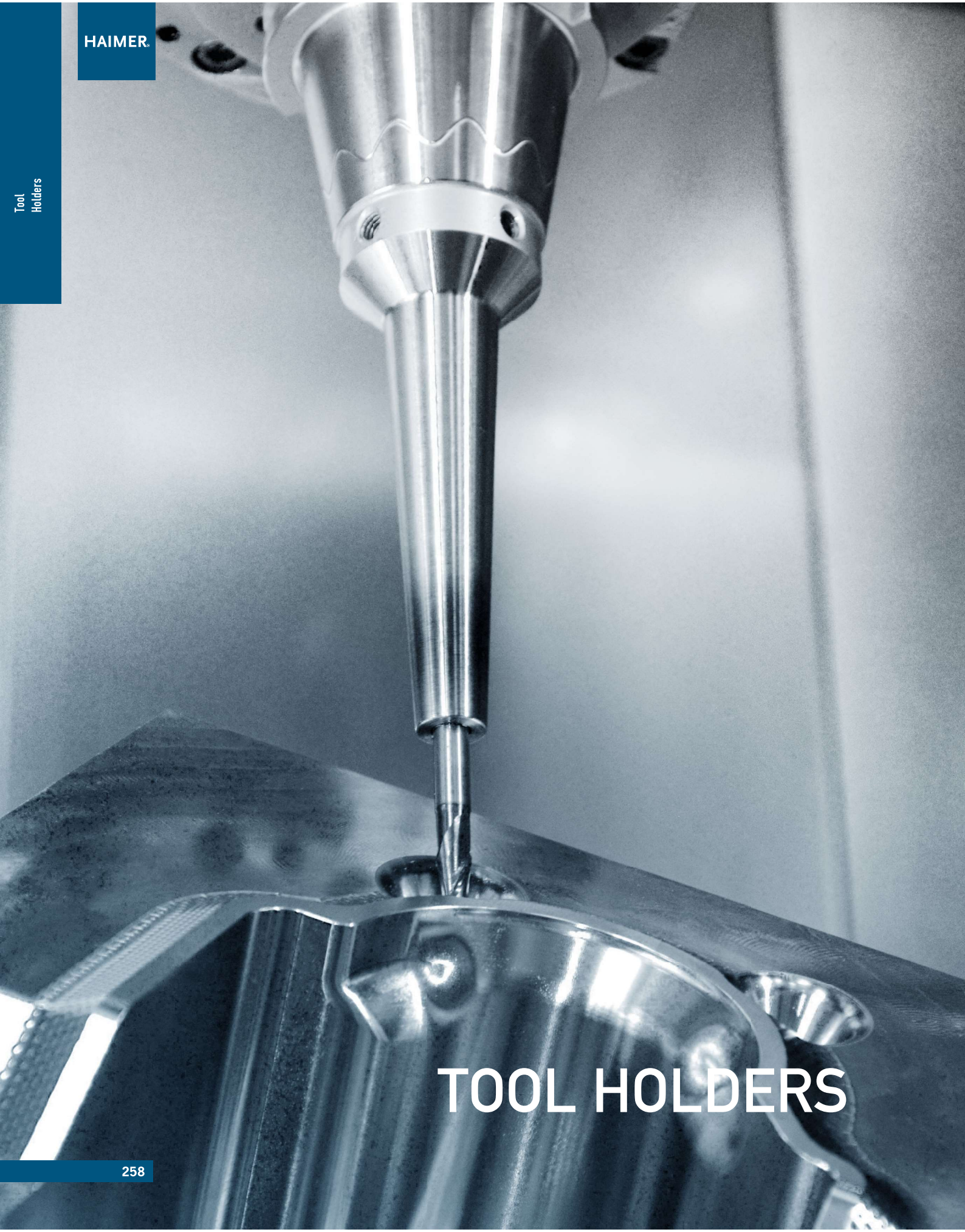
MASTER CATALOG

HAIMER®



TOOL HOLDERS

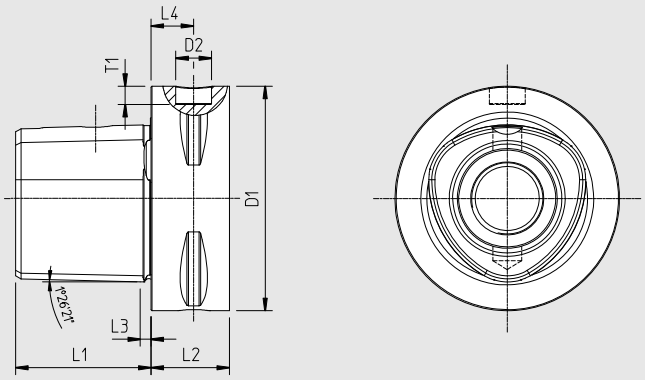
ISO 26623
PSC 63

HAIMER

POLYGON SHANK COUPLING PSC 63 ISO 26623

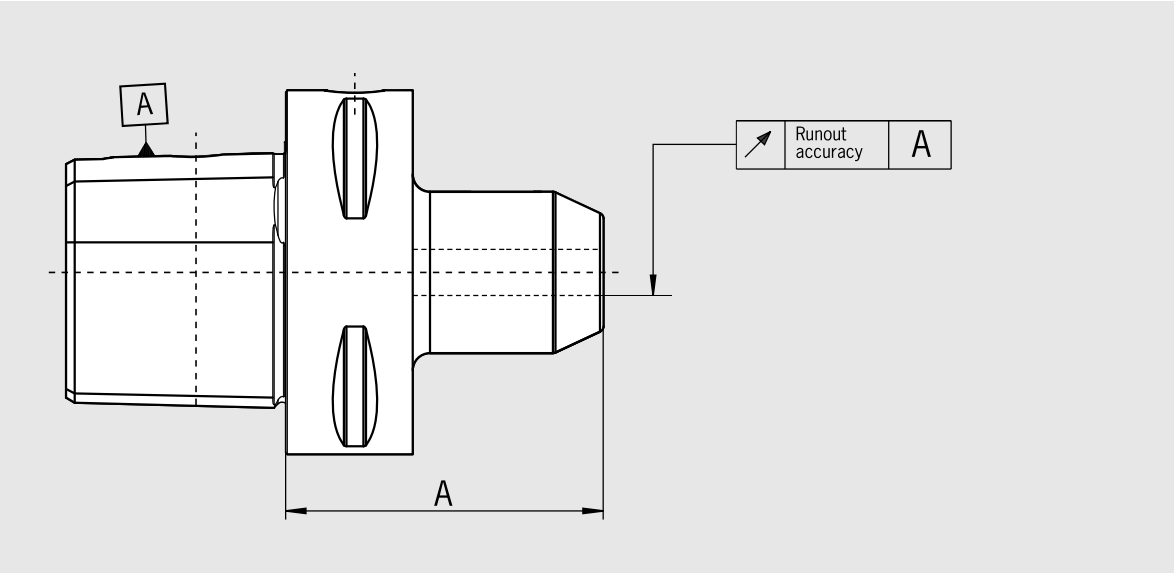
Compared to steep tapers, PSC has the following advantages:
– Highly repeatable accuracy when clamping tools into spindle
– Fixed axial positioning with face contact surface
– Suitable for high speed cutting
– No pull stud necessary
– Interface with a unique tapered polygon and flange face contact
– Exact positioning in the circumferential direction
– Highest runout accuracy, torque and rigidity
– Innovative modular tool system with highest precision
– Suitable for both turning and milling centers
– Incl. bore for data chip Ø 10 mm

Material:
– Special case-hardening steel for highly stressed parts
– Surface hardness: 60 – 2 HRC
– Tensile strength in core min. 950 N/mm²



Length [mm]	D1	D2	L1	L2	L3	L4	T1
PSC 63	63	10	38	22	3	12	5

RUNOUT ACCURACY
ISO 26623



Gage length A [mm]	A < 160	A ≥ 160
max. runout tolerance in mm		
Shrink Fit Chuck	0.003	0.004
Collet Chuck ER	0.003	0.004
Power Collet Chuck	0.003	0.004
High Precision Collet Chuck	0.003	0.004
Weldon Tool Holder	0.003	0.004
Face Mill Arbor	0.006	0.006

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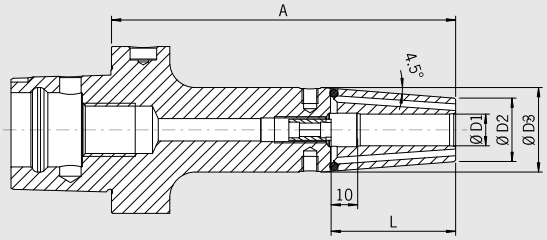
SHRINK FIT CHUCK
ISO 26623-1 · PSC 63



CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 25,000 rpm or U<1 gmm
- ☑ All functional surfaces fine machined
- ☑ More accurate than DIN

Shrink fit chuck suitable for use with all available shrink fit units.
– Interface with a unique tapered polygon and flange location face
– Exact positioning in the spindle
– Highest runout accuracy, torque and rigidity
– Innovative modular tool system with highest precision
– Suitable for both turning and milling centers
– With threaded holes in order to balance with balancing screws
– Inch sizes with Cool Jet, metric sizes without Cool Jet (optional available)

ISO 26623
– Delivery: With back-up screw

Optional:
– Metric sizes: Cooling with Cool Jet for an extra charge (See page 501)
– Cooling with Cool Flash for an extra charge (See pages 502–503)

INCH	Clamping Ø D1 [inch]	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4
	Ø D2 [inch]	0.83	0.83	0.94	0.94	0.94	1.06	1.30	1.30	1.73	1.73
	Ø D3 [inch]	1.06	1.06	1.26	1.26	1.26	1.34	1.65	1.65	2.09	2.09
	L [inch]	1.42	1.42	1.65	1.65	1.85	1.97	2.05	2.05	2.28	2.28
Gage length A [inch]	short	3.15	—	3.15	—	3.15	3.35	3.35	—	3.54	—
Order No.	**CC6.140...**	**.1/4Z.4**		**.3/8Z.4**		**.1/2Z.4**	**.5/8Z.4**	**.3/4Z.4**		**.1Z.4**	
Gage length A [inch]	long	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	—	—
Order No.	**CC6.141...**	**.1/4Z.4**	**.5/16Z.4**	**.3/8Z.4**	**.7/16Z.4**	**.1/2Z.4**	**.5/8Z.4**	**.3/4Z.4**	**.7/8Z.4**		
Gage length A [inch]	ZG130	5.12	—	5.12	—	5.12	5.12	5.12	—	5.12	5.12
Order No.	**CC6.144...**	**.1/4Z.4**		**.3/8Z.4**		**.1/2Z.4**	**.5/8Z.4**	**.3/4Z.4**		**.1Z.4**	**.11/4Z.4**

METRIC	Clamping Ø D1 [mm]	03	04	05	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27	33	33	44	44
	Ø D3 [mm]	—	—	—	27	27	32	32	34	34	42	42	53	53
	L [mm]	09	12	15	36	36	42	47	47	50	50	52	58	58
Gage length A [mm]	short	80[1]	80[1]	80[1]	80	80	80	80	85	85	85	85	90	95
Order No.	**CC6.140...**	**.03**	**.04**	**.05**	**.06**	**.08**	**.10**	**.12**	**.14**	**.16**	**.18**	**.20**	**.25**	**.32**
Gage length A [mm]	long	—	—	—	100	100	100	100	100	100	100	100	—	—
Order No.	**CC6.141...**				**.06**	**.08**	**.10**	**.12**	**.14**	**.16**	**.18**	**.20**		
Gage length A [mm]	ZG120	120[2]	120[2]	120[2]	120	120	120	120	120	120	—	120	120	—
Order No.	**CC6.147...**	**.03.1**	**.04.1**	**.05.1**	**.06**	**.08**	**.10**	**.12**	**.14**	**.16**		**.20**	**.25**	
Gage length A [mm]	ZG130	130[2]	130[2]	130[2]	130	130	130	130	130	130	130	130	130	130
Order No.	**CC6.144...**	**.03.1**	**.04.1**	**.05.1**	**.06**	**.08**	**.10**	**.12**	**.14**	**.16**	**.18**	**.20**	**.25**	**.32**
Gage length A [mm]	oversize	—	—	—	160	160	160	160	160	160	160	160	160	160
Order No.	**CC6.142...**				**.06**	**.08**	**.10**	**.12**	**.14**	**.16**	**.18**	**.20**	**.25**	**32**

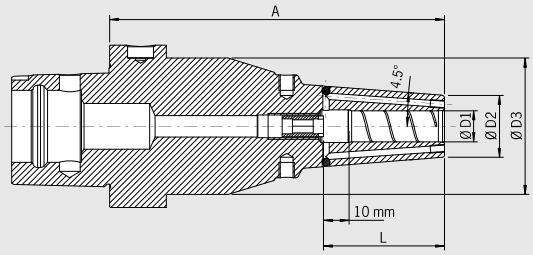
Accessories

Cool Flash		**Order No. 91.100.40**	See pages 502–503

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside
2) Without slits along the clamping bore

POWER SHRINK CHUCK
ISO 26623-1 · PSC 63

CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 25,000 rpm or U<1 gmm
- ☑ All functional surfaces fine machined
- ☑ More accurate than DIN



The Power Shrink Chuck is designed for the highest cutting performance in High Speed machining. The optimized design combines high rigidity with vibration dampening, which protects the machine, spindle and tool.
- Highest cutting performance with higher spindle speeds, higher feeds and larger cutting depths
- Shorter cycle times, higher machining accuracy
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- With threaded holes in order to balance with balancing screws
- Cool Jet bores that can be sealed included
- Cooling with Cool Flash for an extra charge (See pages 502–503)

The long versions (A=130) with slim tips are especially versatile to use.
- High rigidity, slim at the tip, dampen vibrations
- High clamping force
- Equally suited to High Speed and Heavy Duty machining
- Universal usage, saves space in tool magazine

INCH	Clamping Ø D1 [inch]	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4
	Ø D2 [inch] ultra short	0.87	0.87	1.04	1.04	1.04	1.16	1.40	1.40	1.77	1.77
	Ø D3 [inch] ultra short	—	—	—	—	—	—	—	—	—	—
	L [inch] ultra short	1.50	1.50	1.69	1.81	1.81	2.00	2.09	2.09	2.36	2.56
Gage length A [inch]	ultra short	2.56	2.56	2.56	2.56	2.56	2.76	2.76	2.76	3.15	3.15
Order No.	**CC6.145...**	**.1/4Z.3**	**.5/16Z.3**	**.3/8Z.3**	**.7/16Z.3**	**.1/2Z.3**	**.5/8Z.3**	**.3/4Z.3**	**.7/8Z.3**	**.1Z.3**	**.11/4Z.3**
Safe-Lock Order No.	**CC6.145...**	—	—	—	—	**.1/2Z.37**	**.5/8Z.37**	**.3/4Z.37**	—	—	—
	Ø D2 [inch] ZG130	0.83		0.94		0.94	1.06	1.30			
	Ø D3 [inch] ZG130	2.09		2.09		2.09	2.09	2.09			
	L [inch] ZG130	1.42		1.65		1.65	1.97	1.97			
Gage length A [inch]	ZG130	5.12		5.12		5.12	5.12	5.12			
Order No.	**CC6.144...**	**.1/4Z.3**	—	**.3/8Z.3**	—	**.1/2Z.3**	—	—			
Safe-Lock Order No.	**CC6.144...**	**.1/4Z.37**	—	**.3/8Z.37**	—	**.1/2Z.37**	**.5/8Z.37**	**.3/4Z.37**			

METRIC	Clamping Ø D1 [mm]	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm] ultra short	22	22	26.5	26.5	29.5	29.5	35.5	35.5	45	45
	Ø D3 [mm] ultra short	—	—	—	—	—	—	—	—	—	—
	L [mm] ultra short	38	38	43	46	48	51	51	53	60	65
Gage Length A [mm]	ultra short	65	65	65	65	70	70	70	70	80	80
Order No.	**CC6.145...**	**.06.3**	**.08.3**	**.10.3**	**.12.3**	**.14.3**	**.16.3**	**.18.3**	**.20.3**	**.25.3**	**.32.3**
Safe-Lock Order No.	**CC6.145...**	—	—	—	**.12.37**	—	**.16.37**	—	**.20.37**	**.25.37**	**.32.37**
	Ø D2 [mm] ZG130	21	21	24	24		27		33		
	Ø D3 [mm] ZG130	53	53	53	53		53		53		
	L [mm] ZG130	36	36	42	47		50		52		
Gage Length A [mm]	ZG130	130	130	130	130		130		130		
Order No.	**CC6.144...**	**.06.3**	**.08.3**	**.10.3**	**.12.3**		**.16.3**		**.20.3**		
Safe-Lock Order No.	**CC6.144...**	—	—	**.10.37**	**.12.37**		**.16.37**		**.20.37**		

Accessories

Cool Flash		**Order No. 91.100.40**	See pages 502–503

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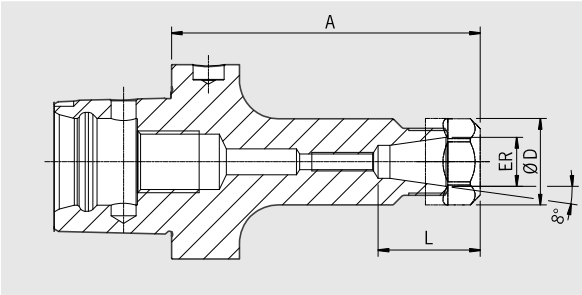
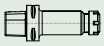
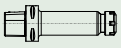
COLLET CHUCK ER
ISO 26623-1 · PSC 63

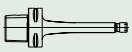


CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 25,000 rpm or U<1 gmm
- ☑ All functional surfaces machined
- ☑ More accurate than DIN

Use:
For clamping tools with cylindrical shank in collets according to ISO 15488 (formerly DIN 6499). Available from ER 16 to 40.

ISO 26623
– Included in delivery: With locknut (balanced, with slide coating for higher clamping forces)
– In four different lengths available, additionally Mini-ER 11 and Mini-ER 16 in two lengths

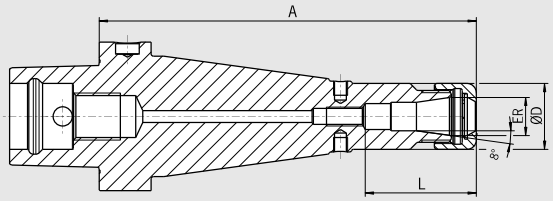
INCH	ER		16	20	25	32	40
	Ø D [inch]		1.1	1.34	1.65	1.97	2.48
	Clamping range [inch]		0.02–0.39	0.06–0.51	0.04–0.63	0.06–0.79	0.98–1.02
L [inch]			2)	2)	1.91	1.87	2.11
Gage length A [inch]	ultra short		2.36	2.36	2.36	2.36	2.56
Order No.	**CC6.025...**		**.16**[1]	**.20**[1]	**.25**[1]	**.32**[1]	**.40**[1]
L [inch]			1.30	1.54	1.63	1.87	2.11
Gage length A [inch]	long		3.94	3.94	3.94	3.94	3.94
Order No.	**CC6.021...**		**.16**	**.20**	**.25**	**.32**	**.40**
L [inch]			1.30	1.54	1.63	1.87	2.11
Gage length A [inch]	ZG130		5.12	5.12	5.12	5.12	5.12
Order No.	**CC6.024...**		**.16**	**.20**	**.25**	**.32**	**.40**
L [inch]			1.30	1.54	1.63	1.87	2.11
Gage length A [inch]	oversize		6.30	6.30	6.30	6.30	6.30
Order No.	**CC6.022...**		**.16**	**.20**	**.25**	**.32**	**.40**

INCH	Collet Chuck Mini-ER		11	16
	Ø D1 [inch]		0.63	0.87
	L [inch]		1.00	1.56
Gage length A [inch]	long		3.94	3.94
Order No.	**CC6.021...**		**.11.7**[1]	**.16.7**[1]
Gage length A [inch]	oversize		6.30	6.30
Order No.	**CC6.022...**		**.11.7**[1]	**.16.7**[1]

1) Without thread for back-up screw

POWER COLLET CHUCK
ISO 26623-1 · PSC 63

CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 25,000 rpm or U < 1 gmm
- ☑ All functional surfaces fine machined
- ☑ More accurate than DIN



The Power Collet Chuck is designed for the highest cutting performance in High Speed machining. The optimized design with improved construction combines high rigidity with vibration dampening features, giving more protection to the machine, spindle and tool. The universal Power Collet Chuck is a unique high performance chuck that can also be used with standard collets.

- TIR less than 0.00012" (3 µm) at 3 × D with HAIMER Power Collets
- Also for standard collets ER according to ISO 15488 (Attention: By using standard collet, ER length A will increase)
- High rigidity
- Runs smoother thanks to vibration absorbing geometry, yielding better surface finish and increased tool, spindle and machine protection
- Highest cutting performance with higher spindle speeds, higher feeds and larger cutting depths
- Shorter cycle times, higher machining accuracy, high clamping force
- Equally suited to High Speed and dynamic machining
- With threaded holes in order to balance with balancing screws
- Optional: Cool Jet bores on Power Collets
- Program of Power Collets on pages 774 – 776

INCH	ER	16	25	32
	Ø D [inch]	1.1	1.65	1.97
	Clamping range [inch]	1/8–3/8	1/8–5/8	1/8–3/4
	Clamping range [mm]	2.0–10.0	2.0–16.0	2.0–20.0
	L [inch]	1.69	2.01	2.09
Gage length A [inch]	oversize	6.30[1)]	6.30[1)]	6.30[1)]
Order No.	**CC6.024...**	**.16.3**	**.25.3**	**.32.3**

Accessories

Locknut (fine-balanced)				See page 779
Size		ER 16	ER 25	ER 32
Order No.	**83.914...**	**.16**	**.25**	**.32**
Power Collet clamping wrench				See page 781
Torque Master torque wrench				See page 780
Order No.	**84.600.00**			
Power Collets				See page 775
Power Collets with Safe-Lock				See page 776
Cool Jet bores for Power Collets				See page 777
Order No.	**91.100.27**			
Shrink Fit Collets				See pages 759–767

1) With back-up screw

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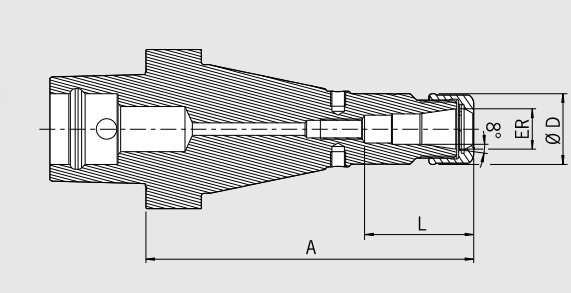
HIGH PRECISION COLLET CHUCK
ISO 26623-1 · PSC 63



CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 30,000 rpm or U < 1 gmm
- ☑ All functional surfaces fine machined
- ☑ More accurate than DIN

The High Precision Collet Chuck is designed for the highest cutting performance in High Speed machining. The optimized design with better construction and a special coated smooth locknut combines high rigidity with vibration dampening and noise-reducing features, giving more protection to machines, spindles and tools.

- With a specially coated smooth locknut, balanced at < 1 gmm
- High runout accuracy: < 0.00012" (3 µm) at 3 × D with HAIMER Power Collets
- Also for standard collets ER according to ISO 15488 (Attention: By using standard collet, ER length A will increase)
- High rigidity
- Runs smoother thanks to vibration absorbing geometry, yielding better surface finish and increased tool, spindle and machine protection
- Highest cutting performance with higher spindle speeds, higher feeds and larger cutting depths
- Shorter cycle times, higher machining accuracy, higher clamping forces
- Equally suited to High Speed and dynamic machining
- With threaded holes in order to balance with balancing screws
- Optional: Cool Jet bores on Power Collets
- Program of Power Collets on pages 774 – 776

INCH	ER	16	25	32
	Ø D [inch]	1.1	1.65	1.97
	Clamping range [inch]	1/8–3/8	1/8–5/8	1/8–3/4
	Clamping range [mm]	2.0–10.0	2.0–16.0	2.0–20.0
	L [inch]	1.69	2.01	2.09
Gage length A [inch]	oversize	6.30[1)]	6.30[1)]	6.30[1)]
Order No.	**CC6.024...**	**.16.3.HP**	**.25.3.HP**	**.32.3.HP**

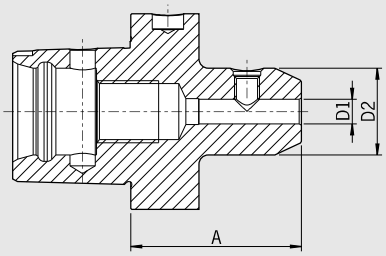
Accessories

High Precision Smooth Locknut (fine-balanced)				See page 779
Size		ER 16	ER 25	ER 32
Order No. 83.914...		**.16.1**	**.25.1**	**.32.1**
Roller bearing wrench				See page 782
Order No. 84.650...		**.16.1**	**.25.1**	**.32.1**
Collets ER				See pages 768–773
Shrink Fit Collets				See pages 759–767
Power Collets				See page 775
Power Collets with Safe-Lock				See page 776
Cool Jet bores for Power Collets **Order No. 91.100.27**				See page 777

1) With back-up screw

WELDON TOOL HOLDER
ISO 26623-1 · PSC 63

CERTIFICATE OF QUALITY
- ☑ Chuck fine balanced G2.5 25,000 rpm
- ☑ All functional surfaces machined
- ☑ More accurate than DIN



Use:
For clamping cutters with cylindrical shanks and Weldon flats according to DIN 1835-B and DIN 6935-HB.
From Ø 6 to Ø 40 mm.
– Interface with a unique tapered polygon and flange location face
– Exact positioning in the spindle
– Highest runout accuracy, torque and rigidity
– Innovative modular tool system with highest precision
– Suitable for both turning and milling centers

ISO 26623
– Included in delivery: with clamping screw

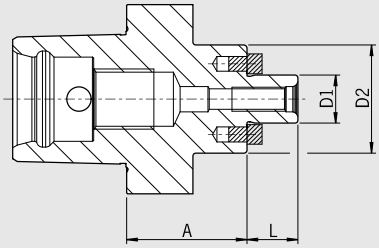
METRIC	Clamping Ø D1 [mm]	06	08	10	12	14	16	18	20	25	32	40
	Ø D2 [mm]	25	28	35	42	44	48	50	52	64	72	80
Gage length A [mm]	short	55	55	60	60	60	65	65	65	80	90	100
Order No.	**CC6.000...**	**.06**	**.08**	**.10**	**.12**	**.14**	**.16**	**.18**	**.20**	**.25**	**.32**	**.40**

Accessories

Clamping screw												
Clamping Ø		06	08	10	12	14	16	18	20	25	32	40
Order No.	**85.100...**	**.06**	**.08**	**.10**	**.12**	**.12**	**.14**	**.14**	**.16**	**.18**	**.20**	**.25**
Balancing index rings												
Clamping Ø	long/oversize	06	08	10	12	14	16	18	20	25	32	40
Order No.	**79.350...**	**.25**	**.28**	**.35**	**.42**	**.44**	**.48**	**.50**	**.52**	**.64**	**.72**	**.80**
Cool Jet bores from Ø 6 mm – Ø 20 mm												See page 501
Order No.	**91.100.24**											
Cool Jet bores from Ø 25 mm – Ø 32 mm												See page 501
Order No.	**91.100.26**											

HAIMER

FACE MILL ARBOR
ISO 26623-1 · PSC 63



CERTIFICATE OF QUALITY
- ☑ Chuck body fine balanced G2.5 25,000 rpm or U<1 gmm
- ☑ All functional surfaces machined
- ☑ More accurate than DIN

Use:
For clamping face mill cutters and cutters with radial driving slot DIN 1880.
– Interface with a unique tapered polygon and flange location face
– Exact positioning in the spindle
– Highest runout accuracy, torque and rigidity
– Innovative modular tool system with highest precision
– Suitable for both turning and milling centers

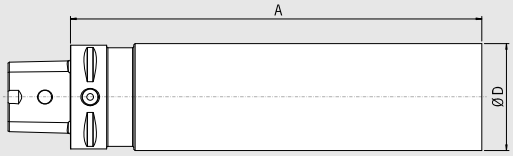
ISO 26623
– Included in delivery: tightening bolt
– With coolant exit bores on the end face for milling cutters with central cooling

METRIC	Clamping Ø D1 [mm]		16	22	27	32	40
	Ø D2 [mm]		36	48	60	63	70
	L [mm]		17	19	21	24	27
Gage length A [mm]	short		40	25	25	25	40
Order No.	**CC6.050...**		**.16.KKB**	**.22.KKB**	**.27.KKB**	**.32.KKB**	**.40.KKB**

Accessories							
Tightening bolt							
Size D1			16	22	27	32	40
Order No.	**85.300...**		**.16**	**.22**	**.27**	**.32**	**.40**
Wrench							
Size D1			16	22	27	32	40
Order No.	**84.400...**		**.16**	**.22**	**.27**	**.32**	**.40**
Balancing index rings							
Size D1			16	—	—	—	40
Order No.	**79.350...**		**.36**				**.70**

BLANK ADAPTER – HARDENED
ISO 26623-1 · PSC 63

CERTIFICATE OF QUALITY
- ☑ All functional surfaces fine machined
- ☑ More accurate than DIN



Use:
For manufacturing special tools in your own factory.

Version:
– Polygon taper and groove hardened and ground
– Cylindrical part hardened to 52+2 HRC

METRIC	Ø D [mm]		65
Gage Length A [mm] **Order No.**	ZG100 **RCC6.096.0650...**		100 **.0100**
Gage Length A [mm] **Order No.**	ZG250 **RCC6.096.0650...**		250 **.0250**