	178760
Single-Hea	ad Engineers Wrenches	SW41 DIN	l 894			98	85720	169297
		[mm]						



Ød1

15

16

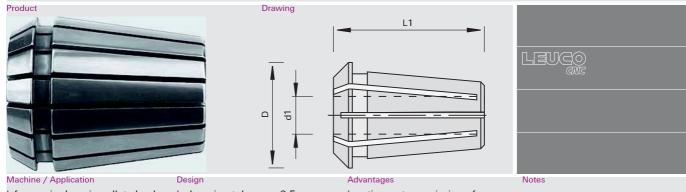
18

20

25

[mm]

Precision collets - 462E/OZ25



I for use in draw-in collet chuck Type 462E/OZ25

Ød1

5/8

3/4

[inch]

Ø D

35.05

35.05

35.05

35.05

35.05

35.05

35.05

[mm]

52

52

52

52

52

52

52

[mm]

I clamping tolerance 0.5 mm I according to DIN 6388 Type 462E/OZ25

I optimum transmission of clamping force thanks to 12 slots from top and bottom

2		35.05	52	183803 o
3		35.05	52	183804
4		35.05	52	183805
5		35.05	52	183806
6		35.05	52	180213
	1/4	35.05	52	175815
7		35.05	52	183807 o
8		35.05	52	180358
9,5		35.05	52	175817
	3/8	35.05	52	185275
10		35.05	52	170782
12		35.05	52	168742
	1/2	35.05	52	175820
13		35.05	52	180215
14		35.05	52	170783



Ident-No.

175823

168743

180216

175826

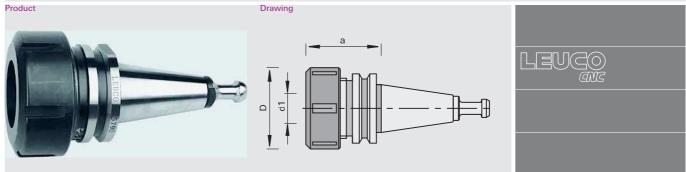
168744

168745

183808 o



Draw-In Collet Chucks with SK shank - Biesse, CMS



Machine / Application

CNC machining centers with automatic tool changer for clamping of shank-type tools with cylindrical shank

Design

- I quick-release taper according to DIN 69871 and ISO (without dog and locating grooves)
- I lock nut with sleeve bearing

Advantages

- I minimization of setup-times thanks to easy and quick tool change
- I high cutting quality and long edge lives thanks to high concentricity

Notes

- I for clockwise and counterclockwise rotation
- I collet chucks according to Type 470E/ER32 Ø 2..20 mm
- I collet chucks according to Type 472E/ER40 Ø 4..25 mm
- I included in delivery:collet chuck, clamping nut and retaining holt

						retaining bolt	
Ø D	Ød	Ø d1	а	Туре			Ident-No.
50	SK 30 (DIN)	2-20	50	470E/ER32	Biesse		173639
63	SK 30 (DIN)	4-25	57	472E/ER40	Biesse		175790
63	SK 30 (ISO)	4-25	64	472E/ER40	CMS		180361
[mm]	[mm]	[mm]	[mm]				
Spare parts		Dimension				Class-No.	ldent-No.
Lock Nuts		M40x1,5R		for Ø D = 50	for Ø D = 50		178761
Lock Nuts	with sleeve bearing	M50x1,5R		for Ø D = 63	for Ø D = 63		178762 o
Retention	knobs			HSD motor f	HSD motor for Biesse as from 09/92		173641
Retention	Knobs			for Biesse up	for Biesse up to 08/92		175637
Retention	knobs	ISO 7388-3		for SK 30	for SK 30		177021
Hook Wrenches		SW45/50 D	IN 1810	for Ø D = 50	for Ø D = 50		175851
Hook Wrenches		SW58/62 DIN 1810		for Ø D = 63	for Ø D = 63		169299
		[mm]					



Draw-In Collet Chucks with SK shank with ring gear

Product Drawing

Machine / Application

I CNC machining centers with automatic tool changer I for clamping of shank-type tools with cylindrical shank

Single-Head Engineers Wrenches SW36 DIN 894

Single-Head Engineers Wrenches SW46x10 DIN 894

[mm]

Design

- I quick-release taper according to SK 30 with ring gear
- I lock nut with sleeve bearing

Advantages

- I minimization of setup-times thanks to easy and quick tool change
- I high cutting quality and long edge lives thanks to high concentricity

lotes

- I for clockwise and counterclockwise rotation
- I replaceble retaining bolt
- I collet chucks according to Type 462E/OZ25 Ø 4..25 mm
- I collet chucks according to
- Type 470E/ER32 Ø 2..20 mm
- I included in delivery:collet chuck, clamping nut and retaining bolt

985720

985720

Ø D	Ød	Ø d1	a	Туре			Ident-No.
50	SK 30	2-20	55	470E/ ER32	SCM, Morbidelli		173644
60	SK 30	4-25	72	462E/ OZ25	SCM, Morbidelli		175792
[mm]	[mm]	[mm]	[mm]				
Spare parts			Dimension			Class-No.	Ident-No.
Lock Nut	S		M40x1,5	R	for Ø D = 50	995290	178761
Lock Nut	with sleeve	bearing	M48x2R		for Ø D = 60	995290	178764
Retention	n Knobs		Ø8,5			997870	173646
Hook Wrenches SW45/50 DIN 1810			for Ø D = 50	985720	175851		
Hook Wr	enches		SW58/62	2 DIN 1810	for Ø D = 60	985720	169299

for \emptyset D = 50

for \emptyset D = 60

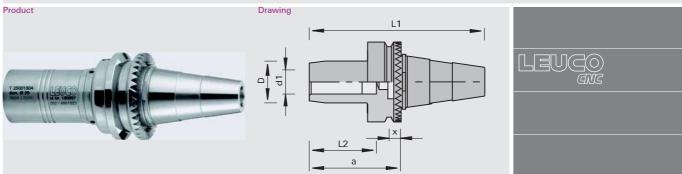


169296 o

178760



Tribos Pressure Shrinking Chucks with SK shank



Machine / Application

CNC machining centers with automatic tool changer for precise clamping of shanktype tools with cylindrical shank

Design

- I quick-release taper according to SK 30 with ring gear
- I n max = 40,000 min-1

- I low weight is easy on machine bearing
- I suitable for high RPM's
- I optimum chip extraction thanks to slim design
- I increased process safety, long edge lives and high machining quality thanks to very high concentricity and repeating accuracy (< 0.003 mm)

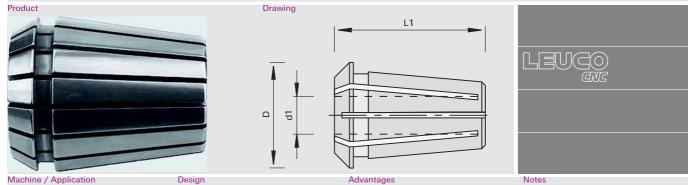
- I for clockwise and counterclockwise rotation
- I different diameters upon request
- I allowed projection:
- I clamping of the tools by means of the clamping device
- can also be done at LEUCO upon request
- I delivery without retaining bolts; please choose retaining bolts according to the machine (see page with retaining bolts)

Ø d1	L2	Ød	ØD	L1	a	Х	Weight		Ident-No.
20	52	SK 30	30	127.85	80	10	0.7		180897
25	55	SK 30	35	127.85	80	10	0.7		180898
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]		
Spare parts								Class-No.	Ident-No.
Mounting	Mounting Devices (manual) 985201 180261								

Mounting Devices (manual)		985201	180261
Mounting Devices (automatic)		985201	181159 o
Adjustment Inserts	for Ø d = 20	955530	180264
Adjustment Inserts	for Ø d = 25	955530	180711
Length adjusting device Tribos system	without interface cable	985300	180828 o
Interface Cables for Adjusting Gauges	for RS 232C interface	985300	180829 o



Precision collets - 430E/ER25, 470E/ER32, 472E/ER40



I for use in draw-in collet chuck Type 430E/ER25, 470E/ER32, I clamping tolerance 1 mm 472E/ER40

I slotted from top and bottom

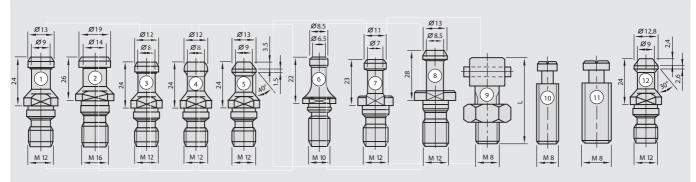
- I Type 430E/ER25 Ø 6 16 mm for special chuck
- | Type 470E/ER32 Ø 3 20
- I Type 472E/ER40 Ø 6 25

Ø D	Ø d1	Ø d1	L1	Туре	Ident-No.
33	3		40	470E/ER32	173647 o
33	4		40	470E/ER32	173648 o
33	5		40	470E/ER32	173649 o
33	6		40	470E/ER32	173650
33	7		40	470E/ER32	173651 o
33	8		40	470E/ER32	173652
33	10		40	470E/ER32	173653
33	12		40	470E/ER32	173654
33	13		40	470E/ER32	173655 o
33	14		40	470E/ER32	173656 o
33	16		40	470E/ER32	173657
33	18		40	470E/ER32	173658 o
33	19		40	470E/ER32	173659 o
33	20		40	470E/ER32	173660
33		1/4	40	470E/ER32	175829
33		1/2	40	470E/ER32	175830
33		5/8	40	470E/ER32	175831 o
33		3/4	40	470E/ER32	175832 o
41	6		46	472E/ER40	180912 o
41	8		46	472E/ER40	180913
41	10		46	472E/ER40	180914 o
41	12		46	472E/ER40	175833
41	16		46	472E/ER40	175834
41	18		46	472E/ER40	175835 o
41	20		46	472E/ER40	175836
41	25		46	472E/ER40	175837
41		1/4	46	472E/ER40	175838 o
41		1/2	46	472E/ER40	175839 o
41		5/8	46	472E/ER40	175840 o
41		3/4	46	472E/ER40	175841 o
41		1	46	472E/ER40	175842 o
26	6		34	430E/ER25	181986 o
26	8		34	430E/ER25	181987
26	10		34	430E/ER25	181988
26	12		34	430E/ER25	181989
26	14		34	430E/ER25	181990 o
26	16		34	430E/ER25	181991
[mm]	[mm]	[inch]	[mm]		





Retaining Bolts



Machine / Application

I for use in Hydro clamping chuck PS 2000-E, adapter and draw-in collet chuck with SK + BT-shank

Design

Advantages

l attachment screw for tools with shank diameter 25 mm

	Norm number	Туре		Ident-No.
for SK 30	DIN 69872 A	1	IMA, Maka, Reichenbacher, Weeke	169293
for SK 40 with ventilation	DIN 69872 A	2	IMA, Reichenbacher, Stegherr	169294
for SK 40	DIN 69872 B	2	IMA, Reichenbacher, Stegherr, Maka	179339
for SK 30		3	Rover old, Biesse up to 08/92	175637
for SK 30		4	Rover new, Biesse (HSD motor) from 09/92, Masterwood (Colombo motor)	173641
for SK 30	ISO 7388-3	5	Alberti	177020
for SK 30 (ISO)	ISO 7388-3	12	CMS, Masterwood	177021
Retaining Bolt Ø 8.5 mm		6	Morbidelli, SCM	173646
for BT 30	P 30T-2	7	Shoda	176200
for BT 35	PT 35T-2	8	Heian	176103
for ps-System 25 mm Ident-No. 167738		9	ps-System	172113
for PS-2000 E Ident-No. 173352		10	PS 2000-E	172921
stop screw		11	draw-in collet chuck	172828



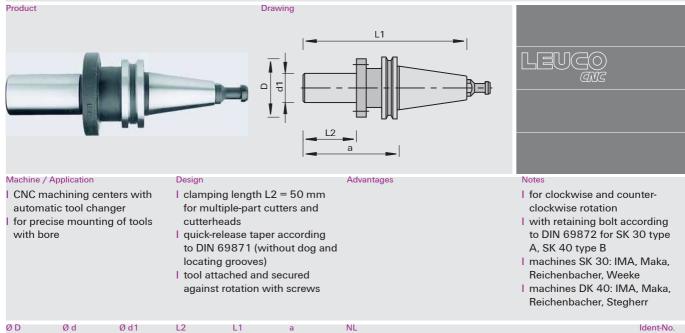
AEROTECH SYSTEM with SK30 (DIN) with hydro expansion clamping

Product Drawing Machine / Application **CNC** machining centers I monolithic tool clamping I stopping of the chip flow I sufficient vacuum perforfor clamping of shank-type I cooling of the tool system mance is necessary tools and simultaneous chip I 9 wing design for the machi-I reduction of the dust quantity I impressurement via hexagoguide when working ning of particle board, MDF, I reduced efforts for cleaning and nal screwdriver (included in for grooving, rabbeting in the OSB, hard wood etc. maintenance delivery) case of pocket milling and I tool mounting by means of I minimization of setup-times I delivery with retaining bolts hydro expansion clamping for Biesse Ident-No. 173641 dividing cuts as well as for the thanks to easy and quick tool optimization of production technology change with hydro expansion I retaining boltt Ident-No. I balance quality G<2,5 169293 for IMA, Maka, processs e.g. with Nesting clamping applications I high cutting quality and long Reichenbacher and Weeke edge lives thanks to high must be ordered separately I please observe the concentricity I optimum torque transfer information in the Operating Instructions Ød1 ØD Ident-No. Ød L1 20 SK30 (DIN) 95 143.2 92.2 9 wings 185153 [mm] [mm] [mm] [mm] [mm] Spare parts Dimension Class-No. Ident-No. 166091 Screwdrivers with sliding handle for hexagon socket SW4x100 985730 [mm]





Adapters with SK shank

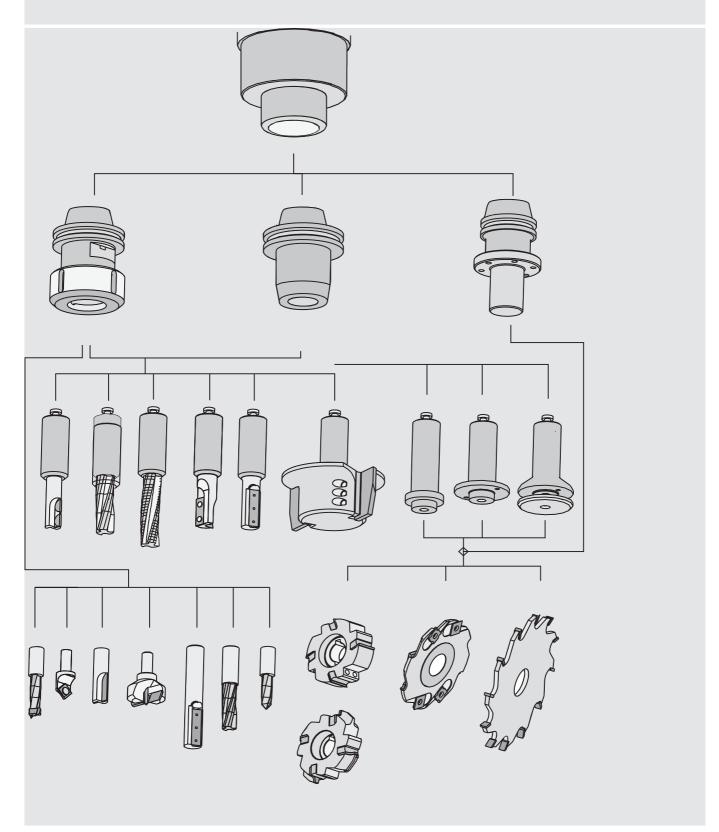


Ø D	Ø d	Ø d 1	L2	L1	а	NL	Ident-No.
60	SK 30	25	55	147.8	100	6/M6/48	168800 #
60	SK 30	30	55	147.8	100	2/M6/48+2/6/48	182167 o
60	SK 40	30	55	168.4	100	2/M6/48+2/6/48	182168 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Spare parts			Class-No. Ident-No.
Retention knobs	DIN 69872 A	for SK 30	997870 169293
Retention knobs	DIN 69872 B	for SK 40	997870 179339



Chart Tool Holders machine interface HSK-Mounting

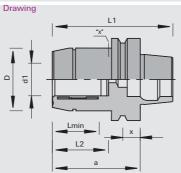






Hydro Clamping Chucks ps-System with HSK 63F shank







Machine / Application

CNC machining centers with automatic tool changer for precise clamping of shanktype tools with cylindrical shank

Design

- I n max = 30,000 min -1
- I interface DIN 69893 HSK 63 F

Advantages

- I minimization of setup-times thanks to easy and quick tool change
- I high cutting quality and long edge lives thanks to high concentricity
- I optimum torque transfer

Notes

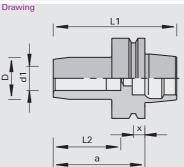
- I for right- and lefthand rotation
- I with bore for installation of micro chips for electronic tool detection
- I x = impressurement by means of screwdriver
- I hexagonal screwdriver is not included in delivery
- I Lmin minimum clamping length = minimum shaft length

Ø d1	Lmin	L2	Ød	Ø D	L1	a	Х	Weight		Ident-No.
10	31	41	HSK 63F	30	105	80	18	1.2		184725
12	36	46	HSK 63F	32	105	80	18	1.16		184306
16	39	49	HSK 63F	38	105	80	18	1.20		184307
20	41	51	HSK 63F	52.5	105	80	18	1.30		184308
25	47	57	HSK 63F	52.5	109	84	18	1.28		184309
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]		
Ø d1	Lmin	L2	Ød	Ø D	L1	a	X	Weight		Ident-No.
3/8	31	41	HSK 63F	30	105	80	18	1.2		184724
1/2	36	47,5	HSK 63F	32	105	80	18	1.2		184726
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts			Dimension			Suitable for			Class-No.	Ident-No.
Screwdriv	ers		SW4x100			184306, 1	184724, 18	4725, 184726	985730	166091
Screwdrivers		SW5x150		184307, 184308, 184309			985730	168703		
			[mm]							



Tribos Pressure Shrinking Chucks

Product Section 1988 Max. 380 bar





Machine / Application

Ød1

L2

Ød

Ø D

- I CNC machining centers with automatic tool changer
- I for precise clamping of shanktype tools with cylindrical shank

Design

I n max = 40,000 min-1

L1

Advantages

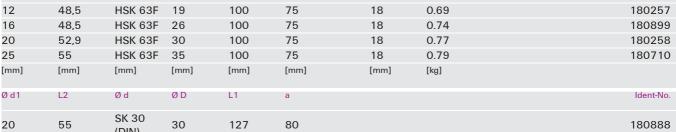
- I low weight is easy on machine bearing
- I suitable for high RPM's
- I optimum chip extraction thanks to slim design
- I increased process safety, long edge lives and high machining quality thanks to very high concentricity and repeating accuracy (< 0.003 mm)

Weight

Notes

- I for right- and lefthand rotation
 I different diameters upon
 request
- I allowed projection: 4 x d1
- I clamping of the tools by means of the clamping device I can also be done at LEUCO
- upon request

 Tribos chuck with reinforced
- design especially for heavy roughing can be delivered upon request
- I delivery without retaining bolts; please choose retaining bolts according to the machine (see page with retaining bolts)



20	55	SK 30 (DIN)	30	127	80	180888
25	55	SK 30 (DIN)	35	127	80	180836
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	

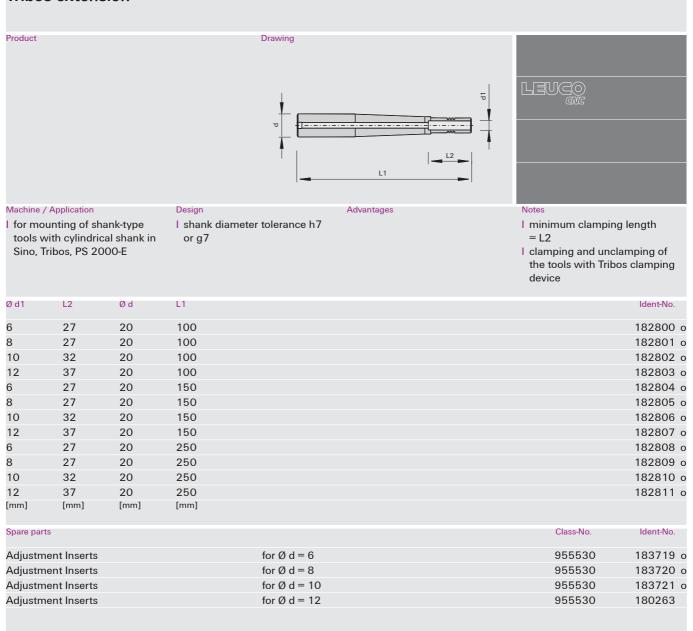
Spare parts		Class-No.	ldent-No.
Mounting Devices (manual)		985201	180261
Mounting Devices (automatic)		985201	181159 o
Adjustment Inserts	for \emptyset d = 6	955530	183719 o
Adjustment Inserts	for Ø d = 8	955530	183720 o
Adjustment Inserts	for Ø d = 10	955530	183721 o
Adjustment Inserts	for Ø d = 12	955530	180263
Adjustment Inserts	for Ø d = 16	955530	180902
Adjustment Inserts	for Ø d = 20	955530	180264
Adjustment Inserts	for Ø d = 25	955530	180711
Length adjusting device Tribos system	without interface cable	985300	180828 o
Interface Cables for Adjusting Gauges	for RS 232C interface	985300	180829 o



Ident-No.

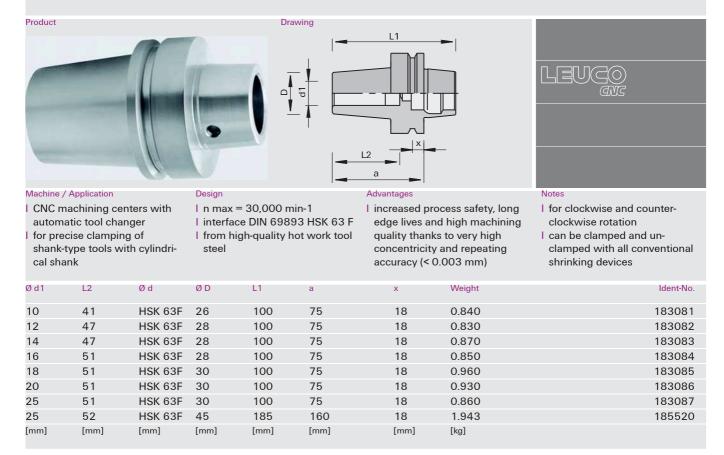


Tribos extension



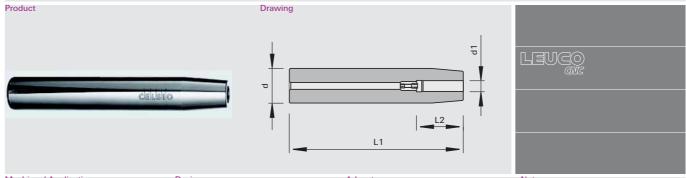


Heat-Shrinking Chucks





heat-shrinking chuck extensions CELSIO



Machine / Application

I CNC machining centers
I for milling applications with
difficult to reach workpiece
areas

Design

- I hot work tool steel with special surface treatment process for particularly long tool life, temperature resistance and form stability
- I run-out accuracy < 0.003 measured in the clamping diameter
- I with adjusting screw for length adjustment

Advantages

- I also shanks with Weldon or Whistle notch can be used I best clamping results are achieved with fully cylindrical shanks with tolerance h6
- I slim construction according to DIN 69882-8
- I shrinking of HW and HS tools with shank tolerance h6

Notes

I clamping elements: we recommend hydro expansion chuck ps-System, Tribos or heat shrink-fit chuck

Ø d1	L2	Ød	L1	Ident-No.
8	34	25	160	185243
10	42	25	160	185244
12	47	25	160	185245
16	50	25	160	185246
[mm]	[mm]	[mm]	[mm]	



[mm]

[mm]

1/2

5/8

3/4

[inch]

[mm]

50.5

50.5

50.5

50.5

50.5

54.5

54.5

54.5

54.5

54.5

54.5

54.5

54.5

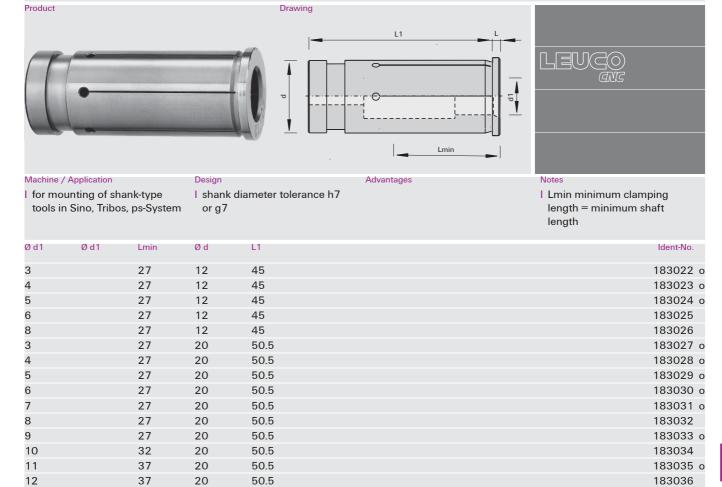
54.5

54.5

54.5

[mm]

Universal Reducing Bushings





183037 o

183038 o 183039 o

182654 o

183041 o



Draw-In Collet Chucks with HSK shank

Product

Drawing L1 a a x



Machine / Application

I CNC machining centers with automatic tool changer I for precise clamping of shanktype tools with cylindrical shank

Design

- I interface according to DIN 69893 HSK 50F, HSK 63F and HSK 63E
- I lock nut with sleeve bearing

Advantages

I flexible utilization by collet chucks

Motos

- I for right- and lefthand rotation
- I Ident-No. 175795 for IMA (up to 12/94) similar to DIN 69893
- | Ø d1 = collet chuck diameter 2 - 25 mm
- I collet chucks according to DIN 6388: 1) type 462E/OZ25/ 2) type 472E/ER40
- I included in delivery: collet chuck, clamping nut without spanner wrench
- I attention: different interfaces in case of CMS machines, according to spindle performance (KW)

Ø d1	Ød	Ø D	L1	a	X	Туре		Ident-No.
2-25	HSK 63F	60	101	76	18	1	Homag, IMA from 01/95, Weeke from 03/98, HOLZ-HER, SCM, CMS (12+15 KW)	173293
2-25	HSK 63E	63	103	78	18	2	CMS (18 KW)	180359 o
2-25	HSK 63F	60	101	76	9	1	IMA up to 12/94	175795
2-25	HSK 63F	60	140	115	18	1	Homag, IMA from 01/95, Weeke from 03/98, HOLZ-HER, CMS (12+15 KW)	179170
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts				Dime	ension		Class-No.	ldent-No.
Lock Nut	with sleeve k	pearing		M48	Bx2R		995290	178764

Spare parts	Dimension	Class-No.	ident-No.
Lock Nut with sleeve bearing	M48x2R	995290	178764
Hook Wrenches	SW58/62 DIN 1810	985720	169299
Single-Head Engineers Wrenches	SW46x10 DIN 894	985720	178760
	[mm]		



Ød1

2

3

4

6

7

8

9,5

10

12

13

14

15

16

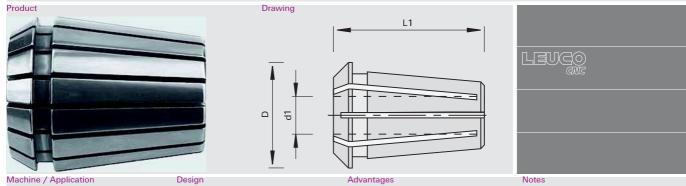
18

20

25

[mm]

Precision collets - 462E/OZ25



I for use in draw-in collet chuck Type 462E/0Z25

Ø D

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

35.05

[mm]

L1

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

52

[mm]

Ød1

1/4

3/8

1/2

5/8

3/4

[inch]

I clamping tolerance 0.5 mm I according to DIN 6388 Type 462E/OZ25

I optimum transmission of clamping force thanks to 12 slots from top and bottom



Ident-No.

183803 o

183804

183805

183806

180213

175815

180216

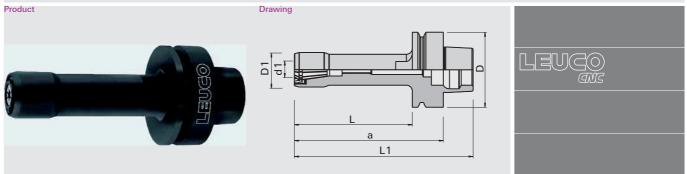
175826

168744

168745



draw-in collet chuck system 426E/ER16 with HSK 63F - clamping zone Ø 1-10 mm



Machine / Application

- CNC machining centers, especially 5-axis
- for precise clamping of shank-type tools with cylindrical shank

Design

- I internal collet nut
- I hardened and ground
- I for double-slotted collets
- I with anticorrosive coating
- I n max = 24,000 min-1

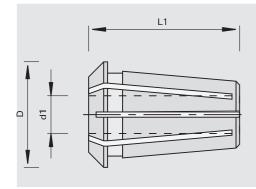
Advantages

- I slim design
- I high stability even with large projection
- I high concentric accuracy
- I high clamping force

Notes

- l also available for left-hand sense of rotation
- I included in delivery: collet chuck with clamping nut, without collet and mounting accessories
- I torques: 426E/ER16: 25 60 Nm (30 - 44 Lbf.ft)

Ø d1	Ø D1	Ød	ØD	L	L1	a	Ident-No.
1-10	29	HSK 63F	63	50	101	76	184847
1-10	29	HSK 63F	63	74	125	100	184848
1-10	29	HSK 63F	63	99	150	125	184849
1-10	29	HSK 63F	63	124	175	150	184850
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	



Collets 426E / ER 16

Ø d1	ØD	L1	Ident-No.
1	17.25	27.5	184865 o
2	17.25	27.5	184866 o
3	17.25	27.5	184867 o
4	17.25	27.5	184868 o
5	17.25	27.5	184869 o
6	17.25	27.5	184870
7	17.25	27.5	184871 o
8	17.25	27.5	184872
9	17.25	27.5	184873 o
10	17.25	27.5	184874
[mm]	[mm]	[mm]	



Accessories	Class-No.	Ident-No.
[a] Lock Nuts	995290	184875
[b] hand spanner	985720	184878
[c] screw-in aid	985720	184881
[d] torque nut	985720	184884
[e] torque adapter	985300	184887
[f] torque wrench 20-200Nm	985300	184890

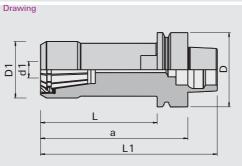






draw-in collet chuck system 470E/ER32 with HSK 63F - clamping zone Ø 2-20 mm







Machine / Application

- CNC machining centers, especially 5-axis
- for precise clamping of shank-type tools with cylindrical shank

Design

- I internal collet nut
- I hardened and ground
- I for double-slotted collets
- I with anticorrosive coating
- I n max = 24,000 min-1

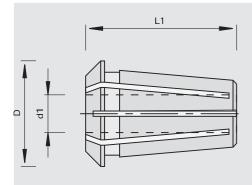
Advantages

- I slim design
- I high stability even with large projection
- I high concentric accuracy
- I high clamping force

Notes

- l also available for left-hand sense of rotation
- I included in delivery: collet chuck with clamping nut, without collet and mounting accessories
- I torques: 470E/ER32: 80 130 Nm (70 96 Lbf.ft)

Ø d1	Ø D1	Ød	ØD	L	L1	a	ldent-No.
2-20	48	HSK 63F	63	34	85	60	184851
2-20	48	HSK 63F	63	44	95	70	184852 o
2-20	48	HSK 63F	63	89	140	115	184853
2-20	48	HSK 63F	63	99	150	125	184854
2-20	48	HSK 63F	63	124	175	150	184855 o
2-20	48	HSK 63F	63	154	205	180	184856
2-20	48	HSK 63F	63	174	225	200	184857
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	



Collets 470E / ER 32

Ø d1	ØD	L1	Ident-No.
3	33	40	173647 o
4	33	40	173648 o
5	33	40	173649 o
6	33	40	173650
7	33	40	173651 o
8	33	40	173652
10	33	40	173653
12	33	40	173654
13	33	40	173655 o
14	33	40	173656 o
16	33	40	173657
18	33	40	173658 o
19	33	40	173659 o
20	33	40	173660
[mm]	[mm]	[mm]	



Accessories	Class-No.	Ident-No.
[a] Lock Nuts	995290	184876
[b] hand spanner	985720	184879
[c] screw-in aid	985720	184882
[d] torque nut	985720	184885
[e] torque adapter	985300	184888
[f] torque wrench 20-200Nm	985300	184890

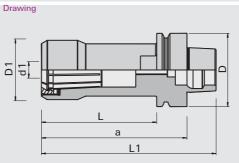






draw-in collet chuck system 462E/OZ25 with HSK 63F - clamping zone Ø 2-25 (1") mm







Machine / Application

- CNC machining centers, especially 5-axis
- for precise clamping of shank-type tools with cylindrical shank

Design

- I internal collet nut
- I hardened and ground
- I for double-slotted collets
- I with anticorrosive coating
- I n max = 24,000 min-1

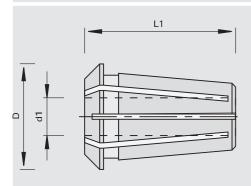
Advantages

- I slim design
- I high stability even with large projection
- I high concentric accuracy
- I high clamping force

Mates

- l also available for left-hand sense of rotation
- I included in delivery: collet chuck with clamping nut, without collet and mounting accessories
- I torques: 462E/OZ25: 100 150 Nm (75 110 Lbf.ft)

Ø d1	Ø D1	Ød	ØD	L	L1	a	ldent-No.
2-25	51	HSK 63F	63	50	101	76	184858
2-25	51	HSK 63F	63	89	140	115	184860
2-25	51	HSK 63F	63	124	175	150	184861 o
2-25	51	HSK 63F	63	149	200	175	184862 o
2-25	51	HSK 63F	63	174	225	200	184863
2-25	51	HSK 63F	63	199	250	225	184864
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	



HSK-F63 Collet chucks 462E / OZ 25 /

Ø d1	Ø d1	Ø D	L1	ldent-No.
2		35.05	52	183803 o
3		35.05	52	183804
4		35.05	52	183805
5		35.05	52	183806
6		35.05	52	180213
	1/4	35.05	52	175815
7		35.05	52	183807 o
8		35.05	52	180358
9,5		35.05	52	175817
10		35.05	52	170782
12		35.05	52	168742
	1/2	35.05	52	175820
13		35.05	52	180215
14		35.05	52	170783
	5/8	35.05	52	175823
[mm]	[inch]	[mm]	[mm]	



HSK-F63 Collet chucks 462E / OZ 25 /

Ø d1	Ø d1	ØD	L1	Ident-No.
15		35.05	52	183808 o
16		35.05	52	168743
18		35.05	52	180216
	3/4	35.05	52	175826
20		35.05	52	168744
25		35.05	52	168745
[mm]	[inch]	[mm]	[mm]	

Accessories	Class-No.	Ident-No.
[a] Lock Nuts	995290	184877
[b] hand spanner	985720	184880
[c] screw-in aid	985720	184883
[d] torque nut	985720	184886
[e] torque adapter	985300	184889
[f] torque wrench 20-200Nm	985300	184890

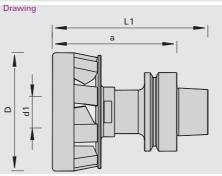






AEROTECH SYSTEM with HSK 63F with collet chuck adapter







Machine / Application

- CNC machining centers for grooving, rabbeting in the case of pocket milling and dividing cuts as well as for the optimization of production processs e.g. with Nesting applications
- for tools with shank diameter up to 16 mm

- I tool adapter with high-precision I stopping of the chip flow collet chucks
- I 9 wing design for the machining of particle board, MDF, OSB, hard wood etc.
- I 7 wing design for low-density materials (e.g. soft wood) as well as gypsum boards etc.
- I tool mounting by means of clamping key or pre-adjusted torque wrench (recommended)

Advantages

- cooling of the tool
- reduction of the dust quantity I reduced efforts for cleaning and maintenance

- I balance quality G=2.5 I n max. = 24,000 min-1
- I sufficient vacuum perfor-
- mance is necessary
- I please observe the information in the Operating Instructions

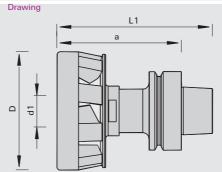
Ø d1	Ød	ØD	L1	а			Ident-No.
6-16	HSK 63F	95	125	100	9 wings		184652
6-16	HSK 63F	95	125	100	7 wings		184665 o
[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts				Dime	nsion	Class-No.	Ident-No.

Spare parts	Dimension	Class-No.	Ident-No.
collet chucks	Ø 6 mm	933280	184653 o
collet chucks	Ø 8 mm	933280	184654 o
collet chucks	Ø 10 mm	933280	184655
collet chucks	Ø 12 mm	933280	184656
collet chucks	Ø 14 mm	933280	184657
collet chucks	Ø 16 mm	933280	184658
collet chucks	Ø 1/4"	933280	184659 o
collet chucks	Ø 3/8"	933280	184660
collet chucks	Ø 1/2"	933280	184661
collet chucks	Ø 5/8"	933280	184662 o
set screw for 184665		995191	185155
set screw for 184652		995191	185154
torque wrench 40 Nm		985730	184667
mounting devices incl. torque wrench 40 Nm		985202	184666
	[mm]		



AEROTECH SYSTEM with HSK 63F with hydro expansion clamping







Machine / Application

- CNC machining centers
- I for clamping of shank-type tools and simultaneous chip guide when working
- I for grooving, rabbeting in the case of pocket milling and dividing cuts as well as for the optimization of production processs e.g. with Nesting applications

Design

- I monolithic tool clamping system
- I 9 wing design for the machining of particle board, MDF, OSB, hard wood etc.
- I tool mounting by means of hydro expansion clamping technology
- I balance quality G<2,5

Advantages

- I stopping of the chip flow
- I cooling of the tool
- I reduction of the dust quantity
- I reduced efforts for cleaning and maintenance
- I minimization of setup-times thanks to easy and quick tool change with hydro expansion clamping
- I high cutting quality and long edge lives thanks to high concentricity
- I optimum torque transfer

Notes

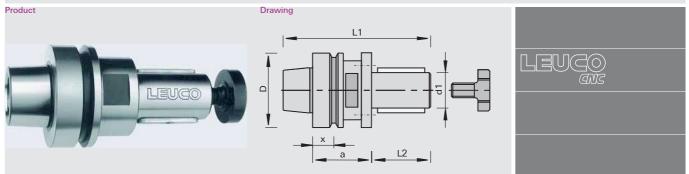
- I sufficient vacuum performance is necessary
- I impressurement via hexagonal screwdriver (included in delivery)
- I Ident-No. 184757: clamping of smaller shank diameters is possible by means of LEUCO universal reducing sleeves
- I please observe the information in the Operating Instructions

Ø d1	Ø d	Ø D	L1	a				Ident-No.
6-25	HSK 63F	105	131	106	9 wings			184757
[mm]	[mm]	[mm]	[mm]	[mm]				
Spare parts				Dime	ension		Class-No.	Ident-No.
Screwdriv	ers with slid	ing handle f	for hexagon	socket SW	4x100		985730	166091
				[mm]			





Mounting Arbors with HSK shank



Machine / Application

- I CNC machining centers with automatic tool changer
- for precise mounting of tools with bore with double keyway

Design

- I with 6 pin holes M6 8 mm deep TK 48 mm
- I interface DIN 69893 HSK 63 F
- I clamping length L2 = 50 mm for multiple-part cutters and cutterheads
- I secured against rotation with double key

Advantages

I high feed rates thanks to optimum torque transfer

Notes

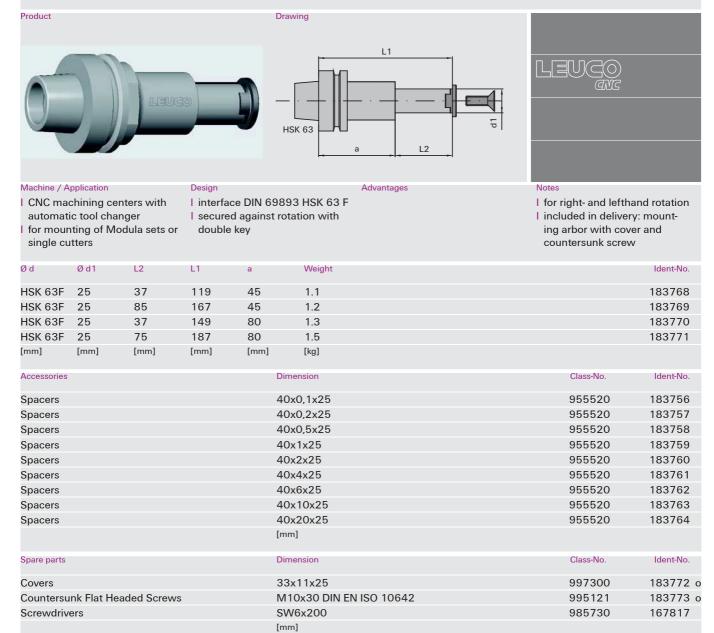
- I for clockwise and counterclockwise rotation
- I spacer ring Ident-No. 181193 consists of: 1 piece 20 mm thick, 1 piece 10 mm thick, 3 piece 5 mm thick, 2 piece 2 mm thick, 1 piece 1 mm thick
- I spacer ring set Ident-No. 181194 additionally 1 piece 20 mm thick, 1 piece 10 mm thick
- I tool attached with retaining
- I included in delivery: clamping arbor with retaining bolt

									arbor with retainin	g boit
Ø D	Ød	Ød1	L2	L1	a	Х	DKN	Weight		Ident-No.
63	HSK 63F	30	50	120	45	18	8 x 3	1.4	Homag, IMA from 01/95	183748
63	HSK 63F	30	80	150	45	18	8 x 3	1.5	Homag, IMA from 01/95, HOLZ- HER	183749
63	HSK 63F	30	110	180	45	18	8 x 3	1.4	Homag, IMA from 01/95, HOLZ- HER	183747
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]		
Spare pa	irts					Dimension			Class-No.	ldent-No.
Single-	Head Eng	gineers V	Vrenches			SW46x10 DIN	N 894		985720	178760

Single-Head Engineers Wrenches	SW46x10 DIN 894	985720	178760
Cutter Retaining Bolts	M16x26xØ42	995190	173592
Spacer Sets	60x50x30	955521	181193
Spacer Sets	60x80x30	955521	181194
	[mm]		



Mounting Arbors HSK 63F

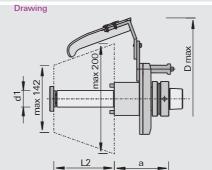






Milling Assemblies with chip directing steel sheet







Machine / Application

- I CNC-machining centers with C-axis Homag
- for precise mounting of tools with bore

Design

- I milling aggregate with integrated chip directing steel sheet
- I Ident-No. 182049 and 182050 with double keyway
- I Ident-No. 182075 and 182076 with lid and retaining bolt; 2 carrier pins Ø6 TK 48
- I n max = 11,000 min-1 (stock design)
- I shank 30 mm, shank length 105 mm

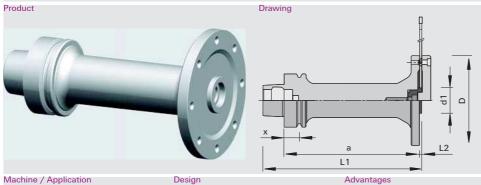
Advantages

- I optimized chip removal
- I weight of the component approx. 2 kg (depending on
- I max. weight of the clamped tool 3,8 kg

Ø Dmax	Ød	Ø d1	L2	а	DKN		Ident-No. [L]	Ident-No. [R]
300	HSK 63F	30	105	80	8 x 4	Homag	182049 o	182050 o
300	HSK 63F	30	105	80		Homag	182075 o	182076 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			



CNC Combi Saw Blade Adapters HSK 63F





Machine / Application

saw blades

CNC machining centers with automatic tool changer for precise mounting of circular

I interface DIN 69893 HSK 63 F for high-precision adapter to the machine spindle

Advantages

- I exchangeable centering adapter can be obtained separately; thus saw blades with different bore diameters can be used on the same mounting device
- I the mounting of the saw blade can be made with or without lid I adapter available with different a measures

- I for right- and lefthand rotation I mounting of the saw directly by means of countersunk screws or lid by means of cylinder head screw I included in delivery: lid,
- countersunk screws, cylinder head screws and centering adapter for saw blade bore Ø 30 mm with retaining ring

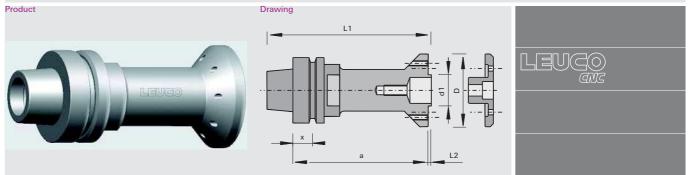
ØD	Ød	Ø d1	L2	L1	a	X	NL	ldent-No.
106	HSK 63F	30	2,5	65	40	18	8/M5/90	184835
106	HSK 63F	30	2,5	75	50	18	8/M5/90	184836
106	HSK 63F	30	2,5	125	100	18	8/M5/90	184837
106	HSK 63F	30	2,5	155	130	18	8/M5/90	184838
106	HSK 63F	30	2,5	185	160	18	8/M5/90	184839
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		

Options	Dimension	Class-No.	ldent-No.
Covers	106x15x20	997300	184845
Adapter	Ø 30 mm	997300	184840
Adapter	Ø 31,75 mm	997300	184841
Adapter	Ø 32 mm	997300	184842
Adapter	Ø 35 mm	997300	184843
Adapter	Ø 40 mm	997300	184844
	[mm]		
Spare parts	Dimension	Class-No.	Ident-No.
Countersunk Flat Headed Screws	M5x8 T20	995125	164005
Head Cap Screws	M5x16 DIN EN ISO 4762	995111	001870
Cylinder head screws for adapters	M8x12 DIN 7984	995111	184846
Locking Rings	8/13x8,4x0,7	995460	185497
	[mm]		





Saw Blade Adapters HSK 63F



Machine / Application

- I CNC machining centers with automatic tool changer for precise mounting of circular saw blades and grooving cutters
- Design
- I interface DIN 69893 HSK 63 F for high-precision adapter to the machine spindle

Advantages

- I for clockwise and counterclockwise rotation I mounting of the saw directly
- by means of countersunk screw or lid 183310 by means of cylinder head screw
- I included in delivery:
- I adapter with countersunk screws
- I lid with cylinder head screws to be ordered separately

~ 5	~ .	~						
Ø D	Ød	Ø d1	L2	L1	a	NL		Ident-No.
70	HSK 63F	30	2,5	157.5	130	8/M5/52		183309
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
Spare parts				Dime	ension		Class-No.	ldent-No.
Countersu	nk Flat Head	ded Screws		M5:	k8 T20		995125	164005
				[mm]			
Accessories				Dime	ension		Class-No.	ldent-No.
Lid with cy	linder head	screws		70x	24x8		997300	183310
				[mm]			



Mounting Arbors HSK 63F modified - without gripper groove

Product

Drawing

Machine / Application

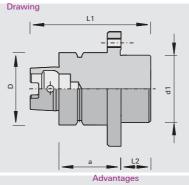
- through-feed machines with tool changer Homag
- d1=30 mm especially for Homag and IMA jointing aggregates
- d1=60 mm especially for flooring manufacturing
- for precise clamping of tools with bore

- I interface DIN 69893 HSK 63 F modified for highly precise mounting on the machine spindle
- Advantages
- I quick tool change I maintenance-free
- I for clockwise and counterclockwise rotation

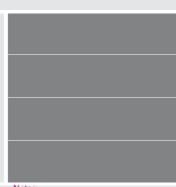
Ø D	Ød	Ø d1	L2	L1	a	NL		Ident-No.
94	HSK 63F	30	25	66	16	4/M8/80	furniture	184787
120	HSK 63F	60	68	113	20	4/M8/100 + 4/9/100	Flooring	183616 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			

Mounting Arbors HSK 63F modified - with gripper groove





I quick tool change



Machine / Application

- through-feed machines with tool changer Homag
- for precise clamping of tools with bore

Design

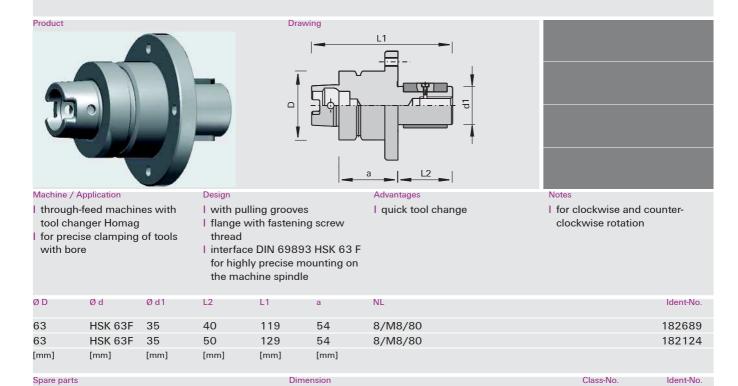
- I with pulling grooves
- I flange with fastening screw thread
- I interface DIN 69893 HSK 63 F for highly precise mounting on the machine spindle

I for clockwise and counterclockwise rotation

ØD	Ød	Ø d1	L2	L1	a	NL	Ident-No.
63	HSK 63F	60	23,5	102.5	54	4/M8/80	183615 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		



Mounting Arbors HSK 63F modified - 35 DKN, with lid and screws



995111

997370

182126 o

182127 o

933069

Covers

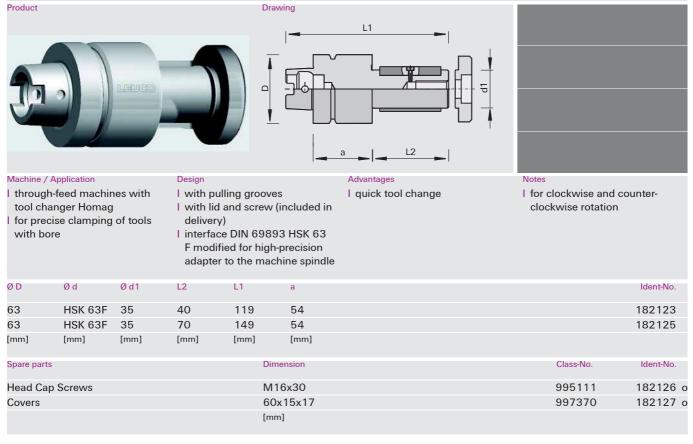
Head Cap Screws

Mounting Arbors HSK 63F modified - 35 DKN, tool directly attached by screws

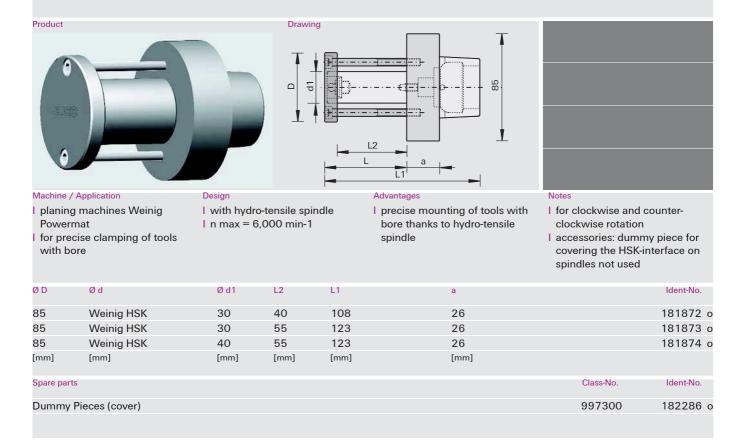
M16x30

[mm]

60x15x17

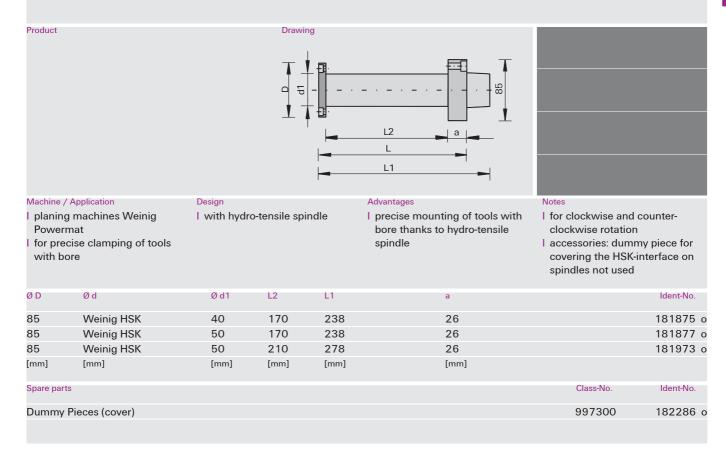


Hydro Tensile Spindles Weinig HSK - clamping length 40-55 mm



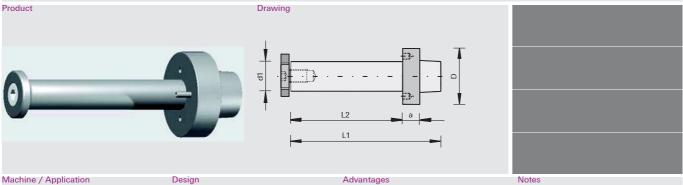
997300

Hydro Tensile Spindles Weinig HSK - clamping length 170-210 mm





Mounting Arbors Weinig HSK



Advantages

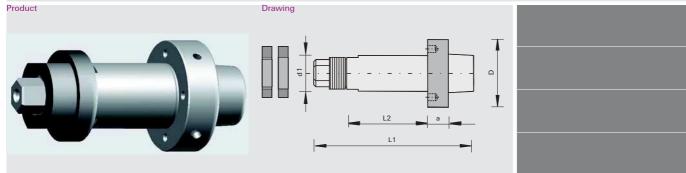
- I profile machines Weinig Powermat
- I for mounting of tools with bore

- I for right- and lefthand rotation
- l other dimensions on request
- I for permissible RPM please refer to diagram
- I attention: please observe the recommended tightening torque 80 Nm!

Ø D	Ød	Ø d1	L2	L1	a	NL	Weight	Ident-No.
85	Weinig HSK	30	40	98	26	2/6/48+2/M6/48	1.7	182056 o
85	Weinig HSK	30	60	118	26	2/6/48+2/M6/48	1.8	182057 o
85	Weinig HSK	30	80	138	26	2/6/48+2/M6/48	1.9	182058 o
85	Weinig HSK	30	130	188	26	2/6/48+2/M6/48	2.2	182059 o
85	Weinig HSK	30	170	228	26	2/6/48+2/M6/48	2.4	182060 o
85	Weinig HSK	30	240	298	26	2/6/48+2/M6/48	2.8	182061 o
85	Weinig HSK	40	40	98	26	2/6/54+2/M6/54	1.9	182062 o
85	Weinig HSK	40	60	118	26	2/6/54+2/M6/54	2.1	182063 o
85	Weinig HSK	40	80	138	26	2/6/54+2/M6/54	2.3	182064 o
85	Weinig HSK	40	130	188	26	2/6/54+2/M6/54	2.8	182065 o
85	Weinig HSK	40	170	228	26	2/6/54+2/M6/54	3.2	182066 o
85	Weinig HSK	40	240	298	26	2/6/54+2/M6/54	3.9	182067 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg]	



Mounting Arbors Weinig HSK - with spindle nut



Machine / Application

Design

Advantages

Notes

- profile machines Weinig
- Powermat for mounting of tools with bore

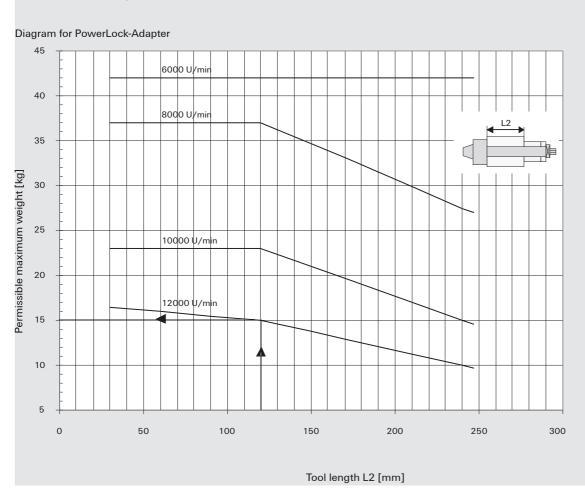
- I for right- and lefthand rotation
- other dimensions on request
- I for permissible RPM please refer to diagram
- I attention: please observe the recommended tightening torque 80 Nm!
- I included in delivery: mounting arbor incl. ring and spindle nut

Ø D	Ø d	Ø d1	L2	L1	a	NL	Weight		Ident-No.
85	Weinig HSK	40	40	143	26	2/6/54+2/M6/54	1.9		183281 s
85	Weinig HSK	40	60	163	26	2/6/54+2/M6/54	2.1		183282 s
85	Weinig HSK	40	80	183	26	2/6/54+2/M6/54	2.3		183283 s
85	Weinig HSK	40	100	203	26	2/6/54+2/M6/54	2.5		183284 s
85	Weinig HSK	40	130	233	26	2/6/54+2/M6/54	2.8		183285 s
85	Weinig HSK	40	150	253	26	2/6/54+2/M6/54	2.95		183286 s
85	Weinig HSK	40	170	273	26	2/6/54+2/M6/54	3.2		183287 s
85	Weinig HSK	40	180	283	26	2/6/54+2/M6/54	3.3		183288 s
85	Weinig HSK	40	210	313	26	2/6/54+2/M6/54	3.6		183289 s
85	Weinig HSK	40	230	333	26	2/6/54+2/M6/54	3.8		183290 s
85	Weinig HSK	40	240	343	26	2/6/54+2/M6/54	3.9		183291 s
85	Weinig HSK	40	270	373	26	2/6/54+2/M6/54	4.2		183292 s
85	Weinig HSK	40	310	413	26	2/6/54+2/M6/54	4.6		183293 s
85	Weinig HSK	50	40	143	26	2/6/74+2/M6/64	2.1		183294 s
85	Weinig HSK	50	60	163	26	2/6/74+2/M6/64	2.4		183295 s
85	Weinig HSK	50	80	183	26	2/6/74+2/M6/64	2.7		183296 s
85	Weinig HSK	50	100	203	26	2/6/74+2/M6/64	3.0		183297 s
85	Weinig HSK	50	130	233	26	2/6/74+2/M6/64	3.5		183298 s
85	Weinig HSK	50	150	253	26	2/6/74+2/M6/64	3.75		183299 s
85	Weinig HSK	50	170	273	26	2/6/74+2/M6/64	4.1		183300 s
85	Weinig HSK	50	180	283	26	2/6/74+2/M6/64	4.3		183301 s
85	Weinig HSK	50	210	313	26	2/6/74+2/M6/64	4.7		183302 s
85	Weinig HSK	50	230	333	26	2/6/74+2/M6/64	5.0		183303 s
85	Weinig HSK	50	240	343	26	2/6/74+2/M6/64	5.13		183304 s
85	Weinig HSK	50	270	373	26	2/6/74+2/M6/64	5.6		183305 s
85	Weinig HSK	50	310	413	26	2/6/74+2/M6/64	6.3		183306 s
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg]		
Spare parts				Dimens	sion			Class-No.	Ident-No.
Set Screws			M6x1	6 SW3	995161	001617			
rings			60x15x35					183308 o	
spindle nuts				M33x	1,5			995210	183307 o
				[mm]					





Adapter Weinig HSK



997300 Saw Blade Adapters Weinig HSK Product Drawing 105 Machine / Application Design Advantages Weinig Powermat I for clockwise and counterfor mounting of thin-kerf saw clockwise rotation I different diameters upon blades request Ø D Ød1 Ident-No. Weinig 3/8/74 182974 o 105 60 68 148 26 HSK [mm] [mm] [mm] [mm] [mm] [mm] Class-No. Ident-No. Spare parts Dimension Lock Nuts 105x15xM58x1,5 995290 182993 o [mm]



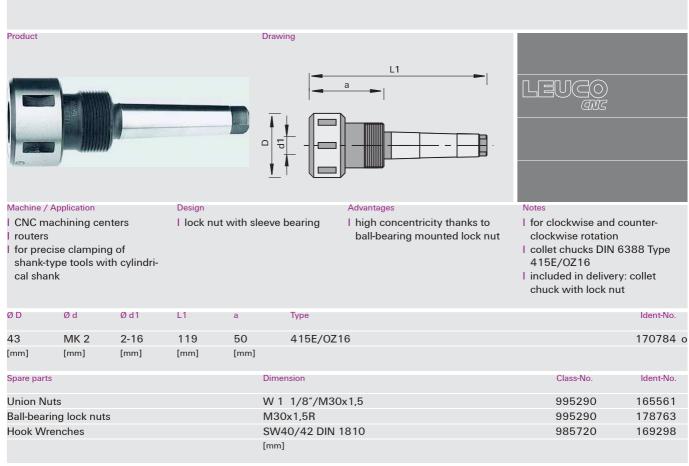
Balluff Chip for mounting in HSK 63F tool adapters

Product	Drawing						
		н О					
Machine / Application I CNC machining centers with tool recognition system based on Balluff Chip I for machines Biesse, Reichenbacher, Homag	511 Byte	ip BIS C-122-04/L, ting in HSK 63F tool	Advantages	Notes I without reading / writing I reading / writing possible after clearance	I without reading / writing I reading / writing possible		
	Ø D	Н		ldent-	No.		
Balluff Chip with adapter	11,6 [mm]	6 [mm]		1825	58 o		
Spare parts		Dimension		Class-No. Ident-	No.		
Adapter for Balluff Chip		Ø 11,6x6		956500 1825	60 o		
Balluff Chip		Ø 10x4,5 [mm]		994711 1825	59 o		



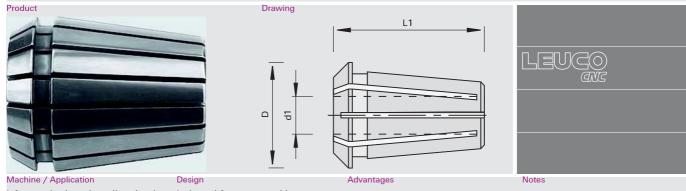


Draw-In Collet Chucks with MK shank





Precision collets - 415E/OZ16

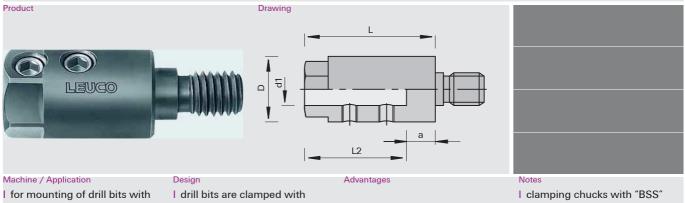


- I for use in draw-in collet chuck Type 415E/OZ16
- I slotted from top and bottom I clamping tolerance 0.5 mm
- according to DIN 6388 Type 415E/OZ16

Ø D	Ø d1	L1	Ident-No.
25.5	2,5	40	820753 o
25.5	3	40	820754 o
25.5	4	40	820494 o
25.5	4,5	40	830236 o
25.5	5	40	820495 o
25.5	6	40	170779 o
25.5	6,35	40	821421 o
25.5	7	40	829692 o
25.5	8	40	170780
25.5	9	40	825190 o
25.5	9,5	40	168739 o
25.5	10	40	170781
25.5	12	40	168740
25.5	12,7	40	830156 o
25.5	13	40	821221 o
25.5	16	40	168741
[mm]	[mm]	[mm]	



Clamping Chuck Combi Systems



- cylindrical shank and clamping surface
- setscrews

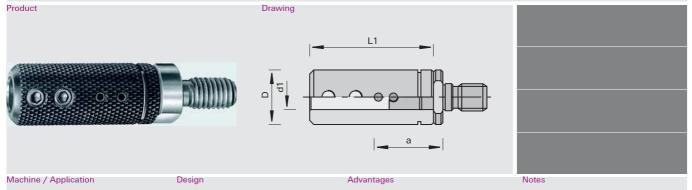
- mark are compatible with quick-changing system for drill bits
- I for threaded shank design and appropriate machines see

							Technical Informa	tion
Ø D	Ø d1	L2	L	а	Туре		Ident-No. [L]	Ident-No. [R]
15	8	20	22	2	D		161282 o	161281 o
15	8	20	24.5	4.5	А		010683 о	010677 o
15	8	20	24.5	4.5	В		161285 o	161284 o
15	8	20	24.5	4.5	С		058412 o	058411 o
15	8	20	37	17	С		059300	059299
19	10	20	24.5	4.5	А		003575	003574
19	10	20	24.5	4.5	В		008003	008002
19	10	20	24.5	4.5	С		058414	058413
19	10	20	25	5	D		003571	003570
19	10	20	25	5		cyl. shank Ø 10x30	183055 о	183055 o
19	10	20	47	27	G		161287	161286
19	10	20	29.3	9.3	F		003573	003572
19	10	20	28.5	8.5	E		161987 o	161283 o
19	10	20	37	17	С		161681	161680
19	10	20	47	27	D	BSS	170372 s	170371 s
[mm]	[mm]	[mm]	[mm]	[mm]				
Spare par	ts		Dimension	1		For Ø D	Class-No.	Ident-No.
Set Scre	ews		M6x4 D	IN EN ISO	4029	15	995161	167068
Set Scre	ews		M6x5 D	IN EN ISO	4029	19	995161	165049
Set Scre	ews		M5x4 D	IN EN ISO	4029	15	995161	001608
			[mm]			[mm]		

Spare parts	Dimension	For Ø D	Class-No.	Ident-No.
Set Screws	M6x4 DIN EN ISO 4029	15	995161	167068
Set Screws	M6x5 DIN EN ISO 4029	19	995161	165049
Set Screws	M5x4 DIN EN ISO 4029	15	995161	001608
	[mm]	[mm]		



Klack Quick-Changing Chucks with hole pitch 19 mm



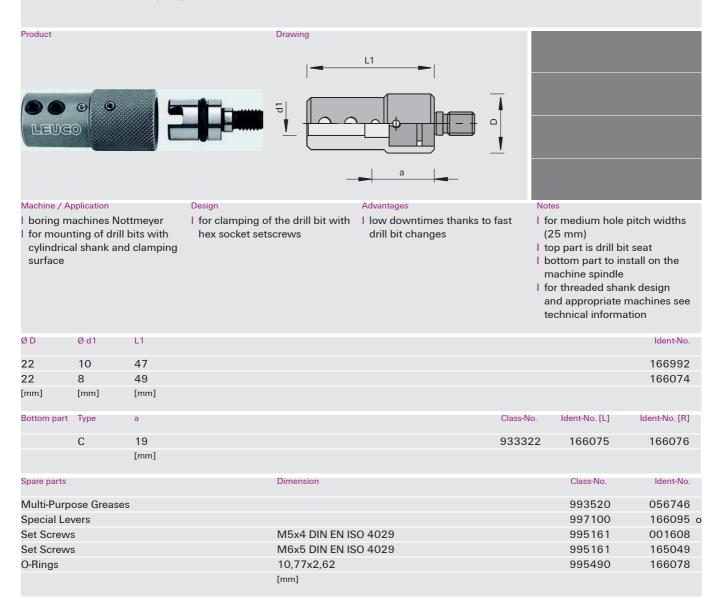
- I boring machines
- for mounting of drill bits with cylindrical shank and clamping surface
- I for clamping of the drill bit with I low downtimes thanks to fast hex socket setscrews
 - drill bit changes
- I for small hole pitch widths (19 mm)
- I top part is drill bit seat
- I bottom part to install on the machine spindle
- I for threaded shank design and appropriate machines see technical information

Ø D	Ø d1	L1					ldent-No.
15	8	35					162014
[mm]	[mm]	[mm]					
Bottom part	Туре	a			Class-No.	Ident-No. [L]	Ident-No. [R]
	Α	19			933322	162015	162016
	С	19			933322	162017	162018
		[mm]					
Spare parts				Dimension		Class-No.	Ident-No.
Springs				0,8 DIN 17223		995790	162948
Set Screws	5			M5x4 DIN EN ISO 4029		995161	001608
Cranked Wrench Keys		SW2,5 DIN ISO 2936		985730	009671		
				[mm]			



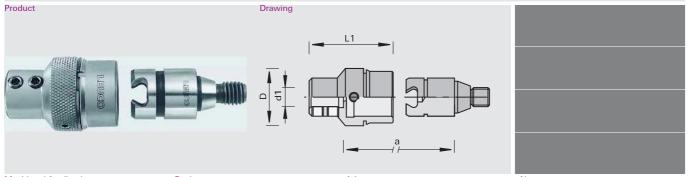


Klack Quick-Changing Chucks with hole pitch 25 mm





Klack Quick-Changing Chucks with hole pitch 32 mm



Machine / Application

Ø D

30

- I boring machines
- I for mounting of drill bits with cylindrical shank and clamping surface

10

L1

44

Design

I for mounting of drill bits with cylindrical shank and clamping surface

Advantages

I low downtimes thanks to fast drill bit changes

Notes

- I for larger hole pitch widths (32 mm)
- I top part is drill bit seat
- I bottom part to install on the machine spindle
- I for threaded shank design and appropriate machines see technical information

003567

[mm]	[mm]	[mm]				
Bottom part	Туре	а		Class-No.	Ident-No. [L]	Ident-No. [R]
	D	26.5		933322	003561	003560
	Α	19		933322	003565	003564
		[mm]				
Spare parts			Dimension		Class-No.	ldent-No.
Multi-Purp	ose Grease	s			993520	056746
Special Le	vers				997100	164309
Reducing I	Bushings				955530	057513
Set Screws	3		M6x5 DIN EN ISO 4029		995161	165049
Set Screws	3		M5x8 DIN EN ISO 4028		995161	180015
Screws			M8x24L		995191	180013
Screws			M8x24R		995191	180012
			[mm]			





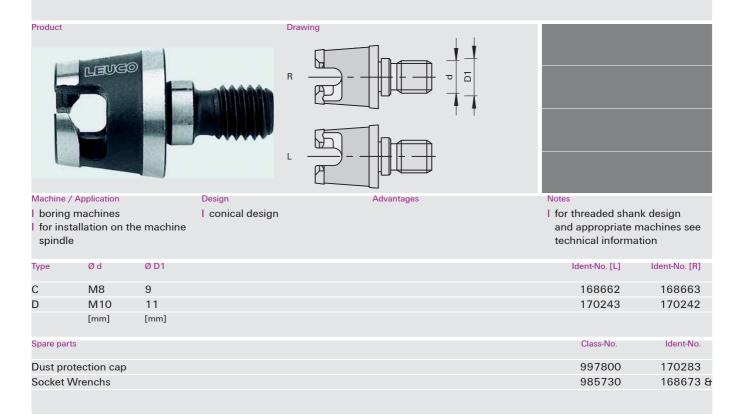
Drill Bit Quick-Changing Systems - top part



locating bore	Ø10			168669
locating bore	Ø8			168668
	[mm]			
Spare parts		Dimension	Class-No.	ldent-No.
collet chuck		Ø3	933380	168666 o
collet chucks		Ø2,5	933380	168665 o
Engineers Wrenches		9x11 DIN 3118	985720	168672 o
Engineers Wrenches		11x13 DIN 3118	985720	168670 o
Engineers Wrenches		14x17 DIN 3118	985720	168671
		[mm]		
Spare parts		Dimension	Class-No.	ldent-No.
Set Screws		M6x5 DIN EN ISO 4029	995161	165049
Set Screws		M5x4 DIN EN ISO 4029	995161	001608
		[mm]		

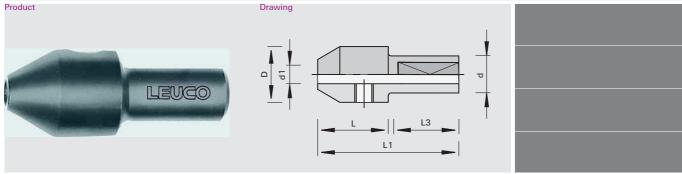


Drill Bit Quick-Changing Systems - bottom part



933389

Adapters



Machine / Application

I for mounting of twist drills in combi chuck and Klack chuck Design

I shank with clamping surface I thread M5, without screw

Advantages

Notes

I adjusting and attachment screw Ident-No. 181520 M5x11,5 for Weeke quick clamping chuck must be ordered separately

Ø d1	L	Ød	L3	Ø D	L1	ldent-No.
2	19	10	21	15	41	183275
2,5	19	10	21	15	41	183276
3	19	10	21	15	41	183277
3,5	19	10	21	15	41	183278
4	19	10	21	15	41	183279
5	19	10	21	15	41	183280
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	



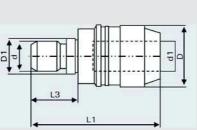


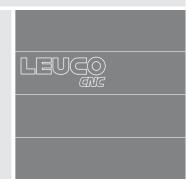
Spare parts	Dimension	Class-No.	ldent-No.
Set Screws	M6x6 DIN EN ISO 4029	995161	180003
Cranked Wrench Keys	SW3 DIN ISO 2936	985730	009672
	[mm]		

Drill Bit Quick-Changing Systems



Design





Machine / Application

- l boring machines
- CNC machining centers
- I for mounting of drill bits with cylindrical shank and clamping surface

Advantages

- I low downtimes thanks to fast drill bit changes
- I no special adjusting screw necessary
- I for all common drill bits with shank Ø 10 mm and boring Ø < 20 mm

Notes

I for threaded shank design and appropriate machines see Technical Information

Ø D	Ø D1	Ød	Ø d1	L1	L3	Туре	Ident-No. [L]	Ident-No. [R]
20	9	M8	10	42	15	С	182396 o	182395 o
20		M8	10	42	15	Α	182398 o	182397 o
20		10	10	45	18		182400 o	182399 o
20	11	M10	10	42	15	D	182402 o	182401 o
20		M10	10	42	15	В	182404 o	182403 o
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			

Spare parts	Class-No.	Ident-No.
Wrench d10 with clamping surface	985730	182405 o



Universal Drill Chucks

Product

Drawing



Ød1



Machine / Application

ØD

- CNC machining centers with automatic tool changer
- for clamping of drill bits with cylindrical shank

Ød

Cranked Wrench Keys

L1

- I continuously adjustable clamping area between 1-13
- I n max = 20,000 min-1
- I hardened clamping jaws

Advantages

- I fine balance is easy on spindle and spindle bearing
- I high clamping accuracy over total lifetime of drill chuck thanks to hardened clamping
- I high holding moment
- I no chips and dirt in the clamping zone thanks to special clamping jaws

I for clockwise and counterclockwise rotation

985730

I included in delivery: clamping key, retaining bolts

Ident-No.

180383 o

50	SK 30 (DIN)	1-13	90		Weeke, Maka, Reichenbacher		180375 o
50	SK 30	1-13	90		Biesse from 9/92, Masterwood (HSD mo	tors)	180376 o
50	SK 30	1-13	90		Alberti, Masterwood (Colombo motors)		180377 o
50	SK 30	1-13	90		Morbidelli, SCM (with ring gear)		180378 o
50	SK 40 (DIN)	1-13	90		Maka, Reichenbacher Stegherr		180379 o
57	SK 40 (DIN)	3-16	90		Maka, Reichenbacher Stegherr		180380 o
50	HSK 63F	1-13	112		Homag, EIMA, Weeke, IMA from 9/94		180381
57	HSK 63F	3-16	112		Homag, EIMA, Weeke, IMA from 9/94		180382
[mm]	[mm]	[mm]	[mm]				
Spare parts				Dimension		Class-No.	Ident-No.

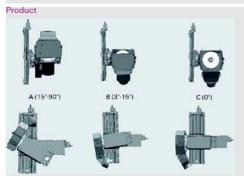
SW6x100

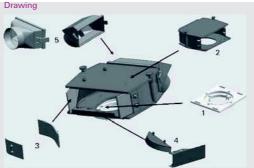
[mm]





LEUCO Dust Hoods







Machine / Application

- I double end tenoners
 I especially for flooring manufacturing
- Design
- I LEUCO dust hood system
- Advantages
- I optimum chip caption
- I wear parts individually replaceable
- I flow-optimizing design

complete dust hood - consisting of one part of each of the following 5 groups

Flange	Ø D	В	Mot	or output		Class-No.	Ident-No.
flange Ø180x13	180	13	Per	ske up to	11 KW	975117	540301 o
flange Ø180x13	180	13	Per	ske from '	11 KW	975117	540430 o
	[mm]	[mm]					
2 - Basic hood		Tool Ø D	Tilting area	Basi	c hood form	Class-No.	Ident-No.
basic hood 15° - 90° cpl. tool-	Ø 250 mm	250	15 - 90	А		975217	540295 o
basic hood 3° - 15° cpl. tool-ø	250 mm	250	3 - 15	В		975117	540317 o
basic hood 0° cpl. tool-Ø 250	mm	250	0	С		975117	540389 o
		[mm]	[°]				
3 - Side profile (wear plate and adjus	sting plate)	Thicknes	s of wear plate			Class-No.	ldent-No.
side profile standard cpl.		8				975417	540302 o
side profile 0° right cpl.		8				975417	540358 o
side profile 0° left cpl.		8				975417	540386 o
		[mm]					
4 - Chip flow set	Height of (C plate	Heiç	ght of chip fl	ow plate	Class-No.	ldent-No.
chip flow set 12/82 cpl.	12		82			975217	540227 o
chip flow set 22/72 cpl.	22		72			975217	540228 o
chip flow set 32/62 cpl.	32		62			975217	540229 o
chip flow set 42/52 cpl.	42		52			975217	540230 o
chip flow set 52/42 cpl.	52		42			975217	540231 o
chip flow set 62/32 cpl.	62		32			975217	540232 o
chip flow set 67/27 cpl.	67		27			975217	540233 o
	[mm]		[mn	n]			
5 - Extraction connection		Tool Ø D	Ø Connection	Angle	Basic hood form	Class-No.	Ident-No.
connection 0° - Ø 120 mm		250	120	0	A, B	975217	540298 o
connection 0° - Ø 140 mm		250	140	0	A, B	975217	540304 o
connection 30° - Ø 120 mm		250	120	30	A, B	975217	540308 o
connection 30° - Ø 140 mm		250	140	30	A, B	975217	540310 o
connection 0° - Ø 120 mm		250	120	0	С	975217	540362 o
connection 0° - Ø 140 mm		250	140	0	С	975217	540392 o
		[mm]	[mm]	[°]			



Spare parts	Dimension	Basic hood form	Class-No.	Ident-No.
basic plate	D = 250 mm	A, B, C	975217	540291 o
basic hood 15° - 90° cpl. tool-Ø 250 mm		A	975217	540292 o
thread bolt		A, B, C	975217	540201 o
wear plate 0° standard cpl.	S = 8 mm	A, B	975517	540210 o
wear plate 0° right cpl.	S = 8 mm	С	975517	540356 o
wear plate 0° left cpl.	S = 8 mm	С	975517	540364 o
C plate 12	H = 12 mm	A, B, C	975217	540213 o
C plate 22	H = 22 mm	A, B, C	975217	540214 o
C plate 32	H = 32 mm	A, B, C	975217	540215 o
C plate 42	H = 42 mm	A, B, C	975217	540216 o
C plate 52	H = 52 mm	A, B, C	975217	540217 o
C plate 62	H = 62 mm	A, B, C	975217	540218 o
C plate 67	H = 67 mm	A, B, C	975217	540219 o
connection 0° - Ø 120 mm		A, B	975217	540298 o
connection 0° - Ø 140 mm		A, B	975217	540304 o
connection 30° - Ø 120 mm		A, B	975217	540308 o
connection 30° - Ø 140 mm		A, B	975217	540310 o
connection 0° - Ø 120 mm		С	975217	540362 o
connection 0° - Ø 140 mm		С	975217	540392 o
	[mm]			





Cone wiper

Product

Drawing

Machine / Application

Design

Advantages

Notes

I for cleaning of the inner cones

I the higly precise machine

I for cleaning of the inner cones of the cone tool adaptors

I the higly precise machine spindle and clamping chuck needs dust and chip-free fit

Ø d	Ident-No.
SK 30	180907 o
SK 40	180908 o
HSK 25	180909 o
HSK 32	180910 o
HSK 63	180911 o
[mm]	

985202

Mounting device with clamping lever

Product

Drawing



Machine / Application

I for quick and simple mounting and adjusting of cutting tools in draw-in collet chucks or on arbors and tool holders

Design

- I with two-part clamping jaws made from high-quality light
- I mounted on stable pedestal which can be fixed onto workbench
- I quick-grip lever for clamping of clamping chucks or holding arbors

Advantages

I variably applicable for all interfaces by simple exchanging of the clamping jaw

	Ø d	Ident-No.
SK 30 (DIN) / HSK 50F	50	180362 o
SK 40 (DIN)	63,5	180363 o
SK 30 with ring gear (Morbidelli, SCM)	49	180364 o
SK 30 (ISO) CMS / BT 30	46	180365 o
HSK 63F / 63E	63	180366 o
BT 35	53	180367 o
HSK 85 (Weinig)	85	182284 o
	[mm]	

Spare parts	For Ident-No.	Class-No.	Ident-No.
Clamping Jaws (2-parts)	180362	997300	180368 o
Clamping Jaws (2-parts)	180363	997300	180369 о
Clamping Jaws (2-parts)	180364	997300	180370 o
Clamping Jaws (2-parts)	180365	997300	180371 o
Clamping Jaws (2-parts)	180366	997300	180372 o
Clamping Jaws (2-parts)	180367	997300	180373 o
Clamping Jaws (2-parts)	182284	997300	182285 o
Pedestal (without clamping jaw)		997300	180374 o

Mounting device without clamping lever

Product	Drawing		
Machine / Application	Design	Advantages	Notes

I for quick and simple mounting and adjusting of cutting tools in draw-in collet chucks or on arbors and tool holders

I mounted on stable pedestal which can be fixed onto workbench I simplest handling offering highest comfort thanks to roll clamping system, no clamping or jamming necessary I for all adapters HSK 63 F

 Ø d1
 Ident-No.

 HSK 63F
 182467

 [mm]
 182467



inductive shrinking device ISG2202

Product

Drawing

Machine / Application
I for shrinking of HW shanks Ø
3 - 20 mm and HS shanks Ø

6 - 20 mm

Design

I device with inductor, centering discs for tool adapters and 3 replacement discs I color: grey-white RAL 9002

I performance: 8 kW

I version without ventilator

Advantages

I inductor can be lowered to the heating position by simple manual operation and can be locked by pushing a button I choose the shrinking diameter

on the control panel and press the start button

I the stored time elapses, at the end the inductor moves automatically upward

I the process can be ended ahead of time by pressing the stop button

Motos

I in combination with the cooling station FKS04 shrinking, cooling and cleaning can be done within seconds please order separately

	Dimension	Weight		Ident-No.
inductive shrinking device ISG2202 (without ventilator)	640x310x390	25		184036 o
	[mm]	[kg]		
Accessories	Weight		Class-No.	Ident-No.
liquid cooling device FKS 04 (manual)	22.5		985201	184037o
tool adapter HSK40/50/63F for FKS04			985201	184039o
tool adapter SK30/40/BT30/40 for FKS04			985201	184038o
	[kg]			



inductive shrinking device ISG3400TLK

Product

Drawing



Machine / Application

- for shrinking of HW shanks Ø 3 - 32 mm and HS steel shanks Ø 6 - 32 mm
- with the inductive shrink unit ISG3400 TLK all tools from Ø 3-32 can be shrinked by simple change of discs; the energy coupling is thereby optimally adapted to the respective chuck; with special coils, the system can also shrink larger diameters tools up to 50 mm

- I device with inductor with 4 replacement discs
- performance: 11 kW
- I design with ventilator

Advantages

- I operation of the ISG3400TLK by menu
- I all parameter are shown at the same time
- I several languages can be chosen
- I data for clamping chucks with special geometries can be saved

I in combination with the cooling station FKS04 shrinking, cooling and cleaning can be done within seconds please order separately

	Dimension		Ident-No.
inductive shrinking device ISG3400TLK (without ventilator)	780x535x950		184035 o
	[mm]		
Accessories	Weight	Class-No.	Ident-No.
liquid cooling device FKS 04 (manual)	22.5	985201	184037o
tool adapter HSK40/50/63F for FKS04		985201	184039o
tool adapter SK30/40/BT30/40 for FKS04		985201	184038o
	[kg]		



digital height measuring device

chucks or on arbors and tool

digital height measuring device

holders

I digital display

Product	Drawing		
			LEUGO
Machine / Application	Design	Advantages	Notes
I for quick and precise adjusting of cutting tools in draw-in collet	I repeating precision 0.01 mm I tungsten carbide-tipped scriber	I simple adjustment and fixing of the height dimension	

LEUCO

Ident-No. 183684 o

iBlade StarterKit

Product

Drawing

Machine / Application

I for simple monitoring and tracking of tool performance Design

Advantages

I perfect cost control

- I the insertion of the chip depends on the tool used
- I in the case of very small/thin tools the memory chip can be attached to a tool card

			Ident-No.
iBlade StarterKit	software documentation Basic, memory chip V2 Classic USB, activator spray, glue	(5 pieces), reader	184784 s
Accessories		Class-No.	Ident-No.
Software documentation Basic	annual licence	999300	184776s
Software documentation user	annual licence	999300	184777s
software documentation dealer/service	annual licence	999300	184778s
reader Classic USB		994721	184779s
reader bluetooth		994721	184780s
memory chip V2	8.5x2.0 mm	994711	184781
glue	20g	993390	184782s
activator spray	200 ml can	993390	184783s



Connection dimensions for Boring Bit Collet Chucks

Threaded shank design for Kombi and Klack systems with appropriate machines

_			
Type A	a 15	Machine assignment Nottmeyer Lehbrink Pankoke + Kochsiek Prieß + Horstmann	
В	a 15	Ayen Holzma Knoevenagel Mayer Brandt Reichenbacher Torwegge Zubiola	
С		Nottmeyer	
D	16 16	Böttchner + Gessner Biesse Busellato Dingenotto Hüllhorst Holz-Her Homag Koch	Morbidelli Reimall Torwegge Weeke Reich
E	a 22,5	Bilek Type KÜN Knoevenagel	
F	a 17,7	Alberti Balestrini Bilek (05 R) Busellato Dubus Goma Grotefeld Omeg	Reimall Schleicher SCM Tanzani Viciani Vitap Weingärtner
G	00 00 00 00 00 00 00 00 00 00 00 00 00	Scheer	

