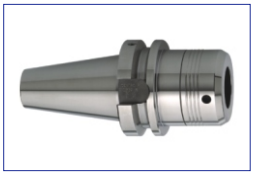
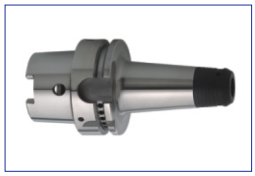
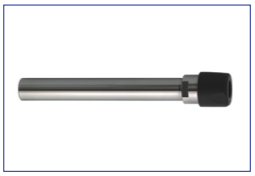
Collet Chucks

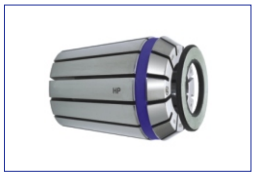
Centro P

Delivery Programme









FAHRION® PRÄZISION

No more experimenting with Collet Chucks

When it comes to clamping cutting tools, collet technology cannot be beaten in terms of reliability, profitability and efficiency. And when top quality and very high precision are required, there is no alternative to FAHRION.

Because FAHRION now offers both: Collets and Collet Chucks – both as standard and precision models.

– profit from Centro P

The right Collet Chuck for every application

See pages 10-11

See pages 12-13

See page 13

See pages 14-15

See page 15

See page 17

8 µm

Leave the experimenting to us – rely on tried and tested technology!

The ultimate combination from FAHRION

7 µm

Collets and Collet Chucks become one system. Even the best Collets have reduced benefits when used in an inferior Collet Chuck and “cheap” can cost a fortune in the end. Therefore insist that both components are of the same high quality. Play it safe and choose FAHRION – the most precise Collet and Collet Chuck combination.

6 µm

FAHRION – total quality

In the market for almost 100 years, FAHRION is the unchallenged leader in terms of quality for Collets. We offer first class quality products – made in Germany at an extremely competitive price. FAHRION Collet Chucks are perfectly matched to our Collets, offering maximum precision, stability, flexibility, reliability and profitability.

5 µm

Once FAHRION – always FAHRION

Anyone who decides to go for FAHRION, stays with FAHRION. What we supply as standard is offered by many competitors as special precision, only available at an additional charge. Our manufacturing tolerances are much lower than those specified in the DIN standard. We keep our promises and that’s the secret of our success. The result: long-term satisfied customers who put all their trust in us.

4 µm

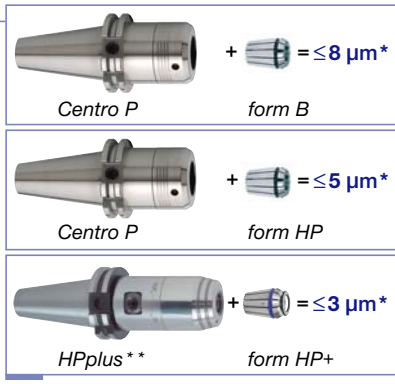
3 µm

2 µm

No more experimenting

The time for experimenting is finally over: With ***Centro P*** *we are offering a new revolutionary range of standard Collet Chucks, which continues the tradition of our tried and tested Collets in terms of precision and quality. Rely on FAHRION for your Collet Chucks –* ***the only way to bring the precision of the Collet to your cutting tool.***

Precision and Efficiency



> *FAHRION – the best solution for every requirement*

Centro P – the best the market has to offer

Use your FAHRION Collets with the innovative **Centro P** Collet Chucks to achieve perfect results. With **Centro P** we are revolutionising Collet Chuck and Collet clamping technology, putting it ahead of the competition in respect of precision, clamping force, flexibility and price-performance. Don't waste your money on laborious and costly hydraulic, expansion or shrink fit clamping techniques.

8 µm

Centro P – precision of your choice

Combine **Centro P** with FAHRION Collets form B for system accuracy of ≤ **8 µm***; suitable for over 80% of all machining applications, FAHRION Collets form HP for system accuracy of ≤ **5 µm***. If the application demands it, a system accuracy of ≤ **3 µm*** can be achieved with the proven FAHRION HPplus** Collet Chuck system.

7 µm

Profitability through precision

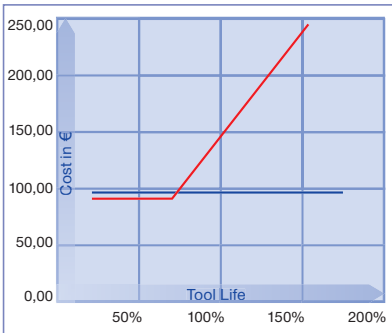
Extremely high concentricity and repeatability

> reduced production tolerances
> reduces finishing to a minimum
> reduced cycle times
> protects the tools

You save money!

6 µm

5 µm



Cost of carbide drill with BER32-K2 collet, 20 µm, system accuracy < 25 µm*

Cost of carbide drill with FAHRION GER32-B collet, 6 µm, system accuracy < 8 µm*

> *Improved concentricity = lower tool costs*

Profitability and efficiency through quality and innovation

Excellent material and machining quality, along with advanced technology

> increase flexibility
> improve clamping force
> increase tool life
> maximise clamping and production safety
> guarantee high availability
> ensure high productivity

Get ahead of your competitors

4 µm

3 µm

2 µm

* checked at the cutting tool at a distance of 3xD (max. 50 mm)
** for detailled information please see our HPplus catalogue, which we are pleased to send you on demand

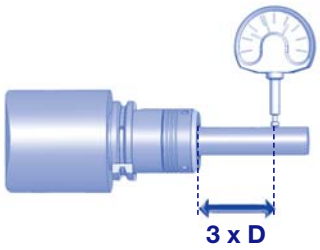
FAHRION® PRÄZISION

Centro P

Accurate

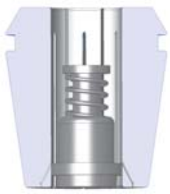
constant system accuracy with FAHRION form B Collets ≤ **8** µm*, ≤ **5** µm* with the FAHRION form HP Collets

*checked at the cutting tool at a distance of 3 x D (max. 50 mm)



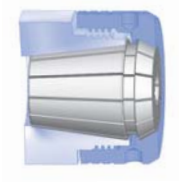
Vibration

possible vibrations during the application are absorbed by the Collet



Unmistakable

due to the unique design of the FAHRION HPC Clamping Nut with trapezoidal thread and double-length guide Centro P is ideal for **H**igh **P**erformance **C**utting



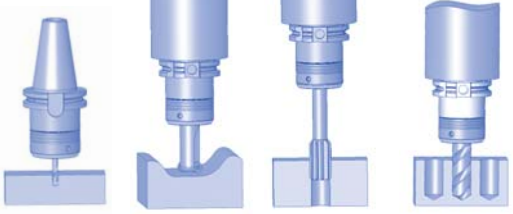
Low cost

standard Collets to DIN6499/ISO15488-B (ER/ESX) and FAHRION HP Precision Collets: the low-cost alternative to other precision systems such as hydraulic and expansion chucks with cylindrical sleeves or shrink fit chucks

the best solution every time

Universal

ideal for drilling, milling, reaming and tapping

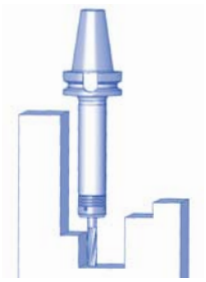


Drilling/ Counter-Sinking

Hard Metal Milling

Precision Reaming

Wood working



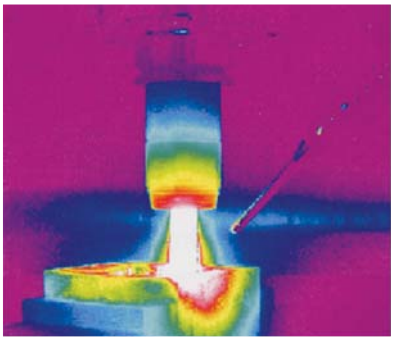
Extra long tool holders for difficult to reach machining areas

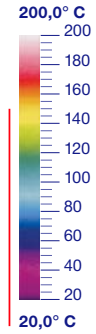
HSC milling in the tool and mold-making industries

8 µm

Temperature Stability

Suitable for dry processes and hard milling up to 200°. Resistant to temperature changes





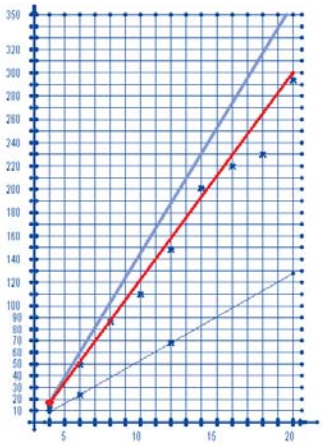
7 µm

6 µm

Safe

up to 100% higher clamping force compared to conventional Collet Chucks

Clamping torque (static) in Nm at the tool*



Centro P CP225

Centro P CP32

ER 32 conventio-nal Collet Chuck

Clamp Ø in mm

*Clamping torque of the clamping nut 105 Nm, tool shank hardened, ground (Rz 2.5) and free of grease

5 µm

4 µm

3 µm

2 µm

Maintenance free

You don't have to check the clamping force, provided the Collet diameter is the same as the tool shaft and you comply with the operating instructions. Full clamping force is maintained, even when in storage for a long time

There's everythi

be said for Centr

The new definition for sta

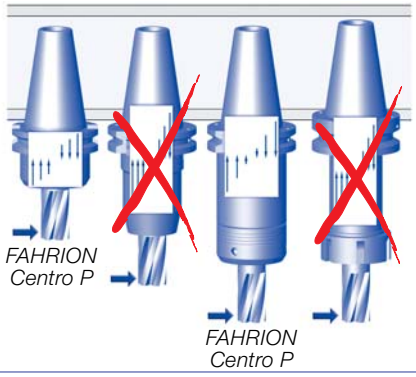
There is no comp

Innovative design/No compromise

New: concentric collet extraction collar and innovative surface treatment of the Collet and clamping nut ensure ideal balance characteristics and **H**igh **P**erformance **C**utting suitability.
The chucks have been designed to clamp nominal sizes within ISO H10 tolerance, and therefore **do not utilise the normal Collet collapse,** which has a negative effect on the concentricity.

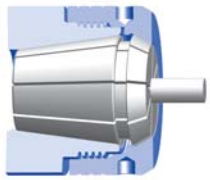
Rigid

Centro P is designed and built to advanced specifications and minimises bending and compression loads. The extra reinforcement of the chuck body to the diameter of the clamping nut results in perfect stability with maximum compactness.



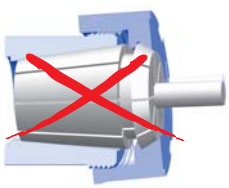
Precise

New: 30° trapezoidal thread (1) with ground, extra long double-length guide (2)
The ground trapezoidal thread reduces friction and, together with the extra long, double-length guide, ensures perfect centring of the clamping nut on the chuck, thus achieving perfect distribution of load and minimal imbalance. The result: **extreme high concentricity and repeatability.**



FAHRION Centro P

Previously: 60° vee form thread without guiding
Tightening requires very high starting torque. Often expansion levers or hammers are used. The result: damage and loss of precision. The clamping nut can also tilt (skew) on the 60° thread surfaces. This leads to side loads on the Collet and loss of concentricity and repeatability of the system.



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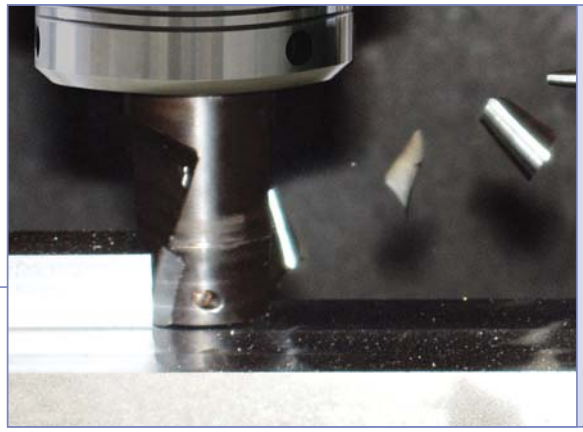


Square shoulder and face milling

- *square shoulder cutter Ø 25 mm, 2 flutes (z=2) with cylindrical shank Ø 20 mm*
- *material: structural steel <HB200*
- *cutting speed Vc=300m/min.*
- *feed per tooth fz=0,08 mm*
- *cutting width ae=20 mm*
- *cutting depth ap=12 mm*

8 µm

Benefits without collapse:

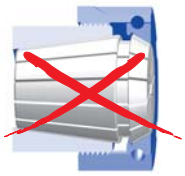
- optimum seating
- optimum concentricity and repeatability
- optimum stability

FAHRION Centro P

Previously: the collet protrudes 4 mm from the chuck body in order to obtain the closure range of 1 mm.

Disadvantages:

- poor stability
- poor concentricity and repeatability
- thrust collar and balls difficult to balance, so not recommended for HPC use
- vibration and noise at high r.p.m.



7 µm

Flexible

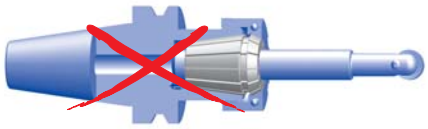
New: All chuck bodies feature the largest possible clearance and an extended range of length adjustment so that tools can be inserted in the optimum position.

Benefits:

- low vibration
- best surface results
- extended tool life

FAHRION Centro P

6 µm

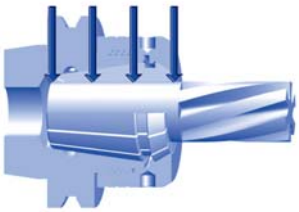


conventional Collet Chuck

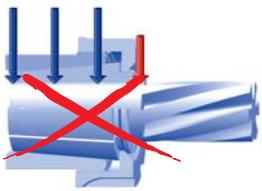
5 µm

Stable

Centro P provides evenly distributed clamping forces over the gripped area of the cutting tool shank. Reduced radial forces result in perfect milling surfaces.



FAHRION Centro P



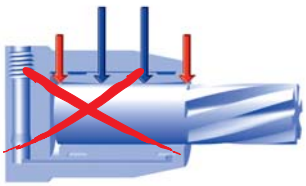
Collet Chuck system with flat shoulder

4 µm

3 µm

Perfect clamping (recommended for HPC)

Reduced clamping force

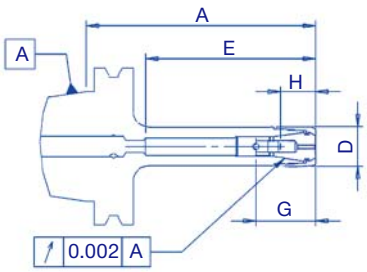


Hydraulic Chuck

2 µm

Collet Chucks with Universal Taper Shanks **DIN69871 – form ADB**

Slim Version for Mini Clamping Nuts

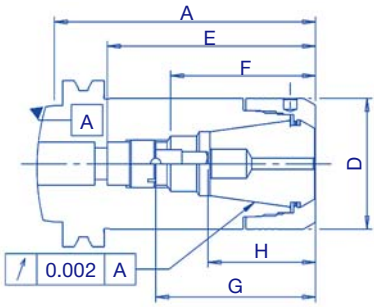


For details of Clamping Nuts and Collets refer to page 16/17

Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP11M-B30-A=50	43212000500	30	16	50	68	-	28	18	18	12	15.000	1,0-7,0 4008E-HP • 4008E	HPC11M
CP11M-B30-A=100	43212001000			100			36	18	26				
CP11M-B40-A=100	43214001000	40											
CP11M-B40-A=160	43214001600			160									

Version for Standard Clamping Nuts



Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP16-B30-A=50	44312000500	30	30	50	75	-	45	28	31	16	15.000	1,0-10,0 426E-HP • 426E-B	HPC16 • HPC16-DI
CP16-B30-A=100	44312001000			100	125								
CP16-B40-A=70	44314000700	40		70	110								
CP16-B40-A=100	44314001000			100	140								
CP16-B40-A=160	44314001600			160	200								
CP16-B40-A=200	44314002000			200	240						12.000		
CP25-B40-A=45	44514000450	40	40	45	85	-	60	35	42	20	15.000	2,0-16,0 430E-HP • 430E-B	HPC25 • HPC25-DI
CP25-B40-A=70	44514000700			70	110								
CP25-B40-A=100	44514001000			100	113								
CP25-B40-A=160	44514001600			160	118								
CP25-B40-A=200	44514002000			200	148						12.000		
CP32-B40-A=50	44614000500	40	50	50	92	55	70	52	52	26	15.000	2,0-20,0 470E-HP • 470E-B	HPC32 • HPC32-DI
CP32-B40-A=70	44614000700			70	111								
CP32-B40-A=100	44614001000			100	114								
CP32-B40-A=160	44614001600			160	119								
CP32-B50-A=70	44616000700	50	50	70	120	62	85	59	70	40	12.000		
CP32-B50-A=100	44616001000			100	150	58	81	53	63	35			
CP32-B50-A=160	44616001600			160	200		83		65				

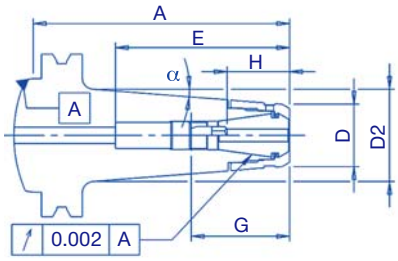
* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1

** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Important!

In addition to the Collet Chuck please order the Clamping Nut, Collets, and any other accessories you require using the relevant Order-No. for each item (see ordering example on page 19).

Tapered Version for Tapered Clamping Nuts

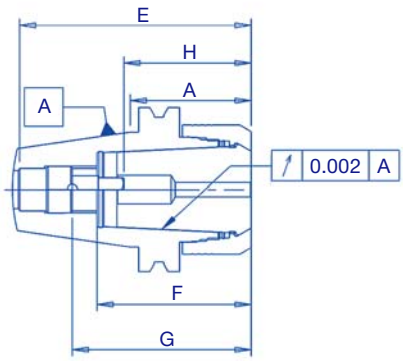


For details of Clamping Nuts and Collets refer to page 16/17

Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	D2	A*	α	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
							E **	F **	form U		form W				
									G max	G min	H max	H min			
CPC16-B40-A=100	44314401000	40	24	36,1	100	4,5	140	-	45	28	31	16	15.000	1,0-10,0	HPC16C•
CPC16-B40-A=160	44314401600			37,7	160	2,5	200							426E-HP•426E-B	HPC16C-DI

Version for Standard Clamping Nuts – The DIN6388 (444E) Collet has improved clamping characteristics and is extremely stable, which makes it the ideal choice for Rough Milling applications (see example of application page 9)



Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E **	F **	form U		form W				
							G max	G min	H max	H min			
CP225-B40-A=40	48514000400	40	50	40	80	46	62	43	44	27	15.000	10,0•12,0•14,0•16,0•18,0•20,0 444E	HPC225• HPC225-DI
CP225-B40-A=50	48516000500	50	50	50	110	56	66	55	50	36	12.000		

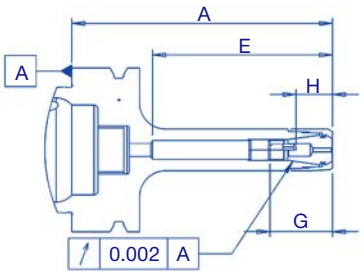
* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1

** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Collet Chucks with Hollow Tapers **HSK DIN69893 – form A and E**

Form A – Slim Version for Mini Clamping Nuts

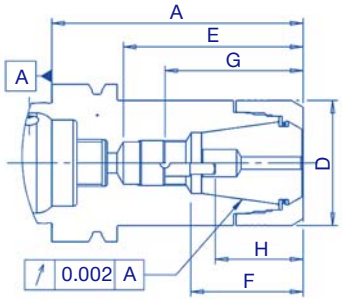
For details of Clamping Nuts and Collets refer to page 16/17



Stop Screws form U / form W refer to page 16

Description	Order-No.	HSK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP11M-HSK-A63-A=100	43226001000	A63	16	100	68	-	36	18	26	12	20.000	1,0-7,0 4008E-HP • 4008-B	HPC11M
CP11M-HSK-A63-A=160	43226001600			160									

Form A – Version for Standard Clamping Nuts



Stop Screws form U / form W refer to page 16

Description	Order-No.	HSK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP16-HSK-A63-A=100	44326001000	A63	30	100	76	-	45	28	31	16	20.000	1,0-10,0 426E-HP • 426E-B	HPC16 • HPC16-DI
CP16-HSK-A63-A=160	44326001600			160	106								
CP16-HSK-A63-A=200	44326002000			200	136						12.000		
CP25-HSK-A63-A=100	44526001000	A63	40	100	60	-	55	35	37	20	20.000	2,0-16,0 430E-HP • 430E-B	HPC25 • HPC25-DI
CP25-HSK-A63-A=160	44526001600			160	128		60		42				
CP25-HSK-A63-A=200	44526002000			200	148						12.000		
CP32-HSK-A63-A=70***	44626000700	A63	50	70	-	46	-	-	-	-	20.000	2,0-20,0 470E-HP • 470E-B	HPC32 • HPC32-DI
CP32-HSK-A63-A=100	44626001000			100	71	45	66	41	48	26			
CP32-HSK-A63-A=160	44626001600			160	129	55	70	52	52				

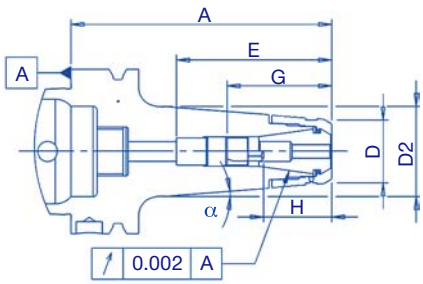
* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1
** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm
*** extra short version, without stop screw

Important!

In addition to the Collet Chuck please order the Clamping Nut, Collets, and any other accessories you require using the relevant Order-No. for each item (see ordering example on page 19).

Form A – Tapered Version for Tapered Clamping Nuts

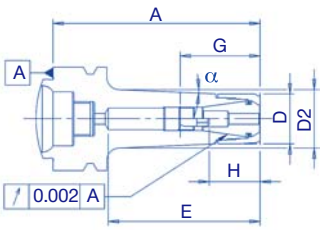
For details of Clamping Nuts and Collets refer to page 16/17



Stop Screws form U / form W refer to page 16

Description	Order-No.	HSK	D	D2	A*	α	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
							E **	F **	form U		form W				
									G max	G min	H max	H min			
CPC16-HSK-A63-A=100	44326401000	A63	24	34,6	100	4,5	76	-	45	28	31	16	20.000	1,0-10,0 426E-HP • 426E-B	HPC16C • HPC16C-DI
CPC16-HSK-A63-A=160	44326401600			36,6	160	2,5	106								

Form E – Tapered Version for Mini Clamping Nuts



Stop Screws form U / form W refer to page 16

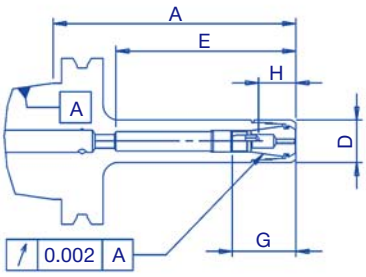
Description	Order-No.	HSK	D	D2	A*	α	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
							E **	F **	form U		form W				
									G max	G min	H max	H min			
CPC11M-HSK-E32-A=50	43243000500	E32	16	17,5	50	4,5	31	-	20	18	-	-	30.000	1,0-7,0 4008E-HP • 4008E-B	HPC11M
CPC11M-HSK-E40-A=50	43244000500	E40													
CPC11M-HSK-E40-A=100	43244001000			25,4	100		64		36		26	12			
CPC16M-HSK-E32-A=55	43343000550	E32	24	25,8	55	4,5	40	-	32	18	22	12	30.000	1,0-10,0 426E-HP • 426E-B	HPC16M • HPC16M-DI
CPC16M-HSK-E40-A=55	43344000550	E40					38		30		20				
CPC16M-HSK-E40-A=100	43344001000			29,0	100	2,5	66		48		38				
CPC16M-HSK-E50-A=60	43345000600	E50		25,4	60	4,5	39		31		21				
CPC16M-HSK-E50-A=100	43345001000			28,2	100	2,5	72		48		38				

* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1

** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Collet Chucks with Universal Taper Shanks **MAS/BT (JIS B 6339)**

Slim Version for Mini Clamping Nuts

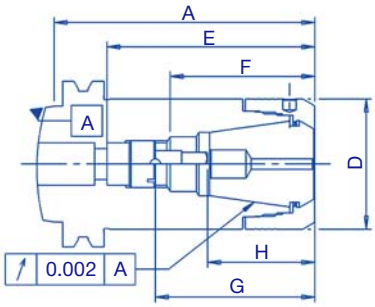


For details of Clamping Nuts and Collets refer to page 16/17

Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP11M-BTB30-A=50	43262000500	30	16	50	68	-	32	18	22	12	15.000	1,0-7,0 4008E-HP• 4008-B	HPC11M
CP11M-BTB30-A=100	43262001000			100			36		26				
CP11M-BTB40-A=100	43264001000	40											
CP11M-BTB40-A=160	43264001600			160									

Version for Standard Clamping Nuts



Stop Screws form U / form W refer to page 16

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP16-BTB30-A=50	44362000500	30	30	50	73	-	45	28	31	16	15.000	1,0-10,0 426E-HP• 426E-B	HPC16• HPC16-DI
CP16-BTB30-A=100	44362001000			100	123								
CP16-BTB40-A=70	44364000700	40		70	108								
CP16-BTB40-A=100	44364001000			100	138								
CP16-BTB40-A=160	44364001600			160	198								
CP16-BTB40-A=200	44364002000			200	238						12.000		
CP25-BTB40-A=55	44564000550	40	40	55	93	-	60	35	42	20	15.000	2,0-16,0 430E-HP• 430E-B	HPC25• HPC25-DI
CP25-BTB40-A=70	44564000700			70	108								
CP25-BTB40-A=100	44564001000			100	111								
CP25-BTB40-A=160	44564001600			160	116								
CP25-BTB40-A=200	44564002000			200	146						12.000		
CP32-BTB40-A=55	44664000550	40	50	55	95	55	70	52	52	26	15.000	2,0-20,0 470E-HP• 470E-B	HPC32• HPC32-DI
CP32-BTB40-A=70	44664000700			70	109								
CP32-BTB40-A=100	44664001000			100	112								
CP32-BTB40-A=160	44664001600			160	117								
CP32-BTB50-A=100	44666001000	50	50	100	150	58	70	53	63	35	12.000		
CP32-BTB50-A=160	44666001600			160	200		90		72				

* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1

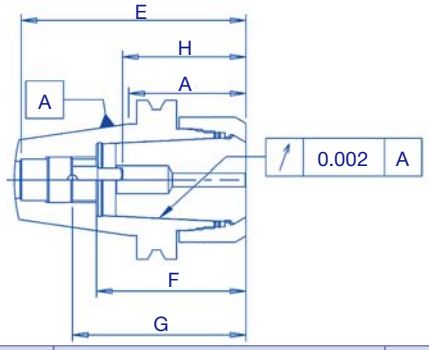
** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Important!

In addition to the Collet Chuck please order the Clamping Nut, Collets, and any other accessories you require using the relevant Order-No. for each item (see ordering example on page 19).

form ADB

Version for Standard Clamping Nuts – The DIN6388 (444E) Collet has improved clamping characteristics and is extremely stable, which makes it the ideal choice for Rough Milling applications (see example of application page 9)



For details of Clamping Nuts and Collets refer to page 16/17

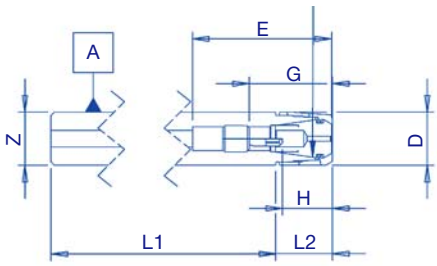
Stop Screws form U / form W refer to page 16/17

Description	Order-No.	SK	D	A*	max. tool insertion depth without stop		Tool insertion depth				Standard Balance Grade G6,3 r.p.m.	Clamping Range/ Collets	Clamping Nuts
					E**	F**	form U		form W				
							G max	G min	H max	H min			
CP225-BTB40-A=48	48564000480	40	50	48	83	49	65	46	47	30	15.000	10,0 • 12,0 • 14,0 • 16,0 • 18,0 • 20,0 444E	HPC225 • HPC225-DI

* dimension A is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1
** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Collet Chucks with **Cylindrical Shanks**

Tool Extensions for Mini Clamping Nuts



For details of Clamping Nuts and Collets refer to page 16

Stop Screws form U / form W refer to page 18

Description	Order-No.	Z	D	L1	L2*	max. tool insertion depth without stop		Tool insertion depth				Clamping Range/ Collets	Clamping Nuts
						E**	F**	form U		form W			
								G max	G min	H max	H min		
CP11M-Z16-L=150	42216001500	16	16	133	17	68	-	36	18	26	12	1,0-7,0 4008E-HP • 4008-B	HPC11M
CP16M-Z16-L=150	42316001500	16	24	117	33	68	-	45	28	31	16	1,0-10,0 426E-HP • 426E-B	HPC16M • HPC16M-DI

* dimension L2 is valid for Clamping Nuts without Seals, for Clamping Nuts with Seals refer to page 16 and see note regarding dimension A1
** dimension E is for tool shanks ≤ 16 mm and dimension F is for tool shanks > 16 mm

Clamping Nuts

Pic. 1 Mini Clamping Nut **Pic. 2 Standard Clamping Nut** **Pic. 3 Tapered Clamping Nut**



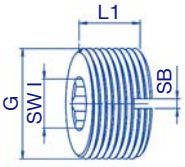
Description	Order-No.	Pic.	D**	A1*	Collets	Version	for collet chuck types
HPC11M	43811	1	16	-	4008E-HP•4008-B	Mini	CP11M•CPC11M
HPC16M	43812	1	24	-	426E-HP•426E-B	Mini	CP16M•CPC16M
HPC16M-DI	43822					Mini for Seals	
HPC16	44812	2	30	-	426E-HP•426E-B	Standard	CP16
HPC16-DI	44822			+4		Standard for Seals	
HPC16C	44832	3	24	-	426E-HP•426E-B	Tapered	CPC16
HPC16C-DI	44842			+4		Tapered for Seals	
HPC25	44814	2	40	-	430E-HP•430E-B	Standard	CP25
HPC25-DI	44824			+4		Standard for Seals	
HPC32	44815	2	50	-	470E-HP•470E-B	Standard	CP32
HPC32-DI	44825			+4		Standard for Seals	
HPC225	48815	2	50	-	444E	Standard	CP225
HPC225-DI	48825			+4		Standard for Seals	

* Clamping Nuts DI for Seals are longer than Standard Nuts (A dimension plus A1)
** D= max. diameter (for HPC16C and HPC16C-DI = nose diameter), L= total length
*** Clamping Nuts DI for Seals on request.

Accessories

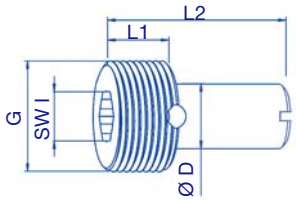
Adjustable Stop Screws – form U

Description	Order-No.	G	SW I	SB	L1	L2	D
AS-CP11-U	44981000100	M8x1	4	1,6	8	-	-
AS-CP16-U	44982000100	M11x1	6				
AS-CP25/32/225-U	44984000100	M18	8	2,5	10		

Adjustable Stop Screws – form W

Description	Order-No.	G	SW I	SB	L1	L2	D
AS-CP11-W	44981000200	M8x1	4	1,2	8	18	4,5
AS-CP16-W	44982000200	M11x1	6			22	7
AS-CP25/32/225-W	44984000200	M18	8	1,6	10	28	10,5

Taper Wipers

Description	Order-No.	for collet chuck types
KW-ER16	22316	CP16
KW-ER25	22325	CP25
KW-ER32	22332	CP32

Flex-Hone® Brushes

Description	Order-No.	Sizes available (Ø to be stated when ordering)
FH-BC 180 SC	24005	6,4•7•8•9•10•11•12•12,7•14•16•18•20•22,2•25,4

Precision Collets DIN6499/ISO15488 (ER/ESX) and DIN6388 (OZ)

Precision Collets DIN6499/ISO15488 (ER/ESX) – form B (for system accuracy ≤ 8 µm)

E-No. Description	Order-No.	⊿	D**	L**	Profile	from-to	steps
® 4008E GER11-B	13000	6µm	11,5	18	●	1,0-7,0	0,5
					●	1/16"•1/8"•3/16"•1/4"	
® 426E GER16-B	13001	6µm	17	27,5	●	1,0-10,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"	
® 430E GER25-B	13003	6µm	26	34	●	2,0-16,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"	
® 470E GER32-B	13004	6µm	33	40	●	2,0-20,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"•3/4"	

Precision Collets DIN6499/ISO15488 (ER/ESX) – form HP (for system accuracy ≤ 5 µm)

E-No. Description	Order-No.	⊿	D**	L**	Profile	from-to	steps
® 4008E GER11-HP	13020	3µm	11,5	18	●	1,0-7,0	0,5
					●	1/16"•1/8"•3/16"•1/4"	
® 426E GER16-HP	13021	3µm	17	27,5	●	1,0-10,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"	
® 430E GER25-HP	13023	3µm	26	34	●	2,0-16,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"	
® 470E GER32-HP	13024	3µm	33	40	●	2,0-20,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"•3/4"	

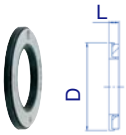
Precision Collets DIN6499/ISO15488 (ER/ESX) with seals – form HP+ (for system accuracy ≤ 5 µm)

E-No. Description	Order-No.	⊿	D**	L**	Profile	from-to	steps
® 426E GER16-HP+	13041	3µm	17	27,5	●	1,0-10,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"	
® 430E GER25-HP+	13043	3µm	26	34	●	2,0-16,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"	
® 470E GER32-HP+	13044	3µm	33	40	●	2,0-20,0	0,5
					●	1/8"•3/16"•1/4"•5/16"•3/8"•7/16"•1/2"•9/16"•5/8"•3/4"	

Precision Collets DIN6388 (OZ) for CP 225 (for system accuracy ≤ 8 µm)

E-No. Description	Order-No.	⊿	D**	L**	Profile	recommended Ø
® 444E	12007	6µm	34,8	52	●	10,0•12,0•14,0•16,0•18,0•20,0

Seals



Description	Order-No.	D	L	Profile	from-to	steps	for clamping nut	for collets
HP16-DI	2430301	12,6	2	●	1,0-10,0	0,5	HPC16M-DI•HPC16-DI• HPC16C-DI	® 426E
				●	1/8"•3/16"•1/4"•5/16"•3/8"			
HP25-DI	2450301	20,2	2	●	2,0-16,0	0,5	HPC25-DI	® 426E
HP32-DI	2460301	26,2	2	●	2,0-20,0	0,5	HPC32-DI•HPC225-DI (only to 20 mm)	® 470E• ® 444E
				●	1/8"•3/16"•1/4"•5/16"•3/8"•1/2"•5/8"•3/4"			

Accessories

Wrenches for Mini Clamping Nuts

Description	Order-No.	for clamping nuts
SCHL-HPC11M/16M	43911	HPC11M•HPC16M•HPC16M-DI

Wrenches for Standard and Tapered Clamping Nuts

Description	Order-No.	for clamping nuts
SCHL-Gr. 25-28B	21424	HPC16C•HPC16C-DI
SCHL-Gr. 30-32B	21425	HPC16•HPC16-DI
SCHL-Gr. 40-42B	21427	HPC25•HPC25-DI
SCHL-Gr. 45-50B	21428	HPC32•HPC32-DI•HPC225•HPC225-DI

Wrenches with Roller Bearing for Standard Clamping Nuts

Description	Order-No.	for clamping nuts
ROSCHL-Gr.30	44922	HPC16•HPC16-DI
ROSCHL-Gr.40	44924	HPC25•HPC25-DI
ROSCHL-Gr.50	44925	HPC32•HPC32-DI• HPC225•HPC225-DI

Torque Setting Wrenches

Description	Order-No.	for use with head type	Torque range
DRMO-10-100	44904	DRSCHL-Gr.25-28-B•DRSCHL-Gr.30-32-B• DRSCHL-Gr.40-42-B•DRROSCHL-Gr.30• DRROSCHL-Gr.40	10-100 Nm
DRMO-20-200	44906	DRSCHL-Gr.45-50-B•DRROSCHL-Gr.50	20-200 Nm

Heads for Torque Setting Wrenches for Standard and Tapered Clamping Nuts

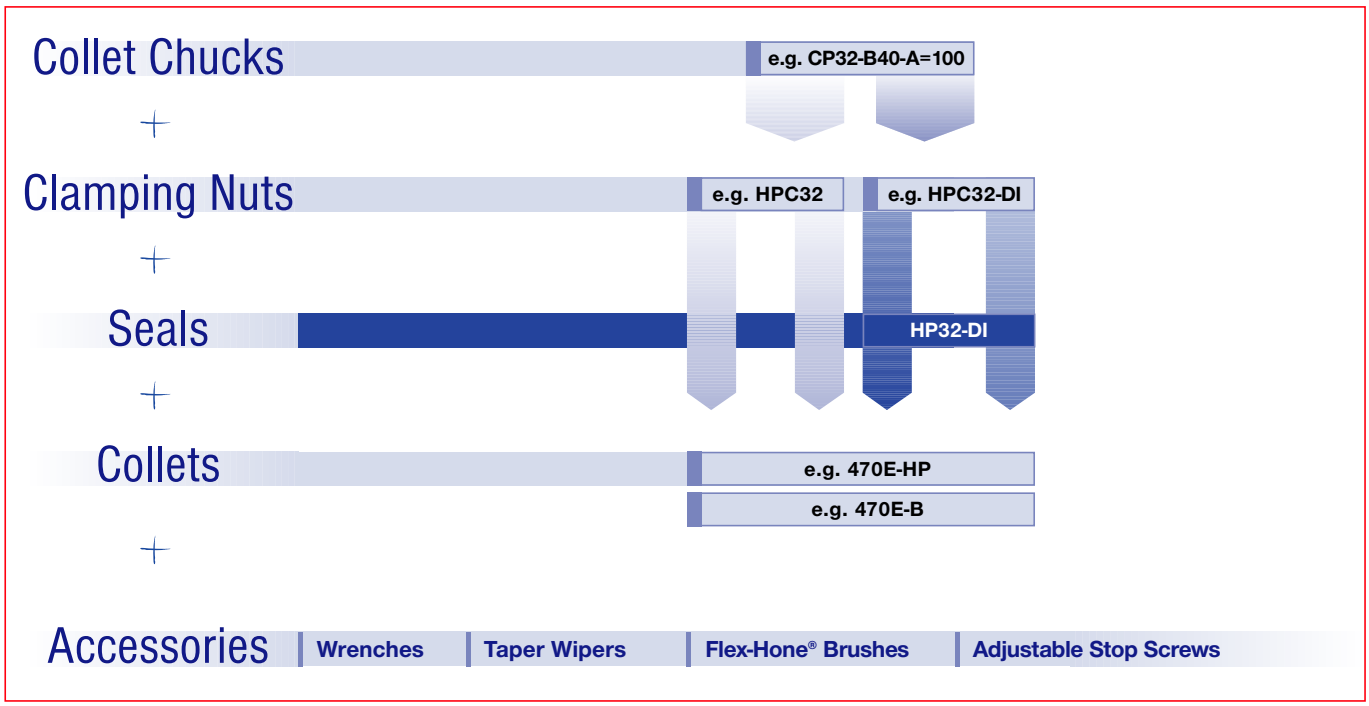
Description	Order-No.	for clamping nuts
DRSCHL-Gr.25-28-B	44911	HPC16C•HPC16C-DI
DRSCHL-Gr.30-32-B	44912	HPC16•HPC16-DI
DRSCHL-Gr.40-42-B	44914	HPC25•HPC25-DI
DRSCHL-Gr.45-50-B	44915	HPC32•HPC32-DI•HPC225•HPC225-DI

Heads with Roller Bearing for Torque Setting Wrenches for Standard Clamping Nuts

Description	Order-No.	for clamping nuts
DRROSCHL-Gr.30	44932	HPC16•HPC16-DI
DRROSCHL-Gr.40	44934	HPC25•HPC25-DI
DRROSCHL-Gr.50	44935	HPC32•HPC32-DI• HPC225•HPC225-DI

Ordering Example

In order to guarantee the highest possible flexibility of the New Collet Chuck **Centro P**, the Collet Chucks, Clamping Nuts, Collets and the accessories MUST be ordered separately.



Please do not hesitate to contact us if you require any execution that is not included in this catalogue.

8 µm
7 µm
6 µm
5 µm
4 µm
3 µm
2 µm

We reserve the right to change the design and specification of any product shown within this catalogue, which does not result in the adverse function of the corresponding tools.

Collet Chucks

Centro P

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