

ACCU-FIX[®]
PRECISION TOOLS PVT. LTD.

**-PRECISION
-ACCURACY
-CONSISTENCY**

WWW.ACCUFIXTOOLS.COM

ABOUT US

PRECISION

ACCURACY

CONSISTENCY



ACCU-FIX is a name synonymous with accuracy and precision. We are the technological leaders in precision collets offering products of international quality and standards. Manufacturing a wide range of tool holding collets with precision and consistency, we also guarantee performance, availability & satisfaction. With state-of-the-art manufacturing facility in Vadodara, raw materials and machines sourced from Europe and our strength of highly experienced workforce, we are striving to set a benchmark and achieve strong foothold in the global market.



OUR TEAM

We believe our workforce is our greatest asset. A greater family of a kind, we believe that fostering this friendly culture would help retention and loyalty towards the company.

The highly trained and experienced manpower comprises of design and process engineers, and production workers, who have a proven track record in Designing, Manufacturing, Quality Assurance, Procuring, Marketing of Products and Services. Our QC department is equipped with modern gauges & measuring instruments and is operated with strict emphasis on Quality Control. The Team is totally dedicated to Customer Satisfaction, Environmental Protection and Waste Elimination through Constant Productivity Improvement.

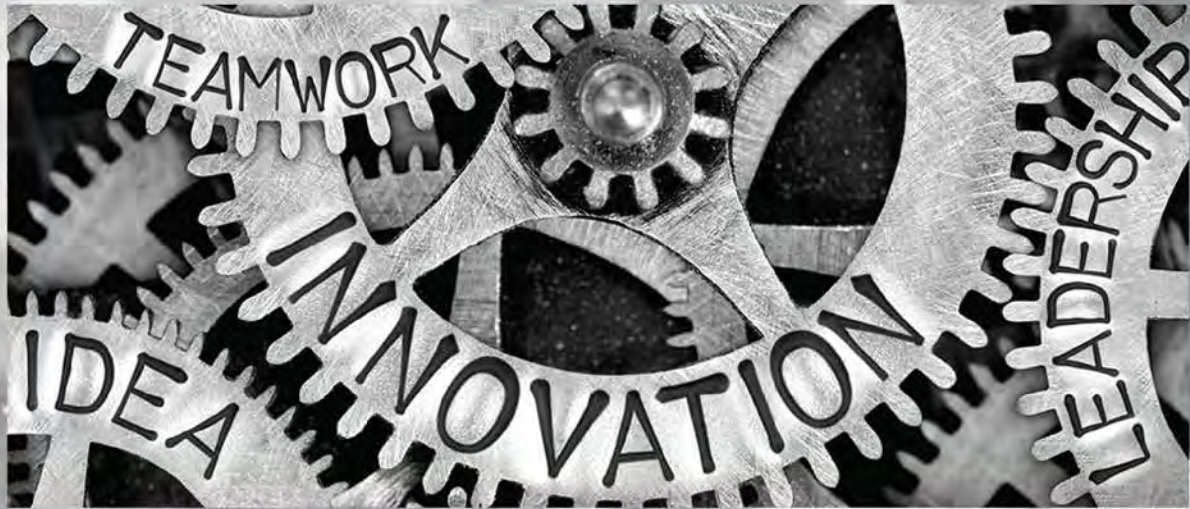
QUALITY ASSURANCE



ACCU-FIX maintains highest levels of precision to provide the best performance of its products. Right from the first stage of raw materials by using best of the steel from European countries to 100% inspection at the final stage, we boast of a stable process and try to achieve Six Sigma.

We use electronic and air gauges and our systems & procedures are at par with international standards. Inspection at each stage is carried out in all the phases of manufacturing process to ensure conformance to dimensional tolerances . We employ 100% inspection of all collets at final phase to ensure that the run out values for each collet is maintained within the acceptable limits. This is followed by a thorough visual check before the collets are sent to finish goods stores.

OUR VISION



ACCU-FIX believes in the philosophy of moving ahead ethically towards success and being updated with new technology to match the steps of global progress.

It is our continuous endeavour to improve on what we make and extend our horizons of quality. We are constantly trying to develop newer methods, making them more efficient and less expensive with minimized wastage, offering an optimized output.

With high-end technology and toolings sourced from Switzerland and other European countries, the company manufactures precision collets of the highest standards. Our structured facility helps us to execute all operations in-house which ensure better accuracy, as we never compromise on Quality & Delivery.

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- ER-SHRINK FIT COLLETS
- ER-TAP COLLETS
- ER-TAP & SEALED COLLETS
- ER-FLOATING TAP COLLETS: WITH AXIAL COMPENSATION
- ER-QUICK CHANGE TAP COLLETS
- DNA (DEAD NUTS ACCURATE / RTX COLLETS
- TAPPING ADAPTERS / COLLETS: QUICK CHANGE
- DA-COLLETS: REGULAR & SEALED
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- TG-TAP COLLETS
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- AF-COLLETS
- STRAIGHT COLLETS FOR MILLING CHUCKS
- COLLETS / REDUCTION SLEEVES FOR HYDRAULIC CHUCKS
- R8-COLLETS
- COLLET SETS



COLLETS

TOOL HOLDING



-ADVANCE
-ASPIRING
-ACCURATE

ER-COLLETS

TECHNICAL INFORMATION:



COLLET RUN-OUT TOLERANCES

TABLE - A SPECIFIES COLLET RUN-OUT TOLERANCES.

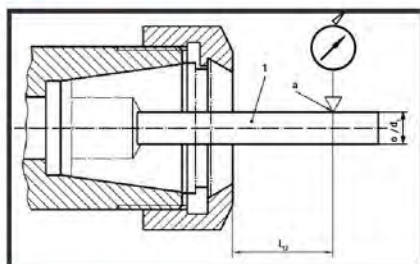
These tolerances are checked as is shown in Figure 4 by the introduction of a test mandrel into the collet.

The diameter of the test mandrel is the nominal diameter of the collet.

For the test mandrel, the following specifications apply:

- a) diameter tolerance: h6;
- b) cylindricity: 0,002 mm;
- c) parallelism: 0,002 mm;
- d) roundness: 0,002 mm;
- e) surface without longitudinal marks;
- f) maximum surface roughness $Rz \leq 4 \mu m$;
- g) surface hardness: (58 $\pm$ 3) HRC.

FIGURE - A



Key

- 1. Test mandrel
- 2. Test point.

Table - A — Collet run-out tolerance values as per ISO15488/DIN6499 standard

d1 H7 Nominal diameter		l12	Run-out tolerance a		
ABOVE	up to (included)		Standard	HP	UP
1(included)	1.6	6	0.015	0.01	0.005
1.6	3	10			
3	6	16			
6	10	25			
10	18	40	0.020	0.015	0.01
18	26	50			

Dimensions in millimetres

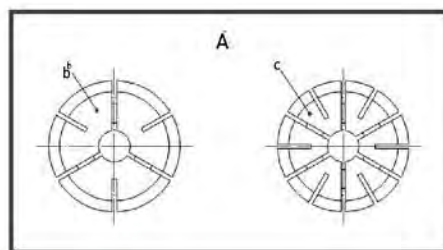
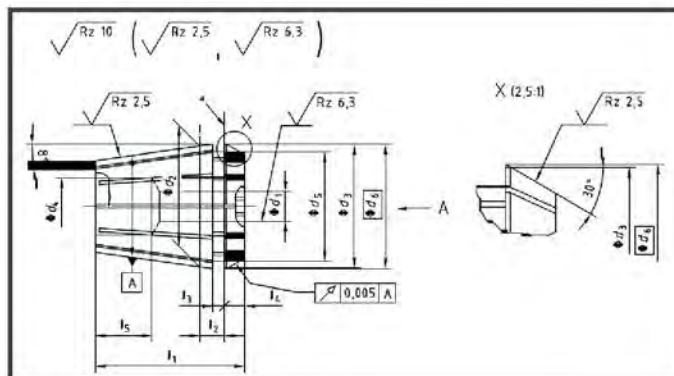
ER-COLLETS



COLLETS (FIGURE & DIMENSION)

Figure B

Tolerances in millimetres, surface roughness in micrometres



- a. Reference area.
- b. Form A, 6 to 8 slots
- c. Form B, 12 to 16 slots

Table B

Nominal size	d ₁				d ₂	d ₃	d ₄		d ₅	d ₆		l ₁	l ₂		l ₃		l ₅		
	H7						0			max.			max.		max.				
	Form A ^a		Form B ^b				0			max.			max.		max.				
	Nominal diameter						Form			Form			Form		Form			Form	
	from (incl.)	up to (incl.)	from (incl.)	up to (incl.)			A	B		A	B		A	B	A	B		A	B
11	1	<3	1	2,5	11	11,3	11,5	5	5	9,5	11,6	11,7	18	2	3,8	2	2	9	
	3	6	3	7				—	—									—	
16	1	<5	1	4	16	16,74	17	7	7,5	13,8	17,1	17,25	27,5	2,3	6,26	2,3	2,7	9	
	5	10	5	10				—	—									—	
20	1	<7	1	6	20	20,74	21	9	10	17,4	21,1	21,3	31,5	2,4	6,36	2,4	2,8	12	
	7	13	7	13				—	—									—	
25	1	<8	2	7	25	25,74	26	10	12	22	26,1	26,3	34	2,5	6,66	2,5	3,1	13	
	8	16	8	16				—	—									—	
32	2	<8	3	7	32	32,74	33	12	15	29,2	33,1	33,35	40	2,7	7,16	2,7	3,6	15	
	8	20	8	20				—	—									—	
40	3	<9	4	8	40	40,74	41	14	20	36,2	41,1	41,4	46	3,5	7,66	3,5	4,1	18	
	9	26	9	26				—	—									—	

^a Form clamping range h10.

^b Clamping range $-0,5^{+0}$.

(Nominal size 16 to 40, clamping range $-0,5^{+0}$ or, upon agreement, $-0,5^{+0}$).

Dimensions in millimetres

ER-COLLETS



HOLDER (FIGURE & DIMENSION)

Figure C

Tolerances in millimetres, surface roughness in micrometres

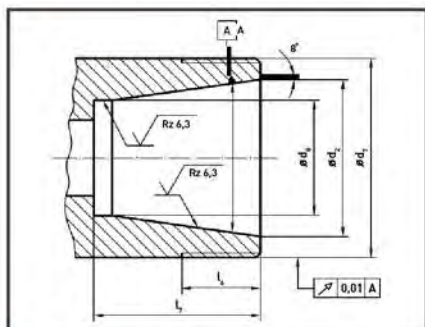


Table C

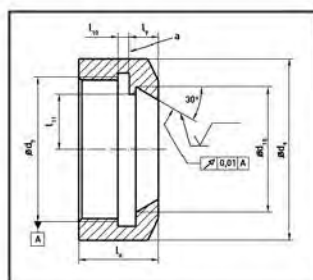
Nominal Size	11	16	20	25	32	40
$d_2 \pm 0,05$	11	16	20	25	32	40
$d_7 \text{ } 6g$	M14 x 0,75	M22 x 1,5	M25 x 1,5	M32 x 1,5	M40 x 1,5	M50 x 1,5
$d_8 + 0,50$	7,5	10,5	13,5	18	23,5	30,5
$l_6 \text{ min.}$	10	13	13,5	14	16	17
$l_7 \text{ min.}$	17	22	26,5	29	34	38
[Form A or B]						



NUT (FIGURE & DIMENSION)

See below Figure and Table

Tolerances in millimetres, surface roughness in micrometres



Nominal Size	d_{6H}	d_7	d_{10}	l_8	l_9	$l_{10} 0-0,2$	$l_{11} \text{ max.}$
11	M14 x 0,75	19	12,1	11,3	3,1	1	5
16	M22 x 1,5	32	17,71	17,5	4,7	1,1	7,2
20	M25 x 1,5	35	21,76	19	5,5	1,2	9,2
25	M32 x 1,5	42	26,64	20	5,7	1,3	11,5
32	M40 x 1,5	50	33,57	22,5	6,2	1,6	14,9
40	M50 x 1,5	63	41,86	25,5	7,7	2,1	18,5

ER-COLLETS

MOUNTING-INSTRUCTIONS

DIN6499 / ISO15488



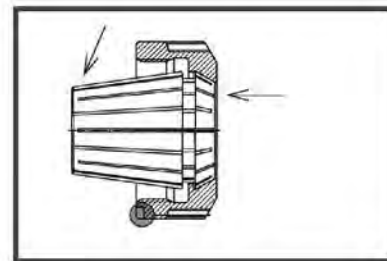
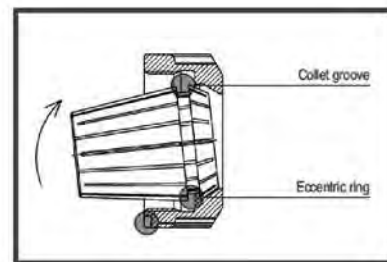
Collets Type ER

Assembling Instructions

Insert groove of collet into eccentric ring of the clamping nut at the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in place. Screw nut with collet onto toolholder. We recommend to tighten the nut with a torque wrench

Disassembly Instructions

After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet opposite the mark until it disengages from the clamping nut.



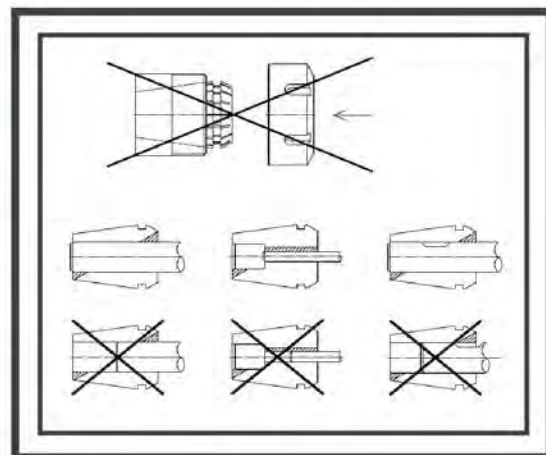
Improper assembly can permanently damage the concentricity of the collet and may result in the destruction of the clamping nut.

Only mount clamping nuts with correctly assembled collets!

Never clamp oversized tool shanks! E.g. never use a $\varnothing$ 12–11 mm collet to clamp a $\varnothing$ 12.2 mm shank. Rather use the next bigger collet (here $\varnothing$ 12.5–11.5 mm or 13–12 mm collet).

Insert tool to the full length of the collet for best results if possible. However never insert the tool less than 2/3 of the collet bore length.

Improper tool insertion can permanently deform the collet and will result in poor runout.



ER-COLLETS

ACCURACY:



STANDARD PRECISION COLLETS

-below 15 micron
-0.00059"



HIGH PRECISION COLLETS

-below 10 micron
-0.00039"

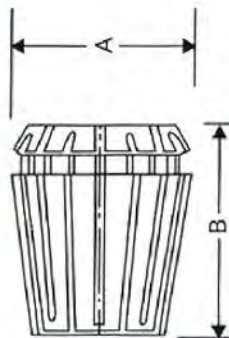


ULTRA PRECISION COLLETS

-below 5 micron
-0.00019"

**Super Polished collets are available

DIMENSIONS:



COLLET SERIES	REFERENCE #	A	B
ER 8	4004E	8.5mm (.335 in)	13.5mm (.531 in)
ER 11	4008E	11.5mm (.453 in)	18mm (.709 in)
ER 16	426E	17mm (.669 in)	27.5mm (1.063 in)
ER 20	428E	21mm (.827 in)	31.5mm (1.220 in)
ER 25	430E	26mm (1.024 in)	34mm (1.378 in)
ER 32	470E	33mm (1.299 in)	40mm (1.575 in)
ER 40	472E	41mm (1.614 in)	46mm (1.811 in)
ER 50	477E	52mm (2.047 in)	60mm (2.362 in)

FEATURES:

01

ACCU-FIX
Precision Collets
are as per
ISO-15488 / DIN
6499 standard

02

Manufactured
with SWISS
Technology

03

Crafted from
high quality
European
Spring steel

04

METRIC & INCH
sizes

05

Fractional Collets
manufactured
specifically for
USA market
requirements

06

16 slot construc-
tion for rigid
clamping and
extra concentricity

07

ACCU-FIX
Collets improve
tool life, part
finish and reduces
spindle wear

08

Can be used for
drilling, milling,
tapping and
reaming

09

Hardness: 44-48
HRC

10

All edges are
not only deburred,
but rounded for
repeatability

ER COLLETS

Inch Size	MM Size	Dec. MM	ER8 4004E	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
1/32		0.79	ER8-1/32	ER11-1/32	ER16-1/32					
	1.0	1.00	ER8-1.0mm	ER11-1.0mm	ER16-1.0mm					
3/64		1.19	ER8-3/64	ER11-3/64	ER16-3/64					
	1.5	1.50	ER8-1.5mm	ER11-1.5mm	ER16-1.5mm					
5/64		1.98	ER8-5/64	ER11-5/64	ER16-5/64					
	2.0	2.00	ER8-2.0mm	ER11-2.0mm	ER16-2.0mm	ER20-2.0mm	ER25-2.0mm			
3/32		2.38	ER8-3/32	ER11-3/32	ER16-3/32	ER20-3/32	ER25-3/32			
	2.5	2.50	ER8-2.5mm	ER11-2.5mm	ER16-2.5mm	ER20-2.5mm	ER25-2.5mm			
7/64		2.78	ER8-7/64	ER11-7/64	ER16-7/64	ER20-7/64	ER25-7/64			
	3.0	3.00	ER8-3.0mm	ER11-3.0mm	ER16-3.0mm	ER20-3.0mm	ER25-3.0mm	ER32-3.0mm	ER40-3.0mm	
1/8		3.18	ER8-1/8	ER11-1/8	ER16-1/8	ER20-1/8	ER25-1/8	ER32-1/8	ER40-1/8	
	3.5	3.50	ER8-3.5mm	ER11-3.5mm	ER16-3.5mm	ER20-3.5mm	ER25-3.5mm	ER32-3.5mm	ER40-3.5mm	
9/64		3.57	ER8-9/64	ER11-9/64	ER16-9/64	ER20-9/64	ER25-9/64	ER32-9/64	ER40-9/64	
5/32		3.97	ER8-5/32	ER11-5/32	ER16-5/32	ER20-5/32	ER25-5/32	ER32-5/32	ER40-5/32	
	4.0	4.00	ER8-4.0mm	ER11-4.0mm	ER16-4.0mm	ER20-4.0mm	ER25-4.0mm	ER32-4.0mm	ER40-4.0mm	
11/64		4.37	ER8-11/64	ER11-11/64	ER16-11/64	ER20-11/64	ER25-11/64	ER32-11/64	ER40-11/64	
	4.5	4.50	ER8-4.5mm	ER11-4.5mm	ER16-4.5mm	ER20-4.5mm	ER25-4.5mm	ER32-4.5mm	ER40-4.5mm	
3/16		4.76	ER8-3/16	ER11-3/16	ER16-3/16	ER20-3/16	ER25-3/16	ER32-3/16	ER40-3/16	
	5.0	5.00	ER8-5.0mm	ER11-5.0mm	ER16-5.0mm	ER20-5.0mm	ER25-5.0mm	ER32-5.0mm	ER40-5.0mm	
13/64		5.16		ER11-13/64	ER16-13/64	ER20-13/64	ER25-13/64	ER32-13/64	ER40-13/64	
	5.5	5.50		ER11-5.5mm	ER16-5.5mm	ER20-5.5mm	ER25-5.5mm	ER32-5.5mm	ER40-5.5mm	
7/32		5.56		ER11-7/32	ER16-7/32	ER20-7/32	ER25-7/32	ER32-7/32	ER40-7/32	
15/64		5.95		ER11-15/64	ER16-15/64	ER20-15/64	ER25-15/64	ER32-15/64	ER40-15/64	
	6.0	6.00		ER11-6.0mm	ER16-6.0mm	ER20-6.0mm	ER25-6.0mm	ER32-6.0mm	ER40-6.0mm	
1/4		6.35		ER11-1/4	ER16-1/4	ER20-1/4	ER25-1/4	ER32-1/4	ER40-1/4	
	6.5	6.50		ER11-6.5mm	ER16-6.5mm	ER20-6.5mm	ER25-6.5mm	ER32-6.5mm	ER40-6.5mm	
17/64		6.75		ER11-17/64	ER16-17/64	ER20-17/64	ER25-17/64	ER32-17/64	ER40-17/64	
	7.0	7.00		ER11-7.0mm	ER16-7.0mm	ER20-7.0mm	ER25-7.0mm	ER32-7.0mm	ER40-7.0mm	
9/32		7.14			ER16-9/32	ER20-9/32	ER25-9/32	ER32-9/32	ER40-9/32	
	7.5	7.50			ER16-7.5mm	ER20-7.5mm	ER25-7.5mm	ER32-7.5mm	ER40-7.5mm	
19/64		7.54			ER16-19/64	ER20-19/64	ER25-19/64	ER32-19/64	ER40-19/64	
5/16		7.94			ER16-5/16	ER20-5/16	ER25-5/16	ER32-5/16	ER40-5/16	
	8.0	8.00			ER16-8.0mm	ER20-8.0mm	ER25-8.0mm	ER32-8.0mm	ER40-8.0mm	
21/64		8.33			ER16-21/64	ER20-21/64	ER25-21/64	ER32-21/64	ER40-21/64	
	8.5	8.50			ER16-8.5mm	ER20-8.5mm	ER25-8.5mm	ER32-8.5mm	ER40-8.5mm	
11/32		8.73			ER16-11/32	ER20-11/32	ER25-11/32	ER32-11/32	ER40-11/32	
	9.0	9.00			ER16-9.0mm	ER20-9.0mm	ER25-9.0mm	ER32-9.0mm	ER40-9.0mm	
23/64		9.13			ER16-23/64	ER20-23/64	ER25-23/64	ER32-23/64	ER40-23/64	
	9.5	9.50			ER16-9.5mm	ER20-9.5mm	ER25-9.5mm	ER32-9.5mm	ER40-9.5mm	
3/8		9.53			ER16-3/8	ER20-3/8	ER25-3/8	ER32-3/8	ER40-3/8	

ER COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER8 4004E	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
25/64	9.92				ER16-25/64	ER20-25/64	ER25-25/64	ER32-25/64	ER40-25/64	
	10.0	10.00			ER16-10mm	ER20-10.0mm	ER25-10.0mm	ER32-10.0mm	ER40-10.0mm	
13/32	10.32					ER20-13/32	ER25-5-13/32	ER32-2-13/32	ER40-0-13/32	
	10.5	10.50				ER20-10.5mm	ER25-10.5mm	ER32-10.5mm	ER40-10.5mm	
27/64	10.72					ER20-27/64	ER25-27/64	ER32-27/64	ER40-27/64	
	11.0	11.00				ER20-11.0mm	ER25-11.0mm	ER32-11.0mm	ER40-11.0mm	
7/16	11.11					ER20-7/16	ER25-7/16	ER32-7/16	ER40-7/16	
	11.5	11.50				ER20-11.5mm	ER25-11.5mm	ER32-11.5mm	ER40-11.5mm	
29/64	11.51					ER20-29/64	ER25-29/64	ER32-29/64	ER40-29/64	
15/32	11.91					ER20-15/32	ER25-15/32	ER32-15/32	ER40-15/32	
	12.0	12.00				ER20-12.0mm	ER25-12.0mm	ER32-12.0mm	ER40-12.0mm	ER50-12.0mm
31/64	12.30					ER20-31/64	ER25-31/64	ER32-31/64	ER40-31/64	ER50-31/64
	12.5	12.50				ER20-12.5mm	ER25-12.5mm	ER32-12.5mm	ER40-12.5mm	ER50-12.5mm
1/2	12.70					ER20-1/2	ER25-1/2	ER32-1/2	ER40-1/2	ER50-1/2
	13.0	13.00				ER20-13.0mm	ER25-13.0mm	ER32-13.0mm	ER40-13.0mm	ER50-13.0mm
33/64	13.10					ER20-5/16	ER25-33/64	ER32-33/64	ER40-33/64	ER50-33/64
17/32	13.49					ER20-8.0mm	ER25-17/32	ER32-17/32	ER40-17/32	ER50-17/32
	13.5	13.50				ER20-21/64	ER25-13.5mm	ER32-13.5mm	ER40-13.5mm	ER50-13.5mm
35/64	13.89					ER20-8.5mm	ER25-35/64	ER32-35/64	ER40-35/64	ER50-35/64
	14.0	14.00				ER20-11/32	ER25-14.0mm	ER32-14.0mm	ER40-14.0mm	ER50-14.0mm
9/16	14.29					ER20-9.0mm	ER25-9/16	ER32-9/16	ER40-9/16	ER50-9/16
	14.5	14.50				ER20-23/64	ER25-14.5mm	ER32-14.5mm	ER40-14.5mm	ER50-14.5mm
37/64	14.68					ER20-9.5mm	ER25-37/64	ER32-37/64	ER40-37/64	ER50-37/64
	15.0	15.00				ER20-3/8	ER25-15.0mm	ER32-15.0mm	ER40-15.0mm	ER50-15.0mm
19/32	15.08						ER25-19/32	ER32-19/32	ER40-19/32	ER50-19/32
39/64	15.48						ER25-39/64	ER32-39/64	ER40-39/64	ER50-39/64
	15.5	15.50					ER25-15.5mm	ER32-15.5mm	ER40-15.5mm	ER50-15.5mm
5/8	15.88						ER25-5/8	ER32-5/8	ER40-5/8	ER50-5/8
	16.0	16.00					ER25-16.0mm	ER32-16.0mm	ER40-16.0mm	ER50-16.0mm
41/64	16.27							ER32-41/64	ER40-41/64	ER50-41/64
	16.5	16.50						ER32-16.5mm	ER40-16.5mm	ER50-16.5mm
21/32	16.67							ER32-21/32	ER40-21/32	ER50-21/32
	17.0	17.00						ER32-17.0mm	ER40-17.0mm	ER50-17.0mm
43/64	17.07							ER32-43/64	ER40-43/64	ER50-43/64
11/16	17.46							ER32-11/16	ER40-11/16	ER50-11/16
	17.5	17.50						ER32-17.5mm	ER40-17.5mm	ER50-17.5mm
45/64	17.86							ER32-45/64	ER40-45/64	ER50-45/64
	18.0	18.00						ER32-18.0mm	ER40-18.0mm	ER50-18.0mm
23/32	18.26							ER32-23/32	ER40-23/32	ER50-23/32

ER COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER8 4004E	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
	19.0	19.00						ER32-19.0mm	ER40-19.0mm	ER50-19.0mm
3/4		19.05						ER32-3/4	ER40-3/4	ER50-3/4
49/64		19.45						ER32-49/64	ER40-49/64	ER50-49/64
	19.5	19.50						ER32-19.5mm	ER40-19.5mm	ER50-19.5mm
25/32		19.84						ER32-25/32	ER40-25/32	ER50-25/32
	20.0	20.00						ER32-20.0mm	ER40-20.0mm	ER50-20.0mm
51/64		20.24						ER32-51/64	ER40-51/64	ER50-51/64
	20.5	20.50						ER32-20.5mm	ER40-20.5mm	ER50-20.5mm
13/16		20.64						ER32-13/16	ER40-13/16	ER50-13/16
	21.0	21.00							ER40-21mm	ER50-21mm
53/64		21.03							ER40-53/64	ER50-53/64
27/32		21.43							ER40-27/32	ER50-27/32
	21.5	21.50							ER40-21.5mm	ER50-21.5mm
55/64		21.83							ER40-55/64	ER50-55/64
	22.0	22.00							ER40-22.0mm	ER50-22.0mm
7/8		22.23							ER40-7/8	ER50-7/8
	22.5	22.50							ER40-22.5mm	ER50-22.5mm
57/64		22.62							ER40-57/64	ER50-57/64
	23.0	23.00							ER40-23.0mm	ER50-23.0mm
29/32		23.02							ER40-29/32	ER50-29/32
59/64		23.42							ER40-59/64	ER50-59/64
	23.5	23.50							ER40-23.5mm	ER50-23.5mm
15/16		23.81							ER40-15/16	ER50-15/16
	24.0	24.00							ER40-24.0mm	ER50-24.0mm
61/64		24.21							ER40-61/64	ER50-61/64
	24.5	24.50							ER40-24.5mm	ER50-24.5mm
31/32		24.61							ER40-31/32	ER50-31/32
	25.0	25.00							ER40-25.0mm	ER50-25.0mm
63/64		25.00							ER40-63/64	ER50-63/64
	25.40								ER40-1	ER50-1
	25.5	25.50							ER40-25.5mm	ER50-25.5mm
	26.0	26.00							ER40-26.0mm	ER50-26.0mm
	27.00	27.00								ER50-27.0mm
	28.00	28.00								ER50-28.0mm
	29.00	29.00								ER50-29.0mm
	30.00	30.00								ER50-30.0mm
	31.00	31.00								ER50-31.0mm
	32.00	32.00								ER50-32.0mm
	33.00	33.00								ER50-33.0mm
	34.00	34.00								ER50-34.0mm

ER-SILICON SEALED COLLETS

ACCURACY:



STANDARD PRECISION COLLETS

-below 15 micron
-0.00059"



HIGH PRECISION COLLETS

-below 10 micron
-0.00039"

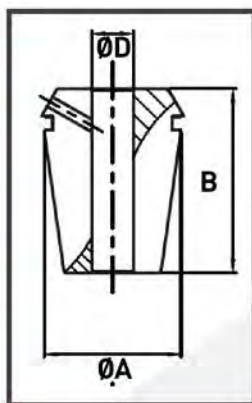


ULTRA PRECISION COLLETS

-below 5 micron
-0.00019"

**Super Polished collets are available

DIMENSIONS:



COLLET SERIES	REFERENCE #	A	B
ER11 Sealed	4008E NC	11.3mm (0.444")	18mm (0.709")
ER16 Sealed	426E NC	16.74mm (0.659")	27.5mm (1.063")
ER20 Sealed	428E NC	20.74mm (0.817")	31.5mm (1.220")
ER25 Sealed	430E NC	25.74mm (1.013")	34mm (1.378")
ER32 Sealed	470E NC	32.74mm (1.289")	40mm (1.575")
ER40 Sealed	472E NC	40.74mm (1.604")	46mm (1.811")
ER50 Sealed	477E NC	51.5mm (2.027")	60mm (2.362")

FEATURES:

01

ER 11 through
ER 50

02

ER coolant collets are
designed for use with
shank tools with no flats.

03

Use of coolant collets
with tools that are not
cylindrical will result in
coolant leakage.

04

Sealed to 100
BAR / 1500 PSI

05

Only nominal size
can be clamped

06

High precision & Ultra
Precision Sealed Collets
are also available

ER-SILICON SEALED COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER11 4008E NC	ER16 426E NC	ER20 428E NC	ER25 430E NC	ER32 470E NC	ER40 472E NC	ER50 477E NC
	3.0	3.00	ERC11-3.0mm	ERC16-3.0mm	ERC20-3.0mm	ERC25-3.0mm	ERC32-3.0mm	ERC40-3.0mm	
1/8		3.18	ERC11-1/8	ERC16-1/8	ERC20-1/8	ERC25-1/8	ERC32-1/8	ERC40-1/8	
	3.5	3.50	ERC11-3.5mm	ERC16-3.5mm	ERC20-3.5mm	ERC25-3.5mm	ERC32-3.5mm	ERC40-3.5mm	
9/64		3.57	ERC11-9/64	ERC16-9/64	ERC20-9/64	ERC25-9/64	ERC32-9/64	ERC40-9/64	
5/32		3.97	ERC11-5/32	ERC16-5/32	ERC20-5/32	ERC25-5/32	ERC32-5/32	ERC40-5/32	
	4.0	4.00	ERC11-4.0mm	ERC16-4.0mm	ERC20-4.0mm	ERC25-4.0mm	ERC32-4.0mm	ERC40-4.0mm	
11/64		4.37	ERC11-11/64	ERC16-11/64	ERC20-11/64	ERC25-11/64	ERC32-11/64	ERC40-11/64	
	4.5	4.50	ERC11-4.5mm	ERC16-4.5mm	ERC20-4.5mm	ERC25-4.5mm	ERC32-4.5mm	ERC40-4.5mm	
3/16		4.76	ERC11-3/16	ERC16-3/16	ERC20-3/16	ERC25-3/16	ERC32-3/16	ERC40-3/16	
	5.0	5.00	ERC11-5.0mm	ERC16-5.0mm	ERC20-5.0mm	ERC25-5.0mm	ERC32-5.0mm	ERC40-5.0mm	
13/64		5.16	ERC11-13/64	ERC16-13/64	ERC20-13/64	ERC25-13/64	ERC32-13/64	ERC40-13/64	
	5.5	5.50	ERC11-5.5mm	ERC16-5.5mm	ERC20-5.5mm	ERC25-5.5mm	ERC32-5.5mm	ERC40-5.5mm	
7/32		5.56	ERC11-7/32	ERC16-7/32	ERC20-7/32	ERC25-7/32	ERC32-7/32	ERC40-7/32	
15/64		5.95	ERC11-15/64	ERC16-15/64	ERC20-15/64	ERC25-15/64	ERC32-15/64	ERC40-15/64	
	6.0	6.00	ERC11-6.0mm	ERC16-6.0mm	ERC20-6.0mm	ERC25-6.0mm	ERC32-6.0mm	ERC40-6.0mm	
1/4		6.35	ERC11-1/4	ERC16-1/4	ERC20-1/4	ERC25-1/4	ERC32-1/4	ERC40-1/4	
	6.5	6.50	ERC11-6.5mm	ERC16-6.5mm	ERC20-6.5mm	ERC25-6.5mm	ERC32-6.5mm	ERC40-6.5mm	
17/64		6.75	ERC11-17/64	ERC16-17/64	ERC20-17/64	ERC25-17/64	ERC32-17/64	ERC40-17/64	
	7.0	7.00	ERC11-7.0mm	ERC16-7.0mm	ERC20-7.0mm	ERC25-7.0mm	ERC32-7.0mm	ERC40-7.0mm	
9/32		7.14		ERC16-9/32	ERC20-9/32	ERC25-9/32	ERC32-9/32	ERC40-9/32	
	7.5	7.50		ERC16-7.5mm	ERC20-7.5mm	ERC25-7.5mm	ERC32-7.5mm	ERC40-7.5mm	
19/64		7.54		ERC16-19/64	ERC20-19/64	ERC25-19/64	ERC32-19/64	ERC40-19/64	
5/16		7.94		ERC16-5/16	ERC20-5/16	ERC25-5/16	ERC32-5/16	ERC40-5/16	
	8.0	8.00		ERC16-8.0mm	ERC20-8.0mm	ERC25-8.0mm	ERC32-8.0mm	ERC40-8.0mm	
21/64		8.33		ERC16-21/64	ERC20-21/64	ERC25-21/64	ERC32-21/64	ERC40-21/64	
	8.5	8.50		ERC16-8.5mm	ERC20-8.5mm	ERC25-8.5mm	ERC32-8.5mm	ERC40-8.5mm	
11/32		8.73		ERC16-11/32	ERC20-11/32	ERC25-11/32	ERC32-11/32	ERC40-11/32	
	9.0	9.00		ERC16-9.0mm	ERC20-9.0mm	ERC25-9.0mm	ERC32-9.0mm	ERC40-9.0mm	
23/64		9.13		ERC16-23/64	ERC20-23/64	ERC25-23/64	ERC32-23/64	ERC40-23/64	
	9.5	9.50		ERC16-9.5mm	ERC20-9.5mm	ERC25-9.5mm	ERC32-9.5mm	ERC40-9.5mm	
3/8		9.53		ERC16-3/8	ERC20-3/8	ERC25-3/8	ERC32-3/8	ERC40-3/8	
25/64		9.92		ERC16-25/64	ERC20-25/64	ERC25-25/64	ERC32-25/64	ERC40-25/64	
	10.0	10.00		ERC16-10.0mm	ERC20-10.0mm	ERC25-10.0mm	ERC32-10.0mm	ERC40-10.0mm	
13/32		10.32			ERC20-15/32	ERC25-5-13/32	ERC32-2-13/32	ERC40-0-13/32	
	10.5	10.50			ERC20-12.0mm	ERC25-10.5mm	ERC32-10.5mm	ERC40-10.5mm	
27/64		10.72			ERC20-31/64	ERC25-27/64	ERC32-27/64	ERC40-27/64	
	11.0	11.00			ERC20-12.5mm	ERC25-11.0mm	ERC32-11.0mm	ERC40-11.0mm	
7/16		11.11			ERC20-1/2	ERC25-7/16	ERC32-7/16	ERC40-7/16	
	11.5	11.50			ERC20-13.0mm	ERC25-11.5mm	ERC32-11.5mm	ERC40-11.5mm	
29/64		11.51				ERC25-29/64	ERC32-29/64	ERC40-29/64	

ER-SILICON SEALED COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER11 4008E NC	ER16 426E NC	ER20 428E NC	ER25 430E NC	ER32 470E NC	ER40 472E NC	ER50 477E NC
15/32	11.91					ERC25-15/32	ERC32-15/32	ERC40-15/32	
	12.0	12.00				ERC25-12.0mm	ERC32-12.0mm	ERC40-12.0mm	ERC50-12.0mm
31/64	12.30					ERC25-31/64	ERC32-31/64	ERC40-31/64	ERC50-31/64
	12.5	12.50				ERC25-12.5mm	ERC32-12.5mm	ERC40-12.5mm	ERC50-12.5mm
1/2	12.70					ERC25-1/2	ERC32-1/2	ERC40-1/2	ERC50-1/2
	13.0	13.00				ERC25-13.0mm	ERC32-13.0mm	ERC40-13.0mm	ERC50-13.0mm
33/64	13.10					ERC25-33/64	ERC32-33/64	ERC40-33/64	ERC50-33/64
17/32	13.49					ERC25-17/32	ERC32-17/32	ERC40-17/32	ERC50-17/32
	13.5	13.50				ERC25-13.5mm	ERC32-13.5mm	ERC40-13.5mm	ERC50-13.5mm
35/64	13.89					ERC25-35/64	ERC32-35/64	ERC40-35/64	ERC50-35/64
	14.0	14.00				ERC25-14.0mm	ERC32-14.0mm	ERC40-14.0mm	ERC50-14.0mm
9/16	14.29					ERC25-9/16	ERC32-9/16	ERC40-9/16	ERC50-9/16
	14.5	14.50				ERC25-14.5mm	ERC32-14.5mm	ERC40-14.5mm	ERC50-14.5mm
37/64	14.68					ERC25-37/64	ERC32-37/64	ERC40-37/64	ERC50-37/64
	15.0	15.00				ERC25-15.0mm	ERC32-15.0mm	ERC40-15.0mm	ERC50-15.0mm
19/32	15.08					ERC25-19/32	ERC32-19/32	ERC40-19/32	ERC50-19/32
39/64	15.48					ERC25-39/64	ERC32-39/64	ERC40-39/64	ERC50-39/64
	15.5	15.50				ERC25-15.5mm	ERC32-15.5mm	ERC40-15.5mm	ERC50-15.5mm
5/8	15.88					ERC25-5/8	ERC32-5/8	ERC40-5/8	ERC50-5/8
	16.0	16.00				ERC25-16.0mm	ERC32-16.0mm	ERC40-16.0mm	ERC50-16.0mm
41/64	16.27						ERC32-41/64	ERC40-41/64	ERC50-41/64
	16.5	16.50					ERC32-16.5mm	ERC40-16.5mm	ERC50-16.5mm
21/32	16.67						ERC32-21/32	ERC40-21/32	ERC50-21/32
	17.0	17.00					ERC32-17.0mm	ERC40-17.0mm	ERC50-17.0mm
43/64	17.07						ERC32-43/64	ERC40-43/64	ERC50-43/64
11/16	17.46						ERC32-11/16	ERC40-11/16	ERC50-11/16
	17.5	17.50					ERC32-17.5mm	ERC40-17.5mm	ERC50-17.5mm
45/64	17.86						ERC32-45/64	ERC40-45/64	ERC50-45/64
	18.0	18.00					ERC32-18.0mm	ERC40-18.0mm	ERC50-18.0mm
23/32	18.26						ERC32-23/32	ERC40-23/32	ERC50-23/32
	18.5	18.50					ERC32-18.5mm	ERC40-18.5mm	ERC50-18.5mm
47/64	18.65						ERC32-47/64	ERC40-47/64	ERC50-47/64
	19.0	19.00					ERC32-19.0mm	ERC40-19.0mm	ERC50-19.0mm
3/4	19.05						ERC32-3/4	ERC40-3/4	ERC50-3/4
49/64	19.45						ERC32-49/64	ERC40-49/64	ERC50-49/64
	19.5	19.50					ERC32-19.5mm	ERC40-19.5mm	ERC50-19.5mm
25/32	19.84						ERC32-25/32	ERC40-25/32	ERC50-25/32
	20.0	20.00					ERC32-20.0mm	ERC40-20.0mm	ERC50-20.0mm
51/64	20.24						ERC32-51/64	ERC40-51/64	ERC50-51/64

ER-SILICON SEALED COLLETS

INCH SIZE	MM Size	DEC. MM	ER11 4008E NC	ER16 426E NC	ER20 428E NC	ER25 430E NC	ER32 470E NC	ER40 472E NC	ER50 477E NC
	20.5	20.50					ERC32-20.5mm	ERC40-20.5mm	ERC50-20.5mm
13/16		20.64					ERC32-13/16	ERC40-13/16	ERC50-13/16
	21.0	21.00						ERC40-21mm	ERC50-21mm
53/64		21.03						ERC40-53/64	ERC50-53/64
27/32		21.43						ERC40-27/32	ERC50-27/32
	21.5	21.50						ERC40-21.5mm	ERC50-21.5mm
55/64		21.83						ERC40-55/64	ERC50-55/64
	22.0	22.00						ERC40-22.0mm	ERC50-22.0mm
7/8		22.23						ERC40-7/8	ERC50-7/8
	22.5	22.50						ERC40-22.5mm	ERC50-22.5mm
57/64		22.62						ERC40-57/64	ERC50-57/64
	23.0	23.00						ERC40-23.0mm	ERC50-23.0mm
29/32		23.02						ERC40-29/32	ERC50-29/32
59/64		23.42						ERC40-59/64	ERC50-59/64
	23.5	23.50						ERC40-23.5mm	ERC50-23.5mm
15/16		23.81						ERC40-15/16	ERC50-15/16
	24.0	24.00						ERC40-24.0mm	ERC50-24.0mm
61/64		24.21						ERC40-61/64	ERC50-61/64
	24.5	24.50						ERC40-24.5mm	ERC50-24.5mm
31/32		24.61						ERC40-31/32	ERC50-31/32
	25.0	25.00						ERC40-25.0mm	ERC50-25.0mm
63/64		25.00						ERC40-63/64	ERC50-63/64
1		25.40						ERC40-1	ERC50-1
	25.5	25.50						ERC40-25.5mm	ERC50-25.5mm
	26.0	26.00						ERC40-26.0mm	ERC50-26.0mm
	27.00	27.00							ERC50-27.0mm
	28.00	28.00							ERC50-28.0mm
	29.00	29.00							ERC50-29.0mm
	30.00	30.00							ERC50-30.0mm
	31.00	31.00							ERC50-31.0mm
	32.00	32.00							ERC50-32.0mm
	33.00	33.00							ERC50-33.0mm
	34.00	34.00							ERC50-34.0mm

ER-STEEL SEALED COLLETS

ACCURACY:



STANDARD PRECISION COLLETS

-below 15 micron
-0.00059"



HIGH PRECISION COLLETS

-below 10 micron
-0.00039"

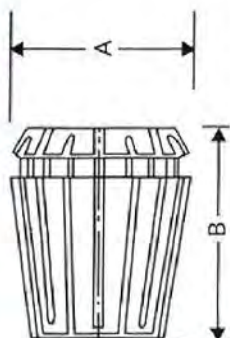


ULTRA PRECISION COLLETS

-below 5 micron
-0.00019"

****Super Polished collets are available**

DIMENSIONS:



COLLET SERIES	REFERENCE #	A	B
ER11 Sealed	4008E SS	11.3mm (0.444")	18mm (0.709")
ER16 Sealed	426E SS	16.74mm (0.659")	27.5mm (1.063")
ER20 Sealed	428E SS	20.74mm (0.817")	31.5mm (1.220")
ER25 Sealed	430E SS	25.74mm (1.013")	34mm (1.378")
ER32 Sealed	470E SS	32.74mm (1.289")	40mm (1.575")
ER40 Sealed	472E SS	40.74mm (1.604")	46mm (1.811")
ER50 Sealed	477E SS	51.5mm (2.027")	60mm (2.362")

FEATURES:

01

ER 11 through ER 40

02

ER coolant collets are designed for use with shank tools with no flats.

03

Use of coolant collets with tools that are not cylindrical will result in coolant leakage.

04

Sealed to 138 BAR / 2000 PSI

05

Only nominal size can be clamped

06

High Precision & Ultra Precision Sealed Collets are also available

ER-STEEL

SEALED COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
1/8	3.0	3.00	ERSS11-3.0mm	ERSS16-3.0mm	ERSS20-3.0mm	ERSS20-3.0mm	ERSS25-3.0mm	ERSS32-3.0mm	
		3.18	ERSS11-1/8	ERSS16-1/8	ERSS20-1/8	ERSS20-1/8	ERSS25-1/8	ERSS32-1/8	
9/64	3.5	3.50	ERSS11-3.5mm	ERSS16-3.5mm	ERSS20-3.5mm	ERSS20-3.5mm	ERSS25-3.5mm	ERSS32-3.5mm	
		3.57	ERSS11-9/64	ERSS16-9/64	ERSS20-9/64	ERSS20-9/64	ERSS25-9/64	ERSS32-9/64	
5/32	4.0	3.97	ERSS11-5/32	ERSS16-5/32	ERSS20-5/32	ERSS20-5/32	ERSS25-5/32	ERSS32-5/32	
		4.00	ERSS11-4.0mm	ERSS16-4.0mm	ERSS20-4.0mm	ERSS20-4.0mm	ERSS25-4.0mm	ERSS32-4.0mm	
11/64	4.5	4.37	ERSS11-11/64	ERSS16-11/64	ERSS20-11/64	ERSS20-11/64	ERSS25-11/64	ERSS32-11/64	
		4.50	ERSS11-4.5mm	ERSS16-4.5mm	ERSS20-4.5mm	ERSS20-4.5mm	ERSS25-4.5mm	ERSS32-4.5mm	
3/16	5.0	4.76	ERSS11-3/16	ERSS16-3/16	ERSS20-3/16	ERSS20-3/16	ERSS25-3/16	ERSS32-3/16	
		5.00	ERSS11-5.0mm	ERSS16-5.0mm	ERSS20-5.0mm	ERSS20-5.0mm	ERSS25-5.0mm	ERSS32-5.0mm	
13/64	5.5	5.16	ERSS11-13/64	ERSS16-13/64	ERSS20-13/64	ERSS20-13/64	ERSS25-13/64	ERSS32-13/64	
		5.50	ERSS11-5.5mm	ERSS16-5.5mm	ERSS20-5.5mm	ERSS20-5.5mm	ERSS25-5.5mm	ERSS32-5.5mm	
7/32	6.0	5.56	ERSS11-7/32	ERSS16-7/32	ERSS20-7/32	ERSS20-7/32	ERSS25-7/32	ERSS32-7/32	
		5.95	ERSS11-15/64	ERSS16-15/64	ERSS20-15/64	ERSS20-15/64	ERSS25-15/64	ERSS32-15/64	
15/64	6.5	6.00	ERSS11-6.0mm	ERSS16-6.0mm	ERSS20-6.0mm	ERSS20-6.0mm	ERSS25-6.0mm	ERSS32-6.0mm	
		6.35	ERSS11-1/4	ERSS16-1/4	ERSS20-1/4	ERSS20-1/4	ERSS25-1/4	ERSS32-1/4	
1/4	7.0	6.50	ERSS11-6.5mm	ERSS16-6.5mm	ERSS20-6.5mm	ERSS20-6.5mm	ERSS25-6.5mm	ERSS32-6.5mm	
		6.75	ERSS11-17/64	ERSS16-17/64	ERSS20-17/64	ERSS20-17/64	ERSS25-17/64	ERSS32-17/64	
9/32	7.5	7.00	ERSS11-7.0mm	ERSS16-7.0mm	ERSS20-7.0mm	ERSS20-7.0mm	ERSS25-7.0mm	ERSS32-7.0mm	
		7.14		ERSS16-9/32	ERSS20-9/32	ERSS20-9/32	ERSS25-9/32	ERSS32-9/32	
19/64	8.0	7.50		ERSS16-7.5mm	ERSS20-7.5mm	ERSS20-7.5mm	ERSS25-7.5mm	ERSS32-7.5mm	
		7.54		ERSS16-19/64	ERSS20-19/64	ERSS20-19/64	ERSS25-19/64	ERSS32-19/64	
5/16	8.5	7.94		ERSS16-5/16	ERSS20-5/16	ERSS20-5/16	ERSS25-5/16	ERSS32-5/16	
		8.00		ERSS16-8.0mm	ERSS20-8.0mm	ERSS20-8.0mm	ERSS25-8.0mm	ERSS32-8.0mm	
21/64	9.0	8.33		ERSS16-21/64	ERSS20-21/64	ERSS20-21/64	ERSS25-21/64	ERSS32-21/64	
		8.50		ERSS16-8.5mm	ERSS20-8.5mm	ERSS20-8.5mm	ERSS25-8.5mm	ERSS32-8.5mm	
11/32	9.5	8.73		ERSS16-11/32	ERSS20-11/32	ERSS20-11/32	ERSS25-11/32	ERSS32-11/32	
		9.00		ERSS16-9.0mm	ERSS20-9.0mm	ERSS20-9.0mm	ERSS25-9.0mm	ERSS32-9.0mm	
23/64	10.0	9.13		ERSS16-23/64	ERSS20-23/64	ERSS20-23/64	ERSS25-23/64	ERSS32-23/64	
		9.50		ERSS16-9.5mm	ERSS20-9.5mm	ERSS20-9.5mm	ERSS25-9.5mm	ERSS32-9.5mm	
3/8	10.5	9.53		ERSS16-3/8	ERSS20-3/8	ERSS20-3/8	ERSS25-3/8	ERSS32-3/8	
		9.92		ERSS16-25/64	ERSS20-25/64	ERSS20-25/64	ERSS25-25/64	ERSS32-25/64	
25/64	11.0	10.00		ERSS16-10.0mm	ERSS20-10.0mm	ERSS20-10.0mm	ERSS25-10.0mm	ERSS32-10.0mm	
		10.32			ERSS20-13/32	ERSS20-13/32	ERSS25-5-13/32	ERSS32-2-13/32	
13/32	10.5	10.50			ERSS20-10.5mm	ERSS20-10.5mm	ERSS25-10.5mm	ERSS32-10.5mm	
		10.72			ERSS20-27/64	ERSS20-27/64	ERSS25-27/64	ERSS32-27/64	
27/64	11.0	11.00			ERSS20-11.0mm	ERSS20-11.0mm	ERSS25-11.0mm	ERSS32-11.0mm	
		11.11			ERSS20-7/16	ERSS20-7/16	ERSS25-7/16	ERSS32-7/16	
7/16	11.5	11.50			ERSS20-11.5mm	ERSS20-11.5mm	ERSS25-11.5mm	ERSS32-11.5mm	
		11.51			ERSS20-29/64	ERSS20-29/64	ERSS25-29/64	ERSS32-29/64	
29/64									

ER-STEEL

SEALED COLLETS

INCH SIZE	MM SIZE	DEC. MM	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
15/32	11.91				ERSS20-15/32	ERSS25-15/32	ERSS32-15/32	ERSS40-15/32	
	12.0	12.00			ERSS20-12.0mm	ERSS25-12.0mm	ERSS32-12.0mm	ERSS40-12.0mm	ERSS50-12.0mm
31/64	12.30				ERSS20-31/64	ERSS25-31/64	ERSS32-31/64	ERSS40-31/64	ERSS50-31/64
	12.5	12.50			ERSS20-12.5mm	ERSS25-12.5mm	ERSS32-12.5mm	ERSS40-12.5mm	ERSS50-12.5mm
1/2	12.70				ERSS20-1/2	ERSS25-1/2	ERSS32-1/2	ERSS40-1/2	ERSS50-1/2
	13.0	13.00			ERSS20-13.0mm	ERSS25-13.0mm	ERSS32-13.0mm	ERSS40-13.0mm	ERSS50-13.0mm
33/64	13.10					ERSS25-33/64	ERSS32-33/64	ERSS40-33/64	ERSS50-33/64
17/32	13.49					ERSS25-17/32	ERSS32-17/32	ERSS40-17/32	ERSS50-17/32
	13.5	13.50				ERSS25-13.5mm	ERSS32-13.5mm	ERSS40-13.5mm	ERSS50-13.5mm
35/64	13.89					ERSS25-35/64	ERSS32-35/64	ERSS40-35/64	ERSS50-35/64
	14.0	14.00				ERSS25-14.0mm	ERSS32-14.0mm	ERSS40-14.0mm	ERSS50-14.0mm
9/16	14.29					ERSS25-9/16	ERSS32-9/16	ERSS40-9/16	ERSS50-9/16
	14.5	14.50				ERSS25-14.5mm	ERSS32-14.5mm	ERSS40-14.5mm	ERSS50-14.5mm
37/64	14.68					ERSS25-37/64	ERSS32-37/64	ERSS40-37/64	ERSS50-37/64
	15.0	15.00				ERSS25-15.0mm	ERSS32-15.0mm	ERSS40-15.0mm	ERSS50-15.0mm
19/32	15.08					ERSS25-19/32	ERSS32-19/32	ERSS40-19/32	ERSS50-19/32
39/64	15.48					ERSS25-39/64	ERSS32-39/64	ERSS40-39/64	ERSS50-39/64
	15.5	15.50				ERSS25-15.5mm	ERSS32-15.5mm	ERSS40-15.5mm	ERSS50-15.5mm
5/8	15.88					ERSS25-5/8	ERSS32-5/8	ERSS40-5/8	ERSS50-5/8
	16.0	16.00				ERSS25-16.0mm	ERSS32-16.0mm	ERSS40-16.0mm	ERSS50-16.0mm
41/64	16.27						ERSS32-41/64	ERSS40-41/64	ERSS50-41/64
	16.5	16.50					ERSS32-16.5mm	ERSS40-16.5mm	ERSS50-16.5mm
21/32	16.67						ERSS32-21/32	ERSS40-21/32	ERSS50-21/32
	17.0	17.00					ERSS32-17.0mm	ERSS40-17.0mm	ERSS50-17.0mm
43/64	17.07						ERSS32-43/64	ERSS40-43/64	ERSS50-43/64
11/16	17.46						ERSS32-11/16	ERSS40-11/16	ERSS50-11/16
	17.5	17.50					ERSS32-17.5mm	ERSS40-17.5mm	ERSS50-17.5mm
45/64	17.86						ERSS32-45/64	ERSS40-45/64	ERSS50-45/64
	18.0	18.00					ERSS32-18.0mm	ERSS40-18.0mm	ERSS50-18.0mm
23/32	18.26						ERSS32-23/32	ERSS40-23/32	ERSS50-23/32
	18.5	18.50					ERSS32-18.5mm	ERSS40-18.5mm	ERSS50-18.5mm
47/64	18.65						ERSS32-47/64	ERSS40-47/64	ERSS50-47/64
	19.0	19.00					ERSS32-19.0mm	ERSS40-19.0mm	ERSS50-19.0mm
3/4	19.05						ERSS32-3/4	ERSS40-3/4	ERSS50-3/4
49/64	19.45						ERSS32-49/64	ERSS40-49/64	ERSS50-49/64
	19.5	19.50					ERSS32-19.5mm	ERSS40-19.5mm	ERSS50-19.5mm
25/32	19.84						ERSS32-25/32	ERSS40-25/32	ERSS50-25/32
	20.0	20.00					ERSS32-20.0mm	ERSS40-20.0mm	ERSS50-20.0mm
51/64	20.24						ERSS32-51/64	ERSS40-51/64	ERSS50-51/64

ER-STEEL

SEALED COLLETS

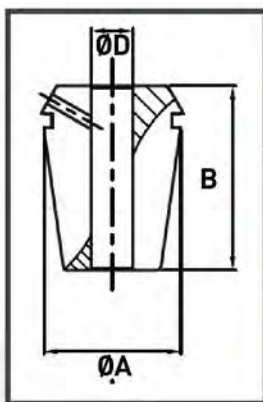
INCH SIZE	MM SIZE	DEC. MM	ER11 4008E	ER16 426E	ER20 428E	ER25 430E	ER32 470E	ER40 472E	ER50 477E
	20.5	20.50					ERSS32-20.5mm	ERSS40-20.5mm	ERSS50-20.5mm
13/16		20.64					ERSS32-13/16	ERSS40-13/16	ERSS50-13/16
	21.0	21.00						ERSS40-21mm	ERSS50-21mm
53/64		21.03						ERSS40-53/64	ERSS50-53/64
27/32		21.43						ERSS40-27/32	ERSS50-27/32
	21.5	21.50						ERSS40-21.5mm	ERSS50-21.5mm
55/64		21.83						ERSS40-55/64	ERSS50-55/64
	22.0	22.00						ERSS40-22.0mm	ERSS50-22.0mm
7/8		22.23						ERSS40-7/8	ERSS50-7/8
	22.5	22.50						ERSS40-22.5mm	ERSS50-22.5mm
57/64		22.62						ERSS40-57/64	ERSS50-57/64
	23.0	23.00						ERSS40-23.0mm	ERSS50-23.0mm
29/32		23.02						ERSS40-29/32	ERSS50-29/32
59/64		23.42						ERSS40-59/64	ERSS50-59/64
	23.5	23.50						ERSS40-23.5mm	ERSS50-23.5mm
15/16		23.81						ERSS40-15/16	ERSS50-15/16
	24.0	24.00						ERSS40-24.0mm	ERSS50-24.0mm
61/64		24.21						ERSS40-61/64	ERSS50-61/64
	24.5	24.50						ERSS40-24.5mm	ERSS50-24.5mm
31/32		24.61						ERSS40-31/32	ERSS50-31/32
	25.0	25.00						ERSS40-25.0mm	ERSS50-25.0mm
63/64		25.00						ERSS40-63/64	ERSS50-63/64
1		25.40						ERSS40-1	ERSS50-1
	25.5	25.50						ERSS40-25.5mm	ERSS50-25.5mm
	26.0	26.00						ERSS40-26.0mm	ERSS50-26.0mm
	27.00	27.00							ERSS50-27.0mm
	28.00	28.00							ERSS50-28.0mm
	29.00	29.00							ERSS50-29.0mm
	30.00	30.00							ERSS50-30.0mm
	31.00	31.00							ERSS50-31.0mm
	32.00	32.00							ERSS50-32.0mm
	33.00	33.00							ERSS50-33.0mm
	34.00	34.00							ERSS50-34.0mm

ER-EXTERNAL ECD COOLANT COLLETS

ACCURACY:



DIMENSIONS:



COLLET SERIES	REFERENCE #	A	B
ER11 Sealed	4008E NC-ECD	11.3mm (0.444")	18mm (0.709")
ER16 Sealed	426E NC-ECD	16.74mm (0.659")	27mm (1.063")
ER20 Sealed	428E NC-ECD	20.74mm (0.817")	31mm (1.220")
ER25 Sealed	430E NC-ECD	25.74mm (1.013")	35mm (1.378")
ER32 Sealed	470E NC-ECD	32.74mm (1.289")	40mm (1.575")
ER40 Sealed	472E NC-ECD	40.74mm (1.604")	46mm (1.811")
ER50 Sealed	477E NC-ECD	51.5mm (2.027")	60mm (2.362")

FEATURES:

01

ER 11
through ER 40

02

ER coolant collets
are designed for use
with shank tools with
no flats.

03

Use of coolant collets
with tools that are not
cylindrical will result
in coolant leakage.

04

Only nominal size
can be clamped

ER-EXTERNAL ECD COOLANT COLLETS

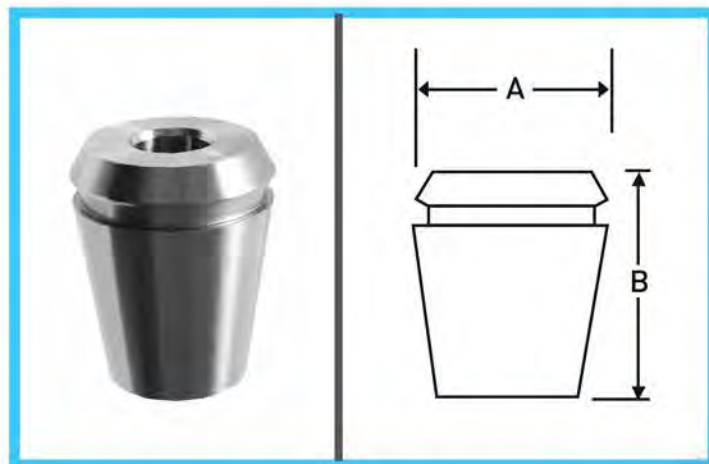
INCH SIZE	MM SIZE	DEC. MM	ER11 4008E NC-ECD	ER16 426E NC-ECD	ER20 428E NC-ECD	ER25 430E NC-ECD	ER32 470E NC-ECD	ER40 472E NC-ECD
	3.0	3.00	ER-ECD11-3.0mm	ER-ECD16-3.0mm	ER-ECD20-3mm	ER-ECD25-3.0mm	ER-ECD32-3.0mm	ER-ECD40-3.0mm
1/8		3.18	ER-ECD11-1/8	ER-ECD16-1/8	ER-ECD20-1/8	ER-ECD25-1/8	ER-ECD32-1/8	ER-ECD40-1/8
	3.5	3.50	ER-ECD11-3.5mm	ER-ECD16-3.5mm	ER-ECD20-3.5mm	ER-ECD25-3.5mm	ER-ECD32-3.5mm	ER-ECD40-3.5mm
5/32		3.97	ER-ECD11-5/32	ER-ECD16-5/32	ER-ECD20-5/32	ER-ECD25-5/32	ER-ECD32-5/32	ER-ECD40-5/32
	4.0	4.00	ER-ECD11-4.0mm	ER-ECD16-4.0mm	ER-ECD20-4.0mm	ER-ECD25-4.0mm	ER-ECD32-4.0mm	ER-ECD40-4.0mm
	4.5	4.50	ER-ECD11-4.5mm	ER-ECD16-4.5mm	ER-ECD20-4.5mm	ER-ECD25-4.5mm	ER-ECD32-4.5mm	ER-ECD40-4.5mm
3/16		4.76	ER-ECD11-3/16	ER-ECD16-3/16	ER-ECD20-3/16	ER-ECD25-3/16	ER-ECD32-3/16	ER-ECD40-3/16
	5.0	5.00	ER-ECD11-5.0mm	ER-ECD16-5.0mm	ER-ECD20-5mm	ER-ECD25-5.0mm	ER-ECD32-5.0mm	ER-ECD40-5.0mm
	5.5	5.50	ER-ECD11-5.5mm	ER-ECD16-5.5mm	ER-ECD20-5.5mm	ER-ECD25-5.5mm	ER-ECD32-5.5mm	ER-ECD40-5.5mm
7/32		5.56	ER-ECD11-7/32	ER-ECD16-7/32	ER-ECD20-7/32	ER-ECD25-7/32	ER-ECD32-7/32	ER-ECD40-7/32
	6.0	6.00	ER-ECD11-6.0mm	ER-ECD16-6.0mm	ER-ECD20-6mm	ER-ECD25-6.0mm	ER-ECD32-6.0mm	ER-ECD40-6.0mm
1/4		6.35	ER-ECD11-1/4	ER-ECD16-1/4	ER-ECD20-1/4	ER-ECD25-1/4	ER-ECD32-1/4	ER-ECD40-1/4
	6.5	6.50	ER-ECD11-6.5mm	ER-ECD16-6.5mm	ER-ECD20-6.5mm	ER-ECD25-6.5mm	ER-ECD32-6.5mm	ER-ECD40-6.5mm
	7.0	7.00	ER-ECD11-7.0mm	ER-ECD16-7.0mm	ER-ECD20-7mm	ER-ECD25-7.0mm	ER-ECD32-7.0mm	ER-ECD40-7.0mm
9/32		7.14		ER-ECD16-9/32	ER-ECD20-9/32	ER-ECD25-9/32	ER-ECD32-9/32	ER-ECD40-9/32
5/16		7.94		ER-ECD16-5/16	ER-ECD20-5/16	ER-ECD25-5/16	ER-ECD32-5/16	ER-ECD40-5/16
	8.0	8.00		ER-ECD16-8.0mm	ER-ECD20-8mm	ER-ECD25-8.0mm	ER-ECD32-8.0mm	ER-ECD40-8.0mm
11/32		8.73		ER-ECD16-11/32	ER-ECD20-11/32	ER-ECD25-11/32	ER-ECD32-11/32	ER-ECD40-11/32
	9.0	9.00		ER-ECD16-9.0mm	ER-ECD20-9mm	ER-ECD25-9.0mm	ER-ECD32-9.0mm	ER-ECD40-9.0mm
3/8		9.53		ER-ECD16-3/8	ER-ECD20-3/8	ER-ECD25-3/8	ER-ECD32-3/8	ER-ECD40-3/8
	10.0	10.00		ER-ECD16-10.0mm	ER-ECD20-10mm	ER-ECD25-10.0mm	ER-ECD32-10.0mm	ER-ECD40-10.0mm
13/32		10.32			ER-ECD20-13/32	ER-ECD25-5-13/32	ER-ECD32-2-13/32	ER-ECD40-0-13/32
	11.0	11.00			ER-ECD20-11mm	ER-ECD25-11.0mm	ER-ECD32-11.0mm	ER-ECD40-11.0mm
7/16		11.11			ER-ECD20-7/16	ER-ECD25-7/16	ER-ECD32-7/16	ER-ECD40-7/16
1/16		1.59			ER-ECD20-1/16	ER-ECD25-1/16	ER-ECD32-1/16	ER-ECD40-1/16
15/32		11.91			ER-ECD20-15/32	ER-ECD25-15/32	ER-ECD32-15/32	ER-ECD40-15/32
	12.0	12.00			ER-ECD20-12mm	ER-ECD25-12.0mm	ER-ECD32-12.0mm	ER-ECD40-12.0mm
1/2		12.70			ER-ECD20-1/2	ER-ECD25-1/2	ER-ECD32-1/2	ER-ECD40-1/2
	13.0	13.00			ER-ECD20-13mm	ER-ECD25-13.0mm	ER-ECD32-13.0mm	ER-ECD40-13.0mm
17/32		13.49				ER-ECD25-17/32	ER-ECD32-17/32	ER-ECD40-17/32
	14.0	14.00				ER-ECD25-14.0mm	ER-ECD32-14.0mm	ER-ECD40-14.0mm
9/16		14.29				ER-ECD25-9/16	ER-ECD32-9/16	ER-ECD40-9/16
	15.0	15.00				ER-ECD25-15.0mm	ER-ECD32-15.0mm	ER-ECD40-15.0mm
19/32		15.08				ER-ECD25-19/32	ER-ECD32-19/32	ER-ECD40-19/32
5/8		15.88				ER-ECD25-5/8	ER-ECD32-5/8	ER-ECD40-5/8
	16.0	16.00				ER-ECD25-16.0mm	ER-ECD32-16.0mm	ER-ECD40-16.0mm
21/32		16.67					ER-ECD32-21/32	ER-ECD40-21/32
	17.0	17.00					ER-ECD32-17.0mm	ER-ECD40-17.0mm
11/16		17.46					ER-ECD32-11/16	ER-ECD40-11/16
	18.0	18.00					ER-ECD32-18.0mm	ER-ECD40-18.0mm

ER-EXTERNAL ECD COOLANT COLLETS

Inch Size	MM Size	Dec. MM	ER11 4008E NC-ECD	ER16 426E NC-ECD	ER20 428E NC-ECD	ER25 430E NC-ECD	ER32 470E NC-ECD	ER40 472E NC-ECD
23/32		18.26					ER-ECD32-23/32	ER-ECD40-23/32
	19.0	19.00					ER-ECD32-19.0mm	ER-ECD40-19.0mm
3/4		19.05					ER-ECD32-3/4	ER-ECD40-3/4
25/32		19.84					ER-ECD32-25/32	ER-ECD40-25/32
	20.0	20.00					ER-ECD32-20.0mm	ER-ECD40-20.0mm
13/16		20.64					ER-ECD32-13/16	ER-ECD40-13/16
	21.0	21.00						ER-ECD40-21mm
27/32		21.43						ER-ECD40-27/32
	22.0	22.00						ER-ECD40-22.0mm
7/8		22.23						ER-ECD40-7/8
	23.0	23.00						ER-ECD40-23.0mm
29/32		23.02						ER-ECD40-29/32
15/16		23.81						ER-ECD40-15/16
	24.0	24.00						ER-ECD40-24.0mm
31/32		24.61						ER-ECD40-31/32
	25.0	25.00						ER-ECD40-25.0mm
1		25.40						ER-ECD40-1
	26.0	26.00						ER-ECD40-26.0mm

ER-SHRINK FIT COLLETS

ACCURACY:



DIMENSIONS:

COLLET SERIES	REFERENCE #	A	B
ER 11	4008E	11.5mm (.453 in)	18mm (.709 in)
ER 16	426E	17mm (.669 in)	27mm (1.063 in)
ER 20	428E	21mm (.827 in)	31mm (1.220 in)
ER 25	430E	26mm (1.024 in)	35mm (1.378 in)
ER 32	470E	33mm (1.299 in)	40mm (1.575 in)
ER 40	472E	41mm (1.614 in)	46mm (1.811 in)

FEATURES:

01

Highest possible run-out and repeatability accuracy

02

High Clamping Forces for solid carbide tools with shank tolerance H6

03

Reduced set-up times due to external shrinking and presetting

04

Perfectly suitable for driven units and spindles with ER interface

05

Increase in service life of cutting tools up to 300%

ER-SHRINK FIT COLLETS

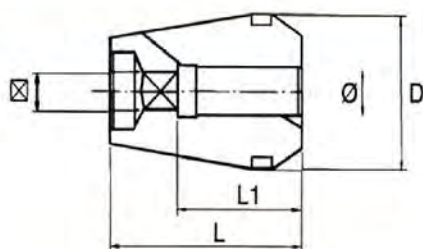
INCH Size	MM Size	ERSF16 426E	ERSF20 428E	ERSF25 430E	ERSF32 470E	ERSF40 472E
	3.0	ERSF16-3.0mm	ERSF20-3.0mm	ERSF25-3.0mm	ERSF32-3.0mm	ERSF40-3.0mm
1/8		ERSF16-1/8	ERSF20-1/8	ERSF25-1/8	ERSF32-1/8	ERSF40-1/8
5/32		ERSF16-5/32	ERSF20-5/32	ERSF25-5/32	ERSF32-5/32	ERSF40-5/32
	4.0	ERSF16-4.0mm	ERSF20-4.0mm	ERSF25-4.0mm	ERSF32-4.0mm	ERSF40-4.0mm
3/16		ERSF16-3/16	ERSF20-3/16	ERSF25-3/16	ERSF32-3/16	ERSF40-3/16
	5.0	ERSF16-5.0mm	ERSF20-5.0mm	ERSF25-5.0mm	ERSF32-5.0mm	ERSF40-5.0mm
7/32		ERSF16-7/32	ERSF20-7/32	ERSF25-7/32	ERSF32-7/32	ERSF40-7/32
	6.0	ERSF16-6.0mm	ERSF20-6.0mm	ERSF25-6.0mm	ERSF32-6.0mm	ERSF40-6.0mm
1/4		ERSF16-1/4	ERSF20-1/4	ERSF25-1/4	ERSF32-1/4	ERSF40-1/4
	7.0	ERSF16-7.0mm	ERSF20-7.0mm	ERSF25-7.0mm	ERSF32-7.0mm	ERSF40-7.0mm
9/32		ERSF16-9/32	ERSF20-9/32	ERSF25-9/32	ERSF32-9/32	ERSF40-9/32
5/16		ERSF16-5/16	ERSF20-5/16	ERSF25-5/16	ERSF32-5/16	ERSF40-5/16
	8.0	ERSF16-8.0mm	ERSF20-8.0mm	ERSF25-8.0mm	ERSF32-8.0mm	ERSF40-8.0mm
11/32		ERSF16-11/32	ERSF20-11/32	ERSF25-11/32	ERSF32-11/32	ERSF40-11/32
	9.0	ERSF16-9.0mm	ERSF20-9.0mm	ERSF25-9.0mm	ERSF32-9.0mm	ERSF40-9.0mm
3/8		ERSF16-3/8	ERSF20-3/8	ERSF25-3/8	ERSF32-3/8	ERSF40-3/8
	10.0	ERSF16-10.0mm	ERSF20-10.0mm	ERSF25-10.0mm	ERSF32-10.0mm	ERSF40-10.0mm
13/32			ERSF20-13/32	ERSF25-5-13/32	ERSF32-2-13/32	ERSF40-0-13/32
	11.0		ERSF20-11.0mm	ERSF25-11.0mm	ERSF32-11.0mm	ERSF40-11.0mm
7/16			ERSF20-7/16	ERSF25-7/16	ERSF32-7/16	ERSF40-7/16
1/16			ERSF20-1/16	ERSF25-1/16	ERSF32-1/16	ERSF40-1/16
15/32			ERSF20-15/32	ERSF25-15/32	ERSF32-15/32	ERSF40-15/32
	12.0		ERSF20-12.0mm	ERSF25-12.0mm	ERSF32-12.0mm	ERSF40-12.0mm
1/2			ERSF20-1/2	ERSF25-1/2	ERSF32-1/2	ERSF40-1/2
	13.0		ERSF20-13.0mm	ERSF25-13.0mm	ERSF32-13.0mm	ERSF40-13.0mm
17/32				ERSF25-17/32	ERSF32-17/32	ERSF40-17/32
	14.0			ERSF25-14.0mm	ERSF32-14.0mm	ERSF40-14.0mm
9/16				ERSF25-9/16	ERSF32-9/16	ERSF40-9/16
	15.0			ERSF25-15.0mm	ERSF32-15.0mm	ERSF40-15.0mm
19/32				ERSF25-19/32	ERSF32-19/32	ERSF40-19/32
5/8				ERSF25-5/8	ERSF32-5/8	ERSF40-5/8
	16.0			ERSF25-16.0mm	ERSF32-16.0mm	ERSF40-16.0mm
21/32					ERSF32-21/32	ERSF40-21/32
	17.0				ERSF32-17.0mm	ERSF40-17.0mm
11/16					ERSF32-11/16	ERSF40-11/16
	18.0				ERSF32-18.0mm	ERSF40-18.0mm
23/32					ERSF32-23/32	ERSF40-23/32
	19.0				ERSF32-19.0mm	ERSF40-19.0mm
3/4					ERSF32-3/4	ERSF40-3/4

ER-SHRINK FIT COLLETS

INCH Size	MM Size	ERSF16 426E	ERSF20 428E	ERSF25 430E	ERSF32 470E	ERSF40 472E
25/32					ERSF32-25/32	ERSF40-25/32
	20.0				ERSF32-20.0mm	ERSF40-20.0mm
13/16					ERSF32-13/16	ERSF40-13/16
	21.0					ERSF40-21mm
27/32						ERSF40-27/32
	22.0					ERSF40-22.0mm
7/8						ERSF40-7/8
	23.0					ERSF40-23.0mm
29/32						ERSF40-29/32
15/16						ERSF40-15/16
	24.0					ERSF40-24.0mm
31/32						ERSF40-31/32
	25.0					ERSF40-25.0mm
1						ERSF40-1
	26.0					ERSF40-26.0mm

ER-TAP COLLETS

DIMENSIONS:



	ER16	ER20	ER25	ER32	ER40
D	16.74MM	20.74MM	25.74MM	32.74MM	40.74MM
L	27.5MM	31.5MM	34.0MM	40.0MM	46.0MM

FEATURES:

01

For synchronous tapping operation using Standard ER collet chuck.

02

Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity.

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	ERT11-141	ERT16-141	ERT20-141	ERT25-141	ERT32-141	ERT40-141
#8	0.168	0.131	ERT11-168	ERT16-168	ERT20-168	ERT25-168	ERT32-168	ERT40-168
#10	0.194	0.152	ERT11-194	ERT16-194	ERT20-194	ERT25-194	ERT32-194	ERT40-194
#12	0.220	0.165	ERT11-220	ERT16-220	ERT20-220	ERT25-220	ERT32-220	ERT40-220
1/4	0.255	0.191	ERT11-255	ERT16-255	ERT20-255	ERT25-255	ERT32-255	ERT40-255
5/16	0.318	0.238		ERT16-318	ERT20-318	ERT25-318	ERT32-318	ERT40-318
3/8	0.381	0.286			ERT20-381	ERT25-381	ERT32-381	ERT40-381
7/16	0.323	0.242		ERT16-323	ERT20-323	ERT25-323	ERT32-323	ERT40-323
1/2	0.367	0.275			ERT20-367	ERT25-367	ERT32-367	ERT40-367
9/16	0.429	0.322			ERT20-429	ERT25-429	ERT32-429	ERT40-429
5/8	0.480	0.360			ERT20-480	ERT25-480	ERT32-480	ERT40-480
11/16	0.542	0.406				ERT25-542	ERT32-542	ERT40-542
3/4	0.590	0.442					ERT32-590	ERT40-590
13/16	0.652	0.489					ERT32-652	ERT40-652
7/8	0.697	0.523						ERT40-697
15/16	0.760	0.570						ERT40-760
1"	0.800	0.600						ERT40-800
1/16-P	0.3125	0.234			ERT20-3125	ERT25-3125	ERT32-3125	ERT40-3125
1/8s-P	0.3125	0.234			ERT20-3125s	ERT25-3125s	ERT32-3125s	ERT40-3125s
1/8-P	0.4375	0.328			ERT20-4375	ERT25-4375	ERT32-4375	ERT40-4375
1/4-P	0.5625	0.421					ERT32-5625	ERT40-5625
3/8-P	0.7000	0.531					ERT32-6875	ERT40-7000
1/2-P	0.6875	0.515						ERT40-6875

DIN, ISO & JIS STANDARD TAPS

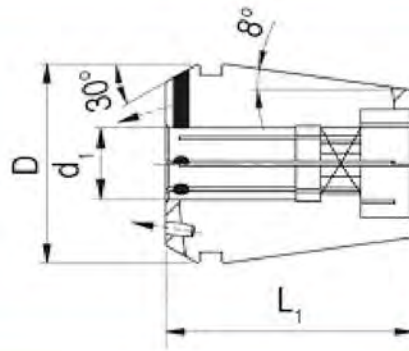
SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
3.0	2.5	ERT16-3.0-2.5	ERT20-3.0-2.5	ERT25-3.0-2.5	ERT32-3.0-2.5	ERT40-3.0-2.5
3.15	2.5	ERT16-3.15-2.5	ERT20-3.15-2.5	ERT25-3.15-2.5	ERT32-3.15-2.5	ERT40-3.15-2.5
3.5	2.7	ERT16-3.5-2.7	ERT20-3.5-2.7	ERT25-3.5-2.7	ERT32-3.5-2.7	ERT40-3.5-2.7
3.55	2.8	ERT16-3.55-2.8	ERT20-3.55-2.8	ERT25-3.55-2.8	ERT32-3.55-2.8	ERT40-3.55-2.8
4.0	3.0	ERT16-4.0-3.0	ERT20-4.0-3.0	ERT25-4.0-3.0	ERT32-4.0-3.0	ERT40-4.0-3.0
4.0	3.2	ERT16-4.0-3.2	ERT20-4.0-3.2	ERT25-4.0-3.2	ERT32-4.0-3.2	ERT40-4.0-3.2
4.5	3.4	ERT16-4.5-3.4	ERT20-4.5-3.4	ERT25-4.5-3.4	ERT32-4.5-3.4	ERT40-4.5-3.4
5.0	4.0	ERT16-5.0-4.0	ERT20-5.0-4.0	ERT25-5.0-4.0	ERT32-5.0-4.0	ERT40-5.0-4.0
5.5	4.3	ERT16-5.5-4.3	ERT20-5.5-4.3	ERT25-5.5-4.3	ERT32-5.5-4.3	ERT40-5.5-4.3
5.6	4.5	ERT16-5.6-4.5	ERT20-5.6-4.5	ERT25-5.6-4.5	ERT32-5.6-4.5	ERT40-5.6-4.5
6.0	4.5	ERT16-6.0-4.5	ERT20-6.0-4.5	ERT25-6.0-4.5	ERT32-6.0-4.5	ERT40-6.0-4.5

ER TAP COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
6.0	4.9	ERT16-6.0-4.9	ERT20-6.0-4.9	ERT25-6.0-4.9	ERT32-6.0-4.9	ERT40-6.0-4.9
6.3	5.0	ERT16-6.3-5.0	ERT20-6.3-5.0	ERT25-6.3-5.0	ERT32-6.3-5.0	ERT40-6.3-5.0
7.0	5.0	ERT16-7.0-5.0	ERT20-7.0-5.0	ERT25-7.0-5.0	ERT32-7.0-5.0	ERT40-7.0-5.0
7.0	5.5	ERT16-7.0-5.5	ERT20-7.0-5.5	ERT25-7.0-5.5	ERT32-7.0-5.5	ERT40-7.0-5.5
7.1	5.6	ERT16-7.1-5.6	ERT20-7.1-5.6	ERT25-7.1-5.6	ERT32-7.1-5.6	ERT40-7.1-5.6
8.0	6.0	ERT16-8.0-6.0	ERT20-8.0-6.0	ERT25-8.0-6.0	ERT32-8.0-6.0	ERT40-8.0-6.0
8.0	6.2	ERT16-8.0-6.2	ERT20-8.0-6.2	ERT25-8.0-6.2	ERT32-8.0-6.2	ERT40-8.0-6.2
8.0	6.3	ERT16-8.0-6.3	ERT20-8.0-6.3	ERT25-8.0-6.3	ERT32-8.0-6.3	ERT40-8.0-6.3
8.5	6.5		ERT20-8.5-6.5	ERT25-8.5-6.5	ERT32-8.5-6.5	ERT40-8.5-6.5
9.0	7.0		ERT20-9.0-7.0	ERT25-9.0-7.0	ERT32-9.0-7.0	ERT40-9.0-7.0
10.0	8.0		ERT20-10.0-8.0	ERT25-10.0-8.0	ERT32-10.0-8.0	ERT40-10.0-8.0
10.5	8.0		ERT20-10.5-8.0	ERT25-10.5-8.0	ERT32-10.5-8.0	ERT40-10.5-8.0
11.0	9.0		ERT20-11.0-9.0	ERT25-11.0-9.0	ERT32-11.0-9.0	ERT40-11.0-9.0
11.2	9.0		ERT20-11.2-9.0	ERT25-11.2-9.0	ERT32-11.2-9.0	ERT40-11.2-9.0
12.0	9.0		ERT20-12.0-9.0	ERT25-12.0-9.0	ERT32-12.0-9.0	ERT40-12.0-9.0
12.5	10.0			ERT25-12.5-10.0	ERT32-12.5-10.0	ERT40-12.5-10.0
14.0	11.0			ERT25-14.0-11.0	ERT32-14.0-11.0	ERT40-14.0-11.0
14.0	11.2			ERT25-14.0-11.2	ERT32-14.0-11.2	ERT40-14.0-11.2
15.0	12.0				ERT32-15.0-12.0	ERT40-15.0-12.0
16.0	12.0				ERT32-16.0-12.0	ERT40-16.0-12.0
16.0	12.5				ERT32-16.0-12.5	ERT40-16.0-12.5
17.0	13.0				ERT32-17.0-13.0	ERT40-17.0-13.0
18.0	14.5				ERT32-18.0-14.5	ERT40-18.0-14.5
18.0	14.0				ERT32-18.0-14.0	ERT40-18.0-14.0
19.0	15.0					ERT40-19.0-15.0
20.0	16.0					ERT40-20.0-16.0
20.0	15.0					ERT40-20.0-15.0
22.0	18.0					ERT40-22.0-18.0
22.4	18.0					ERT40-22.4-18.0
25.0	20.0					ERT40-25.0-20.0
28.0	22.0					ERT40-28.0-22.0
28.0	22.4					ERT40-28.0-22.4
31.5	25.0					ERT40-31.5-25.0
32.0	24.0					ERT40-32.0-24.0
36.0	29.0					ERT40-36.0-29.0

ER-TAP & SEALED COLLETS

DIMENSIONS:



	ER16	ER20	ER25	ER32	ER40
D	16.74MM	20.74MM	25.74MM	32.74MM	40.74MM
L ₁	27.5MM	31.5MM	34.0MM	40.0MM	46.0MM

FEATURES:

01

For synchronous tapping operation using Standard ER Collet Chuck.

02

Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity.

ER-TAP & SEALED COLLETS

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	ERTC11-141	ERTC16-141	ERTC20-141	ERT25-141	ERTC32-141	ERTC40-141
#8	0.168	0.131	ERTC11-168	ERTC16-168	ERTC20-168	ERTC25-168	ERTC32-168	ERTC40-168
#10	0.194	0.152	ERTC11-194	ERTC16-194	ERTC20-194	ERTC25-194	ERTC32-194	ERTC40-194
#12	0.220	0.165	ERTC11-220	ERTC16-220	ERTC20-220	ERTC25-220	ERTC32-220	ERTC40-220
1/4	0.255	0.191	ERTC11-255	ERTC16-255	ERTC20-255	ERTC25-255	ERTC32-255	ERTC40-255
5/16	0.318	0.238		ERTC16-318	ERTC20-318	ERTC25-318	ERTC32-318	ERTC40-318
3/8	0.381	0.286			ERTC20-381	ERTC25-381	ERTC32-381	ERTC40-381
7/16	0.323	0.242		ERTC16-323	ERTC20-323	ERTC25-323	ERTC32-323	ERTC40-323
1/2	0.367	0.275			ERTC20-367	ERTC25-367	ERTC32-367	ERTC40-367
9/16	0.429	0.322				ERTC25-429	ERTC32-429	ERTC40-429
5/8	0.480	0.360				ERTC25-480	ERTC32-480	ERTC40-480
11/16	0.542	0.406					ERTC32-542	ERTC40-542
3/4	0.590	0.442					ERTC32-590	ERTC40-590
13/16	0.652	0.489						ERTC40-652
7/8	0.697	0.523						ERTC40-697
15/16	0.760	0.570						ERTC40-760
1"	0.800	0.600						ERTC40-800
1/16-P	0.3125	0.234			ERTC20-3125	ERTC25-3125	ERTC32-3125	ERTC40-3125
1/8s-P	0.3125	0.234			ERTC20-3125s	ERTC25-3125s	ERTC32-3125s	ERTC40-3125s
1/8-P	0.4375	0.328				ERTC25-4375	ERTC32-4375	ERTC40-4375
1/4-P	0.5625	0.421					ERTC32-5625	ERTC40-5625
3/8-P	0.7000	0.531						ERTC40-7000
1/2-P	0.6875	0.515						ERTC40-6875

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
3.0	2.5	ERTC16-3.0-2.5	ERTC20-3.0-2.5	ERTC25-3.0-2.5	ERTC32-3.0-2.5	ERTC40-3.0-2.5
3.15	2.5	ERTC16-3.15-2.5	ERTC20-3.15-2.5	ERTC25-3.15-2.5	ERTC32-3.15-2.5	ERTC40-3.15-2.5
3.5	2.7	ERTC16-3.5-2.7	ERTC20-3.5-2.7	ERTC25-3.5-2.7	ERTC32-3.5-2.7	ERTC40-3.5-2.7
3.55	2.8	ERTC16-3.55-2.8	ERTC20-3.55-2.8	ERTC25-3.55-2.8	ERTC32-3.55-2.8	ERTC40-3.55-2.8
4.0	3.0	ERTC16-4.0-3.0	ERTC20-4.0-3.0	ERTC25-4.0-3.0	ERTC32-4.0-3.0	ERTC40-4.0-3.0
4.0	3.2	ERTC16-4.0-3.2	ERTC20-4.0-3.2	ERTC25-4.0-3.2	ERTC32-4.0-3.2	ERTC40-4.0-3.2
4.5	3.4	ERTC16-4.5-3.4	ERTC20-4.5-3.4	ERTC25-4.5-3.4	ERTC32-4.5-3.4	ERTC40-4.5-3.4
5.0	4.0	ERTC16-5.0-4.0	ERTC20-5.0-4.0	ERTC25-5.0-4.0	ERTC32-5.0-4.0	ERTC40-5.0-4.0
5.5	4.3	ERTC16-5.5-4.3	ERTC20-5.5-4.3	ERTC25-5.5-4.3	ERTC32-5.5-4.3	ERTC40-5.5-4.3
5.6	4.5	ERTC16-5.6-4.5	ERTC20-5.6-4.5	ERTC25-5.6-4.5	ERTC32-5.6-4.5	ERTC40-5.6-4.5
6.0	4.5	ERTC16-6.0-4.5	ERTC20-6.0-4.5	ERTC25-6.0-4.5	ERTC32-6.0-4.5	ERTC40-6.0-4.5

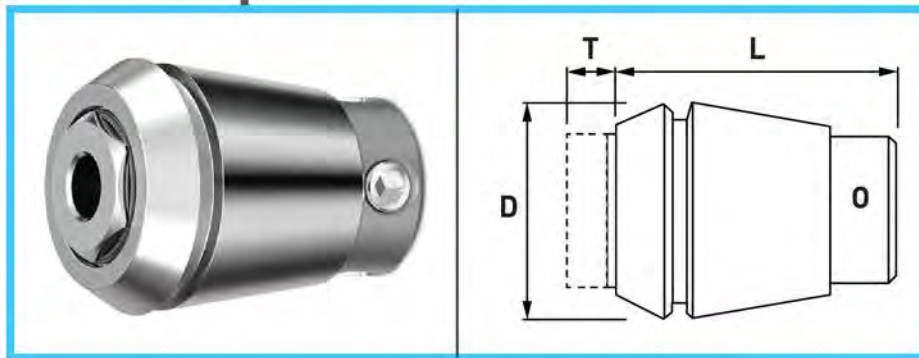
ER-TAP & SEALED COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
6.0	4.9	ERTC16-6.0-4.9	ERTC20-6.0-4.9	ERTC25-6.0-4.9	ERTC32-6.0-4.9	ERTC40-6.0-4.9
6.3	5.0	ERTC16-6.3-5.0	ERTC20-6.3-5.0	ERTC25-6.3-5.0	ERTC32-6.3-5.0	ERTC40-6.3-5.0
7.0	5.0	ERTC16-7.0-5.0	ERTC20-7.0-5.0	ERTC25-7.0-5.0	ERTC32-7.0-5.0	ERTC40-7.0-5.0
7.0	5.5	ERTC16-7.0-5.5	ERTC20-7.0-5.5	ERTC25-7.0-5.5	ERTC32-7.0-5.5	ERTC40-7.0-5.5
7.1	5.6	ERTC16-7.1-5.6	ERTC20-7.1-5.6	ERTC25-7.1-5.6	ERTC32-7.1-5.6	ERTC40-7.1-5.6
8.0	6.0		ERTC20-8.0-6.0	ERTC25-8.0-6.0	ERTC32-8.0-6.0	ERTC40-8.0-6.0
8.0	6.2		ERTC20-8.0-6.2	ERTC25-8.0-6.2	ERTC32-8.0-6.2	ERTC40-8.0-6.2
8.0	6.3		ERTC20-8.0-6.3	ERTC25-8.0-6.3	ERTC32-8.0-6.3	ERTC40-8.0-6.3
8.5	6.5		ERTC20-8.5-6.5	ERTC25-8.5-6.5	ERTC32-8.5-6.5	ERTC40-8.5-6.5
9.0	7.0		ERTC20-9.0-7.0	ERTC25-9.0-7.0	ERTC32-9.0-7.0	ERTC40-9.0-7.0
10.0	8.0		ERTC20-10.0-8.0	ERTC25-10.0-8.0	ERTC32-10.0-8.0	ERTC40-10.0-8.0
10.5	8.0		ERTC20-10.5-8.0	ERTC25-10.5-8.0	ERTC32-10.5-8.0	ERTC40-10.5-8.0
11.0	9.0			ERTC25-11.0-9.0	ERTC32-11.0-9.0	ERTC40-11.0-9.0
11.2	9.0			ERTC25-11.2-9.0	ERTC32-11.2-9.0	ERTC40-11.2-9.0
12.0	9.0			ERTC25-12.0-9.0	ERTC32-12.0-9.0	ERTC40-12.0-9.0
12.5	10.0			ERTC25-12.5-10.0	ERTC32-12.5-10.0	ERTC40-12.5-10.0
14.0	11.0				ERTC32-14.0-11.0	ERTC40-14.0-11.0
14.0	11.2				ERTC32-14.0-11.2	ERTC40-14.0-11.2
15.0	12.0				ERTC32-15.0-12.0	ERTC40-15.0-12.0
16.0	12.0				ERTC32-16.0-12.0	ERTC40-16.0-12.0
16.0	12.5				ERTC32-16.0-12.5	ERTC40-16.0-12.5
17.0	13.0					ERTC40-17.0-13.0
18.0	14.5					ERTC40-18.0-14.5
18.0	14.0					ERTC40-18.0-14.0
19.0	15.0					ERTC40-19.0-15.0
20.0	16.0					ERTC40-20.0-16.0
20.0	15.0					ERTC40-20.0-15.0
22.0	18.0					ERTC40-22.0-18.0
22.4	18.0					ERTC40-22.4-18.0
25.0	20.0					ERTC40-25.0-20.0
28.0	22.0					ERTC40-28.0-22.0
28.0	22.4					ERTC40-28.0-22.4
31.5	25.0					ERTC40-31.5-25.0
32.0	24.0					ERTC40-32.0-24.0
36.0	29.0					ERTC40-36.0-29.0

ER-FLOATING TAP COLLETS

WITH AXIAL COMPENSATION

DIMENSIONS:



	ER16	ER20	ER25	ER32	ER40
D	17.0mm	21.0mm	26.0mm	33.0mm	41.0mm
L	27.0mm	31.0mm	34.0mm	43.0mm	54.0mm
T	5.0mm	7.0mm	8.0mm	10.0mm	12.0mm

FEATURES:

01

With square locking drive and tension length adjustment

02

Axial compensation prevents breaking taps

03

Locking feature prevents spinning the tap.

04

Reduced clearance requirements.

05

Inch and Metric collets available.

ER-FLOATING TAP COLLETS

WITH AXIAL COMPENSATION

ITEM NUMBER	COLLET SERIES	SHANK SIZE	SQUARE SIZE	D	L	T
ERTB16-2.5X2.1	ER16	2.5	2.1	17	27	7
ERTB16-2.8X2.1	ER16	2.8	2.1	17	27	7
ERTB16-3.5X2.7	ER16	3.5	2.7	17	27	7
ERTB16-4.0X3.0	ER16	4.0	3.0	17	27	7
ERTB16-4.5X3.4	ER16	4.5	3.4	17	27	7
ERTB16-5.5X4.3	ER16	5.5	4.3	17	27	7
ERTB16-6.0X4.9	ER16	6.0	4.9	17	27	7
ERTB16-141	ER16	0.141"	0.110"	17	27	7
ERTB16-168	ER16	0.168"	0.131"	17	27	7
ERTB16-194	ER16	0.194"	0.152"	17	27	7
ERTB16-220	ER16	0.220"	0.165"	17	27	7
ERTB20-2.5X2.1	ER20	2.5	2.1	21	31	7
ERTB20-2.8X2.1	ER20	2.8	2.1	21	31	7
ERTB20-3.5X2.7	ER20	3.5	2.7	21	31	7
ERTB20-4.0X3.0	ER20	4.0	3.0	21	31	7
ERTB20-4.5X3.4	ER20	4.5	3.4	21	31	7
ERTB20-5.5X4.3	ER20	5.5	4.3	21	31	7
ERTB20-6.0X4.9	ER20	6.0	4.9	21	31	7
ERTB20-7.0X5.5	ER20	7.0	5.5	21	31	7
ERTB20-141	ER20	0.141"	0.110"	21	31	7
ERTB20-168	ER20	0.168"	0.131"	21	31	7
ERTB20-194	ER20	0.194"	0.152"	21	31	7
ERTB20-220	ER20	0.220"	0.165"	21	31	7
ERTB20-255	ER20	0.255"	0.191"	21	31	7
ERTB25-2.5X2.1	ER25	2.5	2.1	26	34	8
ERTB25-2.8X2.1	ER25	2.8	2.1	26	34	8
ERTB25-3.5X2.7	ER25	3.5	2.7	26	34	8
ERTB25-4.0X3.0	ER25	4.0	3.0	26	34	8
ERTB25-4.5X3.4	ER25	4.5	3.4	26	34	8
ERTB25-5.5X4.3	ER25	5.5	4.3	26	34	8
ERTB25-6.0X4.9	ER25	6.0	4.9	26	34	8
ERTB25-7.0X5.5	ER25	7.0	5.5	26	34	8
ERTB25-8.0X6.2	ER25	8.0	6.2	26	34	8
ERTB25-9.0X7.0	ER25	9.0	7.0	26	34	8
ERTB25-141	ER25	0.141"	0.110"	17	27	7
ERTB25-168	ER25	0.168"	0.131"	17	27	7

ER-FLOATING TAP COLLETS

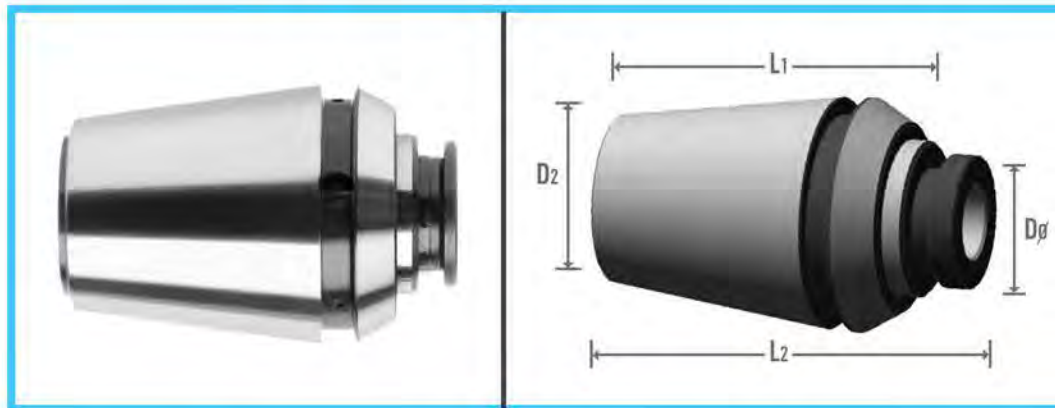
WITH AXIAL COMPENSATION

ITEM NUMBER	COLLET SERIES	SHANK SIZE	SQUARE SIZE	D	L	T
ERTB25-194	ER25	0.194"	0.152"	17	27	7
ERTB25-220	ER25	0.220"	0.165"	17	27	7
ERTB25-255	ER25	0.255"	0.191"	17	27	7
ERTB25-318	ER25	0.318"	0.238"	17	27	7
ERTB25-323	ER25	0.323"	0.242"	17	27	7
ERTB25-367	ER25	0.367"	0.275"	17	27	7
ERTB25-381	ER25	0.381"	0.286"	17	27	7
ERTB32-4.5X3.4	ER32	4.5	3.4	33	43	10
ERTB32-5.5X4.3	ER32	5.5	4.3	33	43	10
ERTB32-6.0X4.9	ER32	6.0	4.9	33	43	10
ERTB32-7.0X5.5	ER32	7.0	5.5	33	43	10
ERTB32-8.0X6.2	ER32	8.0	6.2	33	43	10
ERTB32-9.0X7.0	ER32	9.0	7.0	33	43	10
ERTB32-10.0X8.0	ER32	10.0	8.0	33	43	10
ERTB32-11.0X9.0	ER32	11.0	9.0	33	43	10
ERTB32-12.0X9.0	ER32	12.0	9.0	33	43	10
ERTB32-168	ER32	0.168"	0.131"	33	43	10
ERTB32-194	ER32	0.194"	0.152"	33	43	10
ERTB32-220	ER32	0.220"	0.165"	33	43	10
ERTB32-255	ER32	0.255"	0.191"	33	43	10
ERTB32-318	ER32	0.318"	0.238"	33	43	10
ERTB32-323	ER32	0.323"	0.242"	33	43	10
ERTB32-367	ER32	0.367"	0.275"	33	43	10
ERTB32-381	ER32	0.381"	0.286"	33	43	10
ERTB32-429	ER32	0.429"	0.322"	33	43	10
ERTB32-437	ER32	0.437"	0.328"	33	43	10
ERTB32-480	ER32	0.480"	0.360"	33	43	10
ERTB40-6.0X4.9	ER40	6.0	4.9	41	54	13
ERTB40-7.0X5.5	ER40	7.0	5.5	41	54	13
ERTB40-8.0X6.2	ER40	8.0	6.2	41	54	13
ERTB40-9.0X7.0	ER40	9.0	7.0	41	54	13
ERTB40-10.0X8.0	ER40	10.0	8.0	41	54	13
ERTB40-11.0X9.0	ER40	11.0	9.0	41	54	13
ERTB40-12.0X9.0	ER40	12.0	9.0	41	54	13
ERTB40-14.0X11.0	ER40	14.0	11.0	41	54	13
ERTB40-16.0X12.0	ER40	16.0	12.0	41	54	13

ER-QUICK CHANGE

RIGID
TAP
COLLETS

DIMENSIONS:



	ER16	ER20	ER25	ER32	ER40
D Ø MIN	2.5mm	2.5mm	2.5mm	3.5mm	3.5mm
D Ø MAX	4.5mm	6.0mm	9.0mm	12.0mm	14.0mm
D2	17.0mm	21.0mm	26.0mm	33.0mm	41.0mm
L1	30.0mm	23.0mm	37.0mm	42.0mm	50.0mm
L2	34.0mm	27.0mm	43.0mm	48.0mm	56.0mm

FEATURES:

01

Quick-Change Taps

02

Locking feature prevents spinning the tap

03

Reduce tapping clearance requirements

04

Replaces expensive tap holders

ER-QUICK CHANGER RIGID TAP COLLETS

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	ERQC11-141	ERQC16-141	ERQC20-141	ERQC25-141	ERQC32-141	ERQC40-141
#8	0.168	0.131	ERQC11-168	ERQC16-168	ERQC20-168	ERQC25-168	ERQC32-168	ERQC40-168
#10	0.194	0.152	ERQC11-194	ERQC16-194	ERQC20-194	ERQC25-194	ERQC32-194	ERQC40-194
#12	0.220	0.165	ERQC11-220	ERQC16-220	ERQC20-220	ERQC25-220	ERQC32-220	ERQC40-220
1/4	0.255	0.191	ERQC11-255	ERQC16-255	ERQC20-255	ERQC25-255	ERQC32-255	ERQC40-255
5/16	0.318	0.238		ERQC16-318	ERQC20-318	ERQC25-318	ERQC32-318	ERQC40-318
3/8	0.381	0.286			ERQC20-381	ERQC25-381	ERQC32-381	ERQC40-381
7/16	0.323	0.242			ERQC20-323	ERQC25-323	ERQC32-323	ERQC40-323
1/2	0.367	0.275			ERQC20-367	ERQC25-367	ERQC32-367	ERQC40-367
9/16	0.429	0.322				ERQC25-429	ERQC32-429	ERQC40-429
5/8	0.480	0.360				ERQC25-480	ERQC32-480	ERQC40-480
11/16	0.542	0.406					ERQC32-542	ERQC40-542
3/4	0.590	0.442					ERQC32-590	ERQC40-590
13/16	0.652	0.489						ERQC40-652
7/8	0.697	0.523						ERQC40-697
15/16	0.760	0.570						ERQC40-760
1"	0.800	0.600						ERQC40-800
1/16-P	0.3125	0.234			ERQC20-3125	ERQC25-3125	ERQC32-3125	ERQC40-3125
1/8s-P	0.3125	0.234			ERQC20-3125s	ERQC25-3125s	ERQC32-3125s	ERQC40-3125s
1/8-P	0.4375	0.328				ERQC25-4375	ERQC32-4375	ERQC40-4375
1/4-P	0.5625	0.421					ERQC32-5625	ERQC40-5625
3/8-P	0.7000	0.531						ERQC40-7000
1/2-P	0.6875	0.515						ERQC40-6875

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
3.0	2.5	ERQC16-3.0-2.5	ERQC20-3.0-2.5	ERQC25-3.0-2.5	ERQC32-3.0-2.5	ERQC40-3.0-2.5
3.15	2.5	ERQC16-3.15-2.5	ERQC20-3.15-2.5	ERQC25-3.15-2.5	ERQC32-3.15-2.5	ERQC40-3.15-2.5
3.5	2.7	ERQC16-3.5-2.7	ERQC20-3.5-2.7	ERQC25-3.5-2.7	ERQC32-3.5-2.7	ERQC40-3.5-2.7
3.55	2.8	ERQC16-3.55-2.8	ERQC20-3.55-2.8	ERQC25-3.55-2.8	ERQC32-3.55-2.8	ERQC40-3.55-2.8
4.0	3.0	ERQC16-4.0-3.0	ERQC20-4.0-3.0	ERQC25-4.0-3.0	ERQC32-4.0-3.0	ERQC40-4.0-3.0
4.0	3.2	ERQC16-4.0-3.2	ERQC20-4.0-3.2	ERQC25-4.0-3.2	ERQC32-4.0-3.2	ERQC40-4.0-3.2
4.5	3.4	ERQC16-4.5-3.4	ERQC20-4.5-3.4	ERQC25-4.5-3.4	ERQC32-4.5-3.4	ERQC40-4.5-3.4
5.0	4.0	ERQC16-5.0-4.0	ERQC20-5.0-4.0	ERQC25-5.0-4.0	ERQC32-5.0-4.0	ERQC40-5.0-4.0
5.5	4.3	ERQC16-5.5-4.3	ERQC20-5.5-4.3	ERQC25-5.5-4.3	ERQC32-5.5-4.3	ERQC40-5.5-4.3

ER-QUICK CHANGE RIGID TAP COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
5.6	4.5	ERQC16-5.6-4.5	ERQC20-5.6-4.5	ERQC25-5.6-4.5	ERQC32-5.6-4.5	ERQC40-5.6-4.5
6.0	4.5	ERQC16-6.0-4.5	ERQC20-6.0-4.5	ERQC25-6.0-4.5	ERQC32-6.0-4.5	ERQC40-6.0-4.5
6.0	4.9	ERQC16-6.0-4.9	ERQC20-6.0-4.9	ERQC25-6.0-4.9	ERQC32-6.0-4.9	ERQC40-6.0-4.9
6.3	5.0	ERQC16-6.3-5.0	ERQC20-6.3-5.0	ERQC25-6.3-5.0	ERQC32-6.3-5.0	ERQC40-6.3-5.0
7.0	5.0	ERQC16-7.0-5.0	ERQC20-7.0-5.0	ERQC25-7.0-5.0	ERQC32-7.0-5.0	ERQC40-7.0-5.0
7.0	5.5	ERQC16-7.0-5.5	ERQC20-7.0-5.5	ERQC25-7.0-5.5	ERQC32-7.0-5.5	ERQC40-7.0-5.5
7.1	5.6	ERQC16-7.1-5.6	ERQC20-7.1-5.6	ERQC25-7.1-5.6	ERQC32-7.1-5.6	ERQC40-7.1-5.6
8.0	6.0		ERQC20-8.0-6.0	ERQC25-8.0-6.0	ERQC32-8.0-6.0	ERQC40-8.0-6.0
8.0	6.2		ERQC20-8.0-6.2	ERQC25-8.0-6.2	ERQC32-8.0-6.2	ERQC40-8.0-6.2
8.0	6.3		ERQC20-8.0-6.3	ERQC25-8.0-6.3	ERQC32-8.0-6.3	ERQC40-8.0-6.3
8.5	6.5		ERQC20-8.5-6.5	ERQC25-8.5-6.5	ERQC32-8.5-6.5	ERQC40-8.5-6.5
9.0	7.0		ERQC20-9.0-7.0	ERQC25-9.0-7.0	ERQC32-9.0-7.0	ERQC40-9.0-7.0
10.0	8.0		ERQC20-10.0-8.0	ERQC25-10.0-8.0	ERQC32-10.0-8.0	ERQC40-10.0-8.0
10.5	8.0		ERQC20-10.5-8.0	ERQC25-10.5-8.0	ERQC32-10.5-8.0	ERQC40-10.5-8.0
11.0	9.0			ERQC25-11.0-9.0	ERQC32-11.0-9.0	ERQC40-11.0-9.0
11.2	9.0			ERQC25-11.2-9.0	ERQC32-11.2-9.0	ERQC40-11.2-9.0
12.0	9.0			ERQC25-12.0-9.0	ERQC32-12.0-9.0	ERQC40-12.0-9.0
12.5	10.0			ERQC25-12.5-10.0	ERQC32-12.5-10.0	ERQC40-12.5-10.0
14.0	11.0				ERQC32-14.0-11.0	ERQC40-14.0-11.0
14.0	11.2				ERQC32-14.0-11.2	ERQC40-14.0-11.2
15.0	12.0				ERQC32-15.0-12.0	ERQC40-15.0-12.0
16.0	12.0				ERQC32-16.0-12.0	ERQC40-16.0-12.0
16.0	12.5				ERQC32-16.0-12.5	ERQC40-16.0-12.5
17.0	13.0					ERQC40-17.0-13.0
18.0	14.5					ERQC40-18.0-14.5
18.0	14.0					ERQC40-18.0-14.0
19.0	15.0					ERQC40-19.0-15.0
20.0	16.0					ERQC40-20.0-16.0
20.0	15.0					ERQC40-20.0-15.0
22.0	18.0					ERQC40-22.0-18.0
22.4	18.0					ERQC40-22.4-18.0
25.0	20.0					ERQC40-25.0-20.0
28.0	22.0					ERQC40-28.0-22.0
28.0	22.4					ERQC40-28.0-22.4
31.5	25.0					ERQC40-31.5-25.0
32.0	24.0					ERQC40-32.0-24.0
36.0	29.0					ERQC40-36.0-29.0

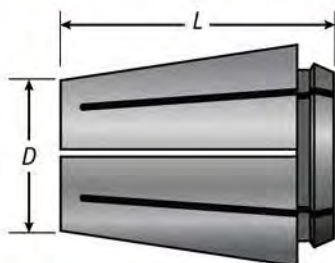
DNA (DEADNUTS ACCURATE) OR-RTX COLLETS

ACCURACY:



Standard Precision Collets	below 15 micron	0.00059"
High Precision Collets	below 10 micron	0.00039"
Ultra Precision Collets	below 5 micron	0.00019"

DIMENSIONS:



COLLET	D	L
DNA 11	.673	.460
DNA 16	.945	.654
DNA 20	1.201	.815
DNA 25	1.339	1.010
DNA 32	1.571	1.301
DNA 40	1.776	1.617

FEATURES:

01

DNA/RTx collets have a much shorter projection outside of the collet pocket

02

More rigid hold for small diameter tools and repeatable accuracy

03

DNA/RTx collets work in standard ER collet chucks – only a collet and nut required

04

Longer tool-life and superior tool performance!

05

METRIC & INCH sizes

06

Only nominal size can be clamped

DNA (DEAD NUTS ACCURATE) OR-RTX COLLETS

INCH SIZE	MM SIZE	DNA16 RTx16	DNA20 RTx20	DNA25 RTx25	DNA32 RTx32	DNA40 RTx40
	3.0	RTx16-3.0mm	RTx20-3.0mm	RTx25-3.0mm	RTx32-3.0mm	RTx40-3.0mm
1/8		RTx16-1/8	RTx20-1/8	RTx25-1/8	RTx32-1/8	RTx40-1/8
5/32		RTx16-5/32	RTx20-5/32	RTx25-5/32	RTx32-5/32	RTx40-5/32
	4.0	RTx16-4.0mm	RTx20-4.0mm	RTx25-4.0mm	RTx32-4.0mm	RTx40-4.0mm
3/16		RTx16-3/16	RTx20-3/16	RTx25-3/16	RTx32-3/16	RTx40-3/16
	5.0	RTx16-5.0mm	RTx20-5.0mm	RTx25-5.0mm	RTx32-5.0mm	RTx40-5.0mm
7/32		RTx16-7/32	RTx20-7/32	RTx25-7/32	RTx32-7/32	RTx40-7/32
	6.0	RTx16-6.0mm	RTx20-6.0mm	RTx25-6.0mm	RTx32-6.0mm	RTx40-6.0mm
1/4		RTx16-1/4	RTx20-1/4	RTx25-1/4	RTx32-1/4	RTx40-1/4
	7.0	RTx16-7.0mm	RTx20-7.0mm	RTx25-7.0mm	RTx32-7.0mm	RTx40-7.0mm
9/32		RTx16-9/32	RTx20-9/32	RTx25-9/32	RTx32-9/32	RTx40-9/32
5/16		RTx16-5/16	RTx20-5/16	RTx25-5/16	RTx32-5/16	RTx40-5/16
	8.0	RTx16-8.0mm	RTx20-8.0mm	RTx25-8.0mm	RTx32-8.0mm	RTx40-8.0mm
11/32		RTx16-11/32	RTx20-11/32	RTx25-11/32	RTx32-11/32	RTx40-11/32
	9.0	RTx16-9.0mm	RTx20-9.0mm	RTx25-9.0mm	RTx32-9.0mm	RTx40-9.0mm
3/8		RTx16-3/8	RTx20-3/8	RTx25-3/8	RTx32-3/8	RTx40-3/8
	10.0	RTx16-10.0mm	RTx20-10.0mm	RTx25-10.0mm	RTx32-10.0mm	RTx40-10.0mm
13/32			RTx20-13/32	RTx25-5-13/32	RTx32-2-13/32	RTx40-0-13/32
	11.0		RTx20-11.0mm	RTx25-11.0mm	RTx32-11.0mm	RTx40-11.0mm
7/16			RTx20-7/16	RTx25-7/16	RTx32-7/16	RTx40-7/16
1/16			RTx20-1/16	RTx25-1/16	RTx32-1/16	RTx40-1/16
15/32			RTx20-15/32	RTx25-15/32	RTx32-15/32	RTx40-15/32
	12.0		RTx20-12.0mm	RTx25-12.0mm	RTx32-12.0mm	RTx40-12.0mm
1/2			RTx20-1/2	RTx25-1/2	RTx32-1/2	RTx40-1/2
	13.0		RTx20-13.0mm	RTx25-13.0mm	RTx32-13.0mm	RTx40-13.0mm
17/32				RTx25-17/32	RTx32-17/32	RTx40-17/32
	14.0			RTx25-14.0mm	RTx32-14.0mm	RTx40-14.0mm
9/16				RTx25-9/16	RTx32-9/16	RTx40-9/16
	15.0			RTx25-15.0mm	RTx32-15.0mm	RTx40-15.0mm
19/32				RTx25-19/32	RTx32-19/32	RTx40-19/32
5/8				RTx25-5/8	RTx32-5/8	RTx40-5/8
	16.0			RTx25-16.0mm	RTx32-16.0mm	RTx40-16.0mm
21/32					RTx32-21/32	RTx40-21/32
	17.0				RTx32-17.0mm	RTx40-17.0mm
11/16					RTx32-11/16	RTx40-11/16
	18.0				RTx32-18.0mm	RTx40-18.0mm
23/32					RTx32-23/32	RTx40-23/32
	19.0				RTx32-19.0mm	RTx40-19.0mm
3/4					RTx32-3/4	RTx40-3/4
25/32					RTx32-25/32	RTx40-25/32
	20.0				RTx32-20.0mm	RTx40-20.0mm

DNA (DEADNUTS ACCURATE) OR RTX COLLETS

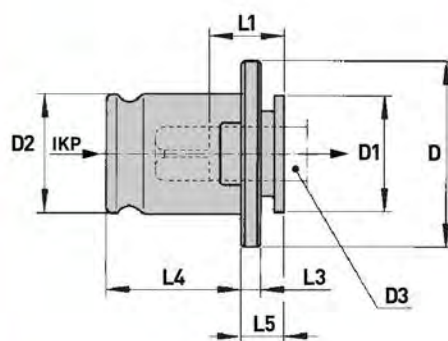
INCH SIZE	MM SIZE	DNA16 RTx16	DNA20 RTx20	DNA25 RTx25	DNA32 RTx32	DNA40 RTx40
13/16	21.0				RTx32-13/16	RTx40-13/16
27/32	22.0					RTx40-21mm
7/8	23.0					RTx40-27/32
29/32	24.0					RTx40-22.0mm
15/16	25.0					RTx40-7/8
31/32	26.0					RTx40-23.0mm
1						RTx40-29/32
						RTx40-15/16
						RTx40-24.0mm
						RTx40-31/32
						RTx40-25.0mm
						RTx40-1
						RTx40-26.0mm

QUICK CHANGE TAP

ADAPTERS / COLLETS

DIMENSIONS:

**WE-
QUICK
CHANGE
ADAPTER**

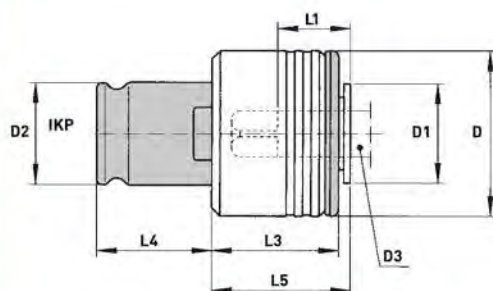


WE...B, DIN	WE 0	WE 1	WE 2	WE 3	WE 4 B	WE 40 B
	M1-M10	M3-M12	M8-M20	M14-M33	M22-M48	M6-M18
d3	2,5-8	3,5-11,3	7-18	11-28	18-36	6-14
	0	1+32	2	3	4	40
d	22	30	48	70	92	40
d1	13	19	30	48	60	25
d2	13	19	31	48	60	26
l1	15	17	30	44	71	30
l3	4	4	5	6	13	5
l4	19,5	21,5	35	55,5	63	32
l5	7	7	11	14	42	13

TAPPING ADAPTERS/ COLLETS - QUICK CHANGE

DIMENSIONS:

WES - WITH SAFETY CLUTCH



WES...B, DIN	WES 0 B	WES 1 B	WES 2 B	WES 3 B	WES 4 B	WES 40 B
	M1-M10	M3-M12	M8-M20	M14-M33	M22-M48	M6-M18
d3	2,5-8	3,5-11,3	7-18	11-28	18-36	6-14
	0	1+32	2	3	4	40
d	23	32	48	70	92	40
d1	13	19	30	48	60	25
d2	13	19	31	48	60	26
l1	15	17	30	44	71	30
l3	20	25	5	6	13	5
l4	19,5	21,5	35	55,5	63	32
l5	21	25	11	21	14	13

FEATURES:

01

Change Taps
in seconds

02

Prevent Broken
Taps

03

Automatically stops
spinning when
bottom is reached

04

Metric & Inch
Collets / Adapters

TAPPING ADAPTERS/COLLETS

QUICK CHANGE

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	SIZE - 0	SIZE - 1	SIZE - 2	SIZE - 3
#0-6	0.141	0.110	WE/S0-141	WE/S1-141		
#8	0.168	0.131	WE/S0-168	WE/S1-168		
#10	0.194	0.152	WE/S0-194	WE/S1-194		
#12	0.220	0.165	WE/S0-220	WE/S1-220		
1/4	0.255	0.191	WE/S0-255	WE/S1-255		
5/16	0.318	0.238		WE/S1-318	WE/S2-318	
3/8	0.381	0.286		WE/S1-381	WE/S2-381	
7/16	0.323	0.242		WE/S1-323	WE/S2-323	
1/2	0.367	0.275		WE/S1-367	WE/S2-367	WE/S3-367
9/16	0.429	0.322		WE/S1-429	WE/S2-429	WE/S3-429
5/8	0.480	0.360			WE/S2-480	WE/S3-480
11/16	0.542	0.406			WE/S2-542	WE/S3-542
3/4	0.590	0.442			WE/S2-590	WE/S3-590
13/16	0.652	0.489			WE/S2-652	WE/S3-652
7/8	0.697	0.523			WE/S2-697	WE/S3-697
15/16	0.760	0.570				
1"	0.800	0.600				
1/16-P	0.3125	0.234	WE/S0-3125	WE/S1-3125	WE/S2-3125	
1/8s-P	0.3125	0.234	WE/S0-3125s	WE/S1-3125s	WE/S2-3125s	
1/8-P	0.4375	0.328		WE/S1-4375	WE/S2-4375	
1/4-P	0.5625	0.421			WE/S2-5625	WE/S3-5625
3/8-P	0.7000	0.531				WE/S3-7000
1/2-P	0.6875	0.515				WE/S3-6875

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	SIZE - 0	SIZE - 1	SIZE - 2	SIZE - 3	SIZE - 4
2.8	2.1	WE/S0-2.8-2.1	WE/S1-2.8-2.1			
3.0	2.5	WE/S0-3.0-2.5	WE/S1-3.0-2.5			
3.15	2.5	WE/S0-3.15-2.5	WE/S1-3.15-2.5			
3.5	2.7	WE/S0-3.5-2.7	WE/S1-3.5-2.7			
3.55	2.8	WE/S0-3.55-2.8	WE/S1-3.55-2.8			
4.0	3.0	WE/S0-4.0-3.0	WE/S1-4.0-3.0			
4.0	3.2	WE/S0-4.0-3.2	WE/S1-4.0-3.2			
4.5	3.4	WE/S0-4.5-3.4	WE/S1-4.5-3.4			
5.0	4.0	WE/S0-5.0-4.0	WE/S1-5.0-4.0			
5.5	4.3	WE/S0-5.5-4.3	WE/S1-5.5-4.3			
5.6	4.5	WE/S0-5.6-4.5	WE/S1-5.6-4.5			

TAPPING ADAPTERS/COLLETS

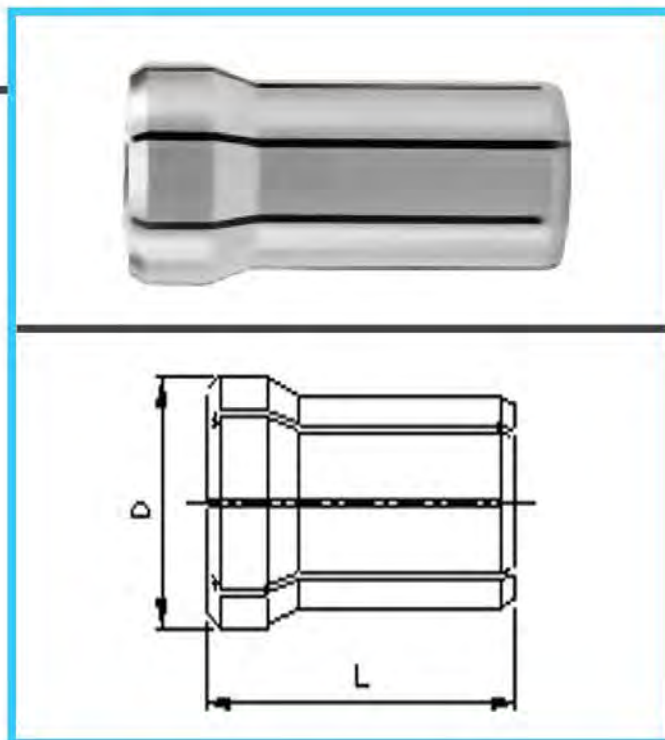
ADAPTERS/COLLETS

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	SIZE - 0	SIZE - 1	SIZE - 2	SIZE - 3	SIZE - 4
6.0	4.5	WE/S0-6.0-4.5	WE/S1-6.0-4.5			
6.0	4.9	WE/S0-6.0-4.9	WE/S1-6.0-4.9	WE/S2-6.0-4.9		
6.3	5.0	WE/S0-6.3-5.0	WE/S1-6.3-5.0	WE/S2-6.3-5.0		
7.0	5.0	WE/S0-7.0-5.0	WE/S1-7.0-5.0	WE/S2-7.0-5.0		
7.0	5.5	WE/S0-7.0-5.5	WE/S1-7.0-5.5	WE/S2-7.0-5.5		
7.1	5.6	WE/S0-7.1-5.6	WE/S1-7.1-5.6	WE/S2-7.1-5.6		
8.0	6.0	WE/S0-8.0-6.0	WE/S1-8.0-6.0	WE/S2-8.0-6.0		
8.0	6.2	WE/S0-8.0-6.2	WE/S1-8.0-6.2	WE/S2-8.0-6.2		
8.0	6.3		WE/S1-8.0-6.3	WE/S2-8.0-6.3		
8.5	6.5		WE/S1-8.5-6.5	WE/S2-8.5-6.5		
9.0	7.0		WE/S1-9.0-7.0	WE/S2-9.0-7.0		
10.0	8.0		WE/S1-10.0-8.0	WE/S2-10.0-8.0		
10.5	8.0		WE/S1-10.5-8.0	WE/S2-10.5-8.0		
11.0	9.0		WE/S1-11.0-9.0	WE/S2-11.0-9.0	WE/S3-11.0-9.0	
11.2	9.0			WE/S2-11.2-9.0	WE/S3-11.2-9.0	
12.0	9.0			WE/S2-12.0-9.0	WE/S3-12.0-9.0	
12.5	10.0			WE/S2-12.5-10.0	WE/S3-12.5-10.0	
14.0	11.0			WE/S2-14.0-11.0	WE/S3-14.0-11.0	
14.0	11.2			WE/S2-14.0-11.2	WE/S3-14.0-11.2	
15.0	12.0			WE/S2-15.0-12.0	WE/S3-15.0-12.0	
16.0	12.0			WE/S2-16.0-12.0	WE/S3-16.0-12.0	
16.0	12.5			WE/S2-16.0-12.5	WE/S3-16.0-12.5	
17.0	13.0			WE/S2-17.0-13.0	WE/S3-17.0-13.0	
18.0	14.0			WE/S2-18.0-14.0	WE/S3-18.0-14.0	WE/S4-18.0-14.0
18.0	14.5			WE/S2-18.0-14.5	WE/S3-18.0-14.5	WE/S4-18.0-14.5
19.0	15.0				WE/S3-19.0-15.0	WE/S4-19.0-15.0
20.0	16.0				WE/S3-20.0-16.0	WE/S4-20.0-16.0
20.0	15.0				WE/S3-20.0-15.0	WE/S4-20.0-15.0
22.0	18.0				WE/S3-22.0-18.0	WE/S4-22.0-18.0
22.4	18.0				WE/S3-22.4-18.0	WE/S4-22.4-18.0
25.0	20.0				WE/S3-25.0-20.0	WE/S4-25.0-20.0
28.0	22.0				WE/S3-28.0-22.0	WE/S4-28.0-22.0
28.0	22.4				WE/S3-28.0-22.4	WE/S4-28.0-22.4
31.5	25.0					WE/S4-31.5-25.0
32.0	24.0					WE/S4-32.0-24.0
36.0	29.0					WE/S4-36.0-29.0

DA-COLLETS

DIMENSIONS:



DA COLLET DIMENSION	DA 100	DA 180	DA 200	DA 300
D	0.769"	1.035"	0.532"	0.375"
L	1.44"	1.64"	1.19"	1.004
BORE RANGE	3/64-9/16	1/32-3/4	1/16-3/8	1/32-1/4
ACCURACY	0.0005" T.I.R. (at nose)			

FEATURES:

01

Double-Angle
(Erickson) Collet

02

DA 300, DA 200,
DA 100, DA 180 &
DA 400 Series available

03

Suitable for
Drilling, Reaming &
Tapping applications

04

DA Sealed Collets
available

DA COLLETS

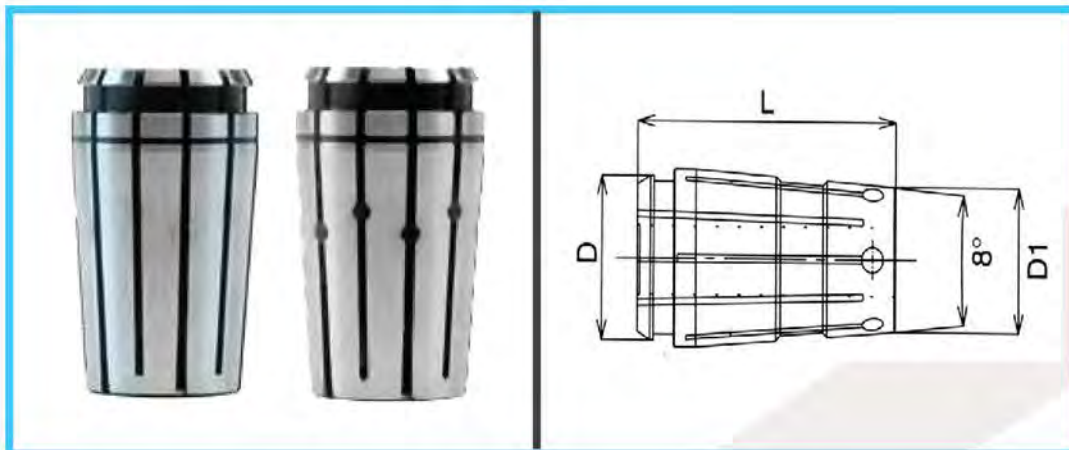
INCH SIZE	MM SIZE	DEC. MM	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
3/64		1.19	DA100-3/64	DA180-3/64	DA200-3/64	DA300-3/64	
	1.5	1.50	DA100-1.5mm	DA180-1.5mm	DA200-1.5mm	DA300-1.5mm	
5/64		1.98	DA100-5/64	DA180-5/64	DA200-5/64	DA300-5/64	
	2.0	2.00	DA100-2.0mm	DA180-2.0mm	DA200-2.0mm	DA300-2.0mm	
3/32		2.38	DA100-3/32	DA180-3/32	DA200-3/32	DA300-3/32	
	2.5	2.50	DA100-2.5mm	DA180-2.5mm	DA200-2.5mm	DA300-2.5mm	
7/64		2.78	DA100-7/64	DA180-7/64	DA200-7/64	DA300-7/64	
	3.0	3.00	DA100-3.0mm	DA180-3.0mm	DA200-3.0mm	DA300-3.0mm	
1/8		3.18	DA100-1/8	DA180-1/8	DA200-1/8	DA300-1/8	
	3.5	3.50	DA100-3.5mm	DA180-3.5mm	DA200-3.5mm	DA300-3.5mm	
9/64		3.57	DA100-9/64	DA180-9/64	DA200-9/64	DA300-9/64	
5/32		3.97	DA100-5/32	DA180-5/32	DA200-5/32	DA300-5/32	
	4.0	4.00	DA100-4.0mm	DA180-4.0mm	DA200-4.0mm	DA300-4.0mm	
11/64		4.37	DA100-11/64	DA180-11/64	DA200-11/64	DA300-11/64	
	4.5	4.50	DA100-4.5mm	DA180-4.5mm	DA200-4.5mm	DA300-4.5mm	
3/16		4.76	DA100-3/16	DA180-3/16	DA200-3/16	DA300-3/16	
	5.0	5.00	DA100-5.0mm	DA180-5.0mm	DA200-5.0mm	DA300-5.0mm	
13/64		5.16	DA100-13/64	DA180-13/64	DA200-13/64	DA300-13/64	
	5.5	5.50	DA100-5.5mm	DA180-5.5mm	DA200-5.5mm	DA300-5.5mm	
7/32		5.56	DA100-7/32	DA180-7/32	DA200-7/32	DA300-7/32	
15/64		5.95	DA100-15/64	DA180-15/64	DA200-15/64	DA300-15/64	
	6.0	6.00	DA100-6.0mm	DA180-6.0mm	DA200-6.0mm	DA300-6.0mm	DA400-6.0mm
1/4		6.35	DA100-1/4	DA180-1/4	DA200-1/4	DA300-1/4	DA400-1/4
	6.5	6.50	DA100-6.5mm	DA180-6.5mm	DA200-6.5mm		DA400-6.5mm
17/64		6.75	DA100-17/64	DA180-17/64	DA200-17/64		DA400-17/64
	7.0	7.00	DA100-7.0mm	DA180-7.0mm	DA200-7.0mm		DA400-7.0mm
9/32		7.14	DA100-9/32	DA180-9/32	DA200-9/32		DA400-9/32
	7.5	7.50	DA100-7.5mm	DA180-7.5mm	DA200-7.5mm		DA400-7.5mm
19/64		7.54	DA100-19/64	DA180-19/64	DA200-19/64		DA400-19/64
5/16		7.94	DA100-5/16	DA180-5/16	DA200-5/16		DA400-5/16
	8.0	8.00	DA100-8.0mm	DA180-8.0mm	DA200-8.0mm		DA400-8.0mm
21/64		8.33	DA100-21/64	DA180-21/64	DA200-21/64		DA400-21/64
	8.5	8.50	DA100-8.5mm	DA180-8.5mm	DA200-8.5mm		DA400-8.5mm
11/32		8.73	DA100-11/32	DA180-11/32	DA200-11/32		DA400-11/32
	9.0	9.00	DA100-9.0mm	DA180-9.0mm	DA200-9.0mm		DA400-9.0mm
23/64		9.13	DA100-23/64	DA180-23/64	DA200-23/64		DA400-23/64
	9.5	9.50	DA100-9.5mm	DA180-9.5mm	DA200-9.5mm		DA400-9.5mm
3/8		9.53	DA100-3/8	DA180-3/8	DA200-3/8		DA400-3/8
25/64		9.92	DA100-25/64	DA180-25/64			DA400-25/64
	10.0	10.00	DA100-10.0mm	DA180-10.0mm			DA400-10.0mm
13/32		10.32	DA100-00-13/32	DA180-80-13/32			DA400-00-13/32

DA COLLETS

INCH SIZE	MM SIZE	DEC. MM	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
	10.5	10.50	DA100-27/64	DA180-10.5mm			DA400-10.5mm
27/64		10.72	DA100-11.0mm	DA180-27/64			DA400-27/64
	11.0	11.00	DA100-7/16	DA180-11.0mm			DA400-11.0mm
7/16		11.11	DA100-11.5mm	DA180-7/16			DA400-7/16
	11.5	11.50	DA100-29/64	DA180-11.5mm			DA400-11.5mm
29/64		11.51	DA100-1/16	DA180-29/64			DA400-29/64
15/32		11.91	DA100-12.0mm	DA180-15/32			DA400-15/32
	12.0	12.00	DA100-31/64	DA180-12.0mm			DA400-12.0mm
31/64		12.30	DA100-12.5mm	DA180-31/64			DA400-31/64
	12.5	12.50	DA100-1/2	DA180-12.5mm			DA400-12.5mm
1/2		12.70	DA100-13.0mm	DA180-1/2			DA400-1/2
	13.0	13.00	DA100-33/64	DA180-13.0mm			DA400-13.0mm
33/64		13.10	DA100-17/32	DA180-33/64			DA400-33/64
17/32		13.49	DA100-13.5mm	DA180-17/32			DA400-17/32
	13.5	13.50	DA100-35/64	DA180-13.5mm			DA400-13.5mm
35/64		13.89	DA100-14.0mm	DA180-35/64			DA400-35/64
	14.0	14.00	DA100-9/16	DA180-14.0mm			DA400-14.0mm
9/16		14.29		DA180-9/16			DA400-9/16
	14.5	14.50		DA180-14.5mm			DA400-14.5mm
37/64		14.68		DA180-37/64			DA400-37/64
	15.0	15.00		DA180-15.0mm			DA400-15.0mm
19/32		15.08		DA180-19/32			DA400-19/32
39/64		15.48		DA180-39/64			DA400-39/64
	15.5	15.50		DA180-15.5mm			DA400-15.5mm
5/8		15.88		DA180-5/8			DA400-5/8
	16.0	16.00		DA180-16.0mm			DA400-16.0mm
41/64		16.27		DA180-41/64			DA400-41/64
	16.5	16.50		DA180-16.5mm			DA400-16.5mm
21/32		16.67		DA180-21/32			DA400-21/32
	17.0	17.00		DA180-17.0mm			DA400-17.0mm
43/64		17.07		DA180-43/64			DA400-43/64
11/16		17.46		DA180-11/16			DA400-11/16
	17.5	17.50		DA180-17.5mm			DA400-17.5mm
45/64		17.86		DA180-45/64			DA400-45/64
	18.0	18.00		DA180-18.0mm			DA400-18.0mm
23/32		18.26		DA180-23/32			DA400-23/32
	18.5	18.50		DA180-18.5mm			DA400-18.5mm
47/64		18.65		DA180-47/64			DA400-47/64
	19.0	19.00		DA180-19.0mm			DA400-19.0mm
3/4		19.05		DA180-3/4			DA400-3/4

TG-COLLETS REGULAR & SEALED

DIMENSIONS:



DIMENSION	TG 75	TG 100	TG 150
D	1.063"	1.278"	1.875"
L	1.844"	2.386"	3.000"
Bore Range	3/64 - 3/4	3/64 - 1"	1/2 - 1-1/2"

FEATURES:

01

TG Collets collapse approx. 1/64"

02

Machined to exacting standards

03

Ideal choice for high speed and high precision milling and drilling operations

04

TG Coolant Collets are designed for use with tooling requiring through spindle coolant

05

Tolerance: 0.0003 at collet nose

TG COLLETS

REGULAR & SEALED

INCH SIZE	MM SIZE	DEC. MM	TG75 420E	TG100 464E	TG150 466E
1/8		3.18	TG75-1/8	TG100-1/8	
9/64		3.57	TG75-9/64	TG100-9/64	
5/32		3.97	TG75-5/32	TG100-5/32	
	4.0	4.00	TG75-4.0mm	TG100-4.0mm	
11/64		4.37	TG75-11/64	TG100-11/64	
3/16		4.76	TG75-3/16	TG100-3/16	
	5.0	5.00	TG75-5.0mm	TG100-5.0mm	
13/64		5.16	TG75-13/64	TG100-13/64	
7/32		5.56	TG75-7/32	TG100-7/32	
15/64		5.95	TG75-15/64	TG100-15/64	
	6.0	6.00	TG75-6.0mm	TG100-6.0mm	
1/4		6.35	TG75-1/4	TG100-1/4	
17/64		6.75	TG75-17/64	TG100-17/64	
	7.0	7.00	TG75-7.0mm	TG100-7.0mm	
9/32		7.14	TG75-9/32	TG100-9/32	
19/64		7.54	TG75-19/64	TG100-19/64	
5/16		7.94	TG75-5/16	TG100-5/16	
	8.0	8.00	TG75-8.0mm	TG100-8.0mm	
21/64		8.33	TG75-21/64	TG100-21/64	
11/32		8.73	TG75-11/32	TG100-11/32	
	9.0	9.00	TG75-9.0mm	TG100-9.0mm	
23/64		9.13	TG75-23/64	TG100-23/64	
3/8		9.53	TG75-3/8	TG100-3/8	TG150-3/8
25/64		9.92	TG75-25/64	TG100-25/64	TG150-25/64
	10.0	10.00	TG75-10.0mm	TG100-10.0mm	TG150-10.0mm
13/32		10.32	TG75-5-13/32	TG100-00-13/32	TG150-00-13/32
27/64		10.72	TG75-27/64	TG100-27/64	TG150-27/64
	11.0	11.00	TG75-11.0mm	TG100-11.0mm	TG150-11.0mm
7/16		11.11	TG75-7/16	TG100-7/16	TG150-7/16
29/64		11.51	TG75-29/64	TG100-29/64	TG150-29/64
1/16		1.59	TG75-1/16	TG100-1/16	TG150-1/16
15/32		11.91	TG75-15/32	TG100-15/32	TG150-15/32
	12.0	12.00	TG75-12.0mm	TG100-12.0mm	TG150-12.0mm
31/64		12.30	TG75-31/64	TG100-31/64	TG150-31/64
1/2		12.70	TG75-1/2	TG100-1/2	TG150-1/2
	13.0	13.00	TG75-13.0mm	TG100-13.0mm	TG150-13.0mm
33/64		13.10	TG75-33/64	TG100-33/64	TG150-33/64
17/32		13.49	TG75-17/32	TG100-17/32	TG150-17/32
35/64		13.89	TG75-35/64	TG100-35/64	TG150-35/64
	14.0	14.00	TG75-14.0mm	TG100-14.0mm	TG150-14.0mm

TG COLLETS

REGULAR & SEALED

INCH SIZE	MM Size	DEC. MM	TG75 420E	TG100 464E	TG150 466E
9/16		14.29	TG75-9/16	TG100-9/16	TG150-9/16
37/64		14.68	TG75-37/64	TG100-37/64	TG150-37/64
	15.0	15.00	TG75-15.0mm	TG100-15.0mm	TG150-15.0mm
19/32		15.08	TG75-19/32	TG100-19/32	TG150-19/32
39/64		15.48	TG75-39/64	TG100-39/64	TG150-39/64
5/8		15.88	TG75-5/8	TG100-5/8	TG150-5/8
	16.0	16.00	TG75-16.0mm	TG100-16.0mm	TG150-16.0mm
41/64		16.27	TG75-41/64	TG100-41/64	TG150-41/64
21/32		16.67	TG75-21/32	TG100-21/32	TG150-21/32
	17.0	17.00	TG75-17.0mm	TG100-17.0mm	TG150-17.0mm
43/64		17.07	TG75-43/64	TG100-43/64	TG150-43/64
11/16		17.46	TG75-11/16	TG100-11/16	TG150-11/16
45/64		17.86	TG75-45/64	TG100-45/64	TG150-45/64
	18.0	18.00	TG75-18.0mm	TG100-18.0mm	TG150-18.0mm
23/32		18.26	TG75-23/32	TG100-23/32	TG150-23/32
47/64		18.65	TG75-47/64	TG100-47/64	TG150-47/64
	19.0	19.00	TG75-19.0mm	TG100-19.0mm	TG150-19.0mm
3/4		19.05	TG75-3/4	TG100-3/4	TG150-3/4
49/64		19.45		TG100-49/64	TG150-49/64
25/32		19.84		TG100-25/32	TG150-25/32
	20.0	20.00		TG100-20.0mm	TG150-20.0mm
51/64		20.24		TG100-51/64	TG150-51/64
13/16		20.64		TG100-13/16	TG150-13/16
	21.0	21.00		TG100-21.0mm	TG150-21.0mm
53/64		21.03		TG100-53/64	TG150-53/64
27/32		21.43		TG100-27/32	TG150-27/32
55/64		21.83		TG100-55/64	TG150-55/64
	22.0	22.00		TG100-22.0mm	TG150-22.0mm
7/8		22.23		TG100-7/8	TG150-7/8
57/64		22.62		TG100-57/64	TG150-57/64
	23.0	23.00		TG100-23.0mm	TG150-23.0mm
29/32		23.02		TG100-29/32	TG150-29/32
59/64		23.42		TG100-59/64	TG150-59/64
15/16		23.81		TG100-15/16	TG150-15/16
	24.0	24.00		TG100-24.0mm	TG150-24.0mm
61/64		24.21		TG100-61/64	TG150-61/64
31/32		24.61		TG100-31/32	TG150-31/32
	25.0	25.00		TG100-25.0mm	TG150-25.0mm
63/64		25.00		TG100-63/64	TG150-63/64
1		25.40		TG100-00-1	TG150-1

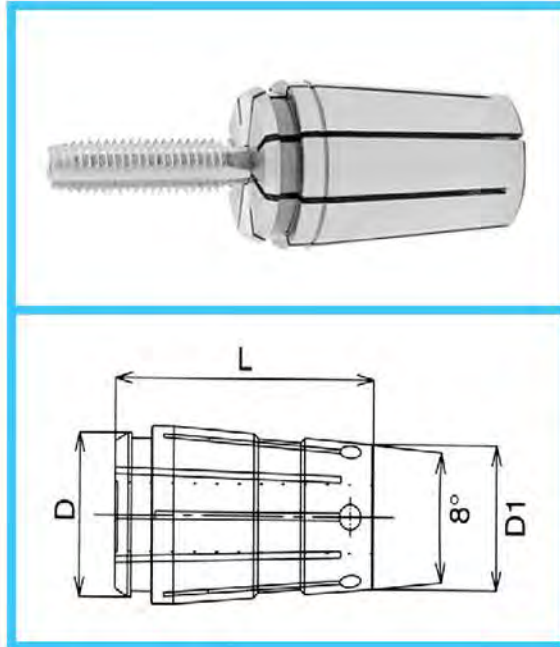
TG COLLETS

REGULAR & SEALED

Inch Size	MM Size	Dec. MM	TG75 420E	TG100 464E	TG150 466E
	26.0	26.00			TG150-26.0mm
1 1/16		26.99			TG150-1-1/16
	27.0	27.00			TG150-27.0mm
	28.0	28.00			TG150-28.0mm
1 1/8		28.58			TG150-1-1/8
	29.0	29.00			TG150-29.0mm
	30.0	30.00			TG150-30.0mm
1 3/16		30.16			TG150-1-3/16
	31.0	31.00			TG150-31.0mm
1 1/4		31.75			TG150-1-1/4
	32.0	32.00			TG150-32.0mm
	33.0	33.00			TG150-33.0mm
1 5/16		33.34			TG150-1-5/16
	34.0	34.00			TG150-34.0mm
1 3/8		34.93			TG150-1-3/8
	35.0	35.00			TG150-35.0mm
	36.0	36.00			TG150-36.0mm
1 7/16		36.51			TG150-1-7/16
	37.0	37.00			TG150-37.0mm
	38.0	38.00			TG150-38.0mm
1 1/2		38.10			TG150-1-1/2

TG TAP-COLLETS

DIMENSIONS:



DIMENSION	TG 75	TG 100	TG 150
D	1.063"	1.278"	1.875"
L	1.844"	2.386"	3.000"
Bore Range	3/64 - 3/4	3/64 - 1"	1/2 - 1-1/2"

FEATURES:

01

For synchronous tapping operation using Standard TG Collet Chuck.

02

Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity.

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	TG 75	TG100	TG150
1/4	0.255	0.191	TGT75-255	TGT100-255	TGT150-255
5/16	0.318	0.238	TGT75-318	TGT100-318	TGT150-318
3/8	0.381	0.286	TGT75-381	TGT100-381	TGT150-381
7/16	0.323	0.242	TGT75-323	TGT100-323	TGT150-323
1/2	0.367	0.275	TGT75-367	TGT100-367	TGT150-367
9/16	0.429	0.322	TGT75-429	TGT100-429	TGT150-429
5/8	0.480	0.360	TGT75-480	TGT100-480	TGT150-480
11/16	0.542	0.406	TGT75-542	TGT100-542	TGT150-542
3/4	0.590	0.442	TGT75-590	TGT100-590	TGT150-590
13/16	0.652	0.489	TGT75-652	TGT100-652	TGT150-652
7/8	0.697	0.523	TGT75-697	TGT100-697	TGT150-697
15/16	0.760	0.570	TGT75-760	TGT100-760	TGT150-760
1"	0.800	0.600	TGT75-800	TGT100-800	TGT150-800

DIN, ISO & JIS STANDARD TAPS

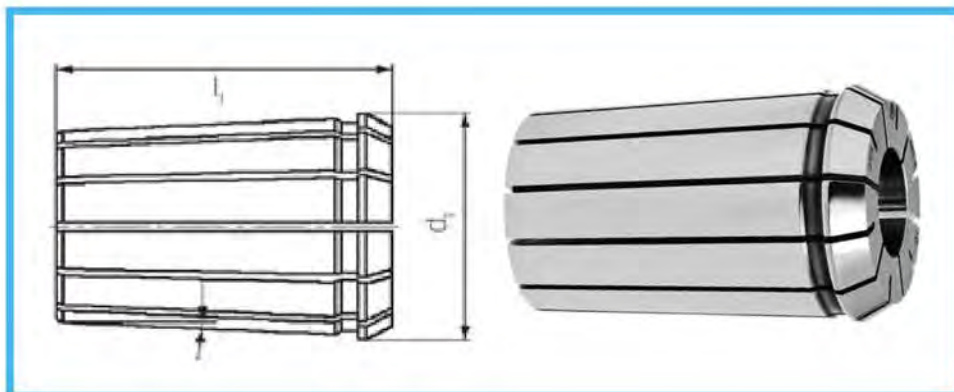
SHANKS SIZE	SQUARE SIZE	TG75	TG100	TG150
3.0	2.5	TGT75-3.0-2.5	TGT100-3.0-2.5	TGT150-3.0-2.5
3.15	2.5	TGT75-3.15-2.5	TGT100-3.15-2.5	TGT150-3.15-2.5
3.5	2.7	TGT75-3.5-2.7	TGT100-3.5-2.7	TGT150-3.5-2.7
3.55	2.8	TGT75-3.55-2.8	TGT100-3.55-2.8	TGT150-3.55-2.8
4.0	3.0	TGT75-4.0-3.0	TGT100-4.0-3.0	TGT150-4.0-3.0
4.0	3.2	TGT75-4.0-3.2	TGT100-4.0-3.2	TGT150-4.0-3.2
4.5	3.4	TGT75-4.5-3.4	TGT100-4.5-3.4	TGT150-4.5-3.4
5.0	4.0	TGT75-5.0-4.0	TGT100-5.0-4.0	TGT150-5.0-4.0
5.5	4.3	TGT75-5.5-4.3	TGT100-5.5-4.3	TGT150-5.5-4.3
5.6	4.5	TGT75-5.6-4.5	TGT100-5.6-4.5	TGT150-5.6-4.5
6.0	4.5	TGT75-6.0-4.5	TGT100-6.0-4.5	TGT150-6.0-4.5
6.0	4.9	TGT75-6.0-4.9	TGT100-6.0-4.9	TGT150-6.0-4.9
6.3	5.0	TGT75-6.3-5.0	TGT100-6.3-5.0	TGT150-6.3-5.0
7.0	5.0	TGT75-7.0-5.0	TGT100-7.0-5.0	TGT150-7.0-5.0
7.0	5.5	TGT75-7.0-5.5	TGT100-7.0-5.5	TGT150-7.0-5.5
7.1	5.6	TGT75-7.1-5.6	TGT100-7.1-5.6	TGT150-7.1-5.6
8.0	6.0	TGT75-8.0-6.0	TGT100-8.0-6.0	TGT150-8.0-6.0
8.0	6.2	TGT75-8.0-6.2	TGT100-8.0-6.2	TGT150-8.0-6.2
8.0	6.3	TGT75-8.0-6.3	TGT100-8.0-6.3	TGT150-8.0-6.3
8.5	6.5	TGT75-8.5-6.5	TGT100-8.5-6.5	TGT150-8.5-6.5
9.0	7.0	TGT75-9.0-7.0	TGT100-9.0-7.0	TGT150-9.0-7.0

TGTAP COLLETS

SHANK SIZE	SQUARE SIZE	TG75	TG100	TG150
10.0	8.0	TGT75-10.0-8.0	TGT100-10.0-8.0	TGT150-10.0-8.0
10.5	8.0	TGT75-10.5-8.0	TGT100-10.5-8.0	TGT150-10.5-8.0
11.0	9.0	TGT75-11.0-9.0	TGT100-11.0-9.0	TGT150-11.0-9.0
11.2	9.0	TGT75-11.2-9.0	TGT100-11.2-9.0	TGT150-11.2-9.0
12.0	9.0	TGT75-12.0-9.0	TGT100-12.0-9.0	TGT150-12.0-9.0
12.5	10.0	TGT75-12.5-10.0	TGT100-12.5-10.0	TGT150-12.5-10.0
14.0	11.0	TGT75-14.0-11.0	TGT100-14.0-11.0	TGT150-14.0-11.0
14.0	11.2	TGT75-14.0-11.2	TGT100-14.0-11.2	TGT150-14.0-11.2
15.0	12.0	TGT75-15.0-12.0	TGT100-15.0-12.0	TGT150-15.0-12.0
16.0	12.0	TGT75-16.0-12.0	TGT100-16.0-12.0	TGT150-16.0-12.0
16.0	12.5	TGT75-16.0-12.5	TGT100-16.0-12.5	TGT150-16.0-12.5
17.0	13.0		TGT100-17.0-13.0	TGT150-17.0-13.0
18.0	14.5		TGT100-18.0-14.5	TGT150-18.0-14.5
18.0	14.0		TGT100-18.0-14.0	TGT150-18.0-14.0
19.0	15.0		TGT100-19.0-15.0	TGT150-19.0-15.0
20.0	16.0		TGT100-20.0-16.0	TGT150-20.0-16.0
20.0	15.0		TGT100-20.0-15.0	TGT150-20.0-15.0
22.0	18.0		TGT100-22.0-18.0	TGT150-22.0-18.0
22.4	18.0		TGT100-22.4-18.0	TGT150-22.4-18.0
25.0	20.0		TGT100-25.0-20.0	TGT150-25.0-20.0

OZ/EOC-COLLETS

ACCURACY:



DIMENSIONS:

OZ SERIES	REFERENCE #	d1	l1
OZ6	400E	11.5mm	21mm
OZ8	401E	14.5mm	26mm
OZ10	404E	17.2mm	30mm
OZ12	407E	19.8mm	34mm
OZ16	415E	25.5mm	40mm
OZ20	4541E	29.8mm	45mm
OZ25	462E	35.05mm	52mm
OZ32	467E	43.7mm	60mm
OZ40	468E	52.2mm	68mm

FEATURES:

01

Fractional Collets manufactured specifically for USA market requirements

02

All edges are not only deburred, but additionally rounded for repeatability

03

Crafted from high quality European spring steel

04

Inch & Metric sizes available

05

More clamping force

OZ/EOC COLLETS

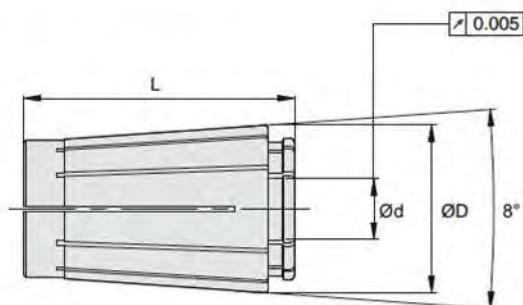
MM SIZE	OZ-6 400 E	OZ-8 401 E	OZ-10 404 E	OZ-12 407 E	OZ-16 415 E	OZ-20 4541E	OZ-25 462E	OZ-32 467E	OZ-40 468 E
	EOC-6	EOC-8	EOC-10	EOC-12	EOC-16	EOC-20	EOC-25	EOC-32	EOC-40
1	OZ6-1mm	OZ8-1mm	OZ10-1mm	OZ12-1mm					
1.5	OZ6-1.5mm	OZ8-1.5mm	OZ10-1.5mm	OZ12-1.5mm					
2	OZ6-2mm	OZ8-2mm	OZ10-2mm	OZ12-2mm	OZ16-2mm	OZ20-2mm			
2.5	OZ6-2.5mm	OZ8-2.5mm	OZ10-2.5mm	OZ12-2.5mm	OZ16-2.5mm	OZ20-2.5mm			
3	OZ6-3mm	OZ8-3mm	OZ10-3mm	OZ12-3mm	OZ16-3mm	OZ20-3mm			
3.5	OZ6-3.5mm	OZ8-3.5mm	OZ10-3.5mm	OZ12-3.5mm	OZ16-3.5mm	OZ20-3.5mm			
4	OZ6-4mm	OZ8-4mm	OZ10-4mm	OZ12-4mm	OZ16-4mm	OZ20-4mm	OZ25-4mm	OZ32-4mm	
4.5	OZ6-4.5mm	OZ8-4.5mm	OZ10-4.5mm	OZ12-4.5mm	OZ16-4.5mm	OZ20-4.5mm	OZ25-4.5mm	OZ32-4.5mm	
5	OZ6-5mm	OZ8-5mm	OZ10-5mm	OZ12-5mm	OZ16-5mm	OZ20-5mm	OZ25-5mm	OZ32-5mm	
5.5	OZ6-5.5mm	OZ8-5.5mm	OZ10-5.5mm	OZ12-5.5mm	OZ16-5.5mm	OZ20-5.5mm	OZ25-5.5mm	OZ32-5.5mm	
6	OZ6-6mm	OZ8-6mm	OZ10-6mm	OZ12-6mm	OZ16-6mm	OZ20-6mm	OZ25-6mm	OZ32-6mm	OZ40-6mm
6.5		OZ8-6.5mm	OZ10-6.5mm	OZ12-6.5mm	OZ16-6.5mm	OZ20-6.5mm	OZ25-6.5mm	OZ32-6.5mm	OZ40-6.5mm
7		OZ8-7mm	OZ10-7mm	OZ12-7mm	OZ16-7mm	OZ20-7mm	OZ25-7mm	OZ32-7mm	OZ40-7mm
7.5		OZ8-7.5mm	OZ10-7.5mm	OZ12-7.5mm	OZ16-7.5mm	OZ20-7.5mm	OZ25-7.5mm	OZ32-7.5mm	OZ40-7.5mm
8		OZ8-8mm	OZ10-8mm	OZ12-8mm	OZ16-8mm	OZ20-8mm	OZ25-8mm	OZ32-8mm	OZ40-8mm
8.5			OZ10-8.5mm	OZ12-8.5mm	OZ16-8.5mm	OZ20-8.5mm	OZ25-8.5mm	OZ32-8.5mm	OZ40-8.5mm
9			OZ10-9mm	OZ12-9mm	OZ16-9mm	OZ20-9mm	OZ25-9mm	OZ32-9mm	OZ40-9mm
9.5			OZ10-9.5mm	OZ12-9.5mm	OZ16-9.5mm	OZ20-9.5mm	OZ25-9.5mm	OZ32-9.5mm	OZ40-9.5mm
10			OZ10-10mm	OZ12-10mm	OZ16-10mm	OZ20-10mm	OZ25-10mm	OZ32-10mm	OZ40-10mm
10.5				OZ12-10.5mm	OZ16-10.5mm	OZ20-10.5mm	OZ25-10.5mm	OZ32-10.5mm	OZ40-10.5mm
11				OZ12-11mm	OZ16-11mm	OZ20-11mm	OZ25-11mm	OZ32-11mm	OZ40-11mm
11.5				OZ12-11.5mm	OZ16-11.5mm	OZ20-11.5mm	OZ25-11.5mm	OZ32-11.5mm	OZ40-11.5mm
12				OZ12-12mm	OZ16-12mm	OZ20-12mm	OZ25-12mm	OZ32-12mm	OZ40-12mm
12.5					OZ16-12.5mm	OZ20-12.5mm	OZ25-12.5mm	OZ32-12.5mm	OZ40-12.5mm
13					OZ16-13mm	OZ20-13mm	OZ25-13mm	OZ32-13mm	OZ40-13mm
13.5					OZ16-13.5mm	OZ20-13.5mm	OZ25-13.5mm	OZ32-13.5mm	OZ40-13.5mm
14					OZ16-14mm	OZ20-14mm	OZ25-14mm	OZ32-14mm	OZ40-14mm
14.5					OZ16-14.5mm	OZ20-14.5mm	OZ25-14.5mm	OZ32-14.5mm	OZ40-14.5mm
15					OZ16-15mm	OZ20-15mm	OZ25-15mm	OZ32-15mm	OZ40-15mm
15.5					OZ16-15.5mm	OZ20-15.5mm	OZ25-15.5mm	OZ32-15.5mm	OZ40-15.5mm
16					OZ16-16mm	OZ20-16mm	OZ25-16mm	OZ32-16mm	OZ40-16mm
16.5						OZ20-16.5mm	OZ25-16.5mm	OZ32-16.5mm	OZ40-16.5mm
17						OZ20-17mm	OZ25-17mm	OZ32-17mm	OZ40-17mm
17.5						OZ20-17.5mm	OZ25-17.5mm	OZ32-17.5mm	OZ40-17.5mm
18						OZ20-18mm	OZ25-18mm	OZ32-18mm	OZ40-18mm
18.5						OZ20-18.5mm	OZ25-18.5mm	OZ32-18.5mm	OZ40-18.5mm
19						OZ20-19mm	OZ25-19mm	OZ32-19mm	OZ40-19mm
19.5						OZ20-19.5mm	OZ25-19.5mm	OZ32-19.5mm	OZ40-19.5mm

OZ/EOC COLLETS

MM SIZE	OZ-6 400 E	OZ-8 401 E	OZ-10 404 E	OZ-12 407 E	OZ-16 415 E	OZ-20 4541E	OZ-25 462E	OZ-32 467E	OZ-40 468 E
	EOC-6	EOC-8	EOC-10	EOC-12	EOC-16	EOC-20	EOC-25	EOC-32	EOC-40
20							OZ25-20mm	OZ32-20mm	OZ40-20mm
20.5							OZ25-20.5mm	OZ32-20.5mm	OZ40-20.5mm
21							OZ25-21mm	OZ32-21mm	OZ40-21mm
21.5							OZ25-21.5mm	OZ32-21.5mm	OZ40-21.5mm
22							OZ25-22mm	OZ32-22mm	OZ40-22mm
22.5							OZ25-22.5mm	OZ32-22.5mm	OZ40-22.5mm
23							OZ25-23mm	OZ32-23mm	OZ40-23mm
23.5							OZ25-23.5mm	OZ32-23.5mm	OZ40-23.5mm
24							OZ25-24mm	OZ32-24mm	OZ40-24mm
24.5							OZ25-24.5mm	OZ32-24.5mm	OZ40-24.5mm
25							OZ25-25mm	OZ32-25mm	OZ40-25mm
25.5								OZ32-25.5mm	OZ40-25.5mm
26								OZ32-26mm	OZ40-26mm
27								OZ32-27mm	OZ40-27mm
28								OZ32-28mm	OZ40-28mm
29								OZ32-29mm	OZ40-29mm
30								OZ32-30mm	OZ40-30mm
31								OZ32-31mm	OZ40-31mm
32								OZ32-32mm	OZ40-32mm
33									OZ40-33mm
34									OZ40-34mm
35									OZ40-35mm
36									OZ40-36mm
37									OZ40-37mm
38									OZ40-38mm
39									OZ40-39mm
40									OZ40-40mm

SK-COLLETS SUPER COLLETS

ACCURACY:



DIMENSIONS:

SK COLLET SERIES	D	L
SK6	11mm	25mm
SK10	16mm	30mm
SK13	20mm	39mm
SK16	25mm	45mm
SK20	30mm	50mm
SK25	36mm	57mm

FEATURES:

01

Higher accuracy and rigidity compared to other collets

02

Applicable for all milling, drilling, reaming and rigid tapping applications

03

Covers sizes from .027" to 1"

04

Covers size from 1mm to 25mm

05

Inch & Metric sizes available

06

Accuracy - 5 micron or 0.00019"

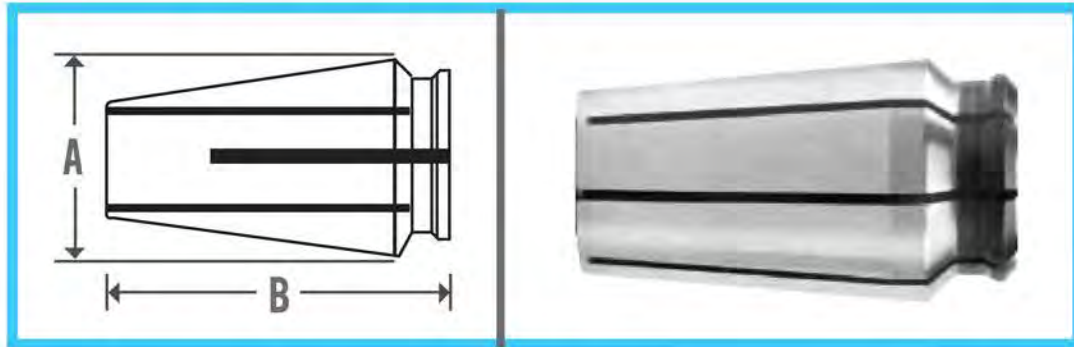
INCH SIZE	MM SIZE	SK6	SK10	SK13	SK16	SK20	SK25
3/32	2.0	SK6-2.0mm	SK10-2.0mm				
		SK6-3/32	SK10-3/32				
1/8	2.5	SK6-2.5mm	SK10-2.5mm				
	3.0	SK6-3.0mm	SK10-3.0mm	SK13-3.0mm	SK16-3.0mm	SK20-3.0mm	SK25-3.0mm
5/32		SK6-1/8	SK10-1/8	SK13-1/8	SK16-1/8	SK20-1/8	SK25-1/8
	3.5	SK6-3.5mm	SK10-3.5mm	SK13-3.5mm	SK16-3.5mm	SK20-3.5mm	SK25-3.5mm
3/16		SK6-5/32	SK10-5/32	SK13-5/32	SK16-5/32	SK20-5/32	SK25-5/32
	4.0	SK6-4.0mm	SK10-4.0mm	SK13-4.0mm	SK16-4.0mm	SK20-4.0mm	SK25-4.0mm
7/32	4.5	SK6-4.5mm	SK10-4.5mm	SK13-4.5mm	SK16-4.5mm	SK20-4.5mm	SK25-4.5mm
		SK6-3/16	SK10-3/16	SK13-3/16	SK16-3/16	SK20-3/16	SK25-3/16
1/4	5.0	SK6-5.0mm	SK10-5.0mm	SK13-5.0mm	SK16-5.0mm	SK20-5.0mm	SK25-5.0mm
	5.5	SK6-5.5mm	SK10-5.5mm	SK13-5.5mm	SK16-5.5mm	SK20-5.5mm	SK25-5.5mm
9/32		SK6-7/32	SK10-7/32	SK13-7/32	SK16-7/32	SK20-7/32	SK25-7/32
	6.0	SK6-6.0mm	SK10-6.0mm	SK13-6.0mm	SK16-6.0mm	SK20-6.0mm	SK25-6.0mm
5/16			SK10-1/4	SK13-1/4	SK16-1/4	SK20-1/4	SK25-1/4
	6.5		SK10-6.5mm	SK13-6.5mm	SK16-6.5mm	SK20-6.5mm	SK25-6.5mm
3/8	7.0		SK10-7.0mm	SK13-7.0mm	SK16-7.0mm	SK20-7.0mm	SK25-7.0mm
			SK10-9/32	SK13-9/32	SK16-9/32	SK20-9/32	SK25-9/32
7/16	7.5		SK10-7.5mm	SK13-7.5mm	SK16-7.5mm	SK20-7.5mm	SK25-7.5mm
			SK10-5/16	SK13-5/16	SK16-5/16	SK20-5/16	SK25-5/16
1/2	8.0		SK10-8.0mm	SK13-8.0mm	SK16-8.0mm	SK20-8.0mm	SK25-8.0mm
	8.5		SK10-8.5mm	SK13-8.5mm	SK16-8.5mm	SK20-8.5mm	SK25-8.5mm
9/16			SK10-11/32	SK13-11/32	SK16-11/32	SK20-11/32	SK25-11/32
	9.0		SK10-9.0mm	SK13-9.0mm	SK16-9.0mm	SK20-9.0mm	SK25-9.0mm
5/8	9.5		SK10-9.5mm	SK13-9.5mm	SK16-9.5mm	SK20-9.5mm	SK25-9.5mm
			SK10-3/8	SK13-3/8	SK16-3/8	SK20-3/8	SK25-3/8
11/16	10.0		SK10-10.0mm	SK13-10.0mm	SK16-10.0mm	SK20-10.0mm	SK25-10.0mm
				SK13-13/32	SK16-2-13/32	SK20-2-13/32	SK25-0-13/32
3/4	10.5			SK13-10.5mm	SK16-10.5mm	SK20-10.5mm	SK25-10.5mm
	11.0			SK13-11.0mm	SK16-11.0mm	SK20-11.0mm	SK25-11.0mm
7/8				SK13-7/16	SK16-7/16	SK20-7/16	SK25-7/16
	11.5			SK13-11.5mm	SK16-11.5mm	SK20-11.5mm	SK25-11.5mm
15/16				SK13-1/16	SK16-1/16	SK20-1/16	SK25-1/16
				SK13-15/32	SK16-15/32	SK20-15/32	SK25-15/32
1	12.0			SK13-12.0mm	SK16-12.0mm	SK20-12.0mm	SK25-12.0mm
	12.5			SK13-12.5mm	SK16-12.5mm	SK20-12.5mm	SK25-12.5mm
1 1/8				SK13-1/2	SK16-1/2	SK20-1/2	SK25-1/2
	13.0			SK13-13.0mm	SK16-13.0mm	SK20-13.0mm	SK25-13.0mm
1 1/4					SK16-17/32	SK20-17/32	SK25-17/32
	13.5				SK16-13.5mm	SK20-13.5mm	SK25-13.5mm
1 1/2	14.0				SK16-14.0mm	SK20-14.0mm	SK25-14.0mm

SK COLLETS

INCH SIZE	MM SIZE	SK6	SK10	SK13	SK16	SK20	SK25
9/16					SK16-9/16	SK20-9/16	SK25-9/16
	14.5				SK16-14.5mm	SK20-14.5mm	SK25-14.5mm
	15.0				SK16-15.0mm	SK20-15.0mm	SK25-15.0mm
19/32					SK16-19/32	SK20-19/32	SK25-19/32
	15.5				SK16-15.5mm	SK20-15.5mm	SK25-15.5mm
5/8					SK16-5/8	SK20-5/8	SK25-5/8
	16.0				SK16-16.0mm	SK20-16.0mm	SK25-16.0mm
	16.5					SK20-16.5mm	SK25-16.5mm
21/32						SK20-21/32	SK25-21/32
	17.0					SK20-17.0mm	SK25-17.0mm
11/16						SK20-11/16	SK25-11/16
	17.5					SK20-17.5mm	SK25-17.5mm
	18.0					SK20-18.0mm	SK25-18.0mm
23/32						SK20-23/32	SK25-23/32
	18.5					SK20-18.5mm	SK25-18.5mm
	19.0					SK20-19.0mm	SK25-19.0mm
3/4						SK20-3/4	SK25-3/4
	19.5					SK20-19.5mm	SK25-19.5mm
25/32						SK20-25/32	SK25-25/32
	20.0					SK20-20.0mm	SK25-20.0mm
	20.5					SK20-20.5mm	SK25-20.5mm
13/16						SK20-13/16	SK25-13/16
	21.0						SK25-21mm
27/32							SK25-27/32
	21.5						SK25-21.5mm
	22.0						SK25-22.0mm
7/8							SK25-7/8
	22.5						SK25-22.5mm
	23.0						SK25-23.0mm
29/32							SK25-29/32
	23.5						SK25-23.5mm
15/16							SK25-15/16
	24.0						SK25-24.0mm
	24.5						SK25-24.5mm
31/32							SK25-31/32
	25.0						SK25-25.0mm

AF-COLLETS

ACCURACY:



DIMENSIONS:

DIMENSION	A	B
AF 25	0.457"	1.000"
AF 38	0.581"	1.030"
AF 50	0.741"	1.160"
AF 75	1.141"	2.020"
AF 100	1.462"	2.500"

FEATURES:

01

Collet sizes .172 through 2.000 are guaranteed to .0005 T.I.R. at 2 times the tool diameter, or a maximum one inch from the face of the collet

02

50% more gripping power than any other single taper collet available

03

Collet sizes .062 through .172 are guaranteed .0010 T.I.R. at the nose

04

1/64" collapse. Extended clamping range- .02" - .04"

AF COLLETS

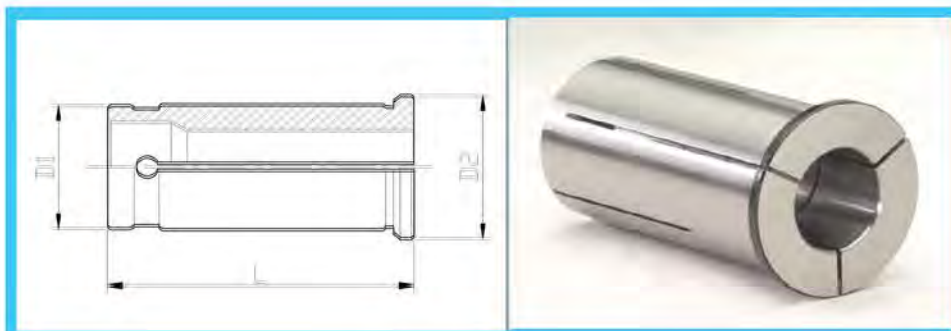
INCH SIZE	MM SIZE	DEC. MM	AF-25 Collets	AF-38 Collets	AF-50 Collets	AF-75 Collets	AF-100 Collets
1/32		0.79					
	1.0	1.00	A25-0100-1.0mm				
3/64		1.19	A25-0119-3/64				
	1.5	1.50	A25-0150-1.5mm	A38-0150-1.5mm			
5/64		1.98	A25-0198-5/64	A38-0198-5/64			
	2.0	2.00	A25-0200-2.0mm	A38-0200-2.0mm			
3/32		2.38	A25-0238-3/32	A38-0238-3/32			
	2.5	2.50	A25-0250-2.5mm	A38-0250-2.5mm			
7/64		2.78	A25-0278-7/64	A38-0278-7/64	A50-0278-7/64	A75-0278-7/64	
	3.0	3.00	A25-0300-3.0mm	A38-0300-3.0mm	A50-0300-3.0mm	A75-0300-3.0mm	
1/8		3.18	A25-0318-1/8	A38-0318-1/8	A50-0318-1/8	A75-0318-1/8	
	3.5	3.50	A25-0350-3.5mm	A38-0350-3.5mm	A50-0350-3.5mm	A75-0350-3.5mm	
9/64		3.57	A25-0357-9/64	A38-0357-9/64	A50-0357-9/64	A75-0357-9/64	
5/32		3.97	A25-0397-5/32	A38-0397-5/32	A50-0397-5/32	A75-0397-5/32	
	4.0	4.00	A25-0400-4.0mm	A38-0400-4.0mm	A50-0400-4.0mm	A75-0400-4.0mm	
11/64		4.37	A25-0437-11/64	A38-0437-11/64	A50-0437-11/64	A75-0437-11/64	
	4.5	4.50	A25-0450-4.5mm	A38-0450-4.5mm	A50-0450-4.5mm	A75-0450-4.5mm	
3/16		4.76	A25-0476-3/16	A38-0476-3/16	A50-0476-3/16	A75-0476-3/16	
	5.0	5.00	A25-0500-5.0mm	A38-0500-5.0mm	A50-0500-5.0mm	A75-0500-5.0mm	A100-0500-5.0mm
13/64		5.16	A25-0516-13/64	A38-0516-13/64	A50-0516-13/64	A75-0516-13/64	A100-0516-13/64
	5.5	5.50	A25-0550-5.5mm	A38-0550-5.5mm	A50-0550-5.5mm	A75-0550-5.5mm	A100-0550-5.5mm
7/32		5.56	A25-0556-7/32	A38-0556-7/32	A50-0556-7/32	A75-0556-7/32	A100-0556-7/32
15/64		5.95	A25-0595-15/64	A38-0595-15/64	A50-0595-15/64	A75-0595-15/64	A100-0595-15/64
	6.0	6.00	A25-0600-6.0mm	A38-0600-6.0mm	A50-0600-6.0mm	A75-0600-6.0mm	A100-0600-6.0mm
1/4		6.35	A25-0635-1/4	A38-0635-1/4	A50-0635-1/4	A75-0635-1/4	A100-0635-1/4
	6.5	6.50	A25-0650-6.5mm	A38-0650-6.5mm	A50-0650-6.5mm	A75-0650-6.5mm	A100-0650-6.5mm
17/64		6.75		A38-0675-17/64	A50-0675-17/64	A75-0675-17/64	A100-0675-17/64
	7.0	7.00		A38-0700-7.0mm	A50-0700-7.0mm	A75-0700-7.0mm	A100-0700-7.0mm
9/32		7.14		A38-0714-9/32	A50-0714-9/32	A75-0714-9/32	A100-0714-9/32
	7.5	7.50		A38-0750-7.5mm	A50-0750-7.5mm	A75-0750-7.5mm	A100-0750-7.5mm
19/64		7.54		A38-0754-19/64	A50-0754-19/64	A75-0754-19/64	A100-0754-19/64
5/16		7.94		A38-0794-5/16	A50-0794-5/16	A75-0794-5/16	A100-0794-5/16
	8.0	8.00		A38-0800-8.0mm	A50-0800-8.0mm	A75-0800-8.0mm	A100-0800-8.0mm
21/64		8.33		A38-0833-21/64	A50-0833-21/64	A75-0833-21/64	A100-0833-21/64
	8.5	8.50		A38-0850-8.5mm	A50-0850-8.5mm	A75-0850-8.5mm	A100-0850-8.5mm
11/32		8.73		A38-0873-11/32	A50-0873-11/32	A75-0873-11/32	A100-0873-11/32
	9.0	9.00		A38-0900-9.0mm	A50-0900-9.0mm	A75-0900-9.0mm	A100-0900-9.0mm
23/64		9.13		A38-0913-23/64	A50-0913-23/64	A75-0913-23/64	A100-0913-23/64
	9.5	9.50		A38-0950-9.5mm	A50-0950-9.5mm	A75-0950-9.5mm	A100-0950-9.5mm
3/8		9.53		A38-0953-3/8	A50-0953-3/8	A75-0953-3/8	A100-0953-3/8

AF COLLETS

INCH SIZE	MM SIZE	DEC. MM	AF-25 Collets	AF-38 Collets	AF-50 Collets	AF-75 Collets	AF-100 Collets
25/64		9.92			A50-0992-25/64	A75-0992-25/64	A100-0992-25/64
	10.0	10.00			A50-1000-10.0mm	A75-1000-10.0mm	A100-1000-10.0mm
13/32		10.32			A50-10A50-13/32	A75-10A75-13/32	A100-10A100-13/32
	10.5	10.50			A50-1050-10.5mm	A75-1050-10.5mm	A100-1050-10.5mm
27/64		10.72			A50-1072-27/64	A75-1072-27/64	A100-1072-27/64
	11.0	11.00			A50-1100-11.0mm	A75-1100-11.0mm	A100-1100-11.0mm
7/16		11.11			A50-1111-7/16	A75-1111-7/16	A100-1111-7/16
	11.5	11.50			A50-1150-11.5mm	A75-1150-11.5mm	A100-1150-11.5mm
29/64		11.51			A50-1151-29/64	A75-1151-29/64	A100-1151-29/64
1/16		1.59			A50-1159-1/16	A75-1159-1/16	A100-1159-1/16
15/32		11.91			A50-1191-15/32	A75-1191-15/32	A100-1191-15/32
	12.0	12.00			A50-1200-12.0mm	A75-1200-12.0mm	A100-1200-12.0mm
31/64		12.30			A50-1230-31/64	A75-1230-31/64	A100-1230-31/64
	12.5	12.50			A50-1250-12.5mm	A75-1250-12.5mm	A100-1250-12.5mm
1/2		12.70			A50-1270-1/2	A75-1270-1/2	A100-1270-1/2
	13.0	13.00				A75-1300-13.0mm	A100-1300-13.0mm
33/64		13.10				A75-1310-33/64	A100-1310-33/64
17/32		13.49				A75-1349-17/32	A100-1349-17/32
	13.5	13.50				A75-1350-13.5mm	A100-1350-13.5mm
35/64		13.89				A75-1389-35/64	A100-1389-35/64
	14.0	14.00				A75-1400-14.0mm	A100-1400-14.0mm
9/16		14.29				A75-1429-9/16	A100-1429-9/16
	14.5	14.50				A75-1450-14.5mm	A100-1450-14.5mm
37/64		14.68				A75-1468-37/64	A100-1468-37/64
	15.0	15.00				A75-1500-15.0mm	A100-1500-15.0mm
19/32		15.08				A75-1508-19/32	A100-1508-19/32
39/64		15.48				A75-1548-39/64	A100-1548-39/64
	15.5	15.50				A75-1550-15.5mm	A100-1550-15.5mm
5/8		15.88				A75-1588-5/8	A100-1588-5/8
	16.0	16.00				A75-1600-16.0mm	A100-1600-16.0mm
41/64		16.27				A75-1627-41/64	A100-1627-41/64
	16.5	16.50				A75-1650-16.5mm	A100-1650-16.5mm
21/32		16.67				A75-1667-21/32	A100-1667-21/32
	17.0	17.00				A75-1700-17.0mm	A100-1700-17.0mm
43/64		17.07				A75-1707-43/64	A100-1707-43/64
11/16		17.46				A75-1746-11/16	A100-1746-11/16
	17.5	17.50				A75-1750-17.5mm	A100-1750-17.5mm
45/64		17.86				A75-1786-45/64	A100-1786-45/64
	18.0	18.00				A75-1800-18.0mm	A100-1800-18.0mm
23/32		18.26				A75-1826-23/32	A100-1826-23/32

STRAIGHT COLLETS FOR MILLING CHUCKS

DIMENSIONS:



FEATURES:

01

Straight collet design eliminates taper tolerance variation between mating surfaces

02

Available in Inch and metric sizes

03

Accuracy - below 5 micron

METRIC SIZES

ID SIZE	ITEM NUMBER	OD SIZE
3mm	MC20-3mm	20mm
4mm	MC20-4mm	20mm
5mm	MC20-5mm	20mm
6mm	MC20-6mm	20mm
8mm	MC20-8mm	20mm
10mm	MC20-10mm	20mm
12mm	MC20-12mm	20mm
14mm	MC20-14mm	20mm
16mm	MC20-16mm	20mm
3mm	MC32-3mm	32mm
4mm	MC32-4mm	32mm
5mm	MC32-5mm	32mm
6mm	MC32-6mm	32mm
8mm	MC32-8mm	32mm
10mm	MC32-10mm	32mm
12mm	MC32-12mm	32mm
14mm	MC32-14mm	32mm
16mm	MC32-16mm	32mm
18mm	MC32-18mm	32mm
20mm	MC32-20mm	32mm
25mm	MC32-25mm	32mm

INCH SIZES

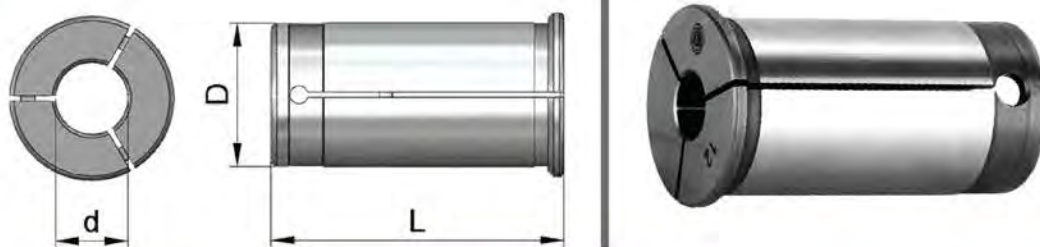
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3/16	MC75-3/16	3/4"
1/4	MC75-1/4	3/4"
5/16	MC75-5/16	3/4"
3/8	MC75-3/8	3/4"
7/16	MC75-7/16	3/4"
1/2	MC75-1/2	3/4"
9/16	MC75-9/16	3/4"
5/8	MC75-5/8	3/4"
3/16	MC12-3/16	1-1/4"
1/4	MC12-1/4	1-1/4"
5/16	MC12-5/16	1-1/4"
3/8	MC12-3/8	1-1/4"
7/16	MC12-7/16	1-1/4"
1/2	MC12-1/2	1-1/4"
9/16	MC12-9/16	1-1/4"
5/8	MC12-5/8	1-1/4"
11/16	MC12-11/16	1-1/4"
3/4	MC12-3/4	1-1/4"
13/16	MC12-13/16	1-1/4"
7/8	MC12-7/8	1-1/4"
15/16	MC12-15/16	1-1/4"
1	MC12-1	1-1/4"

COLLETS / REDUCTION SLEEVES

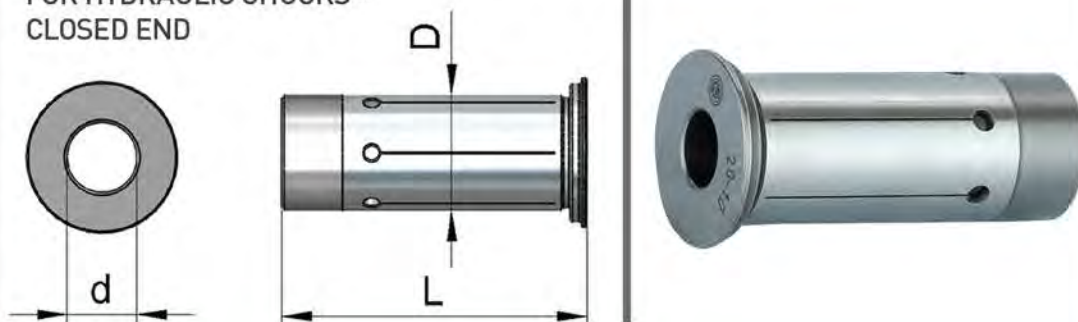
FOR HYDRAULIC CHUCKS

ACCURACY:

REDUCTION SLEEVE
FOR HYDRAULIC CHUCKS -
OPEN END



REDUCTION SLEEVE
FOR HYDRAULIC CHUCKS -
CLOSED END



FEATURES:

01

Accuracy - below 5 micron

02

Available in Inch and metric sizes

03

Designed for high precision clamping

COLLETS / REDUCTION SLEEVES FOR HYDRAULIC CHUCKS

METRIC SIZES

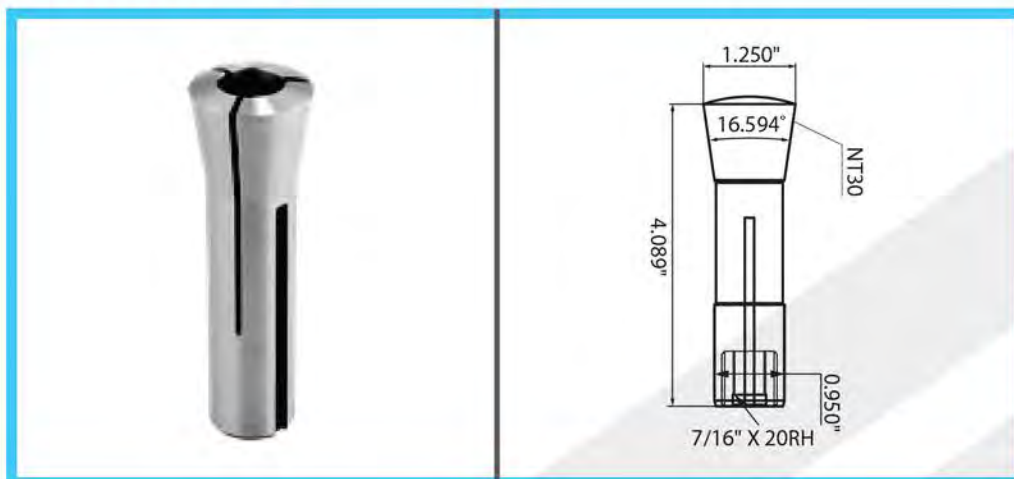
ID SIZE	ITEM NUMBER	OD SIZE
3mm	HC12-3mm	12mm
4mm	HC12-4mm	12mm
5mm	HC12-5mm	12mm
6mm	HC12-6mm	12mm
8mm	HC12-8mm	12mm
3mm	HC20-3mm	20mm
4mm	HC20-4mm	20mm
5mm	HC20-5mm	20mm
6mm	HC20-6mm	20mm
8mm	HC20-8mm	20mm
10mm	HC20-10mm	20mm
12mm	HC20-12mm	20mm
14mm	HC20-14mm	20mm
16mm	HC20-16mm	20mm
3mm	HC32-3mm	32mm
4mm	HC32-4mm	32mm
5mm	HC32-5mm	32mm
6mm	HC32-6mm	32mm
8mm	HC32-8mm	32mm
10mm	HC32-10mm	32mm
12mm	HC32-12mm	32mm
14mm	HC32-14mm	32mm
16mm	HC32-16mm	32mm
18mm	HC32-18mm	32mm
20mm	HC32-20mm	32mm
25mm	HC32-25mm	32mm

INCH SIZES

ID SIZE	ITEM NUMBER	OD SIZE
1/8	HC75-1/8	3/4"
3/16	HC75-3/16	3/4"
1/4	HC75-1/4	3/4"
5/16	HC75-5/16	3/4"
3/8	HC75-3/8	3/4"
7/16	HC75-7/16	3/4"
1/2	HC75-1/2	3/4"
9/16	HC75-9/16	3/4"
5/8	HC75-5/8	3/4"
1/8	HC12-1/8	1-1/4"
3/16	HC12-3/16	1-1/4"
1/4	HC12-1/4	1-1/4"
5/16	HC12-5/16	1-1/4"
3/8	HC12-3/8	1-1/4"
7/16	HC12-7/16	1-1/4"
1/2	HC12-1/2	1-1/4"
9/16	HC12-9/16	1-1/4"
5/8	HC12-5/8	1-1/4"
11/16	HC12-11/16	1-1/4"
3/4	HC12-3/4	1-1/4"
13/16	HC12-13/16	1-1/4"
7/8	HC12-7/8	1-1/4"
15/16	HC12-15/16	1-1/4"
1	HC12-1	1-1/4"

R8-COLLETS

DIMENSIONS:



ACCURACY:

SIZE RANGE	ACCURACY
1/16" - 3/8"	0.0007"
13/32" - 1"	0.0011"
3mm - 10mm	0.0007"
11mm - 20mm	0.0011"

FEATURES:

01

R8 collets do not collapse.
Nominal size

02

Collet sets available

03

Inch & Metric sizes

01

Reduces tool change time

02

Hardened and ground

03

High grade steel for
long wear life

R8 COLLETS

INCH SIZE	MM SIZE	ITEM NUMBER
	2.0	R8-2.0mm
3/32		R8-3/32
	3.0	R8-3.0mm
1/8		R8-1/8
5/32		R8-5/32
	4.0	R8-4.0mm
3/16		R8-3/16
	5.0	R8-5.0mm
7/32		R8-7/32
	6.0	R8-6.0mm
1/4		R8-1/4
	7.0	R8-7.0mm
9/32		R8-9/32
5/16		R8-5/16
	8.0	R8-8.0mm
11/32		R8-11/32
	9.0	R8-9.0mm
3/8		R8-3/8
	10.0	R8-10.0mm
13/32		R8-13/32
	11.0	R8-11.0mm
7/16		R8-7/16
1/16		R8-1/16
15/32		R8-15/32
	12.0	R8-12.0mm
1/2		R8-1/2
	13.0	R8-13.0mm
17/32		R8-17/32
	14.0	R8-14.0mm
9/16		R8-9/16

INCH SIZE	MM SIZE	ITEM NUMBER
	15.0	R8-15.0mm
19/32		R8-19/32
5/8		R8-5/8
	16.0	R8-16.0mm
21/32		R8-21/32
	17.0	R8-17.0mm
11/16		R8-11/16
	18.0	R8-18.0mm
23/32		R8-23/32
	19.0	R8-19.0mm
3/4		R8-3/4
25/32		R8-25/32
	20.0	R8-20.0mm
13/16		R8-13/16
	21.0	R8-21mm
27/32		R8-27/32
	22.0	R8-22.0mm
7/8		R8-7/8
	23.0	R8-23.0mm
29/32		R8-29/32
15/16		R8-15/16
	24.0	R8-24.0mm
31/32		R8-31/32
	25.0	R8-25.0mm
1"		R8-1"

COLLETS SETS ALL TYPES



TYPE	STYLE	DESCRIPTION	NO.OF COLLETS	PART NUMBER
ER-8	Metric	1mm to 5mm x .5mm	9	08-SET9
	Inch	1/16"-3/16" x 1/64	9	08-SET9-INCH
ER-11	Metric	1mm to 7mm x .5mm	13	11-SET13
	Inch	1/16"-1/4" x 1/32	7	11-SET7-INCH
	Inch	1/16" - 1/4" x 1/64	13	11-SET13-INCH
ER-16	Metric	1mm to 10mm x 1mm	10	16-SET10
	Inch	1/16" - 3/8" x 1/32"	11	16-SET11-INCH
ER-20	Metric	2mm to 13mm x 1mm	12	20-SET12
	Inch	1/16" - 1/2" x 1/32"	15	20-SET15-INCH
ER-25	Metric	2mm to 16mm x 1mm	15	25-SET15
	Inch	3/32" - 5/8" x 1/32"	18	25-SET18-INCH
ER-32	Metric	3mm to 20mm x 1mm	18	32-SET18
	Inch	1/8" - 3/4" x 1/32"	21	32-SET21-INCH
ER-40	Metric	4mm to 26mm x 1mm	23	40-SET23
	Inch	1/8" - 1" x 1/64"	15	40-SET15-INCH
	Inch	1/8" - 1" x 1/32"	29	40-SET29-INCH

** any number of collets sets are available

**all different variety of collet sets are available

02 CONTENTS

- **5C-COLLETS**
ROUND, HEX & SQUARE
- **16C-COLLETS**
ROUND, HEX & SQUARE
- **3J-COLLETS**
ROUND, HEX & SQUARE



COLLETS

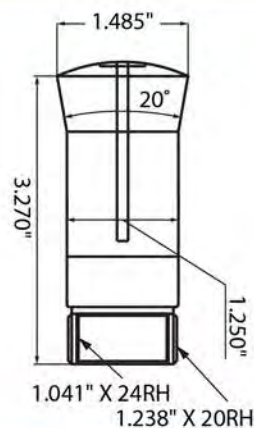
WORK HOLDING



-EFFICIENCY
-RELIABILITY
-FLEXIBILITY

5C-COLLETS

ACCURACY:



ROUND SIZE RANGE	ACCURACY
3/64" - 25/64"	0.0008"
13/32" - 45/64"	0.0011"
23/32" - 1-1/8"	0.0015"
3mm - 10mm	0.0007"
11mm - 20mm	0.0011"
19mm - 26mm	0.0015"

HEX & SQUARE SIZE RANGE	ACCURACY
1/8 - 11/16"	0.0025"
3/4" - 7/8"	0.0031"

FEATURES:

01

5C - Round, Hex & Square Collets

02

5C collets do not collapse. Nominal size

03

Collet sets available in INCH & METRIC sizes

04

Reduces tool change time

05

Hardened and ground

06

High grade steel for long wear life

5C COLLETS

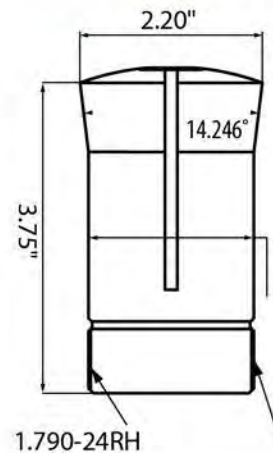
INCH SIZE	MM SIZE	5C ROUND COLLETS ITEM #	5C HEX COLLETS ITEM #	5C SQUARE COLLETS ITEM #
3/32	2.0	5C-R-2.0mm	5C-H-2.0mm	5C-S-2.0mm
		5C-R-3/32	5C-H-3/32	5C-S-3/32
1/8	3.0	5C-R-3.0mm	5C-H-3.0mm	5C-S-3.0mm
		5C-R-1/8	5C-H-1/8	5C-S-1/8
5/32	4.0	5C-R-5/32	5C-H-5/32	5C-S-5/32
		5C-R-4.0mm	5C-H-4.0mm	5C-S-4.0mm
3/16	5.0	5C-R-3/16	5C-H-3/16	5C-S-3/16
		5C-R-5.0mm	5C-H-5.0mm	5C-S-5.0mm
7/32	6.0	5C-R-7/32	5C-H-7/32	5C-S-7/32
		5C-R-6.0mm	5C-H-6.0mm	5C-S-6.0mm
1/4	7.0	5C-R-1/4	5C-H-1/4	5C-S-1/4
		5C-R-7.0mm	5C-H-7.0mm	5C-S-7.0mm
9/32	8.0	5C-R-9/32	5C-H-9/32	5C-S-9/32
		5C-R-5/16	5C-H-5/16	5C-S-5/16
5/16	9.0	5C-R-8.0mm	5C-H-8.0mm	5C-S-8.0mm
		5C-R-11/32	5C-H-11/32	5C-S-11/32
3/8	10.0	5C-R-9.0mm	5C-H-9.0mm	5C-S-9.0mm
		5C-R-3/8	5C-H-3/8	5C-S-3/8
13/32	11.0	5C-R-10.0mm	5C-H-10.0mm	5C-S-10.0mm
		5C-R-0-13/32	5C-H-0-13/32	5C-S-0-13/32
7/16	12.0	5C-R-11.0mm	5C-H-11.0mm	5C-S-11.0mm
		5C-R-7/16	5C-H-7/16	5C-S-7/16
1/16	13.0	5C-R-1/16	5C-H-1/16	5C-S-1/16
		5C-R-15/32	5C-H-15/32	5C-S-15/32
15/32	14.0	5C-R-12.0mm	5C-H-12.0mm	5C-S-12.0mm
		5C-R-1/2	5C-H-1/2	5C-S-1/2
1/2	15.0	5C-R-13.0mm	5C-H-13.0mm	5C-S-13.0mm
		5C-R-17/32	5C-H-17/32	5C-S-17/32
17/32	16.0	5C-R-14.0mm	5C-H-14.0mm	5C-S-14.0mm
		5C-R-9/16	5C-H-9/16	5C-S-9/16
9/16	17.0	5C-R-15.0mm	5C-H-15.0mm	5C-S-15.0mm
		5C-R-19/32	5C-H-19/32	5C-S-19/32
19/32	18.0	5C-R-5/8	5C-H-5/8	5C-S-5/8
		5C-R-16.0mm	5C-H-16.0mm	5C-S-16.0mm
5/8	19.0	5C-R-21/32	5C-H-21/32	5C-S-21/32
		5C-R-17.0mm	5C-H-17.0mm	5C-S-17.0mm
21/32	20.0	5C-R-11/16	5C-H-11/16	5C-S-11/16
		5C-R-18.0mm	5C-H-18.0mm	5C-S-18.0mm
11/16	21.0	5C-R-23/32	5C-H-23/32	5C-S-23/32
23/32	22.0			

5C COLLETS

INCH SIZE	MM SIZE	5C ROUND COLLETS ITEM #	5C HEX COLLETS ITEM #	5C SQUARE COLLETS ITEM #
3/4 25/32	19.0	5C-R-19.0mm	5C-H-19.0mm	5C-S-19.0mm
		5C-R-3/4	5C-H-3/4	5C-S-3/4
		5C-R-25/32	5C-H-25/32	5C-S-25/32
13/16	20.0	5C-R-20.0mm	5C-H-20.0mm	5C-S-20.0mm
		5C-R-13/16	5C-H-13/16	5C-S-13/16
27/32	21.0	5C-R-21mm	5C-H-21mm	5C-S-21mm
		5C-R-27/32	5C-H-27/32	5C-S-27/32
7/8	22.0	5C-R-22.0mm	5C-H-22.0mm	5C-S-22.0mm
		5C-R-7/8	5C-H-7/8	5C-S-7/8
29/32 15/16	23.0	5C-R-23.0mm	5C-H-23.0mm	5C-S-23.0mm
		5C-R-29/32	5C-H-29/32	5C-S-29/32
31/32		5C-R-15/16	5C-H-15/16	5C-S-15/16
	24.0	5C-R-24.0mm	5C-H-24.0mm	5C-S-24.0mm
1"		5C-R-31/32	5C-H-31/32	5C-S-31/32
	25.0	5C-R-25.0mm	5C-H-25.0mm	5C-S-25.0mm
		5C-R-1"	5C-H-1"	5C-S-1"
	26.0	5C-R-26.0mm	5C-H-26.0mm	5C-S-26.0mm
	27.0	5C-R-27.0mm	5C-H-27.0mm	5C-S-27.0mm
	28.0	5C-R-28.0mm	5C-H-28.0mm	5C-S-28.0mm

3J-COLLETS

ACCURACY:



ROUND SIZE RANGE	ACCURACY
3/64" - 25/64"	0.0008"
13/32" - 45/64"	0.0011"
23/32" - 1-1/8"	0.0015"

HEX & SQUARE SIZE RANGE	ACCURACY
1/8 - 11/16"	0.0025"
3/4" - 1-1/2"	0.0031"

FEATURES:

01

3J - Round, Hex & Square Collets

02

Hold parts up to 1.750 inches or 40mm in diameter.

03

Collet sets available in INCH & METRIC sizes

04

Reduces tool change time

05

Hardened and ground

06

High grade steel for long wear life

3J COLLETS

INCH SIZE	MM SIZE	3J ROUND COLLETS ITEM #	3J HEX COLLETS ITEM #	3J SQUARE COLLETS ITEM #
3/32	2.0	3J-R-2.0mm	3J-H-2.0mm	3J-S-2.0mm
		3J-R-3/32	3J-H-3/32	3J-S-3/32
1/8	3.0	3J-R-3.0mm	3J-H-3.0mm	3J-S-3.0mm
		3J-R-1/8	3J-H-1/8	3J-S-1/8
5/32	4.0	3J-R-5/32	3J-H-5/32	3J-S-5/32
		3J-R-4.0mm	3J-H-4.0mm	3J-S-4.0mm
3/16	5.0	3J-R-3/16	3J-H-3/16	3J-S-3/16
		3J-R-5.0mm	3J-H-5.0mm	3J-S-5.0mm
7/32	6.0	3J-R-7/32	3J-H-7/32	3J-S-7/32
		3J-R-6.0mm	3J-H-6.0mm	3J-S-6.0mm
1/4	7.0	3J-R-1/4	3J-H-1/4	3J-S-1/4
		3J-R-7.0mm	3J-H-7.0mm	3J-S-7.0mm
9/32	8.0	3J-R-9/32	3J-H-9/32	3J-S-9/32
		3J-R-5/16	3J-H-5/16	3J-S-5/16
5/16	9.0	3J-R-8.0mm	3J-H-8.0mm	3J-S-8.0mm
		3J-R-11/32	3J-H-11/32	3J-S-11/32
3/8	10.0	3J-R-9.0mm	3J-H-9.0mm	3J-S-9.0mm
		3J-R-3/8	3J-H-3/8	3J-S-3/8
13/32	11.0	3J-R-10.0mm	3J-H-10.0mm	3J-S-10.0mm
		3J-R-0-13/32	3J-H-0-13/32	3J-S-0-13/32
7/16	12.0	3J-R-11.0mm	3J-H-11.0mm	3J-S-11.0mm
		3J-R-7/16	3J-H-7/16	3J-S-7/16
1/16	13.0	3J-R-1/16	3J-H-1/16	3J-S-1/16
		3J-R-15/32	3J-H-15/32	3J-S-15/32
15/32	14.0	3J-R-12.0mm	3J-H-12.0mm	3J-S-12.0mm
		3J-R-1/2	3J-H-1/2	3J-S-1/2
1/2	15.0	3J-R-13.0mm	3J-H-13.0mm	3J-S-13.0mm
		3J-R-17/32	3J-H-17/32	3J-S-17/32
17/32	16.0	3J-R-14.0mm	3J-H-14.0mm	3J-S-14.0mm
		3J-R-9/16	3J-H-9/16	3J-S-9/16
9/16	17.0	3J-R-15.0mm	3J-H-15.0mm	3J-S-15.0mm
		3J-R-19/32	3J-H-19/32	3J-S-19/32
19/32	18.0	3J-R-5/8	3J-H-5/8	3J-S-5/8
		3J-R-16.0mm	3J-H-16.0mm	3J-S-16.0mm
5/8	19.0	3J-R-21/32	3J-H-21/32	3J-S-21/32
		3J-R-17.0mm	3J-H-17.0mm	3J-S-17.0mm
21/32	19.0	3J-R-11/16	3J-H-11/16	3J-S-11/16
		3J-R-18.0mm	3J-H-18.0mm	3J-S-18.0mm
11/16	20.0	3J-R-23/32	3J-H-23/32	3J-S-23/32
		3J-R-19.0mm	3J-H-19.0mm	3J-S-19.0mm
23/32	21.0	3J-R-20.0mm	3J-H-20.0mm	3J-S-20.0mm
		3J-R-21.0mm	3J-H-21.0mm	3J-S-21.0mm

3J COLLETS

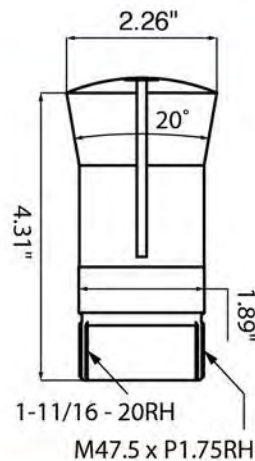
INCH SIZE	MM SIZE	3J ROUND COLLETS ITEM #	3J HEX COLLETS ITEM #	3J SQUARE COLLETS ITEM #
3/4		3J-R-3/4	3J-H-3/4	3J-S-3/4
25/32		3J-R-25/32	3J-H-25/32	3J-S-25/32
	20.0	3J-R-20.0mm	3J-H-20.0mm	3J-S-20.0mm
13/16		3J-R-13/16	3J-H-13/16	3J-S-13/16
	21.0	3J-R-21mm	3J-H-21mm	3J-S-21mm
27/32		3J-R-27/32	3J-H-27/32	3J-S-27/32
	22.0	3J-R-22.0mm	3J-H-22.0mm	3J-S-22.0mm
7/8		3J-R-7/8	3J-H-7/8	3J-S-7/8
	23.0	3J-R-23.0mm	3J-H-23.0mm	3J-S-23.0mm
29/32		3J-R-29/32	3J-H-29/32	3J-S-29/32
15/16		3J-R-15/16	3J-H-15/16	3J-S-15/16
	24.0	3J-R-24.0mm	3J-H-24.0mm	3J-S-24.0mm
31/32		3J-R-31/32	3J-H-31/32	3J-S-31/32
	25.0	3J-R-25.0mm	3J-H-25.0mm	3J-S-25.0mm
1"		3J-R-1"	3J-H-1"	3J-S-1"
	26.0	3J-R-26.0mm	3J-H-26.0mm	3J-S-26.0mm
1 1/32		3J-R-1-1/32	3J-H-1-1/32	3J-S-1-1/32
1 1/16		3J-R-1-1/16	3J-H-1-1/16	3J-S-1-1/16
	27.0	3J-R-27.0mm	3J-H-27.0mm	3J-S-27.0mm
1 3/32		3J-R-1-3/32	3J-H-1-3/32	3J-S-1-3/32
	28.0	3J-R-28.0mm	3J-H-28.0mm	3J-S-28.0mm
1 1/8		3J-R-1-1/8	3J-H-1-1/8	3J-S-1-1/8
	29.0	3J-R-29.0mm	3J-H-29.0mm	3J-S-29.0mm
1 5/32		3J-R-1-5/32	3J-H-1-5/32	3J-S-1-5/32
	30.0	3J-R-30.0mm	3J-H-30.0mm	3J-S-30.0mm
1 3/16		3J-R-1-3/16	3J-H-1-3/16	3J-S-1-3/16
1 7/32		3J-R-1-7/32	3J-H-1-7/32	3J-S-1-7/32
	31.0	3J-R-31.0mm	3J-H-31.0mm	3J-S-31.0mm
1 1/4		3J-R-1-1/4	3J-H-1-1/4	3J-S-1-1/4
	32.0	3J-R-32.0mm	3J-H-32.0mm	3J-S-32.0mm
1 9/32		3J-R-1-9/32	3J-H-1-9/32	3J-S-1-9/32
	33.0	3J-R-33.0mm	3J-H-33.0mm	3J-S-33.0mm
1 5/16		3J-R-1-5/16	3J-H-1-5/16	3J-S-1-5/16
	34.0	3J-R-34.0mm	3J-H-34.0mm	3J-S-34.0mm
1 11/32		3J-R-1-11/32	3J-H-1-11/32	3J-S-1-11/32
1 3/8		3J-R-1-3/8	3J-H-1-3/8	3J-S-1-3/8
	35.0	3J-R-35.0mm	3J-H-35.0mm	3J-S-35.0mm
1 13/32		3J-R-1-13/32	3J-H-1-13/32	3J-S-1-13/32
	36.0	3J-R-36.0mm	3J-H-36.0mm	3J-S-36.0mm
1 7/16		3J-R-1-7/16	3J-H-1-7/16	3J-S-1-7/16

3J COLLETS

INCH SIZE	MM SIZE	3J ROUND COLLETS ITEM #	3J HEX COLLETS ITEM #	3J SQUARE COLLETS ITEM #
1 15/32	37.0	3J-R-37.0mm	3J-H-37.0mm	3J-S-37.0mm
		3J-R-1-15/32	3J-H-1-15/32	3J-S-1-15/32
1 1/2	38.0	3J-R-38.0mm	3J-H-38.0mm	3J-S-38.0mm
		3J-R-1-1/2	3J-H-1-1/2	3J-S-1-1/2
1 17/32		3J-R-1-17/32	3J-H-1-17/32	3J-S-1-17/32
1 9/16	39.0	3J-R-39.0mm	3J-H-39.0mm	3J-S-39.0mm
		3J-R-1-9/16	3J-H-1-9/16	3J-S-1-9/16
1 19/32	40.0	3J-R-40.0mm	3J-H-40.0mm	3J-S-40.0mm
		3J-R-1-19/32	3J-H-1-19/32	3J-S-1-19/32
1 5/8		3J-R-1-5/8	3J-H-1-5/8	3J-S-1-5/8
1 21/32		3J-R-1-21/32	3J-H-1-21/32	3J-S-1-21/32
1 11/16		3J-R-1-11/16	3J-H-1-11/16	3J-S-1-11/16
1 23/32		3J-R-1-23/32	3J-H-1-23/32	3J-S-1-23/32
1 3/4		3J-R-1-3/4	3J-H-1-3/4	3J-S-1-3/4

16C-COLLETS

ACCURACY:



ROUND SIZE RANGE	ACCURACY
1/16" - 25/64"	0.0008"
13/32" - 45/64"	0.0011"
23/32" - 1-5/8"	0.0015"

HEX & SQUARE SIZE RANGE	ACCURACY
1/8 - 11/16"	0.0025"
3/4" - 1-3/8"	0.0031"

FEATURES:

01

16C - Round, Hex & Square Collets

04

Reduces tool change time

02

Hold parts up to 1.625 inches or 40mm in diameter.

05

Hardened and ground

03

Collet sets available in INCH & METRIC sizes

06

High grade steel for long wear life

16C COLLETS

INCH SIZE	MM SIZE	16C ROUND COLLETS ITEM #	16C HEX COLLETS ITEM #	16C SQUARE COLLETS ITEM #
3/32	2.0	16C-R-2.0mm	16C-H-2.0mm	16C-S-2.0mm
		16C-R-3/32	16C-H-3/32	16C-S-3/32
1/8	3.0	16C-R-3.0mm	16C-H-3.0mm	16C-S-3.0mm
		16C-R-1/8	16C-H-1/8	16C-S-1/8
5/32	4.0	16C-R-5/32	16C-H-5/32	16C-S-5/32
		16C-R-4.0mm	16C-H-4.0mm	16C-S-4.0mm
3/16	5.0	16C-R-3/16	16C-H-3/16	16C-S-3/16
		16C-R-5.0mm	16C-H-5.0mm	16C-S-5.0mm
7/32	6.0	16C-R-7/32	16C-H-7/32	16C-S-7/32
		16C-R-6.0mm	16C-H-6.0mm	16C-S-6.0mm
1/4	7.0	16C-R-1/4	16C-H-1/4	16C-S-1/4
		16C-R-7.0mm	16C-H-7.0mm	16C-S-7.0mm
9/32	8.0	16C-R-9/32	16C-H-9/32	16C-S-9/32
		16C-R-5/16	16C-H-5/16	16C-S-5/16
5/16	9.0	16C-R-8.0mm	16C-H-8.0mm	16C-S-8.0mm
		16C-R-11/32	16C-H-11/32	16C-S-11/32
11/32	10.0	16C-R-9.0mm	16C-H-9.0mm	16C-S-9.0mm
		16C-R-3/8	16C-H-3/8	16C-S-3/8
3/8	11.0	16C-R-10.0mm	16C-H-10.0mm	16C-S-10.0mm
		16C-R-0-13/32	16C-H-0-13/32	16C-S-0-13/32
13/32	12.0	16C-R-11.0mm	16C-H-11.0mm	16C-S-11.0mm
		16C-R-7/16	16C-H-7/16	16C-S-7/16
7/16	13.0	16C-R-1/16	16C-H-1/16	16C-S-1/16
		16C-R-15/32	16C-H-15/32	16C-S-15/32
1/2	14.0	16C-R-12.0mm	16C-H-12.0mm	16C-S-12.0mm
		16C-R-1/2	16C-H-1/2	16C-S-1/2
17/32	15.0	16C-R-13.0mm	16C-H-13.0mm	16C-S-13.0mm
		16C-R-17/32	16C-H-17/32	16C-S-17/32
9/16	16.0	16C-R-14.0mm	16C-H-14.0mm	16C-S-14.0mm
		16C-R-9/16	16C-H-9/16	16C-S-9/16
19/32	17.0	16C-R-15.0mm	16C-H-15.0mm	16C-S-15.0mm
		16C-R-19/32	16C-H-19/32	16C-S-19/32
5/8	18.0	16C-R-5/8	16C-H-5/8	16C-S-5/8
		16C-R-16.0mm	16C-H-16.0mm	16C-S-16.0mm
21/32	19.0	16C-R-21/32	16C-H-21/32	16C-S-21/32
		16C-R-17.0mm	16C-H-17.0mm	16C-S-17.0mm
11/16	20.0	16C-R-11/16	16C-H-11/16	16C-S-11/16
		16C-R-18.0mm	16C-H-18.0mm	16C-S-18.0mm
23/32	21.0	16C-R-23/32	16C-H-23/32	16C-S-23/32

16C COLLETS

INCH SIZE	MM SIZE	16C ROUND COLLETS ITEM #	16C HEX COLLETS ITEM #	16C SQUARE COLLETS ITEM #
	19.0	16C-R-19.0mm	16C-H-19.0mm	16C-S-19.0mm
3/4		16C-R-3/4	16C-H-3/4	16C-S-3/4
25/32		16C-R-25/32	16C-H-25/32	16C-S-25/32
	20.0	16C-R-20.0mm	16C-H-20.0mm	16C-S-20.0mm
13/16		16C-R-13/16	16C-H-13/16	16C-S-13/16
	21.0	16C-R-21mm	16C-H-21mm	16C-S-21mm
27/32		16C-R-27/32	16C-H-27/32	16C-S-27/32
	22.0	16C-R-22.0mm	16C-H-22.0mm	16C-S-22.0mm
7/8		16C-R-7/8	16C-H-7/8	16C-S-7/8
	23.0	16C-R-23.0mm	16C-H-23.0mm	16C-S-23.0mm
29/32		16C-R-29/32	16C-H-29/32	16C-S-29/32
15/16		16C-R-15/16	16C-H-15/16	16C-S-15/16
	24.0	16C-R-24.0mm	16C-H-24.0mm	16C-S-24.0mm
31/32		16C-R-31/32	16C-H-31/32	16C-S-31/32
	25.0	16C-R-25.0mm	16C-H-25.0mm	16C-S-25.0mm
1"		16C-R-1"	16C-H-1"	16C-S-1"
	26.0	16C-R-26.0mm	16C-H-26.0mm	16C-S-26.0mm
1 1/32		16C-R-1-1/32	16C-H-1-1/32	16C-S-1-1/32
1 1/16		16C-R-1-1/16	16C-H-1-1/16	16C-S-1-1/16
	27.0	16C-R-27.0mm	16C-H-27.0mm	16C-S-27.0mm
1 3/32		16C-R-1-3/32	16C-H-1-3/32	16C-S-1-3/32
	28.0	16C-R-28.0mm	16C-H-28.0mm	16C-S-28.0mm
1 1/8		16C-R-1-1/8	16C-H-1-1/8	16C-S-1-1/8
	29.0	16C-R-29.0mm	16C-H-29.0mm	16C-S-29.0mm
1 5/32		16C-R-1-5/32	16C-H-1-5/32	16C-S-1-5/32
	30.0	16C-R-30.0mm	16C-H-30.0mm	16C-S-30.0mm
1 3/16		16C-R-1-3/16	16C-H-1-3/16	16C-S-1-3/16
1 7/32		16C-R-1-7/32	16C-H-1-7/32	16C-S-1-7/32
	31.0	16C-R-31.0mm	16C-H-31.0mm	16C-S-31.0mm
1 1/4		16C-R-1-1/4	16C-H-1-1/4	16C-S-1-1/4
	32.0	16C-R-32.0mm	16C-H-32.0mm	16C-S-32.0mm
1 9/32		16C-R-1-9/32	16C-H-1-9/32	16C-S-1-9/32
	33.0	16C-R-33.0mm	16C-H-33.0mm	16C-S-33.0mm
1 5/16		16C-R-1-5/16	16C-H-1-5/16	16C-S-1-5/16
	34.0	16C-R-34.0mm	16C-H-34.0mm	16C-S-34.0mm
1 11/32		16C-R-1-11/32	16C-H-1-11/32	16C-S-1-11/32
1 3/8		16C-R-1-3/8	16C-H-1-3/8	16C-S-1-3/8
	35.0	16C-R-35.0mm	16C-H-35.0mm	16C-S-35.0mm
1 13/32		16C-R-1-13/32	16C-H-1-13/32	16C-S-1-13/32

16C COLLETS

INCH SIZE	MM SIZE	16C ROUND COLLETS ITEM #	16C HEX COLLETS ITEM #	16C SQUARE COLLETS ITEM #
1 7/16	36.0	3J-R-36.0mm	3J-H-36.0mm	3J-S-36.0mm
		3J-R-1-7/16	3J-H-1-7/16	3J-S-1-7/16
1 15/32	37.0	3J-R-37.0mm	3J-H-37.0mm	3J-S-37.0mm
		3J-R-1-15/32	3J-H-1-15/32	3J-S-1-15/32
1 1/2	38.0	3J-R-38.0mm	3J-H-38.0mm	3J-S-38.0mm
		3J-R-1-1/2	3J-H-1-1/2	3J-S-1-1/2
1 17/32	39.0	3J-R-1-17/32	3J-H-1-17/32	3J-S-1-17/32
		3J-R-39.0mm	3J-H-39.0mm	3J-S-39.0mm
1 9/16	40.0	3J-R-1-9/16	3J-H-1-9/16	3J-S-1-9/16
		3J-R-40.0mm	3J-H-40.0mm	3J-S-40.0mm
1 19/32		3J-R-1-19/32	3J-H-1-19/32	3J-S-1-19/32
1 5/8		3J-R-1-5/8	3J-H-1-5/8	3J-S-1-5/8
1 21/32		3J-R-1-21/32	3J-H-1-21/32	3J-S-1-21/32
1 11/16		3J-R-1-11/16	3J-H-1-11/16	3J-S-1-11/16
1 23/32		3J-R-1-23/32	3J-H-1-23/32	3J-S-1-23/32
1 3/4		3J-R-1-3/4	3J-H-1-3/4	3J-S-1-3/4



-QUALITY &
-PRECISION
-DELIVERED

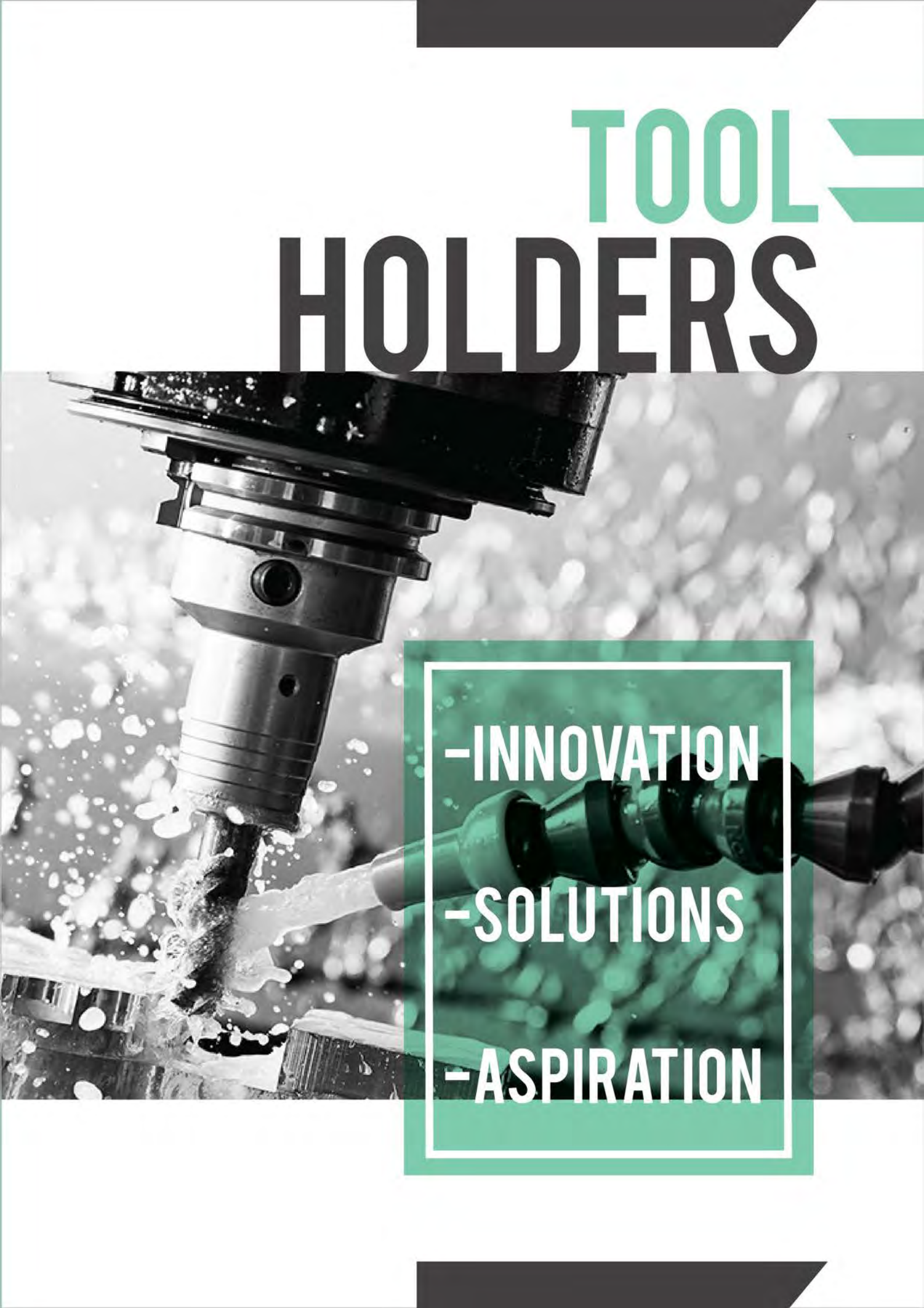


03 CONTENTS

- BT,SK,CAT,HSK,ISO TAPERS & STRATIGHT SHANK
- ER COLLET CHUCKS
- FACEMILL HOLDERS
- ENDMILL / SIDELOCK HOLDERS
- POWER MILLING CHUCKS
- HYDRAULIC CHUCKS
- SK (SUPER) COLLET CHUCKS
- OZ/EOC COLLET CHUCKS
- MT HOLDERS
- SHRINK FIT HOLDERS
- APUDRILL CHUCKS /
INTEGRAL SHANK
- TAPPING HOLDERS /
ATTACHMENTS - QUICK CHANGE
- ER STRAIGHT SHANK HOLDERS
- ER DOUBLE ENDED STRAIGHT
SHANKS
- TOOL HOLDER BLANKS /
BORING BAR BLANKS



TOOL HOLDERS



-INNOVATION

-SOLUTIONS

-ASPIRATION

ER-COLLET CHUCK



FEATURES:

01

Accuracy: 5 Micron or 0.0002" TIR or better

02

AT3 Class Taper Accuracy

03

Through-tool coolant feature is standard

04

H5 bore tolerance for optimum surface contact with cutting tool

05

ER Collet Nuts are Power Coated for increased clamping force due to reduced friction

06

High precision pilot holes

07

Hardness: HRC 56-58

08

Carbon depth: 0.8mm $\pm$ 0.2mm

09

Surface Roughness: $Ra < 0.005mm$

10

Crafted from case hardened alloy steel

11

Balanced G6.3 @15000RPM

12

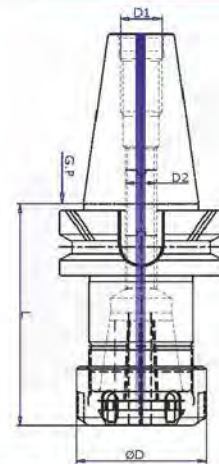
Balanced G2.5 @25000 RPM

BT MAS 403

ER COLLET CHUCK

BT TAPER - MAS-403

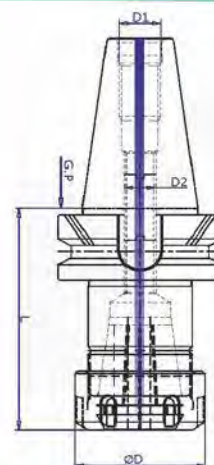
PART NUMBER	TAPER	NUT DIA D	GAGE DIA L	COLLET TYPE	COLLET CLAMPING RANGE	D1
BT30-ER16-70	BT-30	28	70	ER16	0.5 - 10	M12
BT30-ER20-70	BT-30	35	70	ER20	1.0 - 12	M12
BT30-ER25-70	BT-30	42	70	ER25	1.0 - 16	M12
BT30-ER32-70	BT-30	50	70	ER32	2.0 - 20	M12
BT30-ER32-100	BT-30	50	100	ER32	2.0 - 20	M12
BT30-ER40-80	BT-30	63	80	ER40	2.0 - 26	M12
BT40-ER16-70	BT-40	32	70	ER16	0.5 - 10	M16
BT40-ER16-100	BT-40	32	100	ER16	0.5 - 10	M16
BT40-ER20-70	BT-40	35	70	ER20	1.0 - 12	M16
BT40-ER20-100	BT-40	35	100	ER20	1.0 - 12	M16
BT40-ER20-150	BT-40	35	150	ER20	1.0 - 12	M16
BT40-ER25-70	BT-40	42	70	ER25	1.0 - 16	M16
BT40-ER25-100	BT-40	42	100	ER25	1.0 - 16	M16
BT40-ER25-150	BT-40	42	150	ER25	1.0 - 16	M16
BT40-ER32-70	BT-40	50	70	ER32	2.0 - 20	M16
BT40-ER32-100	BT-40	50	100	ER32	2.0 - 20	M16
BT40-ER32-150	BT-40	50	150	ER32	2.0 - 20	M16
BT40-ER32-200	BT-40	50	200	ER32	2.0 - 20	M16
BT40-ER40-80	BT-40	63	80	ER40	2.0 - 26	M16
BT40-ER40-100	BT-40	63	100	ER40	2.0 - 26	M16
BT40-ER40-150	BT-40	63	150	ER40	2.0 - 26	M16
BT50-ER16-70	BT-50	28	70	ER16	0.5 - 10	M24
BT50-ER20-70	BT-50	35	70	ER20	1.0 - 12	M24
BT50-ER20-100	BT-50	35	100	ER20	1.0 - 12	M24
BT50-ER25-70	BT-50	42	70	ER25	1.0 - 16	M24
BT50-ER25-100	BT-50	42	100	ER25	1.0 - 16	M24
BT50-ER32-70	BT-50	50	70	ER32	2.0 - 20	M24
BT50-ER32-100	BT-50	50	100	ER32	2.0 - 20	M24
BT50-ER32-150	BT-50	50	150	ER32	2.0 - 20	M24
BT50-ER32-200	BT-50	50	200	ER32	2.0 - 20	M24
BT50-ER40-80	BT-50	63	80	ER40	2.0 - 26	M24
BT50-ER40-100	BT-50	63	100	ER40	2.0 - 26	M24
BT50-ER40-150	BT-50	63	150	ER40	2.0 - 26	M24
BT50-ER40-200	BT-50	63	200	ER40	2.0 - 26	M24



SK DIN 69871 TAPER ER COLLET CHUCK

SK DIN 69871 TAPER

PART NUMBER	TAPER	NUT DIA D	GAGE DIA L	COLLET TYPE	COLLET CLAMPING RANGE	D1
SK40-ER16-70	SK-40	32	70	ER16	0.5 - 10	M16
SK40-ER16-100	SK-40	32	100	ER16	0.5 - 10	M16
SK40-ER20-70	SK-40	35	70	ER20	1.0 - 12	M16
SK40-ER20-100	SK-40	35	100	ER20	1.0 - 12	M16
SK40-ER20-150	SK-40	35	150	ER20	1.0 - 12	M16
SK40-ER25-70	SK-40	42	70	ER25	1.0 - 16	M16
SK40-ER25-100	SK-40	42	100	ER25	1.0 - 16	M16
SK40-ER25-150	SK-40	42	150	ER25	1.0 - 16	M16
SK40-ER32-70	SK-40	50	70	ER32	2.0 - 20	M16
SK40-ER32-100	SK-40	50	100	ER32	2.0 - 20	M16
SK40-ER32-150	SK-40	50	150	ER32	2.0 - 20	M16
SK40-ER32-200	SK-40	50	200	ER32	2.0 - 20	M16
SK40-ER40-80	SK-40	63	80	ER40	2.0 - 26	M16
SK40-ER40-100	SK-40	63	100	ER40	2.0 - 26	M16
SK40-ER40-150	SK-40	63	150	ER40	2.0 - 26	M16
SK50-ER16-70	SK-50	28	70	ER16	0.5 - 10	M24
SK50-ER20-70	SK-50	35	70	ER20	1.0 - 12	M24
SK50-ER20-100	SK-50	35	100	ER20	1.0 - 12	M24
SK50-ER25-70	SK-50	42	70	ER25	1.0 - 16	M24
SK50-ER25-100	SK-50	42	100	ER25	1.0 - 16	M24
SK50-ER32-70	SK-50	50	70	ER32	2.0 - 20	M24
SK50-ER32-100	SK-50	50	100	ER32	2.0 - 20	M24
SK50-ER32-150	SK-50	50	150	ER32	2.0 - 20	M24
SK50-ER32-200	SK-50	50	200	ER32	2.0 - 20	M24
SK50-ER40-80	SK-50	63	80	ER40	2.0 - 26	M24
SK50-ER40-100	SK-50	63	100	ER40	2.0 - 26	M24
SK50-ER40-150	SK-50	63	150	ER40	2.0 - 26	M24
SK50-ER40-200	SK-50	63	200	ER40	2.0 - 26	M24



CAT (ANSI B 5.50) TAPER

ER COLLET CHUCK

CAT (ANSI B 5.50) TAPER

ITEM NUMBER	SUITABLE FOR COLLET	COLLET CLAMPING CAPACITY	L	D ₁	NUT DIA
CAT40 ER16-2.76"	ER16	0.0156"-0.375"	2.76"	5/8"-11	32
CAT40 ER16-4"	ER16	0.0156"-0.375"	4"	5/8"-11	32
CAT40 ER16-6"	ER16	0.0156"-0.375"	6"	5/8"-11	32
CAT40 ER20-2.76"	ER20	0.0625"-0.5"	2.76"	5/8"-11	34
CAT40 ER20-4"	ER20	0.0625"-0.5"	4"	5/8"-11	34
CAT40 ER20-6"	ER20	0.0625"-0.5"	6"	5/8"-11	34
CAT40 ER25-2.76"	ER25	0.0625"-0.625"	2.76"	5/8"-11	42
CAT40 ER25-4"	ER25	0.0625"-0.625"	4"	5/8"-11	42
CAT40 ER25-6"	ER25	0.0625"-0.625"	6"	5/8"-11	42
CAT40 ER32-2.76"	ER32	0.125"-0.75"	2.76"	5/8"-11	50
CAT40 ER32-4"	ER32	0.125"-0.75"	4"	5/8"-11	50
CAT40 ER32-6"	ER32	0.125"-0.75"	6"	5/8"-11	50
CAT40 ER32-8"	ER32	0.125"-0.75"	8"	5/8"-11	50
CAT40 ER40-2.76"	ER40	0.125"-1.00"	2.76"	5/8"-11	63
CAT40 ER40-4"	ER40	0.125"-1.00"	4"	5/8"-11	63
CAT40 ER40-6"	ER40	0.125"-1.00"	6"	5/8"-11	63
CAT50 ER16-2.76"	ER16	0.0156"-0.375"	2.76"	1"-8	32
CAT50 ER16-4"	ER16	0.0156"-0.375"	4"	1"-8	32
CAT50 ER16-6"	ER16	0.0156"-0.375"	6"	1"-8	32
CAT50 ER20-2.76"	ER20	0.0625"-0.5"	2.76"	1"-8	34
CAT50 ER20-4"	ER20	0.0625"-0.5"	4"	1"-8	34
CAT50 ER20-6"	ER20	0.0625"-0.5"	6"	1"-8	34
CAT50 ER25-2.76"	ER25	0.0625"-0.625"	2.76"	1"-8	42
CAT50 ER25-4"	ER25	0.0625"-0.625"	4"	1"-8	42
CAT50 ER25-6"	ER25	0.0625"-0.625"	6"	1"-8	42
CAT50 ER32-2.76"	ER32	0.125"-0.75"	2.76"	1"-8	50
CAT50 ER32-4"	ER32	0.125"-0.75"	4"	1"-8	50
CAT50 ER32-6"	ER32	0.125"-0.75"	6"	1"-8	50
CAT50 ER32-8"	ER32	0.125"-0.75"	8"	1"-8	50
CAT50 ER40-2.76"	ER40	0.125"-1.00"	2.76"	1"-8	63
CAT50 ER40-4"	ER40	0.125"-1.00"	4"	1"-8	63
CAT50 ER40-6"	ER40	0.125"-1.00"	6"	1"-8	63
CAT50 ER50 100	ER50	0.25"-1.25"	100	1"-8	78
CAT50 ER50 160	ER50	0.25"-1.25"	160	1"-8	78

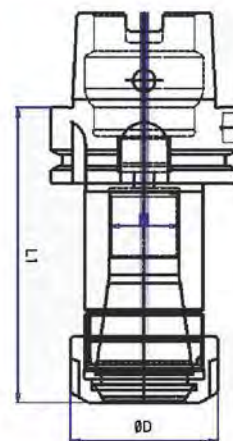


HSK-A DIN69893-1

ER COLLET CHUCK

HSK-A DIN69893-1

ITEM NUMBER	SUITABLE FOR COLLET	CLAMPING CAPACITY	L1	M	NUT DIA. D	NUT TYPE
HSK-A50 ER16 060	ER16	0.5 -10	60	M10x1P	28	UM/ER16
HSK-A50 ER16 100	ER16	0.5 -10	100	M10x1P	34	UM/ER16
HSK-A50 ER20 100	ER20	1.0 -13	100	M10x1P	34	UM/ER20
HSK-A50 ER25 080	ER25	1.0 -16	80	M18x1P	42	UM/ER25
HSK-A50 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A50 ER32 080	ER32	2.0-20	80	M22x1.5P	50	UM/ER32
HSK-A50 ER32 100	ER32	2.0-20	100	M22x1.5P	50	UM/ER32
HSK-A50 ER40 080	ER40	3.0-26	80	M30X1.5P	63	UM/ER40
HSK-A63ER16 100	ER16	0.5-10	100	M10x1P	28	UM/ER16
HSK-A63 ER16 160	ER16	0.5 -10	160	M10x1P	28	UM/ER16
HSK-A63 ER20 100	ER20	1.0 -13	100	M10x1P	34	UM/ER20
HSK-A63 ER20 160	ER20	1.0 -13	160	M10x1P	34	UM/ER20
HSK-A63 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A63 ER25 160	ER25	1.0 -16	160	M18x1P	42	UM/ER25
HSK-A63 ER32 100	ER32	2.0 -20	100	M22x1.5P	50	UM/ER32
HSK-A63 ER32 160	ER32	2.0 • 20	160	M22x1.5P	50	UM/ER32
HSK-A63 ER40 120	ER40	3.0 -26	120	M30X1.5P	63	UM/ER40
HSK-A63 ER40 160	ER40	3.0-26	160	M30X1.5P	63	UM/ER40
HSK-A100 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A100 ER25 160	ER25	1.0 -16	160	M18x1P	42	UM/ER25
HSK-A100 ER32 100	ER32	20-20	100	M22x1.5P	50	UM/ER32
HSK-A100 ER32 160	ER32	20-20	160	M22x1.5P	50	UM/ER32
HSK-A100 ER40 120	ER40	3.0 -26	120	M30X1.5P	63	UM/ER40
HSK-A100 ER40 160	ER40	3.0 -26	160	M30X1.5P	63	UM/ER40

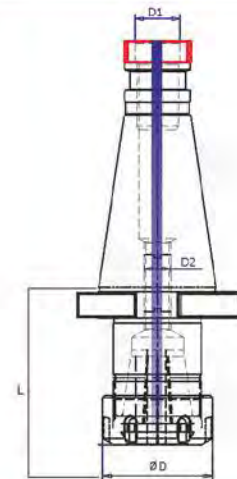


ISO DIN 2080 TAPER

ER COLLET CHUCK

ISO DIN 2080 TAPER

ITEM NUMBER	SUITABLE FOR COLLET	COLLET CLAMPING CAPACITY	L	D1	D2	D
ISO 30 ER 16 050	ER16	0.5-10	50	M 12	M10 X 1P	28
ISO 30 ER 20 050	ER20	1.0-13	50	M 12	M10X 1P	34
ISO 30 ER 25 050	ER25	1.0-16	50	M 12	M18X 1P	42
ISO 30 ER 32 050	ER32	2.0-16	50	M 12	M22 X 1.5P	50
ISO 40 ER 16 060	ER 16	0.5-10	60	M 16	M10X 1P	28
ISO 40 ER 20 060	ER20	1.0-13	60	M 16	M10X 1P	34
ISO 40 ER 25 060	ER25	1.0-16	60	M 16	M18X 1P	42
ISO 40 ER 32 070	ER32	2.0-16	70	M 16	M22X 1.5P	50
ISO 40 ER 40 080	ER40	3.0-26	80	M 16	M30 X 1.5P	63
ISO 50 ER 25 065	ER25	1.0-16	65	M24	M18 X 1P	42
ISO 50 ER 32 070	ER32	2.0-16	70	M24	M22X 1.SP	50
ISO 50 ER 40 080	ER40	3.0-26	80	M24	M30 X 1.5P	63
ISO 50 ER 50 100	ER50	10.0-34	100	M24	M30X 1.5P	78



FACE-MILL HOLDERS / SHELL-MILL HOLDERS



FEATURES:

01

Balanced to
15000 RPM at G6.3
& 25000 RPM at G2.5

02

AT3 Class Taper
Accuracy

03

High precision
pilot holes

04

Hardness :
HRC 56-58

05

Carbon depth:
0.8mm $\pm$ 0.2mm

06

Surface Roughness:
 $R_a < 0.005\text{mm}$

07

Crafted from case
hardened alloy steel

BT MAS 403

FACE MILL HOLDERS

BT TAPER - MAS-403 DIN6357

ITEM NUMBER	TOOL SHANK	A H6	L	L1	B	M
BT 30 FMH 16 040	BT30	16	40	17	38	M8
BT 30 FMH 22 040	BT30	22	40	19	48	M10
BT 30 FMH 27 040	BT30	27	40	21	58	M12
BT 40 FMH 16 045	BT 40	16	45	17	38	M8
BT 40 FMH 16 100	BT 40	16	100	17	38	M8
BT 40 FMH 16 120	BT 40	16	120	17	38	M8
BT 40 FMH 16 160	BT 40	16	160	17	38	M8
BT 40 FMH 22 045	BT 40	22	45	19	48	M10
BT 40 FMH 22 100	BT 40	22	100	19	48	M10
BT 40 FMH 22 150	BT 40	22	150	19	48	M10
BT 40 FMH 22 200	BT 40	22	200	19	48	M10
BT 40 FMH 22 250	BT 40	22	250	19	48	M10
BT 40 FMH 27 045	BT 40	27	45	21	58	M12
BT 40 FMH 27 100	BT40	27	100	21	58	M12
BT 40 FMH 27 120	BT 40	27	120	21	58	M12
BT 40 FMH 27 160	BT 40	27	160	21	58	M12
BT 40 FMH 32 050	BT 40	32	50	24	78	M16
BT 40 FMH 32 100	BT 40	32	100	24	78	M16
BT 40 FMH 32 120	BT 40	32	120	24	78	M16
BT 40 FMH 32 160	BT40	32	160	24	78	M16
BT 50 FMH 16 055	BT50	16	55	17	38	M8
BT 50 FMH 16 100	BT50	16	100	17	38	M8
BT 50 FMH 16 150	BT50	16	150	17	38	M8
BT 50 FMH 22 055	BT50	22	55	19	48	M10
BT 50 FMH 22 100	BT50	22	100	19	48	M10
BT 50 FMH 22 150	BT50	22	150	19	48	M10
BT 50 FMH 22 200	BT50	22	200	19	48	M10
BT 50 FMH 22 250	BT50	22	250	19	48	M10
BT 50 FMH 22 300	BT50	22	300	19	48	M10
BT 50 FMH 27 055	BT50	27	55	21	58	M12
BT 50 FMH 27 100	BT50	27	100	21	58	M12
BT 50 FMH 27 150	BT50	27	150	21	58	M12
BT 50 FMH 32 060	BT50	32	60	24	78	M16
BT 50 FMH 32 100	BT50	32	100	24	78	M16
BT 50 FMH 32 150	BT50	32	150	24	78	M16



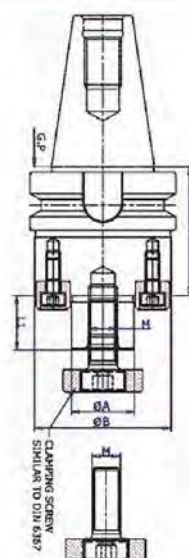
***INCH SIZES AVAILABLE

SK DIN 69871 TAPER

FACE-MILL HOLDERS

SK DIN 69871 TAPER

ITEM NUMBER	TOOL SHANK	A H6	L	L1	B	M
SK 30 FMH 16 040	SK30	16	40	17	38	M8
SK 30 FMH 22 040	SK30	22	40	19	48	M10
SK 30 FMH 27 040	SK30	27	40	21	58	M12
SK 40 FMH 16 045	SK 40	16	45	17	38	M8
SK 40 FMH 16 100	SK 40	16	100	17	38	M8
SK 40 FMH 16 120	SK 40	16	120	17	38	M8
SK 40 FMH 16 160	SK 40	16	160	17	38	M8
SK 40 FMH 22 045	SK 40	22	45	19	48	M10
SK 40 FMH 22 100	SK 40	22	100	19	48	M10
SK 40 FMH 22 150	SK 40	22	150	19	48	M10
SK 40 FMH 22 200	SK 40	22	200	19	48	M10
SK 40 FMH 22 250	SK 40	22	250	19	48	M10
SK 40 FMH 27 045	SK 40	27	45	21	58	M12
SK 40 FMH 27 100	SK40	27	100	21	58	M12
SK 40 FMH 27 120	SK 40	27	120	21	58	M12
SK 40 FMH 27 160	SK 40	27	160	21	58	M12
SK 40 FMH 32 050	SK 40	32	50	24	78	M16
SK 40 FMH 32 100	SK 40	32	100	24	78	M16
SK 40 FMH 32 120	SK 40	32	120	24	78	M16
SK 40 FMH 32 160	SK40	32	160	24	78	M16
SK 50 FMH 16 055	SK50	16	55	17	38	M8
SK 50 FMH 16 100	SK50	16	100	17	38	M8
SK 50 FMH 16 150	SK50	16	150	17	38	M8
SK 50 FMH 22 055	SK50	22	55	19	48	M10
SK 50 FMH 22 100	SK50	22	100	19	48	M10
SK 50 FMH 22 150	SK50	22	150	19	48	M10
SK 50 FMH 22 200	SK50	22	200	19	48	M10
SK 50 FMH 22 250	SK50	22	250	19	48	M10
SK 50 FMH 22 300	SK50	22	300	19	48	M10
SK 50 FMH 27 055	SK50	27	55	21	58	M12
SK 50 FMH 27 100	SK50	27	100	21	58	M12
SK 50 FMH 27 150	SK50	27	150	21	58	M12
SK 50 FMH 32 060	SK50	32	60	24	78	M16
SK 50 FMH 32 100	SK50	32	100	24	78	M16
SK 50 FMH 32 150	SK50	32	150	24	78	M16

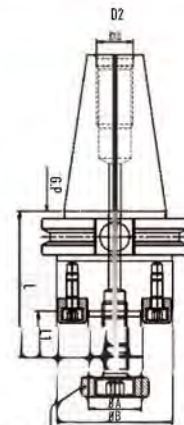


CAT (ANSI B 5.50) TAPER

FACE-MILL HOLDERS

CAT (ANSI B 5.50) TAPER

ITEM NUMBER	TOOL SHANK	A H6	B	L	L1	D1
CAT40-3/4"-13/4"	CAT40	3/4"	2.0"	1.75"	0.687"	5/8"-11
CAT40-3/4"-4"	CAT40	3/4"	2.0"	4"	0.687"	5/8"-11
CAT40-3/4"-6"	CAT40	3/4"	2.0"	6"	0.687"	5/8"-11
CAT40-1.0"-2"	CAT40	1.0"	2.375"	2"	0.687"	5/8"-11
CAT40-1.0"-4"	CAT40	1.0"	2.375"	4"	0.687"	5/8"-11
CAT40-1.0"-6"	CAT40	1.0"	2.375"	6"	0.687"	5/8"-11
CAT40-1 1/4"-2"	CAT40	1 1/4"	2.875"	2"	0.687"	5/8"-11
CAT40-1 1/4"-4"	CAT40	1 1/4"	2.875"	4"	0.687"	5/8"-11
CAT40-1 1/4"-6"	CAT40	1 1/4"	2.875"	6"	0.687"	5/8"-11
CAT40-1 1/2"-2"	CAT40	1 1/2"	3.75"	2"	0.938"	5/8"-11
CAT40-1 1/2"-4"	CAT40	1 1/2"	3.75"	4"	0.938"	5/8"-11
CAT40-1 1/2"-6"	CAT40	1 1/2"	3.75"	6"	0.938"	5/8"-11
CAT50-3/4"-13/4"	CAT50	3/4"	2.0"	1.75"	0.687"	1"-8
CAT50-3/4"-4"	CAT50	3/4"	2.0"	4"	0.687"	1"-8
CAT50-3/4"-6"	CAT50	3/4"	2.0"	6"	0.687"	1"-8
CAT50-1.0"-2"	CAT50	1.0"	2.375"	2"	0.687"	1"-8
CAT50-1.0"-4"	CAT50	1.0"	2.375"	4"	0.687"	1"-8
CAT50-1.0"-6"	CAT50	1.0"	2.375"	6"	0.687"	1"-8
CAT50-1 1/4"-2"	CAT50	1 1/4"	2.875"	2"	0.687"	1"-8
CAT50-1 1/4"-4"	CAT50	1 1/4"	2.875"	4"	0.687"	1"-8
CAT50-1 1/4"-6"	CAT50	1 1/4"	2.875"	6"	0.687"	1"-8
CAT50-1 1/2"-2"	CAT50	1 1/2"	3.75"	2"	0.938"	1"-8
CAT50-1 1/2"-4"	CAT50	1 1/2"	3.75"	4"	0.938"	1"-8
CAT50-1 1/2"-6"	CAT50	1 1/2"	3.75"	6"	0.938"	1"-8



CLAMPING SCREW
SIMILAR TO DIN6347
WITH HIGH
CLAMPING POWER

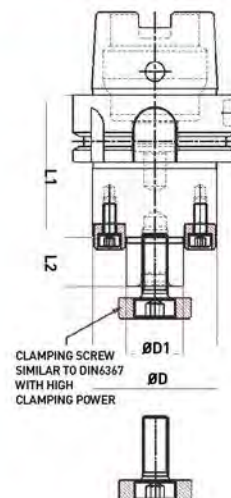


HSK-A DIN69893-1

FACE-MILL HOLDERS

HSK-A DIN69893-1

ITEM NUMBER	D1	L1	D	L2
HSK-A50 FMH16 045	16	45	38	17
HSK-A50 FMH22 055	22	55	48	19
HSK-A50 FMH27 055	27	55	58	21
HSK-A50 FMH32 060	32	60	78	24
HSK-A63 FMH16 045	16	45	38	17
HSK-A63 FMH16 100	16	100	38	17
HSK-A63 FMH16 160	16	160	38	17
HSK-A63 FMH22 050	22	50	48	19
HSK-A63 FMH22 100	22	100	48	19
HSK-A63 FMH22 160	22	160	48	19
HSK-A63 FMH27 055	27	55	58	21
HSK-A63 FMH27 100	27	100	58	21
HSK-A63 FMH27 160	27	160	58	21
HSK-A63 FMH32 060	32	60	78	24
HSK-A63 FMH32 100	32	100	78	24
HSK-A63 FMH32 160	32	160	78	24
HSK-A63 FMH40 065	40	65	88	27
HSK-A63 FMH40 100	40	100	88	27
HSK-A63 FMH40 160	40	160	88	27
HSK-A100 FMH16 055	16	55	38	17
HSK-A100 FMH22 055	22	55	48	19
HSK-A100 FMH27 055	27	55	58	21
HSK-A100 FMH32 060	32	60	78	24
HSK-A100 FMH40 065	40	65	88	27



***INCH SIZES AVAILABLE

D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16XM8	8	M4
22	SCR22X M10	10	M5
27	SCR27 XM12	12	M5
32	SCR32XM16	14	M6
40	SCR40XM20	16	M6



TENON



ALLEN CAP SCREW

SCREW

ISO DIN 2080 TAPER

FACE-MILL HOLDERS

ISO DIN 2080 TAPER

ITEM NUMBER	ISO	A H6	L	L1	B
ISO 30 FMH 16 030	30	16	30	17	32
ISO 30 FMH 22 030	30	22	30	19	40
ISO 30 FMH 27 030	30	27	30	21	48
ISO 40 FMH 16 030	40	16	30	17	32
ISO 40 FMH 16 120	40	16	120	17	38
ISO 40 FMH 22 030	40	22	30	19	40
ISO 40 FMH 22 120	40	22	120	19	48
ISO 40 FMH 27 030	40	27	30	21	48
ISO 40 FMH 27 120	40	27	120	21	58
ISO 40 FMH 32 035	40	32	35	24	58
ISO 40 FMH 32 120	40	32	120	24	78
ISO 40 FMH 40 035	40	40	35	27	70
ISO 50 FMH 16 040	50	16	40	17	32
ISO 50 FMH 16 150	50	16	150	17	38
ISO 50 FMH 22 040	50	22	40	19	40
ISO 50 FMH 22 150	50	22	150	19	48
ISO 50 FMH 27 040	50	27	40	21	48
ISO 50 FMH 27 150	50	27	150	21	58
ISO 50 FMH 32 045	50	32	45	24	58
ISO 50 FMH 32 150	50	32	150	24	78
ISO 50 FMH 40 045	50	40	45	27	70
ISO 50 FMH 40 150	50	40	150	27	82



D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16XM8	8	M4
22	SCR22X M10	10	M5
27	SCR27 XM12	12	M5
32	SCR32XM16	14	M6
40	SCR40XM20	16	M6



SIDE-LOCK HOLDER / END MILL HOLDERS



FEATURES:

01

Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5

02

AT3 Class Taper Accuracy

03

H5 bore tolerance for optimum contact with cutting tool

04

High precision pilot holes

05

Hardness: HRC 56-58

06

Carbon depth: 0.8mm $\pm$ 0.2mm

07

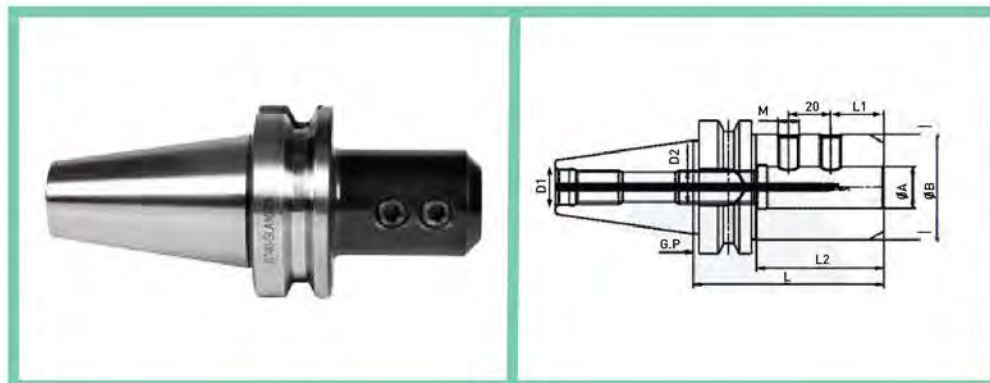
Surface Roughness:
 $Ra < 0.005mm$

08

Crafted from case hardened alloy steel

BT TAPER – MAS-403 – DIN6359

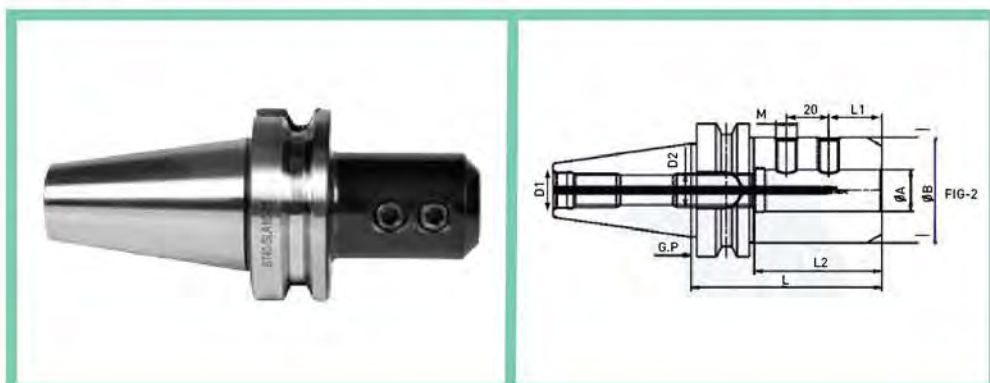
SIDELOCK HOLDER / ENDMILL HOLDERS



ITEM NUMBER	TOOL SHANK	A H6	L	B	L1	L2	D1	D2	M
BT 30 SLA06 065	BT30	6	65	20	15	35	M 12	M5	M6
BT 30 SLA08 065	BT30	8	65	24	15	40	M 12	M6	M8
BT 30 SLA10 065	BT30	10	65	30	16	44	M 12	M8	M10
BT 30 SLA12 065	BT30	12	65	35	20	44	M 12	M10	M10
BT 30 SLA16 065	BT30	16	65	40	23	52	M 12	M12	M10
BT 30 SLA20 090	BT30	20	90	50	25	70	M 12	M12	M10
BT 30 SLA25 090	BT30	25	90	50	25	70	M 12	M12	M10
BT 40 SLA06 065	BT40	6	65	20	15	35	M 16	M5	M6
BT 40 SLA08 065	BT 40	8	65	24	15	40	M 16	M6	M8
BT 40 SLA10 065	BT 40	10	65	30	16	44	M 16	M8	M10
BT 40 SLA12 065	BT40	12	65	35	20	44	M 16	M10	M10
BT 40 SLA16 065	BT 40	16	65	40	23	52	M 16	M12	M10
BT 40 SLA20 090	BT40	20	90	50	25	70	M 16	M12	M10
BT 40 SLA25 090	BT 40	25	90	50	25	70	M 16	M12	M10
BT 40 SLA32 090	BT40	32	90	60	30	70	M 16	M12	M10
BT 40 SLA40 090	BT40	40	90	60	30	70	M 16	M12	M10
BT 50 SLA06 075	BT50	6	75	20	15	35	M24	M5	M6
BT 50 SLA08 075	BT50	8	75	24	15	40	M24	M6	M8
BT 50 SLA10 075	BT50	10	75	30	16	44	M24	M8	M10
BT 50 SLA12 075	BT50	12	75	35	20	44	M24	M10	M10
BT 50 SLA16 075	BT50	16	75	40	23	52	M24	M12	M10
BT 50 SLA20 105	BT50	20	105	50	25	70	M24	M12	M10
BT 50 SLA25 105	BT50	25	105	50	25	70	M24	M12	M10
BT 50 SLA32 105	BT50	32	105	60	30	70	M24	M12	M10
BT 50 SLA40 105	BT50	40	105	60	30	70	M24	M12	M10
BT 50 SLA40 150	BT50	40	150	60	30	70	M24	M12	M10
BT 50 SLA50 075	BT50	50	75	90	40	70	M24	M12	M12
BT 50 SLA50 105	BT50	50	105	90	40	70	M24	M12	M12
BT 50 SLA50 150	BT50	50	150	90	40	70"	M24	M12	M12

SK DIN 69871 TAPER

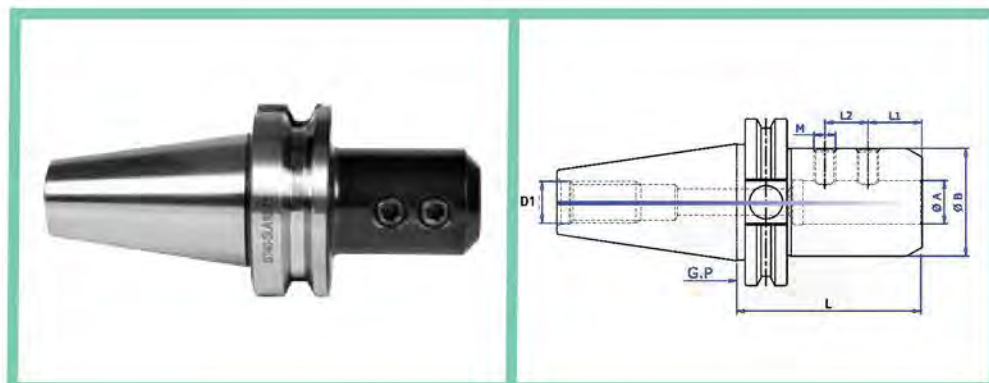
SIDE LOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	TOOL SHANK	A H6	L	B	L1	L2	D1	D2	M
SK 30 SLA06 065	SK30	6	65	20	15	35	M 12	M5	M6
SK 30 SLA08 065	SK30	8	65	24	15	40	M 12	M6	M8
SK 30 SLA10 065	SK30	10	65	30	16	44	M 12	M8	M10
SK 30 SLA12 065	SK30	12	65	35	20	44	M 12	M10	M10
SK 30 SLA16 065	SK30	16	65	40	23	52	M 12	M12	M10
SK 30 SLA20 090	SK30	20	90	50	25	70	M 12	M12	M10
SK 30 SLA25 090	SK30	25	90	50	25	70	M 12	M12	M10
SK 40 SLA06 065	SK40	6	65	20	15	35	M 16	M5	M6
SK 40 SLA08 065	SK 40	8	65	24	15	40	M 16	M6	M8
SK 40 SLA10 065	SK 40	10	65	30	16	44	M 16	M8	M10
SK 40 SLA12 065	SK40	12	65	35	20	44	M 16	M10	M10
SK 40 SLA16 065	SK 40	16	65	40	23	52	M 16	M12	M10
SK 40 SLA20 090	SK40	20	90	50	25	70	M 16	M12	M10
SK 40 SLA25 090	SK 40	25	90	50	25	70	M 16	M12	M10
SK 40 SLA32 090	SK40	32	90	60	30	70	M 16	M12	M10
SK 40 SLA40 090	SK40	40	90	60	30	70	M 16	M12	M10
SK 50 SLA06 075	SK50	6	75	20	15	35	M24	M5	M6
SK 50 SLA08 075	SK50	8	75	24	15	40	M24	M6	M8
SK 50 SLA10 075	SK50	10	75	30	16	44	M24	M8	M10
SK 50 SLA12 075	SK50	12	75	35	20	44	M24	M10	M10
SK 50 SLA16 075	SK50	16	75	40	23	52	M24	M12	M10
SK 50 SLA20 105	SK50	20	105	50	25	70	M24	M12	M10
SK 50 SLA25 105	SK50	25	105	50	25	70	M24	M12	M10
SK 50 SLA32 105	SK50	32	105	60	30	70	M24	M12	M10
SK 50 SLA40 105	SK50	40	105	60	30	70	M24	M12	M10
SK 50 SLA40 150	SK50	40	150	60	30	70	M24	M12	M10
SK 50 SLA50 075	SK50	50	75	90	40	70	M24	M12	M12
SK 50 SLA50 105	SK50	50	105	90	40	70	M24	M12	M12
SK 50 SLA50 150	SK50	50	150	90	40	70	M24	M12	M12

CAT (ANSI B5.50) TAPER

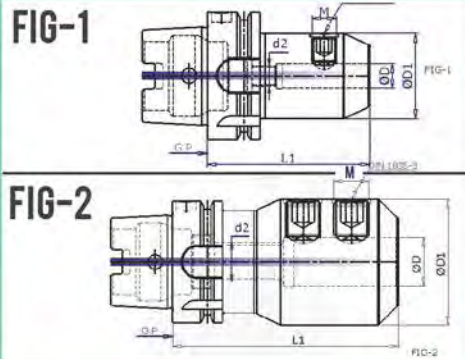
SIDELOCK HOLDER / ENDMILL HOLDERS



ITEM NUMBER	A H5	L	B	L1	L2	D1	M
CAT40-1/8"-2 3/8"	1/8"	2.375"	0.69"	0.370"	---	5/8"-11	6-32UNCX1/4"
CAT40-3/16"-2 1/2"	3/16"	2.50"	0.69"	0.562"	---	5/8"-11	8-32UNCX1/4"
CAT40-1/4"-2 1/2"	1/4"	2.50"	0.78"	0.630"	---	5/8"-11	1/4"-28UNFX1/4"
CAT40-5/16"-2 1/2"	5/16"	2.50"	0.88"	0.630"	---	5/8"-11	5/16"-24UNFX1/4"
CAT40-3/8"-2 1/2"	3/8"	2.50"	1.0"	0.750"	---	5/8"-11	3/8"-24UNFX5/16"
CAT40-7/16"-3.00"	7/16"	3.0"	1.25"	0.875"	---	5/8"-11	3/8"-24UNFX3/8"
CAT40-1/2"-3.00"	1/2"	3.0"	1.25"	0.875"	---	5/8"-11	7/16"-20UNFX3/8"
CAT40-5/8"-3.00"	5/8"	3.0"	1.50"	0.93711	---	5/8"-11	1/2"-20UNFX7/16"
CAT40-3/4"-3.00"	3/4"	3.0"	1.75"	1.00"	---	5/8"-11	5/8"-18UNFX1/2"
CAT40-7/8"-3 1/2"	7/8"	3.5"	1.88"	1.063"	0.875"	5/8"-11	5/8"-18UNFX1/2"
CAT40-1.0"-4.00"	1.0"	4.0"	2.0"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT40-1 1/4"-4.00"	1 1/4"	4.0"	2.5"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT40-1 1/2"-4 1/2"	1 1/2"	4.5"	2.5"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT50-1/8"-2 3/8"	1/8"	2.375"	0.69"	0.370"	---	1"-8	6-32UNCX1/4"
CAT50-3/16"-2 1/2"	3/16"	2.50"	0.69"	0.562"	---	1"-8	8-32UNCX1/4"
CAT50-1/4"-2 1/2"	1/4"	2.50"	0.78"	0.630"	---	1"-8	1/4"-28UNFX1/4"
CAT50-5/16"-2 1/2"	5/16"	2.50"	0.88"	0.630"	---	1"-8	5/16"-24UNFX1/4"
CAT50-3/8"-2 1/2"	3/8"	2.50"	1.0"	0.750"	---	1"-8	3/8"-24UNFX5/16"
CAT50-7/16"-3.00"	7/16"	3.0"	1.25"	0.875"	---	1"-8	3/8"-24UNFX3/8"
CAT50-1/2"-3.00"	1/2"	3.0"	1.25"	0.875"	---	1"-8	7/16"-20UNFX3/8"
CAT50-5/8"-3.00"	5/8"	3.0"	1.50"	0.937"	---	1"-8	1/2"-20UNFX7/16"
CAT50-3/4"-3.00"	3/4"	3.0"	1.75"	1.00"	---	1"-8	5/8"-18UNFX1/2"
CAT50-7/8"-4.00"	7/8"	4.0"	1.88"	1.063"	0.875"	1"-8	5/8"-18UNFX1/2"
CAT50-1.00"-4.00"	1.0"	4.0"	2.0"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"
CAT50-1 1/4"-4.00"	1 1/4"	4.0"	2.5"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"
CAT50-1 1/2"-4 1/2"	1 1/2"	4.5"	2.5"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"

HSK-A DIN69893-1

SIDE LOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	D H5	L1	D1	M	D2	FIG
HSK-A50 WN06 065	6	65	25	M6	MS	1
HSK-A50 WN08 065	8	65	28	M8	M6	1
HSK-A50 WN10 065	10	65	35	M10	MS	1
HSK-A 50 WN12 080	12	80	42	M12	M10	1
HSK-A50 WN14 080	14	80	44	M12	M10	1
HSK-A50 WN16 080	16	80	48	M14	M12	1
HSK-A50 WN18 080	18	80	50	M14	M12	1
HSK-A50 WN20 080	20	80	52	M16	M16	1
HSK-A50 SLA25 100	25	100	50	M10X2P	M12	2
HSK-A63 WN06 065	6	65	25	M6	M5	1
HS K-A63 WN06 100	6	100	25	M6	M5	1
HSK-A63 WN06 160	6	160	25	M6	M5	1
HSK-A63 WN08 065	8	65	28	M8	M6	1
HSK-A63 WN08 100	8	100	28	M8	M6	1
HS K-A63 WN08 160	8	160	28	M8	M6	1
HSK-A63 WN10 065	10	65	35	M10	MS	1
HSK-A63 WN10 100	10	100	35	M10	MS	1
HSK-A63 WN10 160	10	160	35	M10	MS	1
HSK-A63 WN12 080	12	80	42	M12	M10	1
HSK-A63 WN12 100	12	100	42	M12	M10	1
HSK-A63 WN12 160	12	160	42	M12	M10	1
HSK-A63 WN14 080	14	80	44	M12	M10	1
HSK-A63 WN14 100	14	100	44	M12	M10	1
HSK-A63 WN14 160	14	160	44	M12	M10	1
HSK-A63 WN16 080	16	80	48	M14	M12	1
HSK-A63 WN16 100	16	100	48	M14	M12	1
HSK-A63 WN16 160	16	160	48	M14	M12	1
HSK-A63 WN18 080	18	80	50	M14	M12	1
HSK-A63 WN18100	18	100	50	M14	M12	1

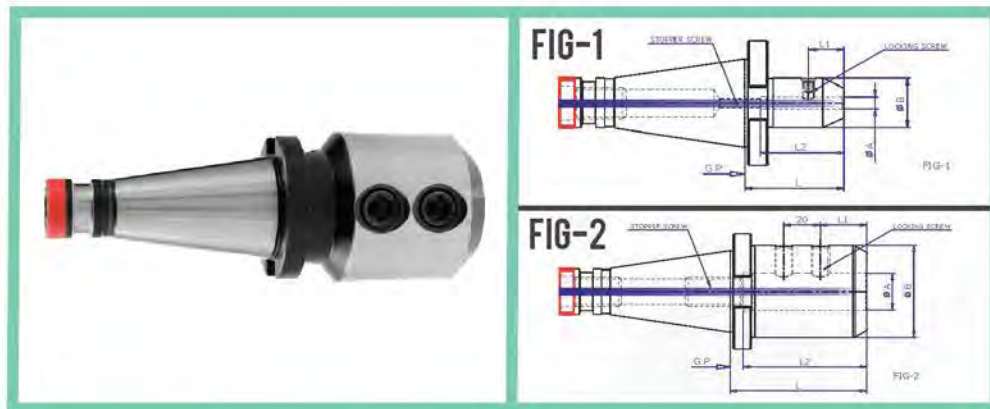
HSK-A DIN69893-1

SIDELock HOLDER / END MILL HOLDERS

ITEM NUMBER	D H5	L1	D1	M	D2	FIG
HSK-A63 WN18 160	18	160	50	M14	M12	1
HSK-A63 WN20 080	20	80	52	M16	M16	1
HS K-A 63 WN20 100	20	100	52	M16	M16	1
HS K-A 63 WN20 160	20	160	52	M16	M16	1
HSK-A63 WN25110	25	110	65	M18X2P	M20	2
HSK-A63WN32110	32	110	72	M18X2P	M20	2
HSK-A63WN40125	40	125	80	M20X2P	M20	2
HSK-A100WN06 080	6	80	25	M6	M5	1
HSK-A100WN06 160	6	160	25	M6	M5	1
HSK-A100WN08 080	8	80	28	M8	M6	1
HSK-A100WN08160	8	160	28	M8	M6	1
HSK-A100WN10 080	10	80	35	M10	M8	1
HSK-A100WN10 160	10	160	35	M10	M8	1
HSK-A100WN12 100	12	100	42	M12	M10	1
HSK-A100WN12 160	12	160	42	M12	M10	1
HSK-A100WN14 100	14	100	44	M12	M10	1
HSK-A100WN14160	14	160	44	M12	M10	1
HSK-A100WN16100	16	100	48	M14	M12	1
HSK-A100WN16 160	16	160	48	M14	M12	1
HSK-A100WN18100	18	100	50	M14	M12	1
HSK-A100WN18160	18	160	50	M14	M12	1
HSK-A100WN20 100	20	100	52	M16	M16	1
HSK-A100WN20 160	20	160	52	M16	M16	1
HSK-A100WN25100	25	100	65	M18X2P	M20	2
HSK-A100WN25160	25	160	65	M18X2P	M20	2
HSK-A100WN32120	32	120	72	M20X2P	M20	2
HSK-A100WN32160	32	160	72	M20X2P	M20	2
HSK-A100WN40120	40	120	80	M20X2P	M20	2
HSK-A100WN50 130	50	130	100	M24X2P	M20	2

ISO DIN 2080 TAPER

SIDE LOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	ISO	A H5	L	B	L1	L2	STOPPER SCREW	LOCKING SCREW SIZE	FIG
ISO 30 SLA06 065	30	6	65	20	15	40	MS	M6	1
ISO 30 SLA08 065	30	8	65	24	15	40	M6	MS	1
ISO 30 SLA10 065	30	10	65	30	16	44	MS	M 10	1
ISO 30 SLA12 065	30	12	65	35	20	44	M 10	M 10	1
ISO 30 SLA16 065	30	16	65	40	23	52	M 12	M 10	1
ISO 30 SLA20 090	30	20	90	50	25	70	M 16	M 10	2
ISO 30 SLA25 090	30	25	90	50	25	70	M20	M 10	2
ISO 40 SLA06 065	40	6	65	20	15	40	MS	M6	1
ISO 40 SLA08 065	40	8	65	24	15	40	M6	MS	1
ISO 40 SLA10 065	40	10	65	30	16	44	MS	M 10	1
ISO 40 SLA12 065	40	12	65	35	20	44	M 10	M 10	1
ISO 40 SLA16 065	40	16	65	40	23	52	M 12	M 10	1
ISO 40 SLA20 090	40	20	90	50	25	70	M 16	M 10	2
ISO 40 SLA25 090	40	25	90	50	25	70	M20	M 10	2
ISO 40 SLA32 090	40	32	90	60	30	70	M20	M 10	2
ISO 40 SLA40 090	40	40	90	60	30	70	M20	M 10	2
ISO 50 SLA06 075	50	6	75	20	15	40	MS	M6	1
ISO 50 SLA08 075	50	8	75	24	15	40	M6	MS	1
ISO 50 SLA10 075	50	10	75	30	16	44	MS	M 10	1
ISO 50 SLA12 075	50	12	75	35	20	44	M 10	M 10	1
ISO 50 SLA16 075	50	16	75	40	23	52	M 12	M 10	1
ISO 50 SLA20 105	50	20	105	50	25	70	M 16	M 10	2
ISO 50 SLA25 105	50	25	105	50	25	70	M20	M 10	2
ISO 50 SLA32 105	50	32	105	60	30	70	M20	M 10	2
ISO 50 SLA40 105	50	40	105	60	30	70	M20	M 10	2

POWER MILLING

CHUCKS



FEATURES:

01

Balanced to 15000 RPM

02

AT3 Class Taper Accuracy

03

High precision pilot holes

04

Hardness: HRC 56-58

05

H5 bore tolerance for optimum contact with cutting tool

06

Carbon depth: 0.8mm $\pm$ 0.2mm

07

Surface Roughness:
 $Ra < 0.005\text{mm}$

08

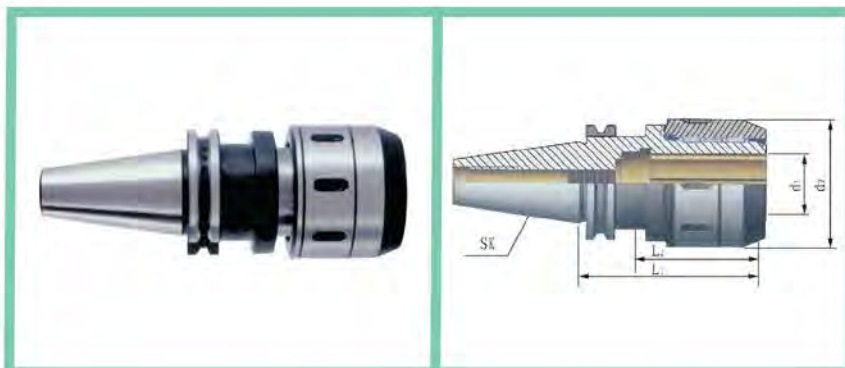
Crafted from case hardened alloy steel

09

Enough thickness of clamping part prevents chattering and ensures durability

BT TAPER – MAS-403

POWER MILLING CHUCK

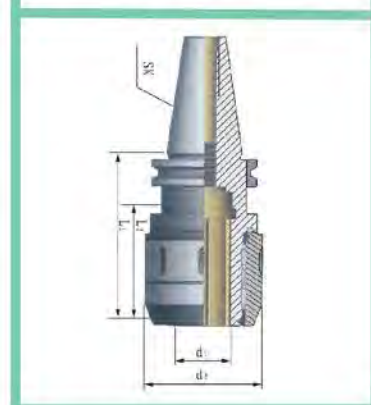


ITEM NUMBER	TAPER	d_1	L_1
BT30-MC20-75	BT30	20	75
BT30-MC20-90	BT30	20	90
BT40-MC20-80	BT40	20	80
BT40-MC20-100	BT40	20	100
BT40-MC20-135	BT40	20	135
BT40-MC32-90	BT40	32	90
BT40-MC32-105	BT40	32	105
BT40-MC32-135	BT40	32	135
BT50-MC20-105	BT50	20	105
BT50-MC20-150	BT50	20	150
BT50-MC32-110	BT50	32	110
BT50-MC32-135	BT50	32	135
BT50-MC32-165	BT50	32	165
BT50-MC32-200	BT50	32	200
BT50-MC42-110	BT50	42	110
BT50-MC42-130	BT50	42	130
BT50-MC42-165	BT50	42	165

SK DIN 69871 TAPER/ POWER MILLING CHUCK

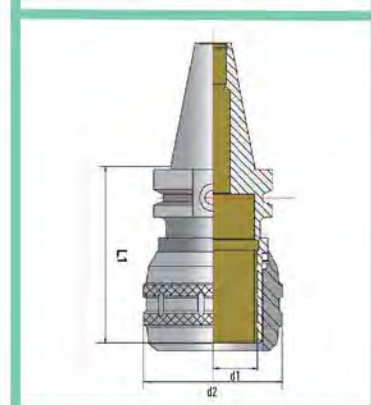
SK DIN 69871 TAPER

ITEM NUMBER	TAPER	d_1	L_1
SK30-MC20-75	SK30	20	75
SK30-MC20-90	SK30	20	90
SK40-MC20-80	SK40	20	80
SK40-MC20-100	SK40	20	100
SK40-MC20-135	SK40	20	135
SK40-MC32-90	SK40	32	90
SK40-MC32-105	SK40	32	105
SK40-MC32-135	SK40	32	135
SK50-MC20-105	SK50	20	105
SK50-MC20-150	SK50	20	150
SK50-MC32-110	SK50	32	110
SK50-MC32-135	SK50	32	135
SK50-MC32-165	SK50	32	165
SK50-MC32-200	SK50	32	200
SK50-MC42-110	SK50	42	110
SK50-MC42-130	SK50	42	130
SK50-MC42-165	SK50	42	165



CAT (ANSI B 5.50) TAPER

ITEM NUMBER	TAPER	d_1	L_1	L_2
CAT40 MC 3/4"-3.385"	CAT40	3/4"	2.17	3.39"
CAT40 MC 3/4"-4.13"	CAT40	3/4"	2.17	4.13"
CAT40-MC 1-1/4"-4.53"	CAT40	1.25"	2.87	4.53"
CAT50-MC 3/4"-4.13"	CAT50	3/4"	2.17	4.13"
CAT50 MC 1-1/4"-4.13"	CAT50	1.25"	2.87	4.13"



MORSE-TAPER HOLDER



FEATURES:

01

Balanced to
15000 RPM at G6.3
& 25000 RPM at G2.5

02

AT3 Class Taper
Accuracy

03

High precision
pilot holes

04

H5 bore tolerance for
optimum contact with
cutting tool

05

Hardness :
HRC 56-58

06

Carbon depth:
0.8mm $\pm$ 0.2mm

07

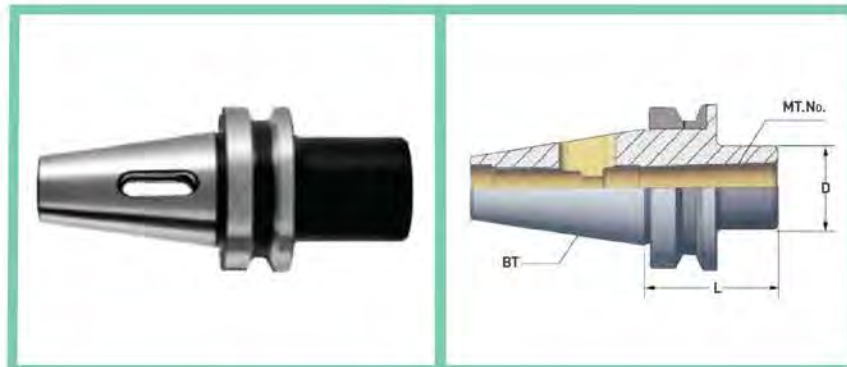
Surface Roughness:
 $R_a < 0.005\text{mm}$

08

Crafted from case
hardened alloy steel

BT TAPER – MAS-403 – DIN228

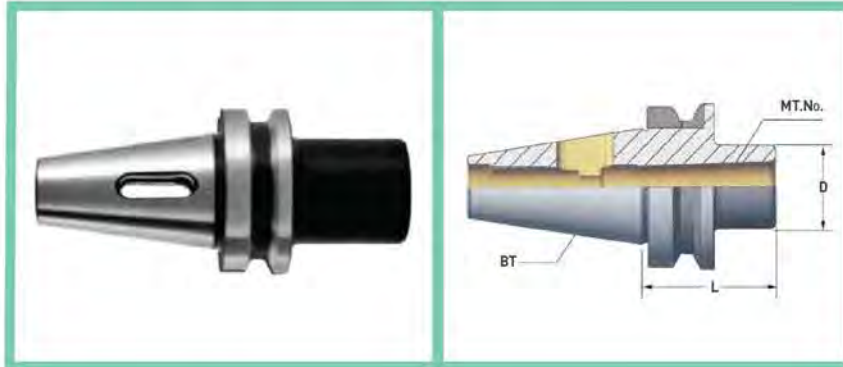
MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D
BT 30 MTA01 050	BT30	MT-1	50	25
BT30MTA01110	BT30	MT-1	110	25
BT 30 MTA02 060	BT30	MT-2	60	32
BT 30 MTA02 120	BT30	MT-2	120	32
BT 30 MTA03 075	BT30	MT-3	75	40
BT 30 MTA03 140	BT30	MT-3	140	40
BT 40 MTA01 050	BT40	MT-1	50	25
BT 40 MTA01 115	BT40	MT-1	115	25
BT 40 MTA02 050	BT40	MT-2	50	32
BT 40 MTA02 125	BT40	MT-2	125	32
BT 40 MTA03 070	BT40	MT-3	70	40
BT 40 MTA03140	BT40	MT-3	140	40
BT 40 MTA 04195	BT40	MT-4	195	48
BT 50 MTA01 050	BT50	MT-1	50	25
BT 50 MTA01 120	BT50	MT-1	120	25
BT 50 MTA02 060	BT50	MT-2	60	32
BT 50 MTA02 140	BT50	MT-2	140	32
BT 50 MTA03 065	BT50	MT-3	65	40
BT 50 MTA03 150	BT50	MT-3	150	40
BT 50 MTA04 095	BT50	MT-4	95	48
BT 50 MTA04180	BT50	MT-4	180	48
BT 50 MTA05 120	BT50	MT-5	120	63
BT 50 MTA05 220	BT50	MT-5	220	163

SK DIN 69871 TAPER

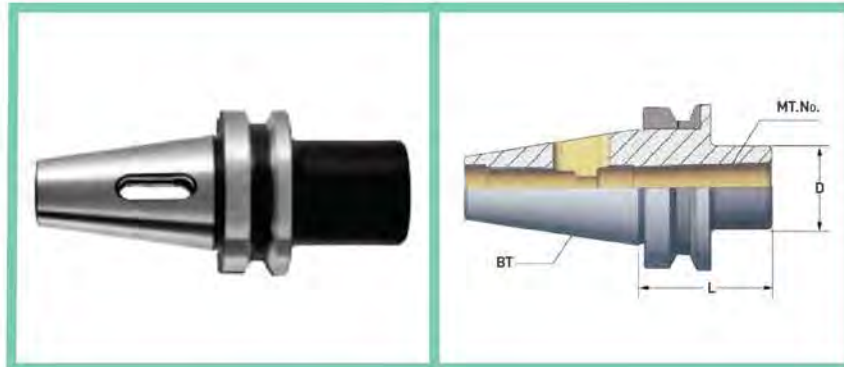
MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D
SK 30 MTA01 050	SK30	MT-1	50	25
SK30MTA01110	SK30	MT-1	110	25
SK 30 MTA02 060	SK30	MT-2	60	32
SK 30 MTA02 120	SK30	MT-2	120	32
SK 30 MTA03 075	SK30	MT-3	75	40
SK 30 MTA03 140	SK30	MT-3	140	40
SK 40 MTA01 050	SK40	MT-1	50	25
SK 40 MTA01 115	SK40	MT-1	115	25
SK 40 MTA02 050	SK40	MT-2	50	32
SK 40 MTA02 125	SK40	MT-2	125	32
SK 40 MTA03 070	SK40	MT-3	70	40
SK 40 MTA03140	SK40	MT-3	140	40
SK 40 MTA 04195	SK40	MT-4	195	48
SK 50 MTA01 050	SK50	MT-1	50	25
SK 50 MTA01 120	SK50	MT-1	120	25
SK 50 MTA02 060	SK50	MT-2	60	32
SK 50 MTA02 140	SK50	MT-2	140	32
SK 50 MTA03 065	SK50	MT-3	65	40
SK 50 MTA03 150	SK50	MT-3	150	40
SK 50 MTA04 095	SK50	MT-4	95	48
SK 50 MTA04180	SK50	MT-4	180	48
SK 50 MTA05 120	SK50	MT-5	120	63
SK 50 MTA05 220	SK50	MT-5	220	163

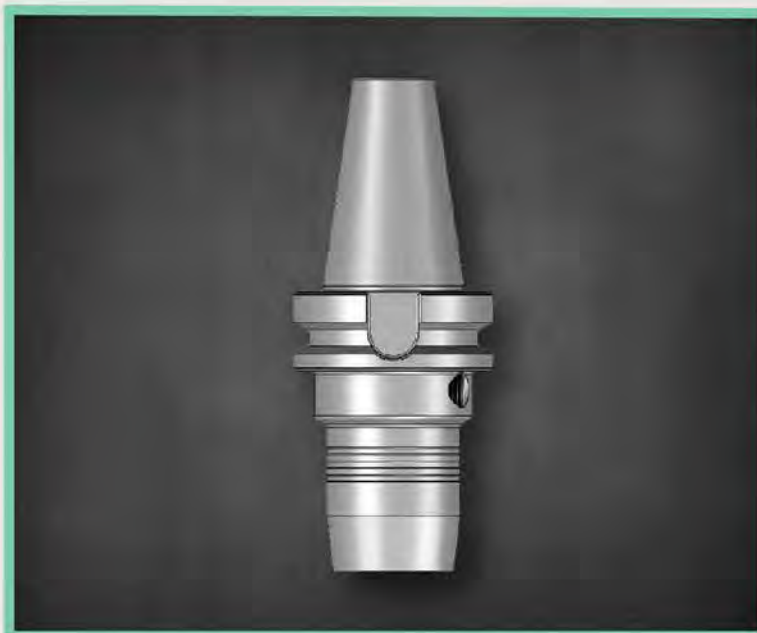
CAT (ANSI B5.50) TAPER

MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D	THREADS
CAT40MT01-2.00"	CAT40	MT-1	2.0"	1.0"	5/8"-11
CAT40MT02-2.00"	CAT40	MT-2	2.0"	1.25"	5/8"-11
CAT40MT03-2 3/4"	CAT40	MT-3	2.75"	1.574"	5/8"-11
CAT40MT04-3 3/4"	CAT40	MT-4	3.75"	1.889"	5/8"-11
CAT50 MT01-2.00"	CAT-50	MT-1	2.0"	1.0"	1"-8
CAT50MT02-2 3/8"	CAT-50	MT-2	2.375"	1.25"	1"-8
CAT50 MT03-2 1/2"	CAT-50	MT-3	2.5"	1.574"	1"-8
CAT50 MT04-3 3/4"	CAT-50	MT-4	3.75"	1.889"	1"-8
CAT50 MT05-4 3/4"	CAT-50	MT-5	4.75"	2.48"	1"-8

HYDRAULIC-CHUCK/HOLDERS



FEATURES:

01

Balanced 25000 RPM
at G2.5

02

Accuracy: 3 Micron or
0.0001" TIR or better

03

AT3 Class Taper
Accuracy

04

Through-tool coolant
feature is standard

05

High precision pilot
holes

06

Hardness :
HRC 56-58

07

Carbon depth:
0.8mm +/-0.2mm

08

Surface Roughness:
Ra<0.005mm

09

Crafted from case
hardened alloy steel

10

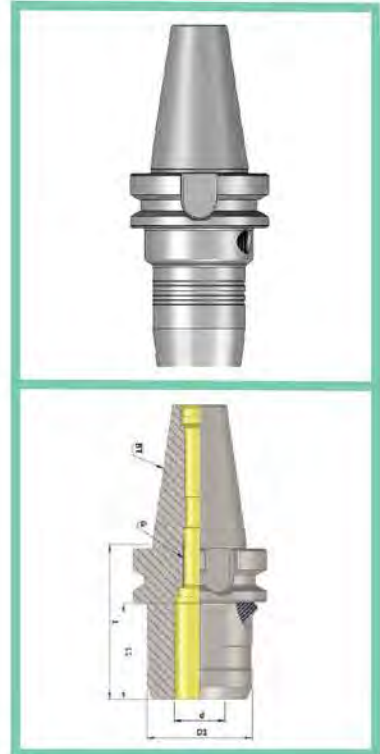
Best suitable for Drilling,
Reaming & Milling
operations

ISO-DIN 2080 TAPER

HYDRAULIC CHUCK / HOLDERS

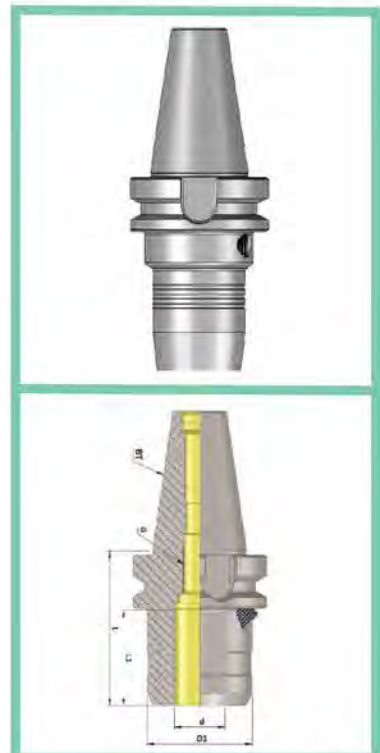
BT TAPER - MAS-403 - DIN ISO 7388-2

ITEM NUMBER	d	D1	G	L	L1
BT30 HYD12 069	12	42	M10	69	40
BT30 HYD20 090	20	so	M16	90	42
BT40 HYD12 058	12	42	M10	58	40
BT40 HYD20 72.5	20	50	M16	72.5	42
BT40 HYD32 90	32	72	M16	90	55
BT50 HYD12 069	12	42	M10	69	40
BT50 HYD20 083	20	50	M16	83	42
BT50 HYD32 090	32	72	M16	90	55
BT40 HYD6 090	6	42	M16	90	55
BT40 HYD8 090	8	42	M16	90	55
BT40 HYD10 090	10	42	M16	90	55
BT40 HYD14 090	14	42	M16	90	55
BT40 HYD16 090	16	42	M16	90	55
BT40 HYD18 090	18	50	M16	90	55
BT40 HYD25 090	25	65	M16	90	55



SK DIN 69871 TAPER DIN ISO 7388-1

ITEM NUMBER	d	D1	G	L	L1
SK30 HYD12 069	12	42	M10	69	40
SK30 HYD20 090	20	so	M16	90	42
SK40 HYD12 058	12	42	M10	58	40
SK40 HYD20 72.5	20	50	M16	72.5	42
SK40 HYD32 90	32	72	M16	90	55
SK50 HYD12 069	12	42	M10	69	40
SK50 HYD20 083	20	50	M16	83	42
SK50 HYD32 090	32	72	M16	90	55
SK40 HYD6 090	6	42	M16	90	55
SK40 HYD8 090	8	42	M16	90	55
SK40 HYD10 090	10	42	M16	90	55
SK40 HYD14 090	14	42	M16	90	55
SK40 HYD16 090	16	42	M16	90	55
SK40 HYD18 090	18	50	M16	90	55
SK40 HYD25 090	25	65	M16	90	55



CAT (ANSI B5.50) TAPER

HYDRAULIC CHUCK / HOLDERS

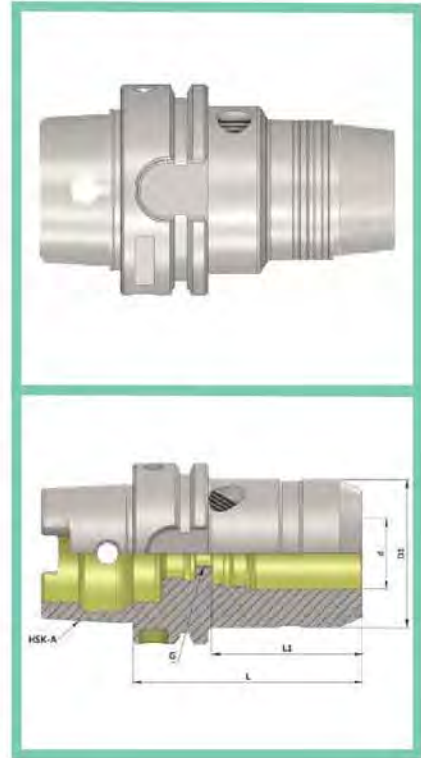
ITEM NUMBER	d	D1	D2	G	L	L1	L2
CAT40 HYD06 -101.60	6	26	44.5	M5	101.6	37	32.5
CAT40 HYD08 -101.60	8	28	44.5	M6	101.6	37	35.5
CAT40 HYD10 -101.60	10	30	44.5	M8	101.6	41	41.5
CAT40 HYD12 -101.60	12	32	44.5	M10	101.6	46	41.5
CAT40 HYD14 -101.60	14	34	44.5	M10	101.6	46	49.5
CAT40 HYD16 -101.60	16	38	44.5	M12	101.6	49	49.5
CAT40 HYD18 -101.60	18	40	44.5	M12	101.6	49	49.5
CAT40 HYD20 -101.60	20	42	44.5	M16	101.6	51	49.5
CAT40 HYD25 -101.60	25	55	65	M16	101.6	57	66
CAT40 HYD32 -101.60	32	63	80	M16	101.6	61	56
CAT40 HYD1/4" -101.60	1/4"	26	44.5	M5	101.6	37	32.5
CAT40 HYD3/8" -101.60	3/8"	30	44.5	M8	101.6	41	41.5
CAT40 HYD1/2" -101.60	1/2"	32	44.5	M10	101.6	46	41.5
CAT40 HYD5/8" -101.60	5/8"	38	44.5	M12	101.6	49	49.5
CAT40 HYD3/4" -101.60	3/4"	42	44.5	M16	101.6	51	49.5
CAT40 HYD1.0" -101.60	1"	55	61	M16	101.6	57	66.5
CAT40 HYD1-1/4" -101.64	1-1/4"	61	61	M16	101.6	61	-
CAT50 HYD06 - 101.60	6	26	69.85	M5	101.6	37	32.5
CAT50 HYD08- 101.60	8	28	69.85	M6	101.6	37	36
CAT50 HYD1 0 - 101.60	10	30	69.85	M8	101.6	41	36
CAT50 HYD12 - 101.60	12	32	69.85	M10	101.6	46	41.5
CAT50 HYD14 - 101.60	14	34	69.85	M10	101.6	46	41.5
CAT50 HYD16 - 101.60	16	38	69.85	M12	101.6	49	47.5
CAT50 HYD18 - 101.60	18	40	69.85	M12	101.6	49	47.5
CAT50 HYD20 - 101.60	20	42	69.85	M16	101.6	51	49.5
CAT50 HYD25 - 101.60	25	57	69.85	M16	101.6	57	49.5
CAT50 HYD32 - 101.60	32	64	69.85	M16	101.6	61	65
CAT50 HYD1/4"- 101.60	1/4"	26	69.85	M5	101.6	37	32.5
CAT50 HYD3/8" - 101.60	3/8"	30	69.85	M8	101.6	41	36
CAT50 HYD1/2" - 101.60	1/2"	32	69.85	M10	101.6	46	41.5
CAT50 HYD5/8" - 101.60	5/8"	38	69.85	M12	101.6	49	47.5
CAT50 HYD3/5" - 101.60	3/5"	42	69.85	M16	101.6	51	49.5
CAT50 HYD1.0" - 101.60	1"	57	69.85	M16	101.6	57	49.5
CAT50 HYD1-1/4" - 101.60	1-1/4"	64	69.85	M16	101.6	61	65



HSK-A DIN69893-1

HYDRAULIC CHUCK / HOLDERS

ITEM NUMBER	d	D1	G	L	L1
HSK-A 50 HYD12 085	12	42	M10	85	40
HSK-A 50 HYD20 090	20	50	M16	90	42
HSK-A 63 HYD12 080	12	42	M10	80	40
HSK-A 63 HYD20 080	20	50	M16	80	42
HSK-A 63 HYD32 110	32	72	M16	110	55
HSK-A 100 HYD12 095	12	42	M10	95	40
HSK-A 100 HYD20 090	20	50	M16	90	42
HSK-A 100 HYD32 110	32	72	M16	110	55
HSK-A 63 HYD6 090	6	42	M16	90	55
HSK-A 63 HYD8 090	8	42	M16	90	55
HSK-A 63 HYD10 090	10	42	M16	90	55
HSK-A 63 HYD14 090	14	42	M16	90	55
HSK-A 63 HYD16 090	16	42	M16	90	55
HSK-A 63 HYD18 090	18	50	M16	90	55
HSK-A 63 HYD25 090	25	65	M16	90	55



SK(SUPER) COLLET HOLDERS



FEATURES:

- | | | | |
|-----------|---|-----------|--|
| 01 | Balanced to 25000 RPM at G2.5 | 06 | High precision pilot holes |
| 02 | Accuracy: 3 Micron or 0.0001" TIR or better | 07 | Hardness: HRC 56-58 |
| 03 | AT3 Class Taper Accuracy | 08 | Carbon depth: 0.8mm +-0.2mm |
| 04 | H5 bore tolerance for optimum contact with cutting tool | 09 | Surface Roughness: Ra<0.005mm |
| 05 | Narrow body design accesses tight spots | 10 | Crafted from case hardened alloy steel |

BT TAPER – MAS-403 – DIN228

SK (SUPER) COLLET HOLDERS



ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
BT30-SK06-60	0.9-6.0	60	20	19.5	21	35	SK6
BT30-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
BT30-SK10-60	1.75-10.0	60	28	27.5	30	50	SK10
BT30-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
BT30-SK13-60	2.75-13.0	60	33	33	31	65	SK13
BT30-SK13-90	2.75-13.0	90	33	33	31	65	SK13
BT30-SK16-60	2.75-16.0	60	40	40	45	60	SK16
BT30-SK16-90	2.75-16.0	90	40	40	45	60	SK16
BT30-SK20-60	4.0-20.0	60	48.5	48.5	65	75	SK20
BT30-SK20-90	4.0-20.0	90	48.5	48.5	65	75	SK20
BT30-SK25-90	16.0-25.4	90	55	55	55	75	SK25
BT40-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
BT40-SK06-120	0.9-6.0	120	20	19.5	21	35	SK6
BT40-SK06-150	0.9-6.0	150	20	19.5	21	35	SK6
BT40-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
BT40-SK10-120	1.75-10.0	120	28	27.5	30	50	SK10
BT40-SK10-150	1.75-10.0	150	28	27.5	30	50	SK10
BT40-SK13-90	2.75-13.0	90	33	33	31	65	SK13
BT40-SK13-120	2.75-13.0	120	33	33	31	65	SK13
BT40-SK13-150	2.75-13.0	150	33	40	31	65	SK13
BT40-SK16-90	2.75-16.0	90	40	40	45	70	SK16
BT40-SK16-120	2.75-16.0	120	40	40	45	70	SK16
BT40-SK16-150	2.75-16.0	150	40	40	45	70	SK16
BT40-SK20-90	4.0-20.0	90	48.5	48.5	47	80	SK20
BT40-SK20-120	4.0-20.0	120	48.5	48.5	47	80	SK20
BT40-SK20-150	4.0-20.0	150	48.5	48.5	47	80	SK20
BT40-SK25-90	16.0-25.4	90	55	55	55	85	SK25
BT40-SK25-120	16.0-25.4	120	55	55	55	85	SK25
BT40-SK25-150	16.0-25.4	150	55	55	55	85	SK25

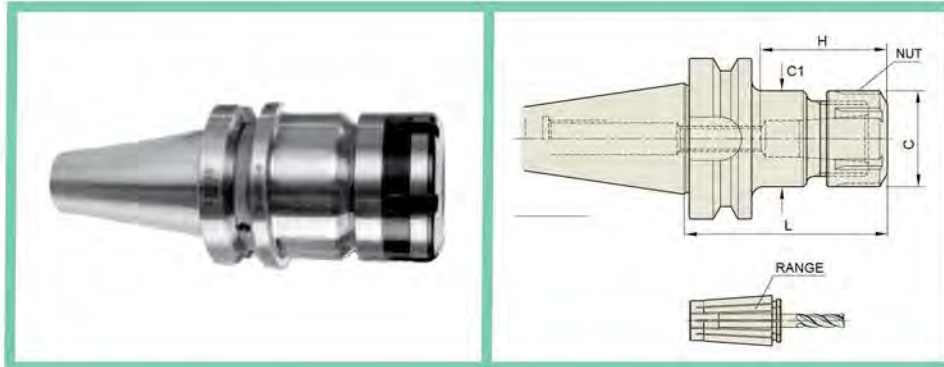
BT TAPER – MAS-403 – DIN228

SK (SUPER) COLLET HOLDERS

ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
BT50-SK06-105	0.9-6.0	105	20	19.5	21	35	SK6
BT50-SK06-135	0.9-6.0	135	20	19.5	21	35	SK6
BT50-SK06-165	0.9-6.0	165	20	32.5	21	35	SK6
BT50-SK06-195	0.9-6.0	195	20	32.5	21	35	SK6
BT50-SK10-105	1.75-10.0	105	28	27.5	30	50	SK10
BT50-SK10-135	1.75-10.0	135	28	27.5	30	50	SK10
BT50-SK10-165	1.75-10.0	165	28	37.4	30	50	SK10
BT50-SK10-195	1.75-10.0	195	28	37.4	30	50	SK10
BT50-SK13-105	2.75-13.0	105	33	33	31	65	SK13
BT50-SK13-135	2.75-13.0	135	33	33	31	65	SK13
BT50-SK13-165	2.75-13.0	165	33	45	31	65	SK13
BT50-SK13-195	2.75-13.0	195	33	45	31	65	SK13
BT50-SK16-105	2.75-16.0	105	40	40	45	70	SK16
BT50-SK16-135	2.75-16.0	135	40	40	45	70	SK16
BT50-SK16-165	2.75-16.0	165	40	40	45	70	SK16
BT50-SK16-195	2.75-16.0	195	40	40	45	70	SK16
BT50-SK20-105	4.0-20.0	105	48.5	48.5	47	80	SK20
BT50-SK20-135	4.0-20.0	135	48.5	48.5	47	80	SK20
BT50-SK20-165	4.0-20.0	165	48.5	48.5	47	80	SK20
BT50-SK20-195	4.0-20.0	195	48.5	48.5	47	80	SK20
BT50-SK25-105	16.0-25.4	105	55	55	55	85	SK25
BT50-SK25-135	16.0-25.4	135	55	55	55	85	SK25
BT50-SK25-165	16.0-25.4	165	55	55	55	85	SK25
BT50-SK25-195	16.0-25.4	195	55	55	55	85	SK25

SK DIN 69871 TAPER

SK (SUPER) COLLET HOLDERS



ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
SK30-SK06-60	0.9-6.0	60	20	19.5	21	35	SK6
SK30-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
SK30-SK10-60	1.75-10.0	60	28	27.5	30	50	SK10
SK30-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
SK30-SK13-60	2.75-13.0	60	33	33	31	65	SK13
SK30-SK13-90	2.75-13.0	90	33	33	31	65	SK13
SK30-SK16-60	2.75-16.0	60	40	40	45	60	SK16
SK30-SK16-90	2.75-16.0	90	40	40	45	60	SK16
SK30-SK20-60	4.0-20.0	60	48.5	48.5	65	75	SK20
SK30-SK20-90	4.0-20.0	90	48.5	48.5	65	75	SK20
SK30-SK25-90	16.0-25.4	90	55	55	55	75	SK25
SK40-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
SK40-SK06-120	0.9-6.0	120	20	19.5	21	35	SK6
SK40-SK06-150	0.9-6.0	150	20	19.5	21	35	SK6
SK40-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
SK40-SK10-120	1.75-10.0	120	28	27.5	30	50	SK10
SK40-SK10-150	1.75-10.0	150	28	27.5	30	50	SK10
SK40-SK13-90	2.75-13.0	90	33	33	31	65	SK13
SK40-SK13-120	2.75-13.0	120	33	33	31	65	SK13
SK40-SK13-150	2.75-13.0	150	33	40	31	65	SK13
SK40-SK16-90	2.75-16.0	90	40	40	45	70	SK16
SK40-SK16-120	2.75-16.0	120	40	40	45	70	SK16
SK40-SK16-150	2.75-16.0	150	40	40	45	70	SK16
SK40-SK20-90	4.0-20.0	90	48.5	48.5	47	80	SK20
SK40-SK20-120	4.0-20.0	120	48.5	48.5	47	80	SK20
SK40-SK20-150	4.0-20.0	150	48.5	48.5	47	80	SK20
SK40-SK25-90	16.0-25.4	90	55	55	55	85	SK25
SK40-SK25-120	16.0-25.4	120	55	55	55	85	SK25
SK40-SK25-150v	16.0-25.4	150	55	55	55	85	SK25

SK DIN 69871 TAPER

SK (SUPER) COLLET HOLDERS

ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
SK50-SK06-105	0.9-6.0	105	20	19.5	21	35	SK6
SK50-SK06-135	0.9-6.0	135	20	19.5	21	35	SK6
SK50-SK06-165	0.9-6.0	165	20	32.5	21	35	SK6
SK50-SK06-195	0.9-6.0	195	20	32.5	21	35	SK6
SK50-SK10-105	1.75-10.0	105	28	27.5	30	50	SK10
SK50-SK10-135	1.75-10.0	135	28	27.5	30	50	SK10
SK50-SK10-165	1.75-10.0	165	28	37.4	30	50	SK10
SK50-SK10-195	1.75-10.0	195	28	37.4	30	50	SK10
SK50-SK13-105	2.75-13.0	105	33	33	31	65	SK13
SK50-SK13-135	2.75-13.0	135	33	33	31	65	SK13
SK50-SK13-165	2.75-13.0	165	33	45	31	65	SK13
SK50-SK13-195	2.75-13.0	195	33	45	31	65	SK13
SK50-SK16-105	2.75-16.0	105	40	40	45	70	SK16
SK50-SK16-135	2.75-16.0	135	40	40	45	70	SK16
SK50-SK16-165	2.75-16.0	165	40	40	45	70	SK16
SK50-SK16-195	2.75-16.0	195	40	40	45	70	SK16
SK50-SK20-105	4.0-20.0	105	48.5	48.5	47	80	SK20
SK50-SK20-135	4.0-20.0	135	48.5	48.5	47	80	SK20
SK50-SK20-165	4.0-20.0	165	48.5	48.5	47	80	SK20
SK50-SK20-195	4.0-20.0	195	48.5	48.5	47	80	SK20
SK50-SK25-105	16.0-25.4	105	55	55	55	85	SK25
SK50-SK25-135	16.0-25.4	135	55	55	55	85	SK25
SK50-SK25-165	16.0-25.4	165	55	55	55	85	SK25
SK50-SK25-195	16.0-25.4	195	55	55	55	85	SK25

OZ-HOLDERS

-DIN6388



FEATURES:

01

Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5

02

Accuracy: 5 Micron or 0.0002" TIR or better

03

AT3 Class Taper Accuracy

04

Carbon depth: 0.8mm
+-0.2mm

05

Crafted from case
hardened alloy steel

06

H5 bore tolerance for optimum
surface contact with cutting tool

07

Hardness:
HRC 56-58

08

High precision pilot holes

09

Surface Roughness:
Ra<0.005mm

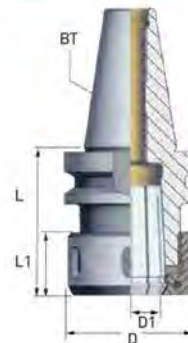
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Through-tool coolant
feature is standard

BT TAPER - MAS-403/ OZ-HOLDERS

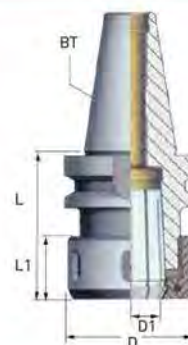
BT TAPER - MAS-403

ITEM NUMBER	D2	L	D	L1	COLLETS
BT40-OZ25-80	3-25	80	60	30	OZ25
BT40-OZ25-120	3-25	120	60	30	OZ25
BT40-OZ32-80	6-32	80	72	33	OZ32
BT40-OZ32-150	6-32	150	72	33	OZ32
BT50-OZ25-90	3-25	90	60	30	OZ25
BT50-OZ25-130	3-25	130	60	30	OZ25
BT50-OZ32-105	6-32	105	72	33	OZ32
BT50-OZ32-150	6-32	150	72	33	OZ32



SK- DIN 69871 -TAPER

ITEM NUMBER	D2	L	D	L1	COLLETS
SK40-OZ25-80	3-25	80	60	30	OZ25
SK40-OZ25-120	3-25	120	60	30	OZ25
SK40-OZ32-80	6-32	80	72	33	OZ32
SK40-OZ32-150	6-32	150	72	33	OZ32
SK50-OZ25-90	3-25	90	60	30	OZ25
SK50-OZ25-130	3-25	130	60	30	OZ25
SK50-OZ32-105	6-32	105	72	33	OZ32
SK50-OZ32-150	6-32	150	72	33	OZ32



SHRINK-FIT HOLDERS



FEATURES:

01

Balanced 25000 RPM
at G2.5

02

Accuracy: 3 Micron or
0.0001" TIR or better

03

AT3 Class Taper Accuracy

04

High precision pilot holes

05

Surface Roughness:
 $Ra < 0.005\text{mm}$

06

Crafted from case
hardened alloy steel

07

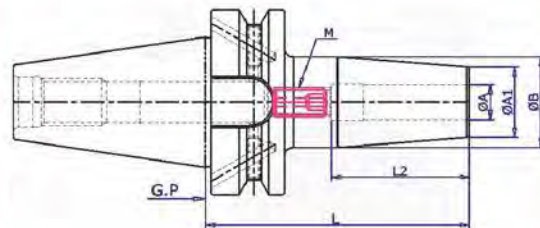
Best suitable for Drilling,
Reaming & Milling operations

08

Coolant through capable

BT TAPER – MAS-403

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
BT40 SFA06 090 AD+B	BT 40	6	21	27	90	36	MS
BT40 SFA06 120 AD+B	BT40	6	21	27	120	36	MS
BT40 SFA06 160 AD+B	BT 40	6	21	27	160	36	MS
BT40 SFA08 090 AD+B	BT40	8	21	27	90	36	M6
BT40 SFA08 120 AD+B	BT 40	8	21	27	120	36	M6
BT40 SFA08 160 AD+B	BT 40	8	21	27	160	36	M6
BT40 SFA10 090AD+B	BT 40	10	24	32	90	42	M8
BT40 SFA10 120 AD+B	BT 40	10	24	32	120	42	M8
BT40 SFA10 160AD+B	BT 40	10	24	32	160	42	M8
BT40 SFA12 090 AD+B	BT 40	12	24	32	90	47	M10
BT40 SFA12 120AD+B	BT 40	12	24	32	120	47	M10
BT40 SFA12 160 AD+B	BT40	12	24	32	160	47	M10
BT40 SFA14 090AD+B	BT 40	14	27	34	90	47	M10
BT40 SFA14 120 AD+B	BT 40	14	27	34	120	47	M10
BT40 SFA14 160 AD+B	BT40	14	27	34	160	47	M10
BT40 SFA16 090AD+B	BT 40	16	27	34	90	50	M12
BT40 SFA16 120 AD+B	BT40	16	27	34	120	50	M12
BT40 SFA16 160 AD+B	BT 40	16	27	34	160	50	M12
BT40 SFA18 090AD+B	BT 40	18	33	42	90	50	M12
BT40 SFA18 120AD+B	BT 40	18	33	42	120	50	M12
BT40 SFA18160AD+B	BT40	18	33	42	160	50	M12
BT40 SFA20 090 AD+B	BT 40	20	33	42	90	52	M16
BT40 SFA20 120 AD+B	BT40	20	33	42	120	52	M16
BT40 SFA20 160 AD+B	BT 40	20	33	42	160	52	M16
BT40 SFA25 100 AD+B	BT 40	25	44	53	100	58	M16
BT40 SFA25 120 AD+B	BT40	25	44	53	120	58	M16
BT40 SFA25 160 AD+B	BT40	25	44	53	160	58	M16
BT40 SFA32 100 AD+B	BT40	32	44	53	100	58	M16
BT40 SFA32 120 AD+B	BT 40	32	44	53	120	58	M16
BT40 SFA32 160 AD+B	BT40	32	44	53	160	58	M16

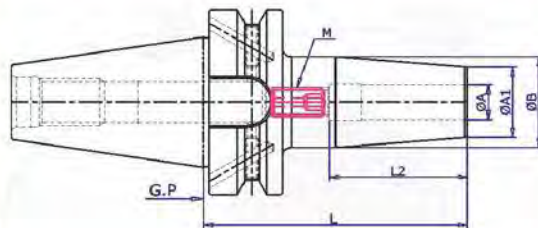
BT TAPER – MAS-403

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
BT50 SFA06 100 AD+B	BT50	6	21	27	100	36	M5
BT50 SFA06 120 AD+B	BT50	6	21	27	120	36	M5
BT50 SFA06 160 AD+B	BT50	6	21	27	160	36	M5
BT50 SFA08 100 AD+B	BT50	8	21	27	100	36	M6
BT50 SFA08 120 AD+B	BT50	8	21	27	120	36	M6
BT50 SFA08 160 AD+B	BT50	8	21	27	160	36	M6
BT50SFA10100AD+B	BT50	10	24	32	100	42	M8
BT50 SFA10 120 AD+B	BT50	10	24	32	120	42	M8
BT50SFA10160AD+B	BT50	10	24	32	160	42	M8
BT50 SFA12100AD+B	BT50	12	24	32	100	47	M10
BT50 SFA12120 AD+B	BT50	12	24	32	120	47	M10
BT50 SFA12160AD+B	BT50	12	24	32	160	47	M10
BT50 SFA14100AD+B	BT50	14	27	34	100	47	M10
BT50 SFA14120AD+B	BT50	14	27	34	120	47	M10
BT50 SFA14160AD+B	BT50	14	27	34	160	47	M10
BT50 SFA16100AD+B	BT50	16	27	34	100	50	M12
BT50 SFA16120AD+B	BT50	16	27	34	120	50	M12
BT50 SFA16160AD+B	BT50	16	27	34	160	50	M12
BT50 SFA18100AD+B	BT50	18	33	42	100	50	M12
BT50 SFA18 120 AD+B	BT50	18	33	42	120	50	M12
BT50 SFA18160AD+B	BT50	18	33	42	160	50	M12
BT50 SFA20 100 AD+B	BT50	20	33	42	100	52	M16
BT50 SFA20 120 AD+B	BT50	20	33	42	120	52	M16
BT50 SFA20 160 AD+B	BT50	20	33	42	160	52	M16
BT50 SFA25 110 AD+B	BT50	25	44	53	110	58	M16
BT50 SFA25 120 AD+B	BT50	25	44	53	120	58	M16
BT50 SFA25 160 AD+B	BT50	25	44	53	160	58	M16
BT50 SFA32 110 AD+B	BT50	32	44	53	110	58	M16
BT50 SFA32 120 AD+B	BT50	32	44	53	120	58	M16
BT50 SFA32 160 AD+B	BT50	32	44	53	160	58	M16

SK DIN 69871 TAPER

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
SK40 SFA06 090 AD+B	SK 40	6	21	27	90	36	MS
SK40 SFA06 120 AD+B	SK40	6	21	27	120	36	MS
SK40 SFA06 160 AD+B	SK 40	6	21	27	160	36	MS
SK40 SFA08 090 AD+B	SK40	8	21	27	90	36	M6
SK40 SFA08 120 AD+B	SK 40	8	21	27	120	36	M6
SK40 SFA08 160 AD+B	SK 40	8	21	27	160	36	M6
SK40 SFA10 090AD+B	SK 40	10	24	32	90	42	M8
SK40 SFA10 120 AD+B	SK 40	10	24	32	120	42	M8
SK40 SFA10 160AD+B	SK 40	10	24	32	160	42	M8
SK40 SFA12 090 AD+B	SK 40	12	24	32	90	47	M10
SK40 SFA12 120AD+B	SK 40	12	24	32	120	47	M10
SK40 SFA12 160 AD+B	SK40	12	24	32	160	47	M10
SK40 SFA14 090AD+B	SK 40	14	27	34	90	47	M10
SK40 SFA14 120 AD+B	SK 40	14	27	34	120	47	M10
SK40 SFA14 160 AD+B	SK40	14	27	34	160	47	M10
SK40 SFA16 090AD+B	SK 40	16	27	34	90	50	M12
SK40 SFA16 120 AD+B	SK40	16	27	34	120	50	M12
SK40 SFA16 160 AD+B	SK 40	16	27	34	160	50	M12
SK40 SFA18 090AD+B	SK 40	18	33	42	90	50	M12
SK40 SFA18 120AD+B	SK 40	18	33	42	120	50	M12
SK40 SFA18160AD+B	SK40	18	33	42	160	50	M12
SK40 SFA20 090 AD+B	SK 40	20	33	42	90	52	M16
SK40 SFA20 120 AD+B	SK40	20	33	42	120	52	M16
SK40 SFA20 160 AD+B	SK 40	20	33	42	160	52	M16
SK40 SFA25 100 AD+B	SK 40	25	44	53	100	58	M16
SK40 SFA25 120 AD+B	SK40	25	44	53	120	58	M16
SK40 SFA25 160 AD+B	SK40	25	44	53	160	58	M16
SK40 SFA32 100 AD+B	SK40	32	44	53	100	58	M16
SK40 SFA32 120 AD+B	SK 40	32	44	53	120	58	M16
SK40 SFA32 160 AD+B	SK40	32	44	53	160	58	M16

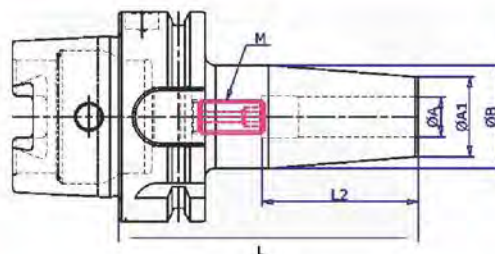
SK DIN 69871 TAPER

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
SK50 SFA06 100 AD+B	SK50	6	21	27	100	36	M5
SK50 SFA06 120 AD+B	SK50	6	21	27	120	36	M5
SK50 SFA06 160 AD+B	SK50	6	21	27	160	36	M5
SK50 SFA08 100 AD+B	SK50	8	21	27	100	36	M6
SK50 SFA08 120 AD+B	SK50	8	21	27	120	36	M6
SK50 SFA08 160 AD+B	SK50	8	21	27	160	36	M6
SK50 SFA10100AD+B	SK50	10	24	32	100	42	M8
SK50 SFA10 120 AD+B	SK50	10	24	32	120	42	M8
SK50 SFA10160AD+B	SK50	10	24	32	160	42	M8
SK50 SFA12100AD+B	SK50	12	24	32	100	47	M10
SK50 SFA12120 AD+B	SK50	12	24	32	120	47	M10
SK50 SFA12160AD+B	SK50	12	24	32	160	47	M10
SK50 SFA14100AD+B	SK50	14	27	34	100	47	M10
SK50 SFA14120AD+B	SK50	14	27	34	120	47	M10
SK50 SFA14160AD+B	SK50	14	27	34	160	47	M10
SK50 SFA16100AD+B	SK50	16	27	34	100	50	M12
SK50 SFA16120AD+B	SK50	16	27	34	120	50	M12
SK50 SFA16160AD+B	SK50	16	27	34	160	50	M12
SK50 SFA18100AD+B	SK50	18	33	42	100	50	M12
SK50 SFA18 120 AD+B	SK50	18	33	42	120	50	M12
SK50 SFA18160AD+B	SK50	18	33	42	160	50	M12
SK50 SFA20 100 AD+B	SK50	20	33	42	100	52	M16
SK50 SFA20 120 AD+B	SK50	20	33	42	120	52	M16
SK50 SFA20 160 AD+B	SK50	20	33	42	160	52	M16
SK50 SFA25 110 AD+B	SK50	25	44	53	110	58	M16
SK50 SFA25 120 AD+B	SK50	25	44	53	120	58	M16
SK50 SFA25 160 AD+B	SK50	25	44	53	160	58	M16
SK50 SFA32 110 AD+B	SK50	32	44	53	110	58	M16
SK50 SFA32 120 AD+B	SK50	32	44	53	120	58	M16
SK50 SFA32 160 AD+B	SK50	32	44	53	160	58	M16

HSK-A DIN69893-1

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A50 SFA06 080	HSK-A50	6	21	27	80	36	M5
HSK-A50 SFA06 120	HSK-A50	6	21	27	120	36	M5
HSK-A50 SFA06 160	HSK-A50	6	21	27	160	36	M5
HSK-A50 SFA08 080	HSK-A50	8	21	27	80	36	M6
HSK-A50 SFA08 120	HSK-A50	8	21	27	120	36	M6
HSK-A50 SFA08 160	HSK-A50	8	21	27	160	36	M6
HSK-A50 SFA10 085	HSK-A50	10	24	32	85	42	M8
HSK-A50 SFA10 120	HSK-A50	10	24	32	120	42	M8
HSK-A50 SFA10 160	HSK-A50	10	24	32	160	42	M8
HSK-A50 SFA12 090	HSK-A50	12	24	32	90	47	M10
HSK-A50 SFA12 120	HSK-A50	12	24	32	120	47	M10
HSK-A50 SFA12 160	HSK-A50	12	24	32	160	47	M10
HSK-A50 SFA14 090	HSK-A50	14	27	34	90	47	M10
HSK-A50 SFA14 120	HSK-A50	14	27	34	120	47	M10
HSK-A50 SFA14 160	HSK-A50	14	27	34	160	47	M10
HSK-A50 SFA16 095	HSK-A50	16	27	34	95	50	M12
HSK-A50 SFA16 120	HSK-A50	16	27	34	120	50	M12
HSK-A50 SFA16 160	HSK-A50	16	27	34	160	50	M12
HSK-A50 SFA18 095	HSK-A50	18	33	42	95	50	M12
HSK-A50 SFA18 120	HSK-A50	18	33	42	120	50	M12
HSK-A50 SFA18 160	HSK-A50	18	33	42	160	50	M12
HSK-A50 SFA20 100	HSK-A50	20	33	42	100	52	M16
HSK-A50 SFA20 120	HSK-A50	20	33	42	120	52	M16
HSK-A50 SFA20 160	HSK-A50	20	33	42	160	52	M16
HSK-A63 SFA06 080	HSK-A63	6	21	27	80	36	M5
HSK-A63 SFA06 120	HSK-A63	6	21	27	120	36	M5
HSK-A63 SFA06 160	HSK-A63	6	21	27	160	36	M5
HSK-A63 SFA08 080	HSK-A63	8	21	27	80	36	M6
HSK-A63 SFA08 120	HSK-A63	8	21	27	120	36	M6

HSK-A DIN69893-1

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A63 SFA08 160	HSK-A 63	8	21	27	160	36	M6
HSK-A63 SFA10 085	HSK-A63	10	24	32	85	42	M8
HSK-A63 SFA10 120	HSK-A63	10	24	32	120	42	M8
HSK-A63 SFA10 160	HSK-A63	10	24	32	160	42	M8
HSK-A63 SFA12 090	HSK-A63	12	24	32	90	47	M10
HSK-A63 SFA12 120	HSK-A63	12	24	32	120	47	M10
HSK-A63 SFA12 160	HSK-A63	12	24	32	160	47	M10
HSK-A63 SFA14 090	HSK-A63	14	27	34	90	47	M10
HSK-A63 SFA14 120	HSK-A63	14	27	34	120	47	M10
HSK-A63 SFA14 160	HSK-A63	14	27	34	160	47	M10
HSK-A63 SFA16 095	HSK-A63	16	27	34	95	50	M12
HSK-A63 SFA16 120	HSK-A63	16	27	34	120	50	M12
HSK-A63 SFA16 160	HSK-A63	16	27	34	160	50	M12
HSK-A63 SFA18 095	HSK-A63	18	33	42	95	50	M12
HSK-A63 SFA18 120	HSK-A63	18	33	42	120	50	M12
HSK-A63 SFA18 160	HSK-A63	18	33	42	160	50	M12
HSK-A63 SFA20 100	HSK-A63	20	33	42	100	52	M16
HSK-A63 SFA20 120	HSK-A63	20	33	42	120	52	M16
HSK-A63 SFA20 160	HSK-A63	20	33	42	160	52	M16
HSK-A63 SFA25 115	HSK-A63	25	44	53	115	58	M16
HSK-A63 SFA25 120	HSK-A63	25	44	53	120	58	M16
HSK-A63 SFA25 160	HSK-A63	25	44	53	160	58	M16
HSK-A63 SFA32 120	HSK-A63	32	44	53	120	58	M16
HSK-A63 SFA32 160	HSK-A63	32	44	53	160	58	M16
HSK-A100 SFA06 085	HSK-A 100	6	21	27	85	36	MS
HSK-A100 SFA06 120	HSK-A 100	6	21	27	120	36	MS
HSK-A100 SFA06 160	HSK-A 100	6	21	27	160	36	MS
HSK-A100 SFA08 085	HSK-A 100	8	21	27	85	36	M6
HSK-A100 SFA08 120	HSK-A 100	8	21	27	120	36	M6
HSK-A100 SFA08 160	HSK-A 100	8	21	27	160	36	M6
HSK-A100 SFA10 090	HSK-A 100	10	24	32	90	42	M8
HSK-A100 SFA10 120	HSK-A 100	10	24	32	120	42	M8
HSK-A100 SFA10 160	HSK-A 100	10	24	32	160	42	M8
HSK-A100 SFA12 095	HSK-A 100	12	24	32	95	47	M10
HSK-A100 SFA12 120	HSK-A 100	12	24	32	120	47	M10
HSK-A100 SFA12 160	HSK-A 100	12	24	32	160	47	M10
HSK-A100 SFA14 095	HSK-A 100	14	27	34	95	47	M10
HSK-A100 SFA14 120	HSK-A 100	14	27	34	120	47	M10
HSK-A100 SFA14 160	HSK-A 100	14	27	34	160	47	M10

HSK-A DIN69893-1

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A100 SFA16 100	HSK-A 100	16	27	34	100	50	M12
HSK-A100 SFA16 120	HSK-A 100	16	27	34	120	50	M12
HSK-A100 SFA16 160	HSK-A 100	16	27	34	160	50	M12
HSK-A100 SFA18 100	HSK-A 100	18	33	42	100	50	M12
HSK-A100 SFA18 120	HSK-A 100	18	33	42	120	50	M12
HSK-A100 SFA18 160	HSK-A 100	18	33	42	160	50	M12
HSK-A100 SFA20 105	HSK-A 100	20	33	42	105	52	M16
HSK-A100 SFA20 120	HSK-A 100	20	33	42	120	52	M16
HSK-A100 SFA20 160	HSK-A 100	20	33	42	160	52	M16
HSK-A100 SFA25 115	HSK-A 100	25	44	53	115	58	M16
HSK-A100 SFA25 120	HSK-A 100	25	44	53	120	58	M16
HSK-A100 SFA25 160	HSK-A 100	25	44	53	160	58	M16
HSK-A100 SFA32 120	HSK-A 100	32	44	53	120	58	M16
HSK-A100 SFA32 160	HSK-A 100	32	44	53	160	58	M16

INTEGRAL SHANK DRILL CHUCK

-APU DRILL CHUCKS



FEATURES:

01

Integral Shank

02

AT3 Class Taper
Accuracy

03

High precision
pilot holes

05

Surface Roughness:
 $Ra < 0.005\text{mm}$

06

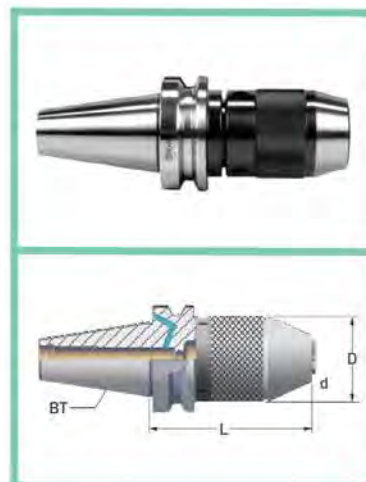
Crafted from case
hardened alloy steel

INTEGRAL SHANK DRILL CHUCK

-APU DRILL CHUCK

BT TAPER - MAS-403

ITEM NUMBER	d	D	L
BT30-APU08-80	1-8	37	80
BT30-APU13-120	1-13	50	120
BT30-APU16-120	3-16	57	120
BT40-APU08-75	1-8	37	75
BT40-APU13-100	1-13	50	100
BT40-APU16-105	3-16	57	105
BT50-APU08-75	1-8	37	75
BT50-APU13-100	1-8	50	100
BT50-APU16-105	3-16	57	105



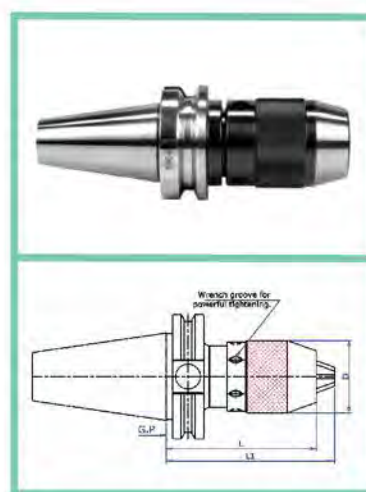
SK DIN 69871 TAPER

ITEM NUMBER	d	D	L
SK30-APU08-80	1-8	37	80
SK30-APU13-120	1-13	50	120
SK30-APU16-120	3-16	57	120
SK40-APU08-75	1-8	37	75
SK40-APU13-100	1-13	50	100
SK40-APU16-105	3-16	57	105
SK50-APU08-75	1-8	37	75
SK50-APU13-100	1-8	50	100
SK50-APU16-105	3-16	57	105



CAT(ANSI B 5.50)TAPER

ITEM NUMBER	TOOL	D	L	L1
CAT40-APU13-4.0"	CAT-40	1.969"	4.0"	4.5"
CAT50-APU13-4.0"	CAT-50	1.969"	4.0"	4.5"



QUICK CHANGE TAPPING HOLDERS



FEATURES:

01

AT3 Class Taper Accuracy

02

Quick Change system

03

H5 bore tolerance for optimum contact with cutting tool

04

Narrow body design accesses tight spots

05

High precision pilot holes

06

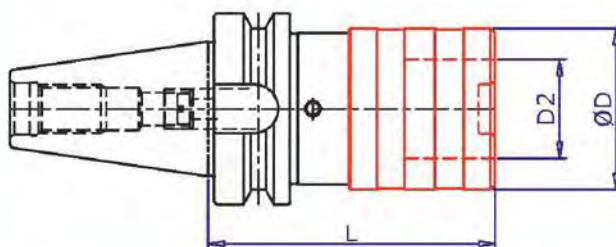
Hardness: HRC 56-58

07

Prevent broken taps

BT TAPER – MAS-403

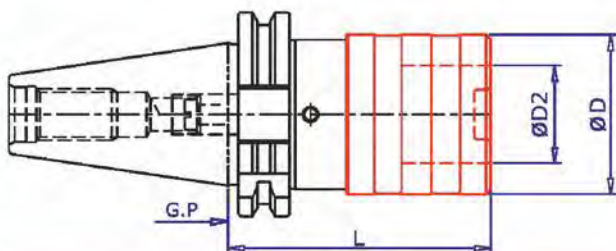
QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	FOR TAP SIZE	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	D2	BT 30 L	BT 40 L	BT 50 L
			COMPRES	EXPAN					
QCFLK1/BT	M3-M12	WE1 /WES1	7.50	7.50	36	19	64.0	19	19
QCFLK2/BT	M8-M20	WE2 /WES2	12.50	12.50	53	31	—	31	31
QCFLK3/BT	M14-M33	WE3 /WES3	20.00	20.00	78	48	—	48	48
QCFLK4/BT	M22-M48	WE4 /WES4	22.50	22.50	96	60	—	60	60

SK DIN 69871 TAPER

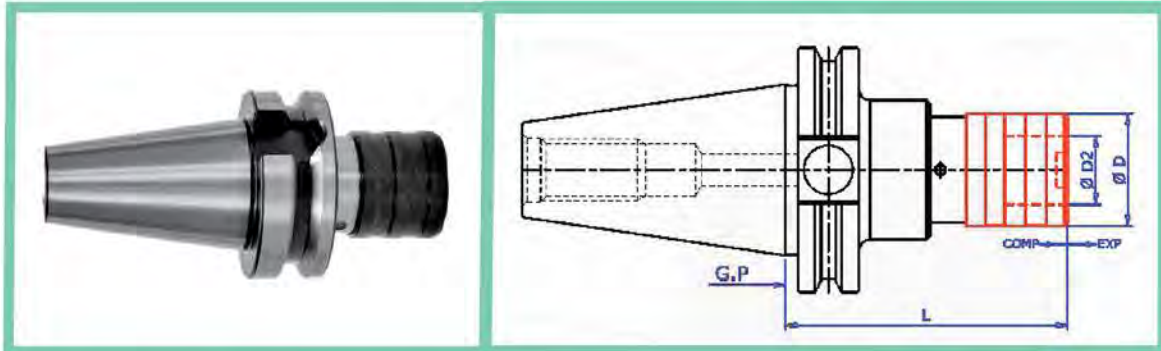
QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	FOR TAP SIZE	SUITABLE ADAPTORS	LENGTH COMPENS		ØD Dia	D2 Dia	SK 30 L	SK 40 L	SK 50 L
			COMPRES	EXPAN					
QCFLK1/SK	M3-M12	WE1 /WES1	7.50	7.50	36	19	64.0	19	19
QCFLK2/SK	M8-M20	WE2 /WES2	12.50	12.50	53	31	—	31	31
QCFLK3/SK	M14-M33	WE3 /WES3	20.00	20.00	78	48	—	48	48
QCFLK4/SK	M22-M48	WE4 /WES4	22.50	22.50	96	60	—	60	60

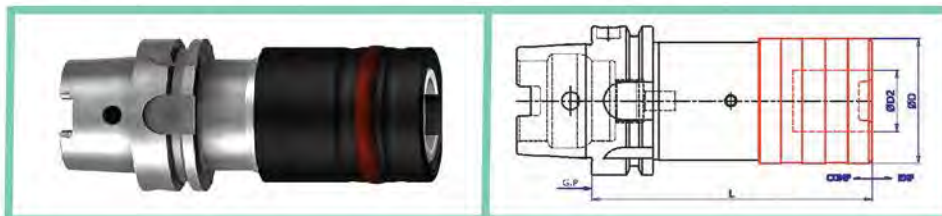
CAT (ANSI B5.50) TAPER

QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	TOOL SHANK	QUICK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	ØD2	L
				COMPRES	EXPAN			
CAT40 QCFLK1 076	CAT-40	M3-M12	WE1 /WES1	7.5	7.5	36	19	76
CAT40 QCFLK2 100	CAT-40	M8-M20	WE2 /WES2	12.5	12.5	53	31	100
CAT40 QCFLK3 150	CAT-40	M14-M33	WE3 /WES3	20	20	78	48	150
CAT50 QCFLK1 076	CAT-50	M3-M12	WE1 /WES1	7.5	7.5	36	19	76
CAT50 QCFLK2 100	CAT-50	M8-M20	WE2 /WES2	12.5	12.5	53	31	100
CAT50 QCFLK3 140	CAT-50	M14-M33	WE3 /WES3	20	20	78	48	140
CAT50 QCFLK4 152	CAT-50	M22-M48	WE4 /WES4	22.5	22.5	96	60	152

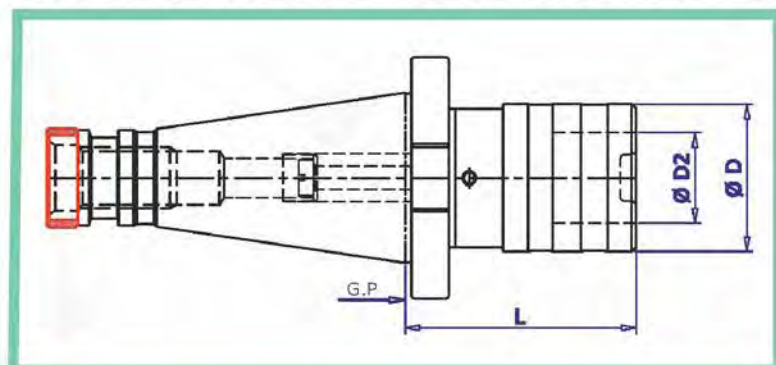
HSK-A DIN69893-1



HSK TYPE	CAPACITY	SUITABLE ADAPTORS	D2	D	L	LENGTH COMPENS [MM]	
						COMPRES	EXPAN
HSK A-50 QCFLK1	M3 TO M12	WE1 /WES1	19	36	76	7.5	7.5
HSK A-50 QCFLK2	M5 TO M20	WE2 /WES2	31	53	123	12.5	12.5
HSK A-63 QCFLK1	M3 TO M12	WE1 /WES1	19	36	81	7.5	7.5
HSK A-63 QCFLK2	M5 TO M20	WE2 /WES2	31	53	119	12.5	12.5
HSK A-63 QCFLK3	M14 TO M33	WE3 /WES3	48	78	176	20.0	20.0
HSK A-100 QCFLK1	M3 TO M12	WE1 /WES1	19	36	90	7.5	7.5
HSK A-100 QCFLK2	M5 TO M20	WE2 /WES2	31	53	138	12.5	12.5
HSK A-100 QCFLK3	M14 TO M33	WE3 /WES3	48	78	190	20.0	20.0
HSK A-100 QCFLK4	M22 TO M48	WE4 /WES4	60	96	225	22.5	22.5

ISODIN 2080 TAPER

QUICK CHANGE TAPPING HOLDERS

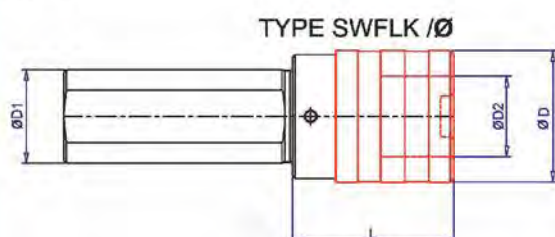


ITEM NUMBER	CHUCK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	ØD2	ISO 30 L	ISO 40 L	ISO 50 L
			COMPRES	EXPAN					
QCFLK 1/ ISO #	M3-M12	WE1 /WES1	7.5	7.5	36	19	59	50	59
QCFLK 2/ ISO #	M8-M20	WE2 /WES2	12.5	12.5	53	31	97	78	80
QCFLK 3/ ISO #	M14-M33	WE3 /WES3	20.0	20.0	78	48	-	143	130
QCFLK 1/ ISO #	M3-M12	WE1 /WES1	7.5	7.5	36	19	-	150-500	150-500
QCFLK 2/ ISO #	M8-M20	WE2 /WES2	12.5	12.5	53	31	-	150-500	150-500
QCFLK 3/ ISO #	M14-M33	WE3 /WES3	20	20	78	48	-	200-500	200-500

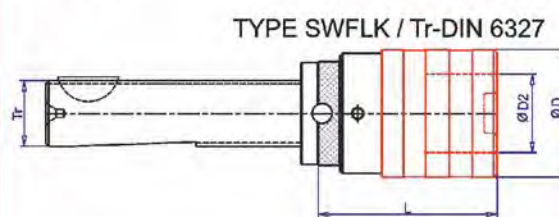
STRAIGHT SHANK & MT SHANK

QUICK CHANGE TAPPING HOLDERS

DIA #1



DIA #2



ITEM NUMBER	CHUCK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	ØD1	ØD2	L
			COMPRES	EXPAN				
QCFLK1/ DIA #1	M3-M12	WES1 / WE1	7.50	7.50	36	20 / 25 / 32 / 40 / 3/4 " / 1"	19	40
QCFLK2/ DIA #1	M8-M20	WES2 / WE2	12.50	12.50	53	25 / 32 / 40 / 1"	31	63
QCFLK3/ DIA #1	M14-M33	WES3 / WE3	20.00	20.00	78	32 / 40 / 1-1/2"	48	125
QCFLK1/ DIA #2	M3-M12	WE1 / WES1	7.50	7.50	36	20 / 25 / 32	19	40
QCFLK2/ DIA #2	M8-M20	WE2 / WES2	12.50	12.50	53	25 / 32 / 40	31	63
QCFLK3/ DIA #2	M14-M33	WE3 / WES3	20.00	20.00	78	32 / 40	48	125
QCFLK4/ DIA #2	M22-M48	WE4 / WES4	22.50	22.50	96	40 / 50	60	126

ER-STRAIGHT

SHANK
HOLDER/BABY
COLLETCHUCK



FEATURES:

01

Accuracy - 3
micron

03

Available with flat
on shank

02

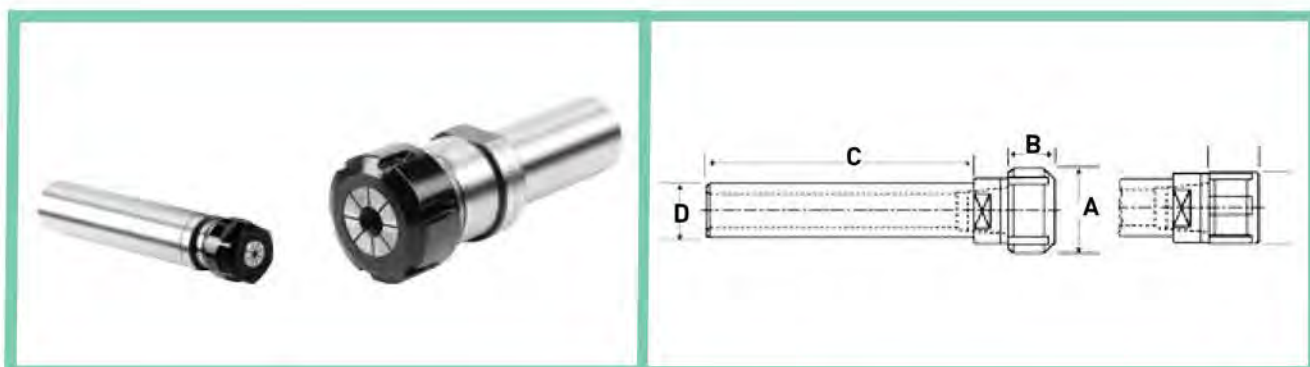
Available in Hex,
Mini & Spanner
type nuts

04

Metric & Inch
sizes available

ER STRAIGHT SHANK – MM SIZES

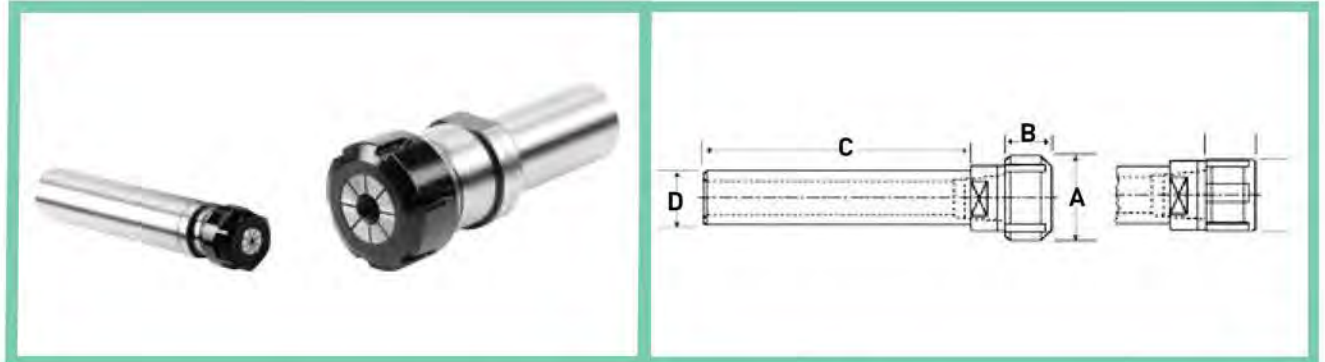
ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS



PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT TYPE
C10-ER8M-100	ER8	10	100	12	MINI
C12-ER11M-100	ER11	12	100	16	MINI
C16-ER11M-100	ER11	16	100	16	MINI
C16-ER11H-50	ER11	16	50	19	HEX
C16-ER11H-100	ER11	16	100	19	HEX
C16-ER16M-100	ER16	16	100	22	MINI
C20-ER16M-100	ER16	20	100	22	MINI
C16-ER16H-100	ER16	16	100	28	HEX
C16-ER16H-150	ER16	16	150	28	HEX
C20-ER16H-50	ER16	20	50	28	HEX
C20-ER16H-100	ER16	20	100	28	HEX
C20-ER16H-150	ER16	20	150	28	HEX
C25-ER16H-100	ER16	25	100	28	HEX
C25-ER16H-150	ER16	25	150	28	HEX
C20-ER20M-100	ER20	20	100	28	MINI
C20-ER20H-50	ER20	20	50	34	HEX
C20-ER20H-100	ER20	20	100	34	HEX
C25-ER20H-100	ER20	25	100	34	HEX
C25-ER20H-150	ER20	25	150	34	HEX
C20-ER25S-50	ER25	20	50	42	SPANNER
C20-ER25S-100	ER25	20	100	42	SPANNER
C25-ER25S-100	ER25	25	100	42	SPANNER
C25-ER25S-150	ER25	25	150	42	SPANNER
C32-ER25S-100	ER25	32	100	42	SPANNER
C25-ER32S-100	ER32	25	100	50	SPANNER
C32-ER32S-100	ER32	32	100	50	SPANNER
C32-ER32S-150	ER32	32	150	50	SPANNER
C40-ER32S-100	ER32	40	100	50	SPANNER
C32-ER40S-100	ER40	32	100	63	SPANNER
C40-ER40S-100	ER40	40	100	63	SPANNER

ER STRAIGHT SHANK-INCH SIZES

ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS



PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT LENGTH B	NUT TYPE	SHANK TYPE
S-E08R05-37N-R	ER08	0.500	3.70	0.48	0.44	Mini	Round
S-E11R05-30N-R	ER11	0.500	3.00	0.63	0.44	Mini	Round
S-E11R05-60N-R	ER11	0.500	6.00	0.63	0.44	Mini	Round
S-E11R05-62H-R	ER11	0.500	6.20	0.75	0.44	Hex	Round
S-E11R06-20N-R	ER11	0.625	2.00	0.63	0.44	Mini	Round
S-E11R06-30N-R	ER11	0.625	3.00	0.63	0.44	Mini	Round
S-E11R06-60N-R	ER11	0.625	6.00	0.63	0.44	Mini	Round
S-E11R06-62H-R	ER11	0.625	6.20	0.75	0.44	Hex	Round
S-E16R05-60N-R	ER16	0.500	6.00	0.87	0.67	Mini	Round
S-E16R06-30N-R	ER16	0.625	3.00	0.87	0.67	Mini	Round
S-E16R06-37H-R	ER16	0.625	3.76	1.10	0.67	Hex	Round
S-E16R06-60N-R	ER16	0.625	6.00	0.87	0.67	Mini	Round
S-E16R07-20H-R	ER16	0.750	2.00	1.10	0.67	Hex	Round
S-E16R07-25H-R	ER16	0.750	2.50	1.10	0.67	Hex	Round
S-E16R07-30N-R	ER16	0.750	3.00	0.87	0.67	Mini	Round
S-E16R07-36H-R	ER16	0.750	3.65	1.10	0.67	Hex	Round
S-E16R07-40H-R	ER16	0.750	4.00	1.10	0.67	Hex	Round
S-E16R07-52N-R	ER16	0.750	5.28	0.87	0.67	Mini	Round
S-E16R07-60H-R	ER16	0.750	6.00	1.10	0.67	Hex	Round
S-E16R07-74N-R	ER16	0.750	7.44	0.87	0.67	Mini	Round
S-E16R10-25H-R	ER16	1.000	2.50	1.10	0.67	Hex	Round
S-E16R10-40H-R	ER16	1.000	4.00	1.10	0.67	Hex	Round
S-E16R10-60H-R	ER16	1.000	6.00	1.10	0.67	Hex	Round
S-E20R07-25H-R	ER20	0.750	2.50	1.34	0.75	Hex	Round
S-E20R07-40N-R	ER20	0.750	4.00	1.10	0.75	Mini	Round
S-E20R07-40H-R	ER20	0.750	4.00	1.34	0.75	Hex	Round
S-E20R07-60H-R	ER20	0.750	6.00	1.34	0.75	Hex	Round
S-E20R10-25H-R	ER20	1.000	2.50	1.34	0.75	Hex	Round
S-E20R10-40H-R	ER20	1.000	4.00	1.34	0.75	Hex	Round
S-E20R10-52N-R	ER20	1.000	5.20	1.10	0.75	Mini	Round
S-E20R10-55N-R	ER20	1.000	5.50	1.10	0.75	Mini	Round

ER-STRAIGHT SHANK-INCH SIZES

ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS

PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT LENGTH B	NUT TYPE	SHANK TYPE
S-E20R10-60H-R	ER20	1.000	6.00	1.34	0.75	Hex	Round
S-E25R05-40S-R	ER25	0.500	4.00	1.65	0.79	Spanner	Round
S-E25R07-25S-R	ER25	0.750	2.50	1.65	0.79	Spanner	Round
S-E25R07-40S-R	ER25	0.750	4.00	1.65	0.79	Spanner	Round
S-E25R07-60S-R	ER25	0.750	6.00	1.65	0.79	Spanner	Round
S-E25R10-25S-R	ER25	1.000	2.50	1.65	0.79	Spanner	Round
S-E25R10-40N-R	ER25	1.000	4.00	1.38	0.79	Mini	Round
S-E25R10-40S-R	ER25	1.000	4.00	1.65	0.79	Spanner	Round
S-E25R10-60S-R	ER25	1.000	6.00	1.65	0.79	Spanner	Round
S-E32R10-20S-R	ER 32	1.000	2.00	1.97	0.87	Spanner	Round
S-E32R10-25S-R	ER 32	1.000	2.50	1.97	0.87	Spanner	Round
S-E32R10-40S-R	ER 32	1.000	4.00	1.97	0.87	Spanner	Round
S-E32R10-60S-R	ER 32	1.000	6.00	1.97	0.87	Spanner	Round
S-E32R12-20S-R	ER 32	1.250	2.00	1.97	0.87	Spanner	Round
S-E32R12-25S-R	ER 32	1.250	2.50	1.97	0.87	Spanner	Round
S-E32R12-40S-R	ER 32	1.250	4.00	1.97	0.87	Spanner	Round
S-E32R12-60S-R	ER 32	1.250	6.00	1.97	0.87	Spanner	Round
S-E40R10-25S-R	ER 40	1.000	2.50	2.48	0.98	Spanner	Round
S-E40R10-40S-R	ER 40	1.000	4.00	2.48	0.98	Spanner	Round
S-E40R10-60S-R	ER 40	1.000	6.00	2.48	0.98	Spanner	Round
S-E40R12-25S-R	ER 40	1.250	2.50	2.48	0.98	Spanner	Round
S-E40R12-40S-R	ER 40	1.250	4.00	2.48	0.98	Spanner	Round
S-E40R12-60S-R	ER 40	1.250	6.00	2.48	0.98	Spanner	Round

ER-DOUBLE ENDED STRAIGHT SHANKS

ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS

Technical drawing of a double-flute drill bit. The drawing shows a side view of the bit with various dimensions labeled. The dimensions include:

- ϕD : Outer diameter at the top.
- ϕd : Diameter of the central flute.
- L : Total length of the bit.
- L_{Ref} : Reference length.
- L_{Flut} : Length of the flute.
- ϕD_0 : Diameter at the base.
- ϕd_0 : Diameter of the central flute at the base.

TOOL HOLDER BLANKS / BORING BAR BLANKS



FEATURES:

- 01** Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5
- 02** Accuracy: 3 Micron or 0.0002" TIR or better
- 03** AT3 Class Taper Accuracy
- 04** H5 bore tolerance for optimum surface contact with cutting tool
- 05** High precision pilot holes
- 06** Hardness: HRC 56-58
- 07** Carbon depth: 0.8mm +/-0.2mm
- 08** Surface Roughness: Ra<0.005mm
- 09** Crafted from case hardened alloy steel

TOOL HOLDER BLANKS / BORING BAR BLANKS

FULL VARIETY AVAILABLE
BT, SK, CAT & HSK TAPER

ITEM NUMBER	DIAMETER	LENGTH
BT30 Taper		
BT40 Taper		
BT50 Taper		
SK30 Taper		
SK40 Taper	AS PER CUSTOMER REQUIREMENT.	
SK50 Taper		
CAT30 Taper		
CAT40 Taper	FULL RANGE AVAILABLE	
CAT50 Taper		
HSK50A Taper		
HSK63A Taper		
HSK100A Taper		



04 CONTENTS

- PULL STUDS / RETENTION KNOBS
- COLLET NUTS
- WRENCHES / SPANNERS
- TOOL LOCKING DEVICE
- SPINDLE WIPERS
- CNC TURRET SLEEVES/
CNC LATHE BUSHINGS



OTHER MACHINE TOOL ACCESSORIES



—QUALITY
ASSURANCE
—COST EFFECTIVE

PULL STUDS / RETENTION KNOBS



FEATURES:

01

Precision Ground Pull Studs

02

Manufactured to the highest standard

03

Individually inspected for highest quality

04

Harden for maximum longevity

05

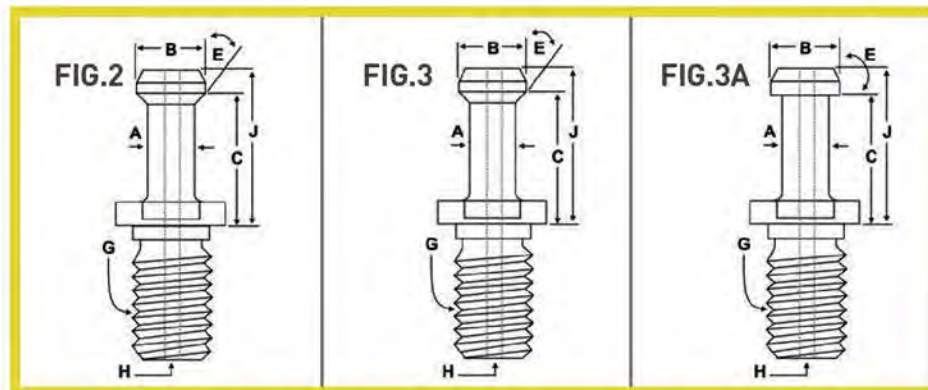
Magnetic Particle Crack test is available

06

Tensile and shear requirements per ISO, DIN and JIS standard

PULL STUDS

RETENTION KNOBS



BT30-M12-1.75 THREADS-MAS 403 Style or JIS/JMTBA style

NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
P30T II 60°-Pilot	3	0.433 (11mm)	0.276 (7mm)	45°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	BT30-4500S
P30T III 90°-Pilot				45°				BT30-4500H
Pilot				60°				BT30-6000S
Chiron No Pilot	3A	0.472 (12mm)	0.315 (8mm)	90°	0.724 (18.4mm)	0.921 (23.4mm)	0.200 (5.1mm)	BT30-9000S
	3			75°				BT30-7500H
	2			45°	0.630 (16mm)	0.787 (20mm)	-	BT30-3002TRK

BT35-M12-1.75 THREADS-MAS 403 Style or JIS/JMTBA style

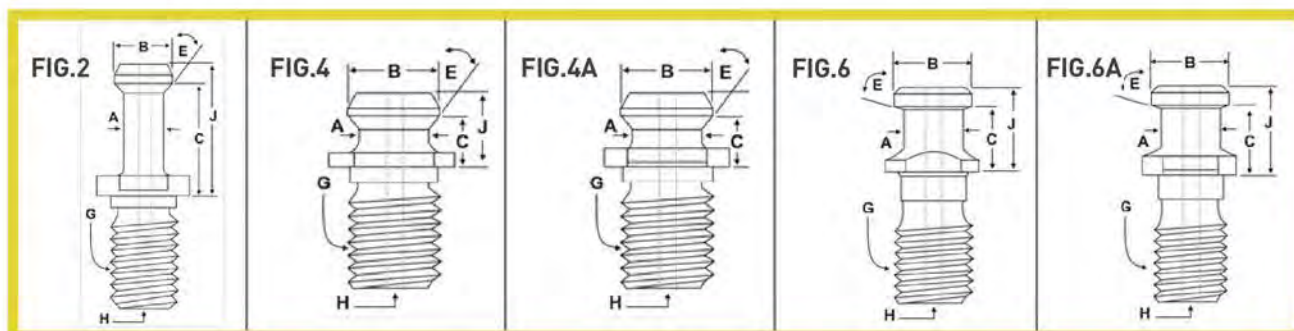
NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
Pilot	3	0.540 (13.7 mm)	0.348 (8.8mm)	45°	0.880 (22.4mm)	1.102 (28mm)	0.157 (4mm)	BT35-4500S
Pilot	3			60°			0.192 (4.9mm)	BT35-6000S
Pilot	3A	0.550 (14 mm)	0.310 (7.9mm)	90°	0.788 (20mm)	0.900 (22.9mm)	0.19	BT35-9000S
Pilot	3A						0.2	

BT40-M16-2.00 THREADS-MAS 403 Style or JIS/JMTBA style

NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
Pilot	2	0.59 [15mm]	0.394 [10mm]		0.989 (25.1mm)	1.265 (32.1mm)	0.242 (6.1mm)	BT40-4502S
P40T I 45°-Pilot	3			45°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	BT40-4500H
P40T I 45°-Pilot	3				0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	BT40-4500S
P40T I 60°-Pilot	3			60°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	BT40-6000H
P40T I 60°-Pilot	3			90°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	BT40-6000S
P40T I 90°-Pilot	3A			75°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	BT40-9000H
P40T I 90°-Pilot	3A			45°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	BT40-9000S

PULL STUDS

RETENTION KNOBS



BT40 - M16-2.00 THREADS

U.S. ANSI STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
ANSI STD-metric-NoPilot	4				0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	BT40-4503H
ANSI STD-metric-NoPilot		0.740 (18.8mm)	0.490 (12.5mm)	45°				BT40-4503S
Pilot=0.669	4A				0.550 (14mm)	0.755 (19.2mm)	0.240 (6.1mm)	BT40-4501H
Pilot=0.669								BT40-4501S

BT40 - M16-2.00 THREADS

ISO TYPE A STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
Pilot	6A						0.275 (7mm)	BT40-7500H
Pilot	6A	0.748 (19mm)	0.551 (14mm)	75°	0.905 (23mm)	1.141 (29mm)	0.275 (7mm)	BT40-7500S
No Pilot	2						-	B30-4020TRK

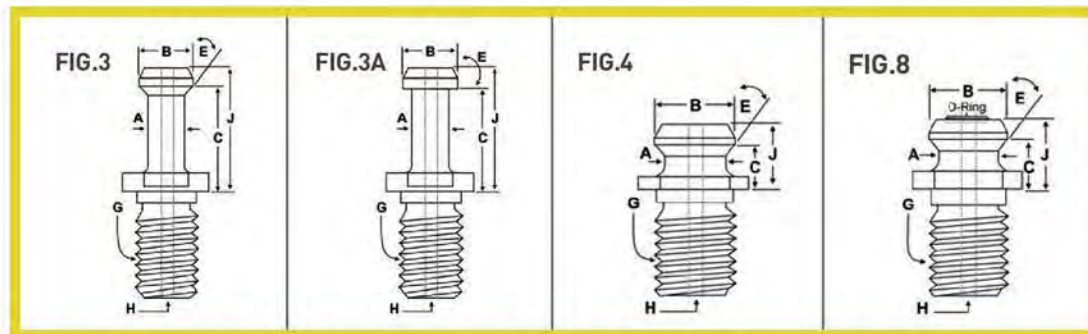
BT40 - M16-2.00 THREADS

DIN 69872 FORM A STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
DIN A Std Pilot								BT40-7501H
DIN A Std No Pilot	6	0.748 (19mm)	0.551 (14mm)	75°	0.787 (20mm)	1.023 (26mm)	0.157 (4mm)	-

PULL STUDS

RETENTION KNOBS



BT45 - M16-2.50 THREADS

MAS 403 STYLE OR JIS/JMTBA STYLE

NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
P45T I 45°-Pilot	3			45°				BT45-4500S
P45T II 60°-Pilot	3	0.748 (19mm)	0.551 (14mm)	60°	1.22 (31mm)	1.574 (40mm)	0.31 (8mm)	BT45-6000S
P45T III 90°-Pilot	3A			90°				BT45-9000S

BT50-M24-3.00 THREADS

MAS 403 STYLE OR JIS/JMTBA STYLE

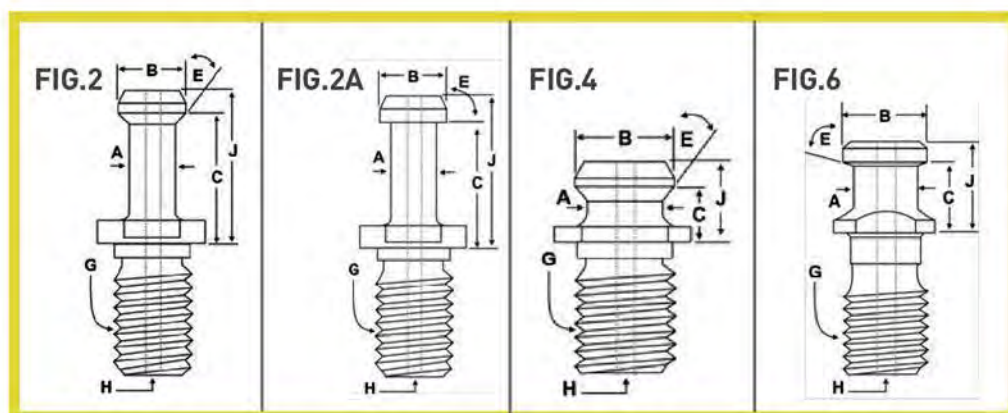
NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
P50T I 45°-Pilot	3			45°				BT50-4500H
P50T I 45°-Pilot	3			45°				BT50-4500S
P50T II 60°-Pilot	3	0.905 (23mm)	0.669 (17mm)	60°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	BT50-6000H
P50T II 60°-Pilot	3			60°				BT50-6000S
P50T III 90°-Pilot	3A			90°				BT50-9000H
P50T III 90°-Pilot	3A			90°				BT50-9000S

BT50-M24-3.00 THREADS - U.S. ANSI STYLE

NOTE	FIG.	HEAD DIA.B	NECK DIA.A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
No Pilot	8						0.200 (5.1mm)	BT40-7500H
Std ANSI- Metric	4	1.140 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.209 (5.3mm)	BT40-7500S
Std ANSI- Metric	4						-	B30-4020TRK

PULL STUDS

RETENTION KNOBS



BT50 - M24-3.00 THREADS

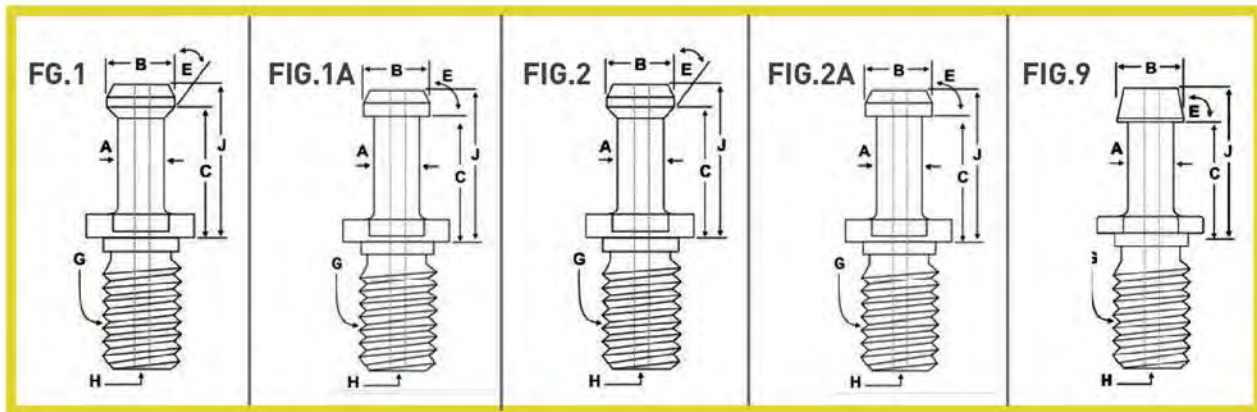
DIN-69872 FORM 'A' STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
No Pilot	6	1.101 [28mm]	0.826 [21mm]	75°	0.984 [25mm]	1.338 [34mm]	-	BT40-7500H
Std ANSI- Metric	6	1.101 [28mm]	0.826 [21mm]	75°	0.984 [25mm]	1.338 [34mm]	-	BT40-7500S
Std ANSI- Metric	2A	0.950 [24.1mm]	-	90°	0.905 [23mm]	1.220 [31mm]	0.2 00 [5.1mm]	B30-4020TRK

CAT30 - 1/2" - 13 THREADS

U.S. ANSI STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
ANSI STD No Pilot	4	0.520 [13.2mm]	0.385 [9.8mm]	45°	0.320 [8.1mm]	0.464 [11.8mm]	0.103 [2.6mm]	CAT30-4500H
ANSI STD No Pilot	4	0.520 [13.2mm]	0.385 [9.8mm]	45°	0.320 [8.1mm]	0.464 [11.8mm]	0.103 [2.6mm]	CAT30-4500S
No Pilot	2	0.393 [10mm]	0.236 [6mm]	45°	0.63 [16mm]	0.787 [20mm]	-	CAT30-CATHI -RONINCATH



CAT40 - 5/8" - 11 THREADS MAS403 STYLE OR JIS/JMTB STYLE

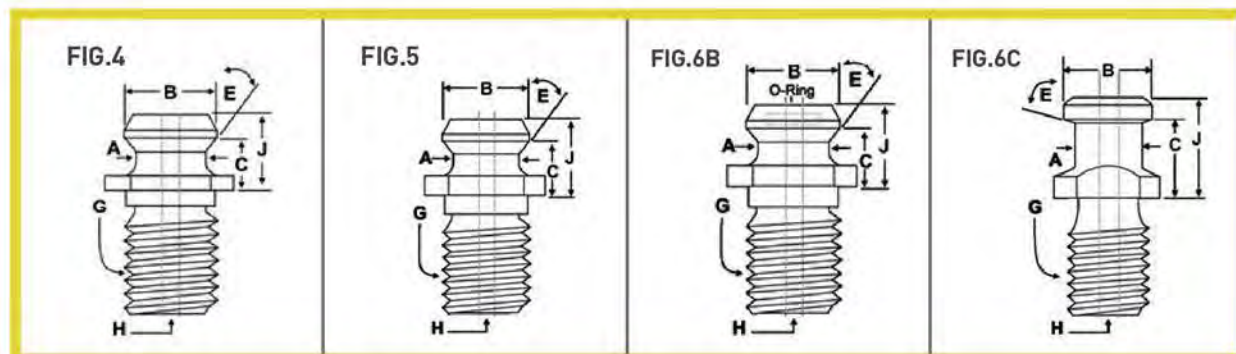
NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
No Pilot	2	0.748 [19mm]	0.551 [14mm]	75°	0.905 [23mm]	1.141 [29mm]	-	CAT40-4010TRK
Thin Flange Pilot	1			45°	0.989 [25.1mm]	1.265 [32.1mm]	0.125 [3.2mm]	CAT40-4502H
Thin Flange Pilot	1			45°	0.989 [25.1mm]	1.265 [32.1mm]	0.125 [3.2mm]	CAT40-4502S
Pilot	2			45°	0.989 [25.1 mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-4501H
Pilot	2			45°	0.989 [25.1 mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-4501S
No Pilot	2			45°	1.000 [25.4mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-4504S
Thin Flange Pilot	1			60°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-6006S
Thin Flange Pilot	1			60°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-6006H
No Pilot	2			60°	0.989 [25.1mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-6000H
Pilot	2	0.589 [15mm]	0.392 [10mm]	60°	0.989 [25.1mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-6000S
Thin Flange Pilot	1A			90°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-9006S
Thin Flange No Pilot	1A			90°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-9006H
Shorter Than other C40	2A			90°	0.708 [18mm]	0.98 [24.9mm]	0.2 00 [5.1mm]	CAT40-MITSUI
Pilot	9			90°	0.775 [19.7mm]	1.051 [26.7mm]	0.200 [5.1mm]	CAT40-9001S
Pilot	2A			90°	0.989 [25.1mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-9000H
Pilot	2A			90°	0.989 [25.1mm]	1.265 [32.1mm]	0.236 [6mm]	CAT40-9000S
Pilot	1	0.594 [15.1mm]	0.405 [10.3mm]	45°	1.139 [28.9mm]	1.436 [36.5mm]	0.187 [4.8mm]	CAT40-4503H
No Pilot	1			45°	1.139 [28.9mm]	1.436 [36.5mm]	0.187 [4.8mm]	CAT40-4503S

CAT40 - 5/8" - 11 THREADS MAS403 STYLE OR JIS/JMTB STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
No Pilot	1	0.590 [15mm]	-	45°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-4500B
No Pilot	-	0.590 [15mm]	-	45°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-HITACHI
No Pilot	1	0.590 [15mm]	-	60°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-6000B
No Pilot	1A	0.590 [15mm]	-	90°	0.992 [25.2mm]	1.259 [32mm]	0.120 [3mm]	CAT40-9000B

PULL STUDS

RETENTION KNOBS



CAT40 - 5/8" - 11 THREADS

U.S. ANSI STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
ANSI STD No Pilot	4							CAT40-4500SG
ANSI STD Pilot	4							CAT40-4500H
ANSI STD Pilot	4	0.740 [18.8mm]	0.490 [12.5mm]	45°	0.440 [11.2mm]	0.640 [16.3mm]	0.120 [3mm]	CAT40-4500S
ANSI PILOT	5							CAT40-4505H
ANSI PILOT	5							CAT40-4505S

CAT40 - 5/8" - 11 THREADS

ISO TYPE A STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
ISO A-Inch No Pilot	6B	0.747 [19mm]	0.551 [14mm]	75°	0.791 [20.1mm]	1.030 [26.2mm]	0.280 [7.1mm]	CAT40-7500H
ISO A-Inch No Pilot	6B							CAT40-7500S

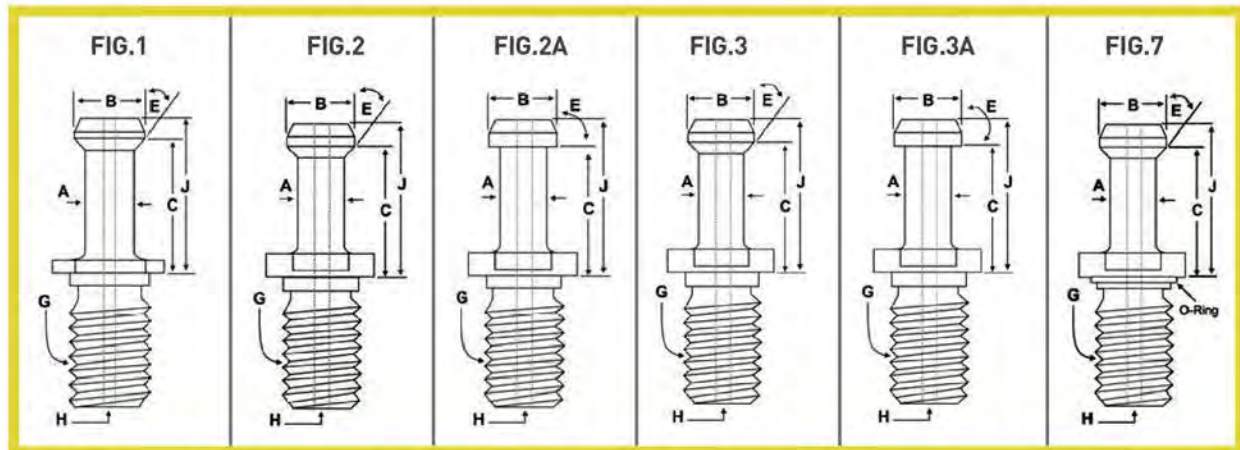
CAT40 - 5/8" - 11 THREADS

DIN 69872 FORM A STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
DIN A Std-Inch No Pilot	6C	0.748 [19mm]	0.551 [14mm]	75°	0.787 [20mm]	1.023 [26mm]	0.157 [4mm]	CAT40-7551H

PULL STUDS

RETENTION KNOBS



CAT45 - 3/4" - 10 THREADS

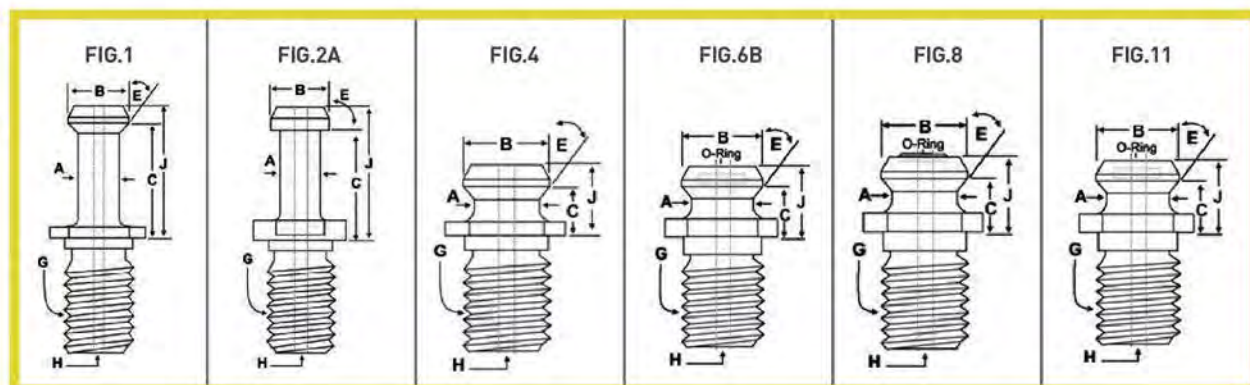
MAS 403 STYLE OR JIS / JMTB STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
No Pilot	2			45°				CAT45-4500S
No Pilot	2	0.750 (19.1mm)	0.551 (14mm)	60°	1.230 (31.3mm)	1.580 (40.1mm)	0.310 (7.88mm)	CAT45-6000S
No Pilot	2A			90°				CAT45-9000S

CAT50 - 1" - 8 THREADS

MAS 403 STYLE OR JIS / JMTB STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
P50T I 45°-Inch No Pilot	1	0.747 (19mm)	0.551 (14mm)	45°	0.787 (20mm)	1.026 (26.1mm)	0.201 (5.1mm)	CAT50-4502H
P50T I 45°-Inch Pilot	3			45°		1.779 (45.2mm)		CAT50-4501H
P50T I 45°-Inch No Pilot	7			45°		1.779 (45.2mm)		CAT50-4501R
P50T I 45°-Inch Pilot	3	0.905 (23mm)	0.669 (17mm)	45°		1.779 (45.2mm)	0.390 (9.9mm)	CAT50-4501S
P50T II 60°-Inch Pilot	3			60°		1.771 (45mm)		CAT50-6000H
P50T II 60°-Inch Pilot	3			60°		1.771 (45mm)		CAT50-6000S
No Pilot	2A	0.910 (23.1mm)	0.667 (16.9mm)	90°	1.385 (35.2mm)	1.779 (45.2mm)	0.690 (17.5mm)	CAT50-MAZAK
P50T III 90°- Inch-Pilot	3A	0.905 (23mm)	0.669 (17mm)	90°		1.771 (45mm)	0.390 (9.9mm)	CAT50-9000H
P50T III 90°- Inch-Pilot	3A			90°		1.771 (45mm)	0.392 (9.96mm)	CAT50-9000S
P50T I 45°-Inch No Pilot	-	0.900 (22.9mm)	-	45°		1.779 (45.2mm)		CAT50-HITACHI
P50T I 45°-Inch Pilot	3		-	45°		1.779 (45.2mm)		CAT50-4500B
P50T II 60°-Inch Pilot	3	0.990 (25.2mm)	-	60°		1.779 (45.2mm)	0.390 (9.91mm)	CAT50-6000B
P50T III 90°- Inch-Pilot	3A		-	90°		1.779 (45.2mm)		CAT50-9000B



CAT 50-1/8"-11 THREADS U.S. ANSI STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
Pilot	11				0.700 (17.8mm)		0.200 (5.08mm)	CAT50-4503R
Integrex, Pilot, Ring	8				0.700 (17.8mm)		0.200 (5.08mm)	CAT50-4506R
Integrex, Pilot, No Ring	8				0.700 (17.8mm)		0.200 (5.08mm)	CAT50-4506H
ANSI STD No Pilot	4	1.140 (29mm)	0.820 (20.8mm)	45°	0.706 (17.9mm)	1.000 (25.4mm)	0.200 (5.1mm)	CAT50-4500H
No Pilot	8				0.706 (17.9mm)		0.200 (5.1mm)	CAT50-4500R
ANSI STD No Pilot	4				0.706 (17.9mm)		0.204 (5.2mm)	CAT50-4500S
No Pilot	4				0.700 (17.8mm)		0.200 (5.1mm)	CAT50-STDB

CAT 50-1/8"-11 THREADS ISO STD. TYPE A STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
ISO Std. A Inch-No Pilot	6B	1.100 (28mm)	0.826 (21mm)	75°	0.992 (25.2mm)	1.350 (34.3mm)	0.280 (7.1mm)	CAT50-7540H

CAT 50-1/8"-11 THREADS DIN 69872 FORM A STYLE

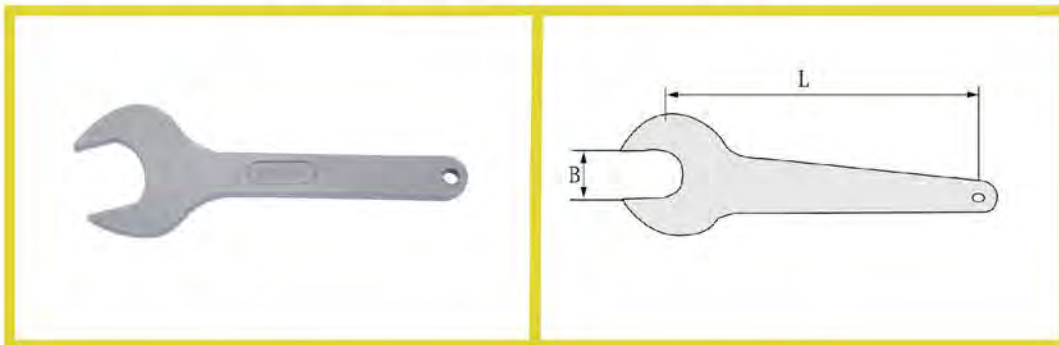
NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
DIN Std. A Inch-Pilot	1	1.100 (28mm)	0.826 (21mm)	75°	0.977 (24.8mm)	1.338 (34.mm)	-	CAT50-7550H

CAT 50-1/8"-11 THREADS MITSUI STYLE

NOTE	FIG.	HEAD DIA. B	NECK DIA. A	ANGLE E°	LENGTH C	LENGTH to HEAD J	FLANGE THICK	PART
MITSUI. No Pilot	1		0.706 (17.9mm)		0.903 (22.9mm)	1.218 (30.9mm)	#N/A	CAT50-MS5034TRK
MITSUI No Pilot	2A	0.940 (23.9mm)	0.708 (18mm)	90°	0.905 (23mm)	1.220 (31mm)	0.200 (5.1mm)	CAT50-MITSUI

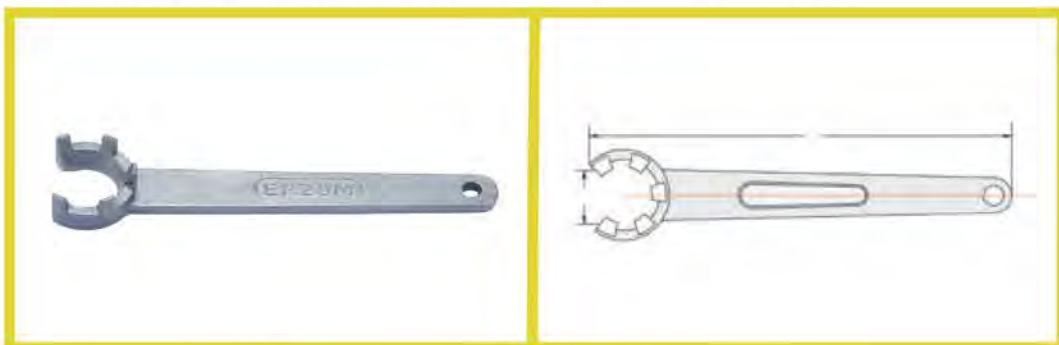
WRENCHES

HEX SPANNER / WRENCH



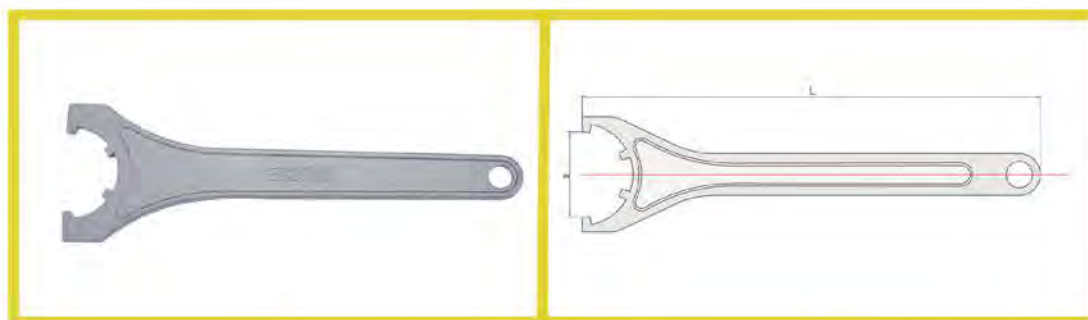
ITEM NUMBER	B	L	CLAMPING NUT
ER11-A	17	110	ER11-A
ER16-A	25	120	ER16-A
ER20-A	30	130	ER20-A

MINI SPANNER / WRENCH



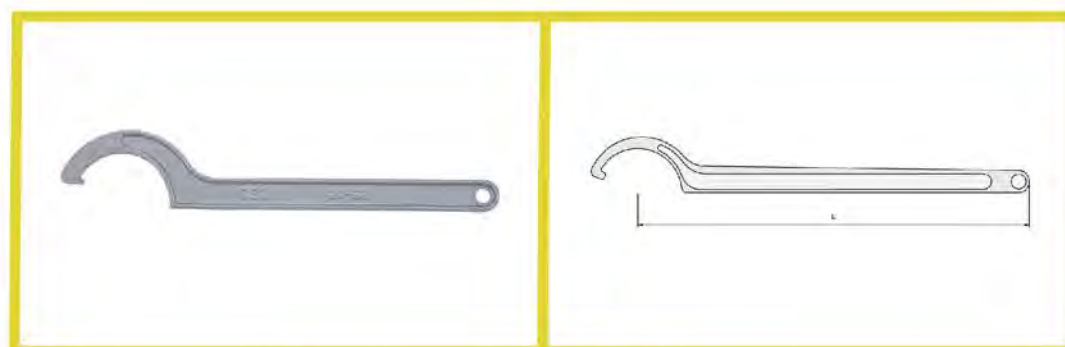
ITEM NUMBER	B	L	CLAMPING NUT
ER8-M	7.5	70	ER8-M
ER11-M	11	90	ER11-M
ER16-M	15	110	ER16-M
ER20-M	19.5	120	ER20-M
ER25-M	25	130	ER25-M

UM-SPANNER WRENCH



ITEM NUMBER	D(mm)	L(mm)	T
ER16-UM	26	180	ER16-UM
ER20-UM	30	190	ER20-UM
ER25-UM	37	210	ER25-UM
ER32-UM	46.5	250	ER32-UM
ER40-UM	58	290	ER40-UM
ER50-UM	74	350	ER50-UM

C-HOOK SPANNER / WRENCH

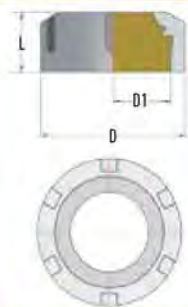


ITEM NUMBER	B	L	CLAMPING NUT
ER25-C	168	38-42	ER25-UM
ER32-C	190	45-52	ER32-UM
ER40-C	210	55-63	ER40-UM
ER50-C	240	78-85	ER50-UM

COLLET NUTS

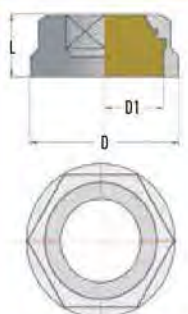
ER SLOTTED UM TYPE NUTS

ITEM NUMBER	D(mm)	D1(mm)	L(mm)	T	WT(kg)
ER16-UM	32	26	17	M22X1.5	0.05
ER20-UM	35	29	19	M25X1.5	0.1
ER25-UM	42	36	20	M32X1.5	0.14
ER32-UM	50	44	22.5	M40X1.5	0.2
ER40-UM	63	57	25.5	M50X1.5	0.3
ER50-UM	78	71	35.5	M64X2	0.5



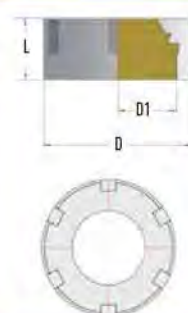
ER HEX NUTS

ITEM NUMBER	D(mm)	D1(mm)	L(mm)	T	WT(kg)
ER11A	19	17	11.3	M14X0.75	0.005
ER16A	28	25	17.5	M22X1.5	0.01
ER20A	34	30	19	M25X1.5	0.05



ER MINI NUTS

ITEM NUMBER	D(mm)	D1(mm)	L(mm)	T	WT(kg)
ER8M	12	10	10	M10X0.75	0.005
ER8M	16	12	12	M13X0.75	0.01
ER16M	22	17.2	18	M19X1	0.05
ER20M	28	22.5	19	M24X1	0.05
ER25M	35	28.6	20	M30X1	0.08



OZ-COLLET NUTS

TYPE NUTS-COLLET NUTS

ITEM NUMBER	D(mm)	D1(mm)	L(mm)
OZ8	26	19	M20X1.5
OZ10	30	19	M22X1.5
OZ12	35	20	M27X1.5
OZ16	43	24	M33X1.5
OZ20	50	28	M42X2
OZ25	60	30	M48X2
OZ32	72	33.5	M60X2.5
OZ40	85	37	M68X2.5
OZ50	100	43	M80X2.5



SK COLLET NUTS

ITEM NUMBER	D(mm)	D1(mm)	L(mm)	T
SK06	18.1	20	15	M15.5X1
SK10	25.4	28	17	M21.5X1
SK16	35	40	24	M32X1.5
SK20	43	48	27	M40X1.5
SK25	50	55	30	M45X1.5



FIX THE DIAGRAM

CNC TURRET SLEEVE / CNC LATHE BUSHING



FEATURES:

01

Ground Finish

02

Inch & Metric both sizes available

04

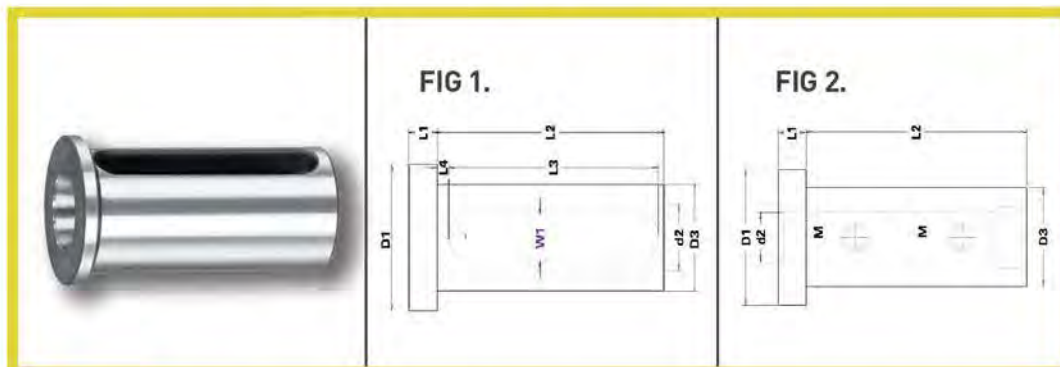
Wrench flats for easy removal

05

Type and size clearly marked on surface of head

CNC TURRET SLEEVE

CNC LATHE BUSING (METRIC SIZES)



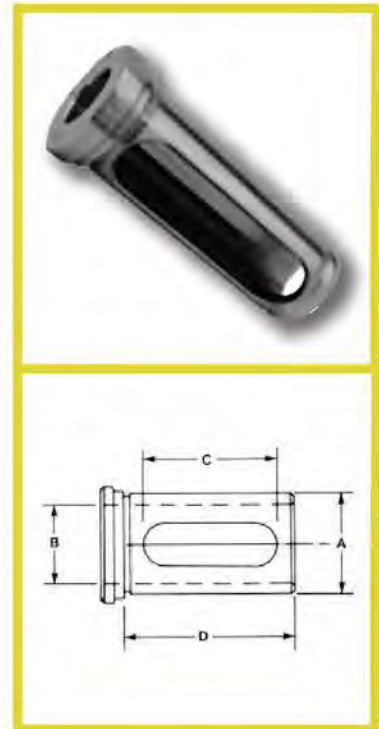
ITEM NUMBER	OD (D3)	ID (D2)	OD (D1)	W1	L1	L2	L3	L4	M THREAD	FIG.
TS-16-8	16	8	22	-	5	40	-	-	M4	F2
TS-16-10	16	10	22	7	5	40	32	3	-	F1
TS-20-8	20	8	26	-	5	50	-	-	M5	F2
TS-20-10	20	10	26	-	5	50	-	-	M5	F2
TS-20-12	20	12	26	9	5	50	42	3	-	F1
TS-25-6	25	6	32	-	5	50	-	-	M5	F2
TS-25-8	25	8	32	-	5	50	-	-	M6	F2
TS-25-10	25	10	32	-	5	50	-	-	M6	F2
TS-25-12	25	12	32	-	5	50	-	-	M6	F2
TS-25-16	25	16	32	10	5	50	42	3	-	F1
TS-32-6	32	6	38	-	5	60	-	-	M5	F2
TS-32-8	32	8	38	-	5	60	-	-	M6	F2
TS-32-10	32	10	38	-	5	60	-	-	M8	F2
TS-32-12	32	12	38	-	5	60	-	-	M8	F2
TS-32-16	32	16	38	10	5	60	52	3	-	F1
TS-32-20	32	20	38	10	5	60	52	3	-	F1
TS-32-25	32	25	38	10	5	60	52	3	-	F1
TS-40-6	40	6	48	-	5	80	-	-	M5	F2
TS-40-8	40	8	48	-	5	80	-	-	M6	F2
TS-40-10	40	10	48	-	5	80	-	-	M8	F2
TS-40-12	40	12	48	-	5	80	-	-	M6	F2
TS-40-16	40	16	48	12	5	80	74	2	-	F1
TS-40-20	40	20	48	12	5	80	74	2	-	F1
TS-40-25	40	25	48	12	5	80	74	2	-	F1
TS-40-32	40	32	48	12	5	80	74	2	-	F1
TS-50-10	50	10	60	-	8	92	-	-	M8	F2
TS-50-12	50	12	60	-	8	92	-	-	M8	F2
TS-50-16	50	16	60	12	8	92	80	4	-	F1
TS-50-20	50	20	60	12	8	92	80	4	-	F1
TS-50-25	50	25	60	12	8	92	80	4	-	F1
TS-50-32	50	32	60	12	8	92	80	4	-	F1
TS-50-40	50	40	60	12	8	92	80	4	-	F1

CNC TURRET SLEEVE

CNC LATHE BUSING (INCH SIZES)

TYPE-C

ITEM NUMBER	OD A	SLOT LENGTH C	LENGTH UNDER HEAD D	ID B
TSC-07-0250	3/4"	1-7/8"	2-1/4"	1/4"
TSC-07-0312				5/16"
TSC-07-0375				3/8"
TSC-07-0500				1/2"
TSC-10-0250	1"	2-3/8"	2-3/4"	1/4"
TSC-10-0312				5/16"
TSC-10-0375				3/8"
TSC-10-0500				1/2"
TSC-10-0625	1-1/4"	2-7/8"	3-1/4"	5/8"
TSC-10-0750				3/4"
TSC-12-0375				3/8"
TSC-12-0500				1/2"
TSC-12-0625	1-1/2"	3"	3-3/8"	5/8"
TSC-12-0750				3/4"
TSC-12-0875				7/8"
TSC-12-0100				1"
TSC-15-0375	1-3/4"	3-1/8"	3-1/2"	3/8"
TSC-15-0500				1/2"
TSC-15-0625				5/8"
TSC-15-0750				3/4"
TSC-15-0875	2"	3-5/8"	4"	7/8"
TSC-15-0100				1"
TSC-15-1250				1-1/4"
TSC-17-0500				1-1/2"
TSC-17-0625	2"	3-5/8"	4"	5/8"
TSC-17-0750				3/4"
TSC-17-0875				7/8"
TSC-17-0100				1"
TSC-17-1250	2"	3-5/8"	4"	1-1/4"
TSC-17-1500				1-1/2"
TSC-20-0500				1-3/4"
TSC-20-0625				1-1/2"
TSC-20-0750	2"	3-5/8"	4"	1-1/4"
TSC-20-0875				1-1/2"
TSC-20-0100				1-3/4"
TSC-20-1250				1-1/2"
TSC-20-1500				1-3/4"
TSC-20-1750				1-3/4"

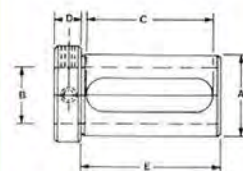


CNC TURRET

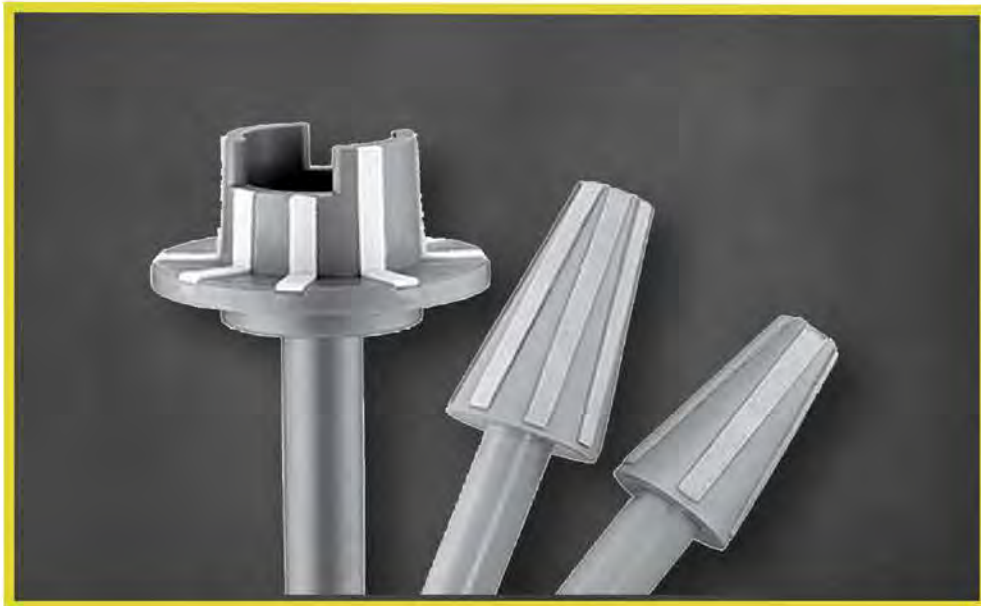
SLEEVE (INCH SIZES)

TYPE-Z

ITEM NUMBER	OD A	SLOT LENGTH C	LENGTH UNDER HEAD D	HEAD THICK D	ID B
TSZ-07-0250	3/4"	1-7/8"	2-1/4"	1/2"	1/4"
TSZ-07-0312					5/16"
TSZ-07-0375					3/8"
TSZ-07-0500					1/2"
TSZ-10-0250	1"	2-5/8"	2-3/4"	1/2"	1/4"
TSZ-10-0312					5/16"
TSZ-10-0375					3/8"
TSZ-10-0500					1/2"
TSZ-10-0625	1-1/4"	2-7/8"	3-1/4"	5/8"	5/8"
TSZ-10-0750					3/4"
TSZ-12-0375					3/8"
TSZ-12-0500					1/2"
TSZ-12-0625	1-1/2"	3"	3-3/8"	3/4"	5/8"
TSZ-12-0750					3/4"
TSZ-12-0875					7/8"
TSZ-12-0100					1"
TSZ-15-0375	1-3/4"	3-1/8"	3-1/2"	3/4"	3/8"
TSZ-15-0500					1/2"
TSZ-15-0625					5/8"
TSZ-15-0750					3/4"
TSZ-15-0875	2"	3-5/8"	4"	3/4"	7/8"
TSZ-15-0100					1"
TSZ-15-1250					1-1/4"
TSZ-17-0500					1/2"
TSZ-17-0625	2"	3-5/8"	4"	3/4"	5/8"
TSZ-17-0750					3/4"
TSZ-17-0875					7/8"
TSZ-17-0100					1"
TSZ-17-1250	2"	3-5/8"	4"	3/4"	1-1/4"
TSZ-17-1500					1-1/2"
TSZ-20-0500					1/2"
TSZ-20-0625					5/8"
TSZ-20-0750	2"	3-5/8"	4"	3/4"	3/4"
TSZ-20-0875					7/8"
TSZ-20-0100					1"
TSZ-20-1250					1-1/4"
TSZ-20-1500	2"	3-5/8"	4"	3/4"	1-1/2"
TSZ-20-1750					1-3/4"



SPINDLE WIPER



FEATURES:

01

Two materials: non-woven fabric and wool. The latter can prevent static electricity when cleaning the spindle taper and has better use life and cleaning effect.

02

Type: #30, #40, #50 and HSK.

TOOL LOCKING DEVICE

-BT,SK,CAT&HSK



ITEM NUMBER	TYPE
BT30-TLD	BT30
BT40-TLD	BT40
BT50-TLD	BT50
SK40-TLD	SK40
SK50-TLD	SK50
CAT40-TLD	CAT40
CAT50-TLD	CAT50
HSK63A-TLD	HSK63A
HSK100A-TLD	HSK100A

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