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**TOOLING & MACHINERY**

**COMPLETE METALWORKING SOLUTIONS**

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# CNC TOOLING SYSTEM CATALOG

High-performance solutions to optimize  
your machine performance

# MACHINE TOOL SOLUTIONS FOR EVERY APPLICATION



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## **KOKORO = HUMAN HEART**

Our company name, "NIKKEN," is derived from our desire to "always maintain the willingness to study patiently on a daily basis and contribute to future industries with technology and ideas."

# INTRODUCTION



## MISSION STATEMENT

Our mission is to provide the best value in machine tool accessories to help our customers become more profitable and promote manufacturing in North America. To Lyndex-Nikken, value means manufacturing quality products at a fair price.

We have built the widest product offering in the industry. As part of our mission, we also make it easy for manufacturers to fill their accessory needs while always focusing on return-on-investment. We achieve this by finding the best people and a fundamental principle of continuous improvement.

In this ever-changing market, our passion is to offer solutions to customer needs versus products. We pledge our unwavering stand on quality over price.



## NIKKEN WORLDWIDE



Lyndex-Nikken is represented by sales personnel and product specialists in 15 countries all around the globe. Wherever you may be, you will always get full support from our representatives. Each overseas sales branch has stocks for tooling and CNC Rotary Tables, and service engineers to look after the maintenance and service operation of our products.

### North and South Americas

- |           |   |                      |
|-----------|---|----------------------|
| 1. USA    | Lyndex-Nikken                           | Tel: (847) 367-4800  |
| 2. Mexico | Herramientas Lyndex-Nikken S.A. de C.V. | Tel: 52-55-8421-8421 |

### Europe and Middle East

- |            |   |                          |
|------------|---|--------------------------|
| 3. UK      | Nikken Kosakusho Europe, Ltd. - Euro Centre         | Tel: 44-(0)1709-366306   |
| 4. Germany | Nikken Deutschland GmbH                             | Tel: 49 731 9663397-0    |
| 5. Italy   | Vega International Tools SRL                        | Tel: 39-011-9497911      |
| 6. France  | Procomo-Nikken S.A.S                                | Tel: 33-(0)1-69 19 17 35 |
| 7. Sweden  | Nikken Scandinavia AB                               | Tel: 46-(0)303-440-600   |
| 8. Spain   | Cutting Tools, S.L.                                 | Tel: 34-902-820090       |
| 9. Turkey  | Nikken Kesici Takimlar San. Veuluslararası Tic A.S. | Tel: 90-(0)216-518-1010  |

### Asia

- |                 |                                      |                         |
|-----------------|--------------------------------------|-------------------------|
| 10. South Korea | Korea Nikken Ltd.                    | Tel: 82-(0)32-763-4461  |
| 11. China       | Shanghai Zhong Yan Trading Co., Ltd. | Tel: 86-(0)21-6210-2506 |
| 12. Singapore   | Nikken Kosakusho Asia PTE. Ltd.      | Tel: 65-6362-7980       |
| 13. Thailand    | Siam Nikken Co., Ltd.                | Tel: 66-(0)2-178-0503   |
| 14. Indonesia   | Pt. Nikken Kosakusho Indonesia       | Tel: 62-811-9980-807    |
| ** Japan        | Nikken Kosakusho Works Ltd.          | Tel: (072)869-5810      |

## NIKKEN ADVANTAGES



Carbonizing and Sub-Zero Treatment

### Nikken Advantages

Nikken high quality brand products have been patented in Japan and in many other countries. Featuring unique features, they are used all over the world and have been proving their efficiency for years and years, providing users with benefits unmatched by the competition.

### Sub Zero Treatment

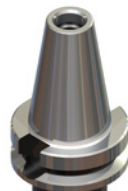
Nikken is the ONLY tool manufacturer that performs a sub-zero treatment to its tooling. All toolholders are subjects to ultra low temperature treatment of  $-90^{\circ}\text{C}$  after carburizing. This treatment removes residual austenite to form 100% martensite compositions to prevent deformation and deterioration over time. This is a good example of how Nikken pays attention to those aspects often hidden from view, and how we put our hearts into each and every tool.

### Taper Contact

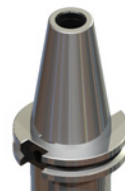
Nikken guarantees 80% of the taper contact ratio. It allows concentricity, run-out accuracy and stable machining, reduces damage to the M/C Spindle and extends tool life. Strong rigidity between machine spindle and toolholder eliminates potential fretting corrosion.

#### Nikken's Taper Characteristics:

- Nickel Chrome 4150 alloy
- AT3 taper or better, 56 to 58 HRC
- Traverse Ground Taper
- Inspected by Prussian Blue oil method



BT Taper-Made to JIS B6339 standard



CT Taper-Made to ANSI/ASE B5.50 standard



HSK Taper-Made to ISO 12164 standard



NMTB Taper-Erickson Qualified



Tool Grinding Line



Horizontal Machining Centers



NC Lathe Line

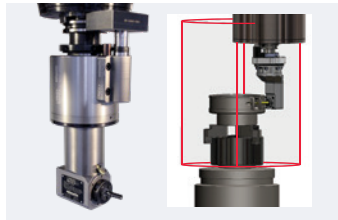


## PRODUCT OVERVIEW



### High Productivity Advanced Toolholders

**Covering All Bases for Your Toolholder Needs.** Most accurate and precise Collet Chucks in the industry (guaranteed runout within .0002"). Nikken Milling Chucks are the strongest clamping Toolholder in the world with over 3500 ft-lbs of gripping force. Greater rigidity and higher accuracy allows for more aggressive material removal and part precision.



### Modular & Fixed Angle Heads

**Approaching Difficult Parts from All Angles.** Offered in multiple styles: slim, rigid, offset, adjustable and coolant through. 452 possible combinations using Lyndex-Nikken's Modular Angle Head system. Clearance and ATC verification done by 3D printed Angle Heads. Full 3D model support upon request.



### Live & Static Tools

**Turning Your Lathe Into a Milling Machine.** We offer both Live and Static Tools for a multitude of machine builders. Dual radial and thrust bearing design for added rigidity. Live and Static tools offered in coolant through, adjustable, and multi-output.



### 4th & 5th Axis Rotary Tables

**Reduced Setups, Increased Productivity, More Profits.** Ion-Nitride Worm Wheel and Carbide Worm Screw design extends longevity of rigidity and accuracy. 4 arc second repeatability for high precision and complex work pieces. Full installation and integration services available by Lyndex-Nikken technicians.



### Presetters & Measuring Equipment

**Rock Solid Precision.** Presetters utilize natural granite for the column and base ensuring the best thermal stability. Coupled with Elbo Controlli Nikken vision systems, our Presetters provides the highest level of repeatability and reproducibility making presetters ideal for most tool measuring and inspecting applications.



### Work Holding

**Chucks and clamping to minimize set-up and changeover times.** 2-jaw, 3-jaw, and specialty chucks offer durability and precision in a workholding solution with low maintenance, high performance, and are capable of clamping workpieces with uneven surfaces and a large range of diameters. Quick Change Flex Collet (QCFC) chucks can be used in a variety of turning center applications including high volume, low mix production shops for bar feeding or robot loading. Zero point clamping system provides process reliability and maximum flexibility.



### Automation

**EZ-Automation line of solutions - NO advanced robotics degree required.** User-friendly CNC machine tending, loading, and work changing for high mix, low volume production seamlessly integrates automation while controlling costs and easing job complexities. Automation of machine tracking and bottleneck analysis increases shop efficiency. Machine shops at any size can thrive with streamlined operations and improved processes to achieve a bottom line that reflects success.

## LYNDEX-NIKKEN SERVICE & SUPPORT

### Management & Operations

Integrity is our highest company goal that is achieved in different ways in each department. In operations, this means “keeping promises”. When a Lyndex-Nikken salesperson commits to do something, we want to make sure it happens! Our management team is willing to put whatever resources are needed to stand behind ALL commitments made to our customers.



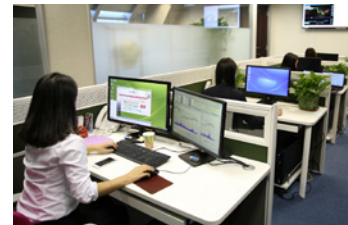
### Outside Sales

The outside sales team is committed to providing you with the highest level of training, product knowledge, and customer service. Whether it's helping you close more deals, increasing your profit margins, or making your job easier, our product managers and sales representatives will do what is needed to make you more successful!



### Inside Sales

Committed to upholding the highest standard in customer service, the inside sales team provides support to qualify, quote and process orders. Working in conjunction with our outside sales team, our goal is to provide the best expedited sales experience with the utmost clarity.



### Engineering & Service

From product drawings to 3D models, clearance verifications to force calculations, the engineering team understands your manufacturing needs. We look forward to providing application support and hope to be a part of your success.



### Warehouse & Shipping

With over 22,000 individual part numbers in our system and nearly \$50 million worth of in-stock inventory, our warehouse team means serious business. 95% of items we carry get shipped out same day on an impressive average of 160 shipments per day!



### Lyndex-Nikken Mexico

Since our opening in 2013, we have been able to extend the same level of quality support to Mexico. One of our biggest tasks is providing services for transplant companies in Mexico from the U.S., Germany, Japan, and Korea. We offer full service of sales, engineering, and application support directly from our office.



# INTRODUCTION

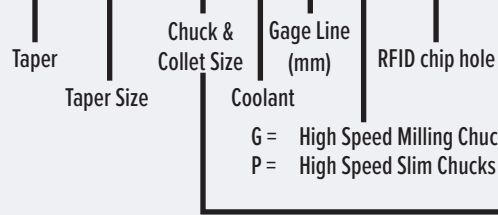


## LYNDEX-NIKKEN PART NUMBERS

We continue to utilize our original part numbering system for standard products (shown below) and have incorporated Nikken's part numbers for their product.

### NIKKEN EXAMPLE:

**NCAT40-SK25C-90UP-IDU**



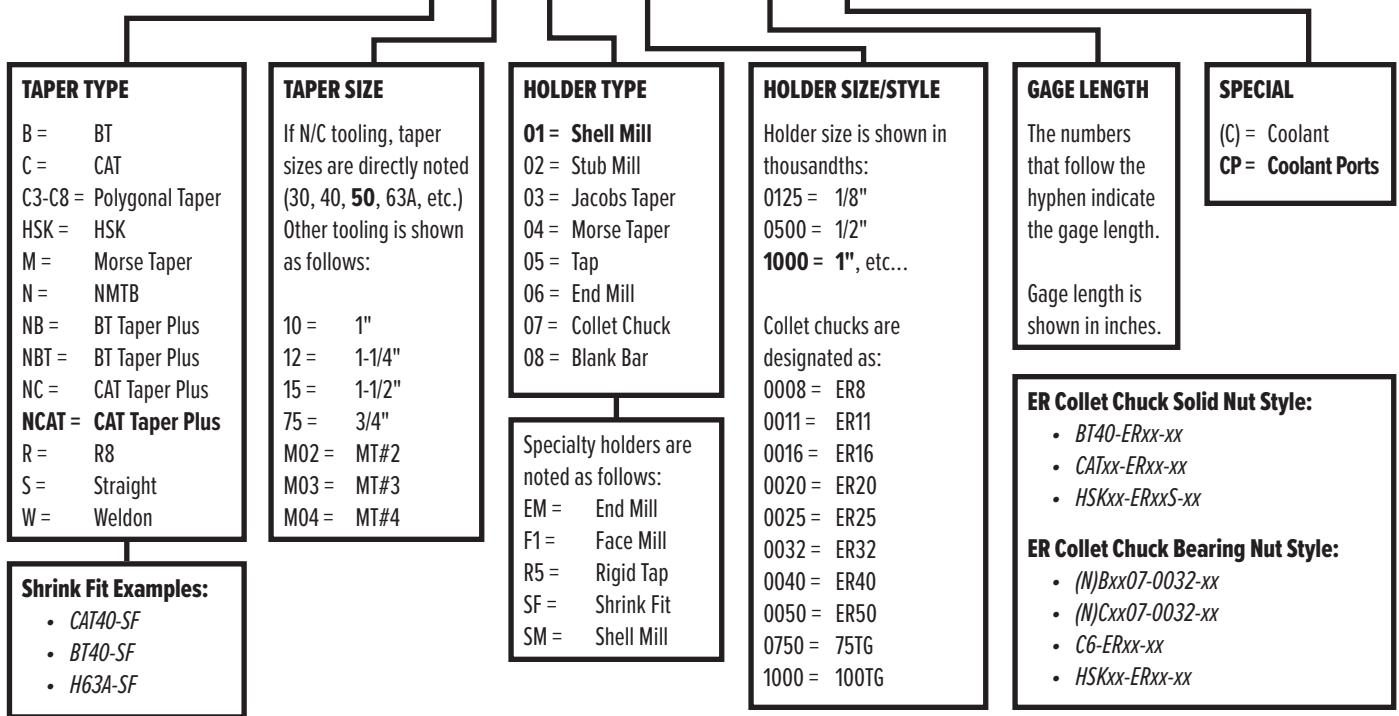
- C = Milling Chucks
- SK = SK Collet Chucks
- MMC = MMC Collet Chucks
- VC = VC Holder
- NPU = Drill Chucks

Here's how we derive our Lyndex toolholder part numbers.

Reviewing this numbering system will help you to quickly identify Lyndex toolholders in this catalog.

The example, item **NC5001-1000-4.00CP** is a **CAT50 Taper, 1" Shell Mill Holder x 4.00 Gage Length with Coolant Ports**.

**NC 50 01 - 1000 - 4.00 CP**



**Imperial (inch) sized collets** are shown with item number suffixes denoting 64ths of an inch:  
*i.e.- Item 100-032 is a 1/2" 100TG collet*

**Metric sized collets** are shown with item number suffixes denoting its maximum capacity in thousandths of an inch:  
*i.e.- Item E25-196 is a 4-5mm ER25 collet*

All specifications listed in this catalog are subject to change without notice.

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# SK COLLET CHUCKS



SK COLLET CHUCKS



## SK COLLET CHUCKS



## SK COLLET CHUCK FEATURES

### LEAN, TOUGH AND EFFICIENT

**Lean:** Narrow body design allows access to tight spots.

**Versatile:** Applicable for all milling, drilling, reaming and rigid tapping applications.

**Wide Range:** Covers sizes from 0.028" to 1".

**Extreme Precision:** 0.0002" or less concentricity guarantee with on-size collets.

**8 Degree vs. 16 Degree:** SK longer and steeper angle collets provide 2-3 times the gripping force over ER collets.



### SK Collet Range



SK6	SK10	SK13	SK16	SK20	SK25
0.7 - 6.0mm 0.028 - 0.236"	1.75 - 10.0mm 0.069 - 0.394"	2.5 - 13mm 0.098 - 0.512"	2.75 - 16.0mm 0.108 - 0.630"	3.5 - 20.0mm 0.138 - 0.787"	16.0 - 25.4mm 0.630 - 1.000"

**Accuracy and Flexibility**  
Due to our special heat treatment, grinding and custom slotting process, we are able to guarantee a 5 micron run-out tolerance for our "on size" fractional and metric size precision collets.

Ground threads reduce friction and maintain tightening torque to maximize collet compression for even more gripping power.

Fine adjustment back up screw (see details on page 13) with chamfered plastic tip creates additional seal for 1000 psi coolant through applications.

Collet is flush with nut surface preventing stringy chips from nesting.

Extremely hard and smooth surface of the TiN Bearing allows for more thrust load on the collet while preventing additional runout associated with collet twisting.

Threads are protected to prevent chip packing or stringy birds nests below the collet chuck nut.

# SK COLLET CHUCKS

## SK COLLET CHUCK FEATURES



**T.I.R.**  
≤0.0002" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant

**MILLING**



**REAMING**



**DRILLING**



**TAPPING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### Increased Gripping Power

The smaller the taper angle is, the better concentricity is obtained.

Our steep 8° collet seats deeper in the body of the holder, providing double the clamping force and precision than traditional 16° ER collets.



### GH Handle (High-Speed only)

Easy, safe and reliable handling with GH wrench (see page 36).



**Tightening**



**Loosening**



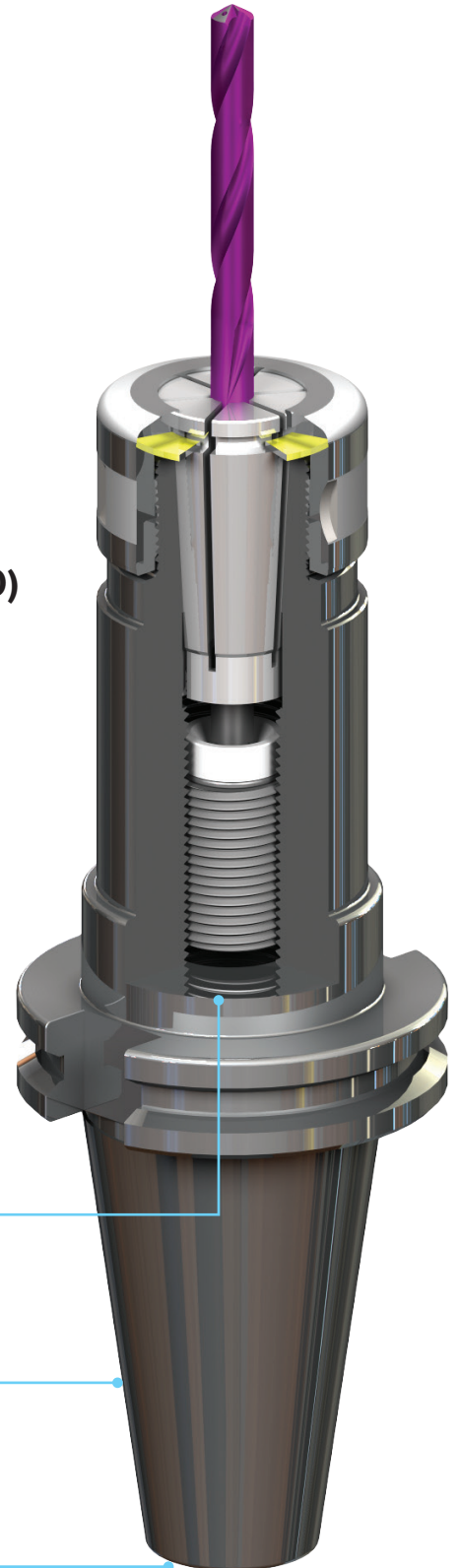
### Titanium Nitrided Bearing Nut (HV2,200) (US Patent 6923451)

- More efficient than conventional ball bearing built-in nut!
- Good sliding effect due to surface hardness of HV2,200
- Durable, minimal friction
- No corrosion occurs internally
- Less micro vibration with collet flange contact
- Increase cutting performance and tool life durability
- More cutting rigidity

High pressure 1000 psi fine thread coolant back up screw.

AT3 or better taper - .0028 degree tolerance variation (80 millionths to 126 millionths taper size tolerance).

Ground surface provides precise square seating of retention knob vs. taper.

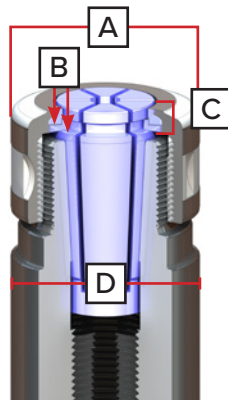


## SK COLLET

SK Collets can be used for all applications, from milling to reaming. Mechanical sealed collets can be used in coolant thru applications.

### SK Collet vs. ER Collet

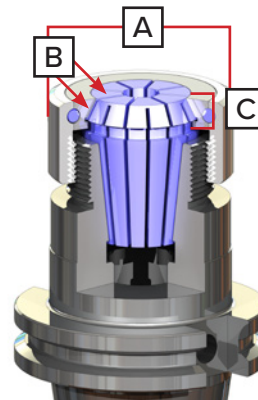
- A. Compact design allows for better clearance
- B. Straight compression prevents collet rocking, creating better accuracy
- C. Deeper seating creates greater accuracy and repeatability
- D. Body and nut are flush for more rigidity



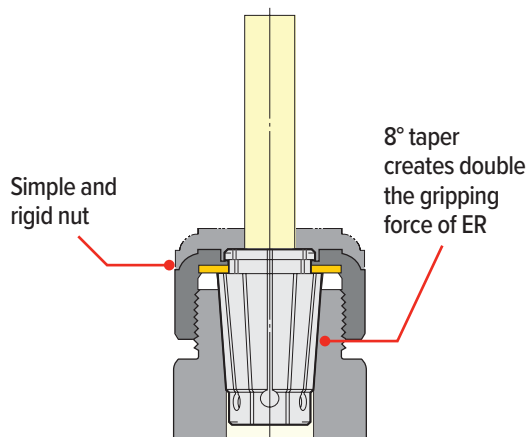
SCAN THE QR CODE TO SEE THESE COLLETS IN ACTION



- A. Wide collet = wide nut = less clearance
- B. Angular compression creates more runout
- C. Shallow seating allows for collet rocking with more runout, less repeatability

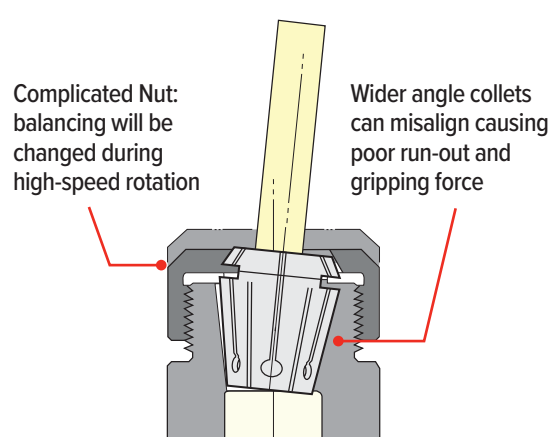


### LYNDEX-NIKKEN Slim Chuck - Flat Shoulder Pushing



- High accuracy due to flat shoulder pushing

### OTHERS Taper Shoulder Pushing



- Unstable run-out due to taper part pushing
  - Poor gripping torque of 12°, 16° taper

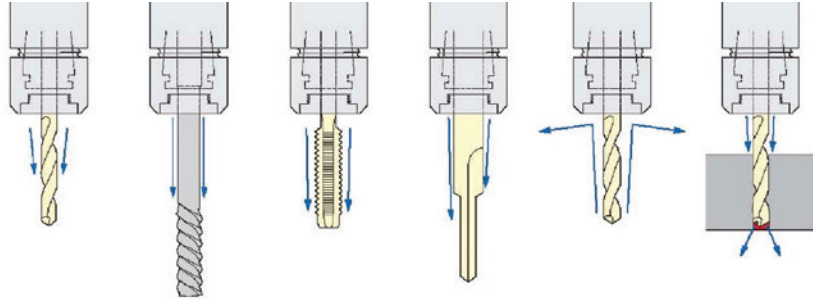
# SK COLLET CHUCKS

## SUPERIOR SK COOLANT SYSTEM

Our Slim Chuck features a unique High-Pressure Coolant Collet System which allows for higher accuracy and gripping torque. Coolant Collets are steel-sealed and mechanically sealed by design.



### SK Coolant Thru Options:



### Back-up Screw for SK Collet Chuck



SKG-12

- Solid steel black oxide coated back up screws
- Accessible and adjustable from both ends



SKG-12L

- Excellent for high feed drilling
- Allows cutter repeatability within .0002"



SKG16-12HGA

- Ultra High Pressure back up screw capable up to 1000 psi
- Solid steel black oxide coated back-up screws with plastic caps
- 80% thread engagement on fine thread to prevent coolant leakage



SKG-18H

- External O-ring provides additional seal to prevent coolant build-up within the toolholder

- Plastic cap is tapered to accommodate for different sizes
- Excellent for high pressure coolant or oil drilling applications
- Allows cutter repeatability within .0002"



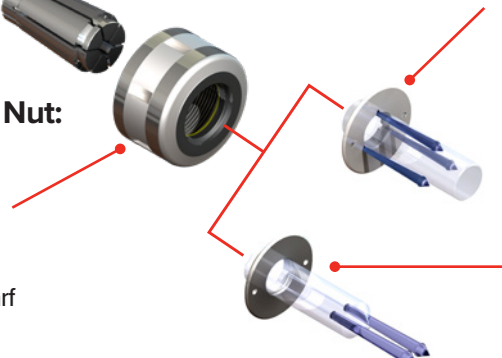
Coolant Collets are steel-sealed and mechanically sealed by design.

### Slotted Disk:

When the Coolant Nut is paired with the Slotted Disk, coolant is directed to the cutting edge of the cutting tool, making this combination ideal for non-coolant-thru tools. The jet coolant pressure creates a tornado effect, ensuring efficient swarf dispersal.

### Applications for SK Coolant Nut:

- Tap or specially designed cutting tool
- Burnishing drill for formed hole
- Oil hole drill for through hole drilling
- Cutting tool with coolant grooves
- Mechanical seal prevents dust and swarf entering inside the collet slots



### Coolant-Thru Disk:

When the Coolant Nut is paired with the Coolant-Thru Disk, a perfect seal is formed around the cutting tool shank, making this combination ideal for Coolant-Thru tools.

## CAT SK COLLET CHUCKS

### FEATURES

- Feature TiN Bearing Nut which considerably improves cutting rigidity and finish
- Narrow body allows access to tight spaces and hard to reach areas
- Longer and steeper taper SK collet provides double the clamping force and precision than ER Collet Chucks



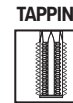
**T.I.R.**  
≤0.0002" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
CAT40-SK6-90U-IDU	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.15"	-	0.77"	1.75"	-	SKG-8	20K	1
CAT40-SK6-120U-IDU	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.61"	3.31"	0.77"	1.26"	1.75"	SKG-8	20K	2
CAT40-SK6-150U-IDU	SK6	0.028 - 0.25"	SKL-6W	150	5.91"	2.35"	-	0.77"	1.75"	-	SKG-8	20K	3
CAT40-SK10-60U-IDU	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.61"	-	1.08"	-	-	SKG-12L	20K	4
CAT40-SK10-90U-IDU	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.17"	-	1.08"	1.75"	-	SKG-12L	20K	1
CAT40-SK10-120U-IDU	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.00"	3.35"	1.08"	1.26"	1.75"	SKG-12L	20K	2
CAT40-SK10-150U-IDU	SK10	0.035 - 0.394"	SKL-10	150	5.91"	2.90"	-	1.08"	1.75"	-	SKG-12L	20K	3
CAT40-SK10-180U-IDU	SK10	0.035 - 0.394"	SKL-10	180	7.09"	2.90"	-	1.08"	1.75"	-	SKG-12L	20K	3
CAT40-SK13-90U-IDU	SK13	0.108 - 0.512"	O16-SPAN	90	3.54"	2.18"	-	1.30"	1.75"	-	SKG-15	20K	1
CAT40-SK13-120U-IDU	SK13	0.108 - 0.512"	O16-SPAN	120	4.72"	3.36"	-	1.30"	1.75"	-	SKG-15	20K	1
CAT40-SK13-150U-IDU	SK13	0.108 - 0.512"	O16-SPAN	150	5.91"	3.48"	-	1.30"	1.75"	-	SKG-15	20K	3
CAT40-SK13-180U-IDU	SK13	0.108 - 0.512"	O16-SPAN	180	7.09"	3.45"	-	1.30"	1.75"	-	SKG-15	20K	3
CAT40-SK16-60U-IDU	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.58"	-	1.58"	-	-	SKG-18S	20K	4
CAT40-SK16-90U-IDU	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.14"	-	1.58"	1.75"	-	SKG-18L	20K	1
CAT40-SK16-120U-IDU	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.31"	-	1.58"	1.75"	-	SKG-18L	20K	1
CAT40-SK16-150U-IDU	SK16	0.108 - 0.63"	9HC16	150	5.91"	4.49"	-	1.58"	1.75"	-	SKG-18L	20K	1
CAT40-SK16-180U-IDU	SK16	0.108 - 0.63"	9HC16	180	7.09"	5.68"	-	1.58"	1.75"	-	SKG-18L	20K	1
CAT40-SK20-65U-IDU	SK20	0.138 - 0.787"	9HC22	65	2.56"	1.80"	-	1.91"	-	-	SKG-22	20K	4
CAT40-SK20-90U-IDU	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.79"	-	1.91"	-	-	SKG-22	20K	5
CAT40-SK20-120U-IDU	SK20	0.138 - 0.787"	9HC22	120	4.72"	3.98"	-	1.91"	-	-	SKG-22	20K	5
CAT40-SK20-150U-IDU	SK20	0.138 - 0.787"	9HC22	150	5.91"	5.15"	-	1.91"	-	-	SKG-22	20K	5
CAT40-SK20-180U-IDU	SK20	0.138 - 0.787"	9HC22	180	7.09"	1.94"	-	1.91"	-	-	SKG-22	20K	5
CAT40-SK25-90U-IDU	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.79"	-	2.17"	-	-	SKG-28	20K	5
CAT40-SK25-120U-IDU	SK25	0.188 - 1.000"	9HC22	120	4.72"	3.98"	-	2.17"	-	-	SKG-28	20K	5

Note: "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

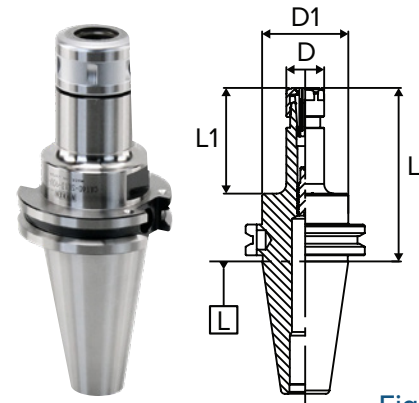


Fig. 1

### CAT50

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
CAT50-SK6-105U-IDU	SK6	0.028 - 0.25"	SKL-6W	105	4.13"	2.77"	-	0.77"	2.75"	-	SKG-8	20K	1
CAT50-SK6-165U-IDU	SK6	0.028 - 0.25"	SKL-6W	165	6.50"	2.63"	5.11"	0.77"	1.26"	2.75"	SKG-8	20K	2
CAT50-SK6-195U-IDU	SK6	0.028 - 0.25"	SKL-6W	195	7.68"	2.35"	6.29"	0.77"	1.97"	2.75"	SKG-8	20K	6
CAT50-SK10-105U-IDU	SK10	0.035 - 0.394"	SKL-10	105	4.13"	2.78"	-	1.08"	2.75"	-	SKG-12L	20K	1
CAT50-SK10-165U-IDU	SK10	0.035 - 0.394"	SKL-10	165	6.50"	3.20"	5.13"	1.08"	1.26"	2.75"	SKG-12L	20K	2
CAT50-SK10-195U-IDU	SK10	0.035 - 0.394"	SKL-10	195	7.68"	2.95"	-	1.08"	2.75"	-	SKG-12L	20K	3
CAT50-SK10-225U-IDU	SK10	0.035 - 0.394"	SKL-10	225	8.86"	2.97"	-	1.08"	2.75"	-	SKG-12L	20K	3
CAT50-SK13-105U-IDU	SK13	0.108 - 0.512"	O16-SPAN	105	4.13"	2.77"	-	1.30"	2.75"	-	SKG-15	20K	1
CAT50-SK13-165U-IDU	SK13	0.108 - 0.512"	O16-SPAN	165	6.50"	3.83"	5.13"	1.30"	1.73"	2.75"	SKG-15	20K	2
CAT50-SK13-195U-IDU	SK13	0.108 - 0.512"	O16-SPAN	195	7.68"	3.62"	-	1.30"	2.75"	-	SKG-15	20K	3
CAT50-SK16-105U-IDU	SK16	0.108 - 0.63"	9HC16	105	4.13"	2.75"	-	1.58"	2.75"	-	SKG-18L	20K	1
CAT50-SK16-165U-IDU	SK16	0.108 - 0.63"	9HC16	165	6.50"	3.72"	5.09"	1.58"	1.97"	2.75"	SKG-18L	20K	2
CAT50-SK16-195U-IDU	SK16	0.108 - 0.63"	9HC16	195	7.68"	3.51"	-	1.58"	2.75"	-	SKG-18L	20K	3
CAT50-SK20-105U-IDU	SK20	0.138 - 0.787"	9HC22	105	4.13"	2.75"	-	1.91"	2.75"	-	SKG-22	20K	1
CAT50-SK20-195U-IDU	SK20	0.138 - 0.787"	9HC22	195	7.68"	6.29"	-	1.91"	2.75"	-	SKG-22	20K	1
CAT50-SK25-165U-IDU	SK25	0.188 - 1.000"	9HC22	165	6.50"	5.12"	-	2.17"	2.75"	-	SKG-28	15K	1
CAT50-SK25-195U-IDU	SK25	0.188 - 1.000"	9HC22	195	7.68"	6.29"	-	2.17"	2.75"	-	SKG-28	15K	1

Note: Wrench and back-up screw not included.

Available in **TAPER PLUS**  
Dual-taper and flange contact  
See pages 22-23

**TAPER PLUS+**  
COMBINING TAPER ACCURACY  
WITH FLANGE RIGIDITY!

- Outstanding Runout Accuracy for longer tool life
- Vibration Dampening for increased productivity
- High Rigidity for smooth and stable cutting



SK Collets  
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Wrenches  
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Back-up Screw  
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Coolant-thru Nuts  
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# SK COLLET CHUCKS

## CAT SK COLLET CHUCKS - HIGH SPEED

### CAT40 - HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
CAT40-SK6-90UP-IDU	SK6	0.028 - 0.25"	GH6	90	3.54"	2.17"	-	0.78"	1.75"	-	SKG-8	30K	1
CAT40-SK6-120UP-IDU	SK6	0.028 - 0.25"	GH6	120	4.72"	2.64"	3.35"	0.78"	1.26"	1.75"	SKG-8	30K	2
CAT40-SK6-150UP-IDU	SK6	0.028 - 0.25"	GH6	150	5.91"	2.36"	-	0.78"	1.75"	-	SKG-8	30K	3
CAT40-SK10-60UP-IDU	SK10	0.035 - 0.394"	GH10	60	2.36"	1.61"	-	1.08"	-	-	SKG-12L	30K	4
CAT40-SK10-90UP-IDU	SK10	0.035 - 0.394"	GH10	90	3.54"	2.18"	-	1.08"	1.75"	-	SKG-12L	30K	1
CAT40-SK10-120UP-IDU	SK10	0.035 - 0.394"	GH10	120	4.72"	3.00"	3.36"	1.08"	1.26"	1.75"	SKG-12L	30K	2
CAT40-SK10-150UP-IDU	SK10	0.035 - 0.394"	GH10	150	5.91"	2.89"	-	1.08"	1.75"	-	SKG-12L	30K	3
CAT40-SK13-90UP-IDU	SK13	0.108 - 0.512"	GH12	90	3.54"	2.17"	-	1.32"	1.75"	-	SK-15	30K	1
CAT40-SK13-120UP-IDU	SK13	0.108 - 0.512"	GH12	120	4.72"	3.35"	-	1.32"	1.75"	-	SK-15	30K	1
CAT40-SK13-150UP-IDU	SK13	0.108 - 0.512"	GH12	150	5.91"	3.47"	-	1.32"	1.75"	-	SK-15	30K	3
CAT40-SK16-60UP-IDU	SK16	0.108 - 0.63"	GH16	60	2.36"	1.77"	-	1.59"	-	-	SKG-18S	25K	4
CAT40-SK16-90UP-IDU	SK16	0.108 - 0.63"	GH16	90	3.54"	2.13"	-	1.59"	1.75"	-	SKG-18L	25K	1
CAT40-SK16-120UP-IDU	SK16	0.108 - 0.63"	GH16	120	4.72"	3.31"	-	1.59"	1.75"	-	SKG-18L	25K	1
CAT40-SK16-150UP-IDU	SK16	0.108 - 0.63"	GH16	150	5.91"	4.49"	-	1.59"	1.75"	-	SKG-18L	25K	1
CAT40-SK20-65UP-IDU	SK20	0.138 - 0.787"	GH20	65	2.56"	1.80"	-	1.91"	-	-	SKG-22	25K	4
CAT40-SK20-90UP-IDU	SK20	0.138 - 0.787"	GH20	90	3.54"	2.79"	-	1.91"	-	-	SKG-22	25K	5
CAT40-SK20-120UP-IDU	SK20	0.138 - 0.787"	GH20	120	4.72"	3.70"	-	1.91"	-	-	SKG-22	25K	5
CAT40-SK25-90UP-IDU	SK25	0.630 - 1.000"	GH25	90	3.54"	2.75"	-	3.61"	-	-	SKG-28	20K	5
CAT40-SK25-120UP-IDU	SK25	0.630 - 1.000"	GH25	120	4.72"	3.93"	-	3.61"	-	-	SKG-28	15K	5

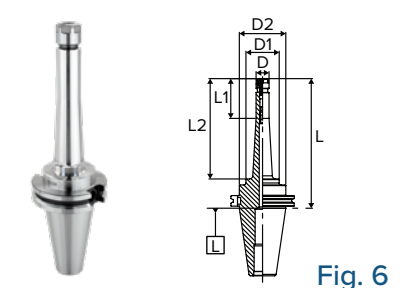
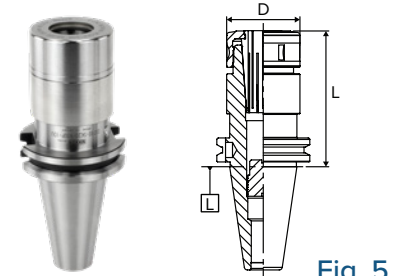
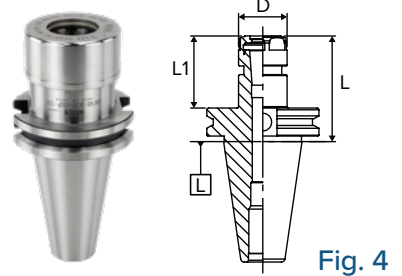
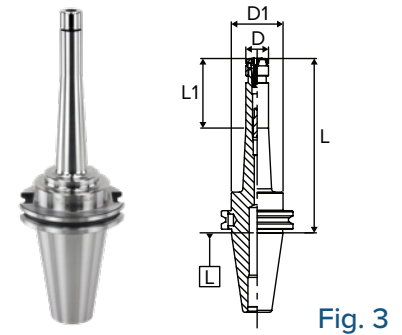
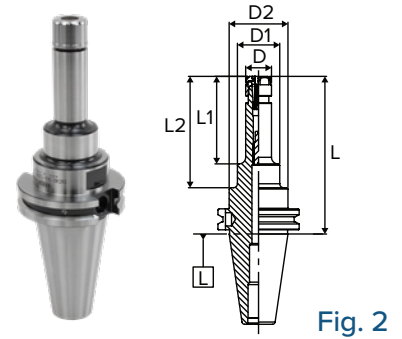
Note:

- DIN type high-speed toolholders available. Please contact us for more information.
- "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

### CAT50 - HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
CAT50-SK6-105UP-IDU	SK6	0.028 - 0.25"	GH6	105	4.13"	2.76"	-	0.78"	2.75"	-	SKG-8	20K	1
CAT50-SK6-165UP-IDU	SK6	0.028 - 0.25"	GH6	165	6.50"	2.64"	5.12"	0.78"	1.26"	2.75"	SKG-8	20K	2
CAT50-SK10-105UP-IDU	SK10	0.035 - 0.394"	GH10	105	4.13"	2.78"	-	1.08"	2.75"	-	SKG-12L	20K	1
CAT50-SK10-165UP-IDU	SK10	0.035 - 0.394"	GH10	165	6.50"	3.21"	5.14"	1.08"	1.26"	2.75"	SKG-12L	20K	2
CAT50-SK10-195UP-IDU	SK10	0.035 - 0.394"	GH10	195	7.68"	2.97"	-	1.08"	2.75"	-	SKG-12L	20K	3
CAT50-SK13-105UP-IDU	SK13	0.108 - 0.512"	GH12	105	4.13"	2.76"	-	1.32"	2.75"	-	SKG-15	20K	1
CAT50-SK13-165UP-IDU	SK13	0.108 - 0.512"	GH12	165	6.50"	3.82"	5.12"	1.32"	1.77"	2.75"	SKG-15	20K	2
CAT50-SK16-105UP-IDU	SK16	0.108 - 0.63"	GH16	105	4.13"	2.72"	-	1.59"	2.75"	-	SKG-18L	20K	1
CAT50-SK16-165UP-IDU	SK16	0.108 - 0.63"	GH16	165	6.50"	3.71"	5.09"	1.59"	1.97"	2.75"	SKG-18L	20K	2
CAT50-SK16-195UP-IDU	SK16	0.108 - 0.63"	GH16	195	7.68"	3.51"	-	1.59"	2.75"	-	SKG-18L	20K	3
CAT50-SK25-105UP-IDU	SK25	0.188 - 1.000"	GH25	105	4.13"	2.76"	-	2.17"	2.75"	-	SKG-28	15K	1
CAT50-SK25-165UP-IDU	SK25	0.188 - 1.000"	GH25	165	6.50"	5.12"	-	2.17"	2.75"	-	SKG-28	15K	1
CAT50-SK25-195UP-IDU	SK25	0.188 - 1.000"	GH25	195	7.68"	6.30"	-	2.17"	2.75"	-	SKG-28	15K	1

Note: CAT50 - High-Speed - Wrench and back-up screw not included.



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Wrenches  
Page 40

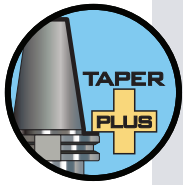


Back-up Screw  
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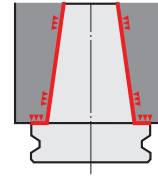
Coolant-thru Nuts  
Pages 37-39

## TAPER PLUS CAT SK COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT40 SK6/10/13/16/20/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
NCAT40-SK6C-90U-IDU	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.16"	-	0.77"	1.75"	-	SKG6-6HG	20K	1
NCAT40-SK6C-120U-IDU	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.63"	3.34"	0.77"	1.26"	1.75"	SKG6-6HG	20K	2
NCAT40-SK6C-150U-IDU	SK6	0.028 - 0.25"	SKL-6W	150	5.91"	2.34"	-	0.77"	1.75"	-	SKG6-6HG	20K	3
NCAT40-SK10C-90U-IDU	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.17"	-	1.08"	1.75"	-	SKG10-10HG	20K	1
NCAT40-SK10C-120U-IDU	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.00"	3.33"	1.08"	1.26"	1.75"	SKG10-10HG	20K	2
NCAT40-SK10C-150U-IDU	SK10	0.035 - 0.394"	SKL-10	150	5.91"	2.87"	-	1.08"	1.75"	-	SKG10-10HG	20K	3
NCAT40-SK10C-180U-IDU	SK10	0.035 - 0.394"	SKL-10	180	7.09"	2.87"	-	1.08"	1.75"	-	SKG10-10HG	20K	3
NCAT40-SK13C-90U-IDU	SK13	0.108 - 0.512"	016-SPAN	90	3.54"	2.18"	-	1.30"	1.75"	-	SKG13-10HG	20K	1
NCAT40-SK13C-120U-IDU	SK13	0.108 - 0.512"	016-SPAN	120	4.72"	3.34"	-	1.30"	1.75"	-	SKG13-10HG	20K	1
NCAT40-SK13C-150U-IDU	SK13	0.108 - 0.512"	016-SPAN	150	5.91"	3.47"	-	1.30"	1.75"	-	SKG13-10HG	20K	3
NCAT40-SK13C-180U-IDU	SK13	0.108 - 0.512"	016-SPAN	180	7.09"	3.46"	-	1.30"	1.75"	-	SKG13-10HG	20K	3
NCAT40-SK16C-60U-IDU	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.56"	-	1.58"	-	-	SKG16-10HG	20K	4
NCAT40-SK16C-90U-IDU	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.14"	-	1.58"	1.75"	-	SKG16-12HG	20K	1
NCAT40-SK16C-120U-IDU	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.31"	-	1.58"	1.75"	-	SKG16-12HG	20K	1
NCAT40-SK16C-150U-IDU	SK16	0.108 - 0.63"	9HC16	150	5.91"	4.49"	-	1.58"	1.75"	-	SKG16-12HG	20K	1
NCAT40-SK16C-180U-IDU	SK16	0.108 - 0.63"	9HC16	180	7.09"	5.67"	-	1.58"	1.75"	-	SKG16-12HG	20K	1
NCAT40-SK20-50U-IDU	SK20	0.138 - 0.787"	9HC22	50	1.97"	1.17"	-	1.91"	-	-	SKG-22	20K	4
NCAT40-SK20C-65U-IDU	SK20	0.138 - 0.787"	9HC22	65	2.56"	1.80"	-	1.91"	-	-	SKG20-12HG	20K	4
NCAT40-SK20C-90U-IDU	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.79"	-	1.91"	-	-	SKG20-18HG	20K	5
NCAT40-SK20C-120U-IDU	SK20	0.138 - 0.787"	9HC22	120	4.72"	3.97"	-	1.91"	-	-	SKG20-18HG	20K	5
NCAT40-SK20C-150U-IDU	SK20	0.138 - 0.787"	9HC22	150	5.91"	5.15"	-	1.91"	-	-	SKG20-18HG	20K	5
NCAT40-SK20C-180U-IDU	SK20	0.138 - 0.787"	9HC22	180	7.09"	6.33"	-	1.91"	-	-	SKG20-18HG	20K	5
NCAT40-SK25C-90U-IDU	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.77"	-	2.17"	-	-	SKG25-18HGD	20K	5
NCAT40-SK25C-120U-IDU	SK25	0.188 - 1.000"	9HC22	120	4.72"	3.95"	-	2.17"	-	-	SKG25-18HGD	20K	5

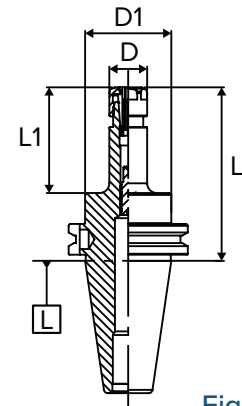


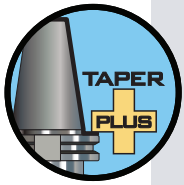
Fig. 1

Note: "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)



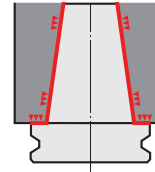
# SK COLLET CHUCKS

## TAPER PLUS CAT SLIM CHUCK COOLANT HIGH-SPEED



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



SK COLLET CHUCKS

### TAPER PLUS - CAT40 SK6-P/10/13/16/20/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
NCAT40-SK6C-90UP-IDU	SK6	0.028 - 0.25"	GH6	90	3.54"	2.16"	-	0.78"	1.75"	-	SKG6-6HG	30K	1
NCAT40-SK6C-120UP-IDU	SK6	0.028 - 0.25"	GH6	120	4.72"	2.63"	3.34"	0.78"	0.78"	1.75"	SKG6-6HG	30K	2
NCAT40-SK6C-150UP-IDU	SK6	0.028 - 0.25"	GH6	150	5.91"	2.33"	-	0.78"	1.75"	-	SKG6-6HG	30K	3
NCAT40-SK10C-90UP-IDU	SK10	0.035 - 0.394"	GH10	90	3.54"	2.19"	-	1.08"	1.75"	-	SKG10-10HG	30K	1
NCAT40-SK10C-120UP-IDU	SK10	0.035 - 0.394"	GH10	120	4.72"	3.00"	3.36"	1.08"	1.26"	1.75"	SKG10-10HG	30K	2
NCAT40-SK10C-180UP-IDU	SK10	0.035 - 0.394"	GH10	180	7.09"	2.89"	-	1.08"	1.75"	-	SKG10-10HG	30K	3
NCAT40-SK10C-150UP-IDU	SK10	0.035 - 0.394"	GH10	150	5.91"	2.87"	-	1.08"	1.75"	-	SKG10-10HG	30K	3
NCAT40-SK13C-90UP-IDU	SK13	0.108 - 0.512"	GH12	90	3.54"	2.17"	-	1.32"	1.75"	-	SKG13-10HG	30K	1
NCAT40-SK13C-120UP-IDU	SK13	0.108 - 0.512"	GH12	120	4.72"	3.36"	-	1.32"	1.75"	-	SKG13-10HG	30K	1
NCAT40-SK13C-150UP-IDU	SK13	0.108 - 0.512"	GH12	150	5.91"	3.48"	-	1.32"	1.75"	-	SKG13-10HG	30K	3
NCAT40-SK16C-60UP-IDU	SK16	0.108 - 0.63"	GH16	60	2.36"	1.59"	-	1.59"	-	-	SKG16-10HG	25K	4
NCAT40-SK16C-90UP-IDU	SK16	0.108 - 0.63"	GH16	90	3.54"	2.13"	-	1.59"	1.75"	-	SKG16-12HG	25K	1
NCAT40-SK16C-120UP-IDU	SK16	0.108 - 0.63"	GH16	120	4.72"	3.31"	-	1.59"	1.75"	-	SKG16-12HG	25K	1
NCAT40-SK16C-150UP-IDU	SK16	0.108 - 0.63"	GH16	150	5.91"	4.50"	-	1.59"	1.75"	-	SKG16-12HG	25K	1
NCAT40-SK20C-65UP-IDU	SK20	0.138 - 0.787"	GH20	65	2.56"	1.80"	-	1.91"	-	-	SKG20-12HG	25K	4
NCAT40-SK20C-90UP-IDU	SK20	0.138 - 0.787"	GH20	90	3.54"	2.79"	-	1.91"	-	-	SKG20-18HG	25K	5
NCAT40-SK20C-120UP-IDU	SK20	0.138 - 0.787"	GH20	120	4.72"	3.97"	-	1.91"	-	-	SKG20-18HG	25K	5
NCAT40-SK20C-150UP-IDU	SK20	0.138 - 0.787"	GH20	150	5.91"	5.15"	-	1.91"	-	-	SKG20-18HG	25K	5
NCAT40-SK25C-90UP-IDU	SK25	0.188 - 1.000"	GH25	90	3.54"	2.77"	-	2.17"	-	-	SKG25-18HGD	20K	5
NCAT40-SK25C-120UP-IDU	SK25	0.188 - 1.000"	GH25	120	4.72"	3.95"	-	2.17"	-	-	SKG25-18HGD	20K	5

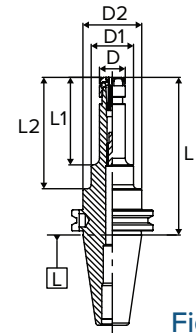


Fig. 2

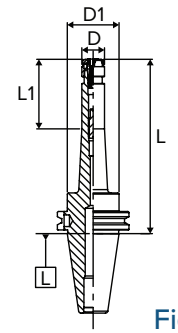


Fig. 3

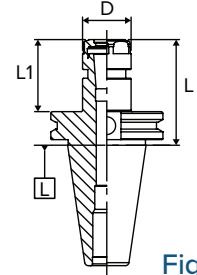


Fig. 4

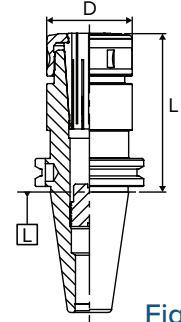


Fig. 5

Note: "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)



SK Collets  
Pages 32-39



Wrenches  
Page 40

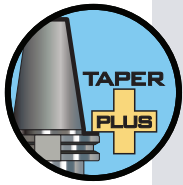


Back-up Screw  
Page 41



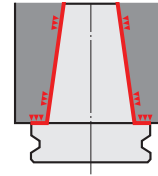
Coolant-thru Nuts  
Pages 37-39

## TAPER PLUS CAT SK COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT50 SK6/SK10/16/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
NCAT50-SK6C-105U-IDU	SK6	0.028 - 0.25"	SKL-6W	105	4.13"	2.73"	-	0.77"	2.75"	-	SKG6-6HG	20K	1
NCAT50-SK6C-165U-IDU	SK6	0.028 - 0.25"	SKL-6W	165	6.50"	2.61"	5.09"	0.77"	1.26"	2.75"	SKG6-6HG	20K	2
NCAT50-SK10C-105U-IDU	SK10	0.035 - 0.394"	SKL-10	105	4.13"	2.77"	-	1.08"	2.75"	-	SKG10-10HG	20K	1
NCAT50-SK10C-165U-IDU	SK10	0.035 - 0.394"	SKL-10	165	6.50"	3.21"	5.14"	1.08"	1.26"	2.75"	SKG10-10HG	20K	2
NCAT50-SK10C-195U-IDU	SK10	0.035 - 0.394"	SKL-10	195	7.68"	2.95"	-	1.08"	2.75"	-	SKG10-10HG	20K	3
NCAT50-SK10C-225U-IDU	SK10	0.035 - 0.394"	SKL-10	225	8.86"	2.95"	-	1.08"	2.75"	-	SKG10-10HG	20K	3
NCAT50-SK16C-105U-IDU	SK16	0.108 - 0.63"	9HC16	105	4.13"	2.72"	-	1.58"	2.75"	-	SKG16-12HG	20K	1
NCAT50-SK16C-165U-IDU	SK16	0.108 - 0.63"	9HC16	165	6.50"	3.71"	5.08"	1.58"	1.97"	2.75"	SKG16-12HG	20K	2
NCAT50-SK16C-195U-IDU	SK16	0.108 - 0.63"	9HC16	195	7.68"	3.52"	-	1.58"	2.75"	-	SKG16-12HG	20K	3
NCAT50-SK25C-105U-IDU	SK25	0.188 - 1.000"	9HC22	105	4.13"	2.75"	-	1.91"	2.75"	-	SKG25-24HG	15K	1
NCAT50-SK25C-165U-IDU	SK25	0.188 - 1.000"	9HC22	165	6.50"	5.09"	-	2.17"	2.75"	-	SKG25-24HG	15K	1
NCAT50-SK25C-195U-IDU	SK25	0.188 - 1.000"	9HC22	195	7.68"	6.27"	-	2.17"	2.75"	-	SKG25-24HG	15K	1

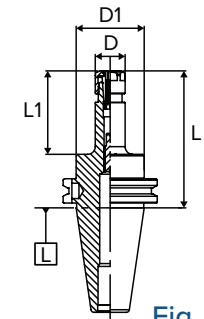


Fig. 1

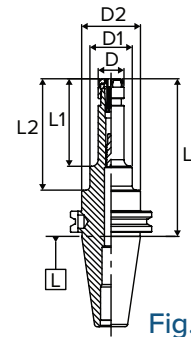


Fig. 2

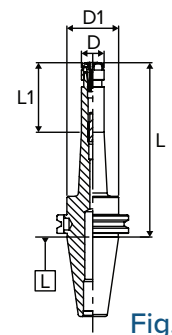


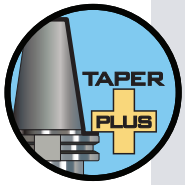
Fig. 3

Note: "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)



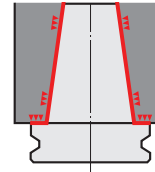
# SK COLLET CHUCKS

## TAPER PLUS CAT SLIM CHUCK COOLANT HIGH-SPEED



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT50 SK10-P/16/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
NCAT50-SK10C-105UP-IDU	SK10	0.035 - 0.394"	GH10	105	4.13"	2.75"	-	1.08"	2.75"	-	SKG10-10HG	20K	1
NCAT50-SK10C-165UP-IDU	SK10	0.035 - 0.394"	GH10	165	6.50"	3.19"	5.11"	1.08"	1.26"	2.75"	SKG10-10HG	20K	2
NCAT50-SK10C-195UP-IDU	SK10	0.035 - 0.394"	GH10	195	7.68"	2.95"	-	1.08"	2.75"	-	SKG10-10HG	20K	3
NCAT50-SK16C-105UP-IDU	SK16	0.108 - 0.63"	GH16	105	4.13"	2.72"	-	1.59"	2.75"	-	SKG16-12HG	20K	1
NCAT50-SK16C-165UP-IDU	SK16	0.108 - 0.63"	GH16	165	6.50"	3.71"	5.08"	1.59"	1.97"	2.75"	SKG16-12HG	20K	2
NCAT50-SK25C-105UP-IDU	SK25	0.188 - 1.000"	GH25	105	4.13"	2.73"	-	2.17"	2.75"	-	SKG25-24HG	15K	1
NCAT50-SK25C-165UP-IDU	SK25	0.188 - 1.000"	GH25	165	6.50"	5.09"	-	2.17"	2.75"	-	SKG25-24HG	15K	1

Note: "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

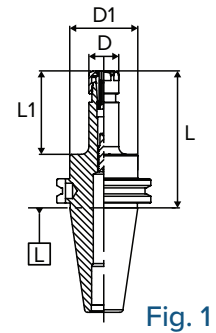


Fig. 1

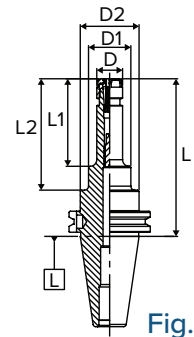


Fig. 2

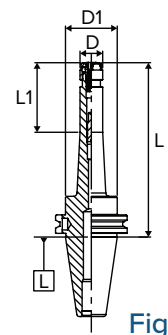


Fig. 3



## BT SK COLLET CHUCKS

### FEATURES

- Feature TiN Bearing Nut which considerably improves cutting rigidity and finish
- Narrow body allows access to tight spaces and hard to reach areas
- Unique high-pressure coolant collet system for higher accuracy and gripping torque
- Longer and steeper collet provides double the clamping force and precision than ER Collet Chucks



**T.I.R.**  
≤0.0002" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant

MILLING



REAMING



DRILLING



TAPPING



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
BT30-SK6-60	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.49"	0.77"	-	SKG-8	15K	7
BT30-SK6-90	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.47"	0.77"	1.26"	SKG-8	15K	8
BT30-SK6-120	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.63"	0.77"	1.26"	SKG-8	15K	8
BT30-SK10-45	SK10	0.035 - 0.394"	SKL-10	45	1.77"	0.90"	1.08"	-	SKG-12S	15K	7
BT30-SK10-60	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.52"	1.08"	-	SKG-12L	15K	7
BT30-SK10-90	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.68"	1.08"	-	SKG-12L	15K	7
BT30-SK13-75	SK13	0.108 - 0.512"	016-SPAN	75	2.95"	2.09"	1.30"	-	SKG-15	15K	7
BT30-SK13-90	SK13	0.108 - 0.512"	016-SPAN	90	3.54"	2.68"	1.30"	-	SKG-15	15K	7
BT30-SK13-120	SK13	0.108 - 0.512"	016-SPAN	120	4.72"	3.86"	1.30"	-	SKG-15	15K	7
BT30-SK16-60	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.47"	1.58"	-	SKG-12L	15K	7
BT30-SK16-90	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.67"	1.58"	-	SKG-12	15K	7
BT30-SK16-120	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.82"	1.58"	-	SKG-18L	15K	7
BT30-SK20-60	SK20	0.138 - 0.787"	9HC22	60	2.36"	1.49"	1.91"	-	SKG-12S	15K	7
BT30-SK20-90	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.67"	1.91"	-	SKG-12	15K	7
BT30-SK25-90	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.67"	2.17"	-	SKG-12	15K	7

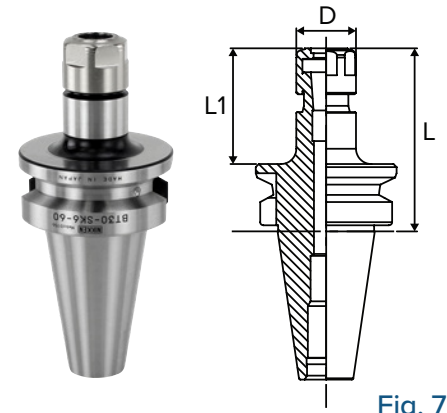


Fig. 7

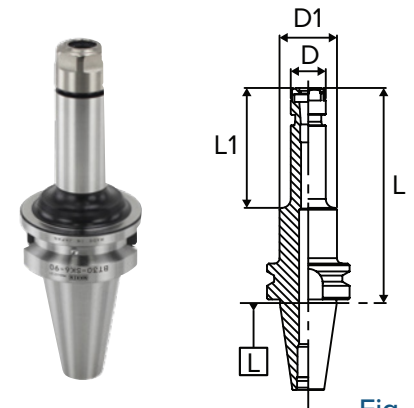


Fig. 8

Available in **TAPER PLUS+**  
Dual-taper and flange contact



SK Collets  
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Wrenches  
Page 40



Back-up Screw  
Page 41



Coolant-thru Nuts  
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# SK COLLET CHUCKS

## BT SK COLLET CHUCKS

### BT40

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
BT40-SK6-60	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.30"	0.77"	-	SKG-8	15K	7
BT40-SK6-90	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.28"	0.77"	1.26"	SKG-8	15K	8
BT40-SK6-120	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.63"	0.77"	1.26"	SKG-8	15K	8
BT40-SK6-150	SK6	0.028 - 0.25"	SKL-6W	150	5.91"	2.35"	0.77"	-	SKG-8	10K	9
BT40-SK10-60	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.32"	1.08"	-	SKG-12L	15K	7
BT40-SK10-90	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.18"	1.08"	1.58"	SKG-12L	15K	8
BT40-SK10-120	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.16"	1.08"	1.58"	SKG-12L	15K	8
BT40-SK10-150	SK10	0.035 - 0.394"	SKL-10	150	5.91"	2.87"	1.08"	-	SKG-12L	10K	9
BT40-SK10-180	SK10	0.035 - 0.394"	SKL-10	180	7.09"	2.87"	1.08"	-	SKG-12L	10K	9
BT40-SK13-75	SK13	0.108 - 0.512"	016-SPAN	75	2.95"	1.90"	1.30"	-	SKG-15	15K	7
BT40-SK13-90	SK13	0.108 - 0.512"	016-SPAN	90	3.54"	2.48"	1.30"	-	SKG-15	15K	7
BT40-SK16-60	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.27"	1.58"	-	SKG-18S	15K	7
BT40-SK16-90	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.45"	1.58"	-	SKG-18L	15K	7
BT40-SK16-120	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.65"	1.58"	-	SKG-18L	15K	7
BT40-SK16-150	SK16	0.108 - 0.63"	9HC16	150	5.91"	4.84"	1.58"	-	SKG-18L	10K	7
BT40-SK16-180	SK16	0.108 - 0.63"	9HC16	180	7.09"	6.02"	1.58"	-	SKG-18L	10K	7
BT40-SK20-60	SK20	0.138 - 0.787"	9HC22	60	2.36"	1.30"	1.91"	-	SKG-22	15K	7
BT40-SK20-90	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.47"	1.91"	-	SKG-22	15K	7
BT40-SK20-120	SK20	0.138 - 0.787"	9HC22	120	4.72"	3.65"	1.91"	-	SKG-22	15K	7
BT40-SK25-75	SK25	0.188 - 1.000"	9HC22	75	2.95"	1.88"	2.17"	-	SKG-12	15K	7
BT40-SK25-90	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.47"	2.17"	-	SKG-28	15K	7
BT40-SK25-120	SK25	0.188 - 1.000"	9HC22	120	4.72"	3.65"	2.17"	-	SKG-28	15K	7

Note: Wrench and back-up screw not included.

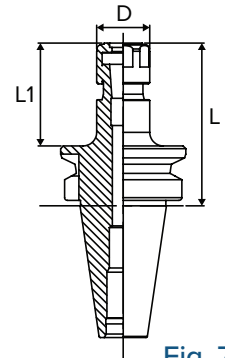


Fig. 7

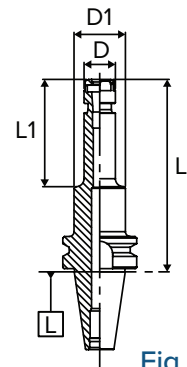


Fig. 8

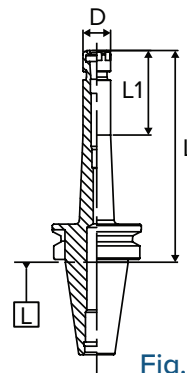


Fig. 9

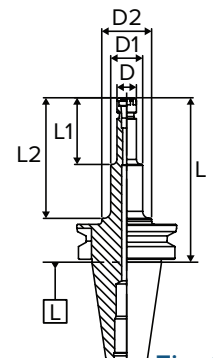


Fig. 10

### BT50 STANDARD

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
BT50-SK6-105	SK6	0.028 - 0.25"	SKL-6W	105	4.13"	2.43"	-	0.77"	1.26"	-	SKG-8	15K	8
BT50-SK6-165	SK6	0.028 - 0.25"	SKL-6W	165	6.50"	2.63"	4.76"	0.77"	1.26"	1.97"	SKG-8	10K	10
BT50-SK10-105	SK10	0.035 - 0.394"	SKL-10	105	4.13"	2.63"	-	1.08"	-	-	SKG-12L	15K	7
BT50-SK10-165	SK10	0.035 - 0.394"	SKL-10	165	6.50"	3.18"	4.76"	1.08"	1.26"	1.97"	SKG-12L	10K	10
BT50-SK10-200	SK10	0.035 - 0.394"	SKL-10	200	7.87"	2.93"	-	1.08"	-	-	SKG-12L	2.4K	9
BT50-SK13-250	SK13	0.108 - 0.512"	016-SPAN	250	9.84"	3.62"	-	1.30"	-	-	SKG-15	2.4K	9
BT50-SK16-105	SK16	0.108 - 0.63"	9HC16	105	4.13"	2.63"	-	1.58"	-	-	SKG-18L	15K	7
BT50-SK16-135	SK16	0.108 - 0.63"	9HC16	135	5.31"	3.78"	-	1.58"	-	-	SKG-18L	10K	7
BT50-SK16-165	SK16	0.108 - 0.63"	9HC16	165	6.50"	3.73"	-	1.58"	1.97"	-	SKG-18L	10K	8
BT50-SK16-200	SK16	0.108 - 0.63"	9HC16	200	7.87"	3.59"	-	1.58"	-	-	SKG-18L	2.4K	9
BT50-SK25-105	SK25	0.188 - 1.000"	9HC22	105	4.13"	2.63"	-	2.17"	-	-	SKG-28	15K	7
BT50-SK25-165	SK25	0.188 - 1.000"	9HC22	165	6.50"	4.99"	-	2.17"	-	-	SKG-28	10K	7
BT50-SK25-200	SK25	0.188 - 1.000"	9HC22	200	7.87"	6.35"	-	2.17"	-	-	SKG-28	2.4K	7



SK Collets  
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Wrenches  
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Back-up Screw  
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Coolant-thru Nuts  
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## BT SK COLLET CHUCKS - HIGH-SPEED

### BT30 - HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
BT30-SK6-60P	SK6	0.028-0.25"	GH6	60	2.36"	1.49"	0.78"	-	SKG-8	30K	7
BT30-SK6-90P	SK6	0.028-0.25"	GH6	90	3.54"	2.47"	0.78"	1.26"	SKG-8	30K	8
BT30-SK6-120P	SK6	0.028-0.25"	GH6	120	4.72"	2.61"	0.78"	1.26"	SKG-8	30K	8
BT30-SK10-45P	SK10	0.035-0.394"	GH10	45	1.77"	0.90"	1.08"	-	SKG-12S	30K	7
BT30-SK10-60P	SK10	0.035-0.394"	GH10	60	2.36"	1.50"	1.08"	-	SKG-12L	30K	7
BT30-SK10-90P	SK10	0.035-0.394"	GH10	90	3.54"	2.67"	1.08"	-	SKG-12L	30K	7
BT30-SK13-90P	SK13	0.108-0.512"	GH12	90	3.54"	2.69"	1.32"	-	SKG-15	30K	7
BT30-SK16-60P	SK16	0.108-0.63"	GH16	60	2.36"	1.50"	1.59"	-	SKG-12L	30K	7
BT30-SK16-90P	SK16	0.108-0.63"	GH16	90	3.54"	2.67"	1.59"	-	SKG-12	30K	7
BT30-SK16-120P	SK16	0.108-0.63"	GH16	120	4.72"	3.83"	1.59"	-	SKG-18L	25K	7
BT30-SK20-60P	SK20	0.138-0.787"	GH20	60	2.36"	1.49"	1.91"	-	SKG-12S	30K	7
BT30-SK20-90P	SK20	0.138-0.787"	GH20	90	3.54"	2.67"	1.91"	-	SKG-12	25K	7
BT30-SK25-90P	SK25	0.188-1.000"	GH25	90	3.54"	2.67"	2.17"	-	SKG-12	15K	7

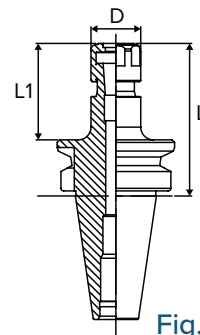


Fig. 7

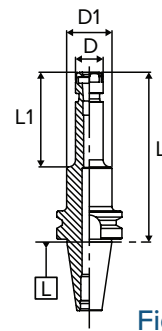


Fig. 8

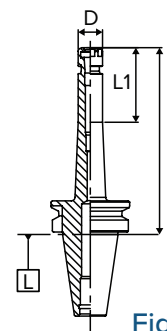


Fig. 9

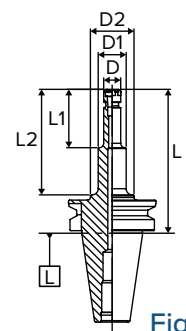


Fig. 10

### BT40 - HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
BT40-SK6-90P	SK6	0.028-0.25"	GH6	90	3.54"	2.28"	0.78"	1.26"	SKG-8	30K	8
BT40-SK6-120P	SK6	0.028-0.25"	GH6	120	4.72"	2.63"	0.78"	1.26"	SKG-8	30K	8
BT40-SK6-150P	SK6	0.028-0.25"	GH6	150	5.91"	2.35"	0.78"	-	SKG-8	30K	9
BT40-SK10-60P	SK10	0.035-0.394"	GH10	60	2.36"	1.32"	1.08"	-	SKG-12L	30K	7
BT40-SK10-90P	SK10	0.035-0.394"	GH10	90	3.54"	2.16"	1.08"	1.58"	SKG-12L	30K	8
BT40-SK10-120P	SK10	0.035-0.394"	GH10	120	4.72"	3.14"	1.08"	1.58"	SKG-12L	30K	8
BT40-SK10-150P	SK10	0.035-0.394"	GH10	150	5.91"	2.87"	1.08"	-	SKG-12L	30K	9
BT40-SK16-60P	SK16	0.108-0.63"	GH16	60	2.36"	1.27"	1.59"	-	SKG-18S	25K	7
BT40-SK16-90P	SK16	0.108-0.63"	GH16	90	3.54"	2.47"	1.59"	-	SKG-18L	25K	7
BT40-SK16-120P	SK16	0.108-0.63"	GH16	120	4.72"	3.65"	1.59"	-	SKG-18L	25K	7
BT40-SK16-150P	SK16	0.108-0.63"	GH16	150	5.91"	4.84"	1.59"	-	SKG-18L	25K	7
BT40-SK25-75P	SK25	0.188-1.000"	GH25	75	2.95"	1.88"	2.17"	-	SKG-12	20K	7
BT40-SK25-90P	SK25	0.188-1.000"	GH25	90	3.54"	2.47"	2.17"	-	SKG-28	20K	7
BT40-SK25-120P	SK25	0.188-1.000"	GH25	120	4.72"	3.65"	2.17"	-	SKG-28	20K	7

### BT50 - HIGH-SPEED

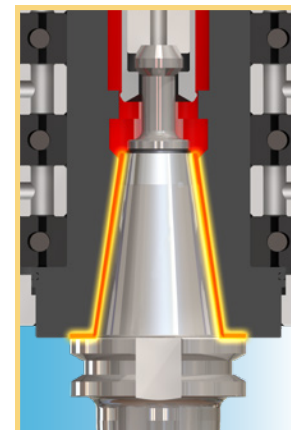
Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
BT50-SK6-165P	SK6	0.028-0.25"	GH6	165	6.50"	2.63"	4.76"	0.78"	1.26"	1.97"	SKG-8	20K	10
BT50-SK10-105P	SK10	0.035-0.394"	GH10	105	4.13"	2.63"	-	1.08"	-	-	SKG-12L	20K	7
BT50-SK10-165P	SK10	0.035-0.394"	GH10	165	6.50"	3.18"	4.76"	1.08"	1.26"	1.97"	SKG-12L	20K	10
BT50-SK16-105P	SK16	0.108-0.63"	GH16	105	4.13"	2.63"	-	1.59"	-	-	SKG-18L	20K	7
BT50-SK16-165P	SK16	0.108-0.63"	GH16	165	6.50"	3.73"	-	1.59"	1.97"	-	SKG-18L	20K	8
BT50-SK25-105P	SK25	0.188-1.000"	GH25	105	4.13"	2.63"	-	2.17"	-	-	SKG-28	15K	7
BT50-SK25-165P	SK25	0.188-1.000"	GH25	165	6.50"	4.99"	-	2.17"	-	-	SKG-28	15K	7

Note: Wrench and back-up screw not included.



Available in **TAPER PLUS**  
Dual-taper and flange contact  
See pages 22-23

**TAPER PLUS+**  
COMBINING TAPER ACCURACY  
WITH FLANGE RIGIDITY!



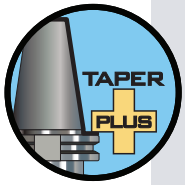
- Outstanding Runout Accuracy for longer tool life
- Vibration Dampening for increased productivity
- High Rigidity for smooth and stable cutting





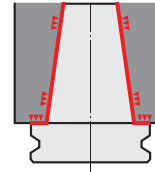
# SK COLLET CHUCKS

## TAPER PLUS BT SK COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



SK COLLET CHUCKS

### TAPER PLUS - BT30 SK6/10/13/16/20/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
NBT30-SK6C-60	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.49"	0.77"	-	SKG6-6HG	15K	7
NBT30-SK6C-90	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.46"	0.77"	1.26"	SKG6-6HG	15K	8
NBT30-SK6C-120	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.63"	0.77"	1.26"	SKG6-6HG	15K	8
NBT30-SK10C-45	SK10	0.035 - 0.394"	SKL-10	45	1.77"	0.90"	1.08"	-	SKG10-10HG	15K	7
NBT30-SK10C-60	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.49"	1.08"	-	SKG10-10HG	15K	7
NBT30-SK10C-75	SK10	0.035 - 0.394"	SKL-10	75	2.95"	2.08"	1.08"	-	SKG10-10HG	15K	7
NBT30-SK10C-90	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.67"	1.08"	-	SKG10-10HG	15K	7
NBT30-SK10C-120	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.85"	1.08"	-	SKG10-10HG	15K	7
NBT30-SK13C-60	SK13	0.108 - 0.512"	016-SPAN	60	2.36"	1.50"	1.30"	-	SKG13-10HG	15K	7
NBT30-SK13C-90	SK13	0.108 - 0.512"	016-SPAN	90	3.54"	2.69"	1.30"	-	SKG13-10HG	15K	7
NBT30-SK13C-120	SK13	0.108 - 0.512"	016-SPAN	120	4.72"	3.86"	1.30"	-	SKG13-10HG	15K	7
NBT30-SK16C-60	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.49"	1.58"	-	SKG16-12HGE	15K	7
NBT30-SK16C-75	SK16	0.108 - 0.63"	9HC16	75	2.95"	2.08"	1.58"	-	SKG16-10HG	15K	7
NBT30-SK16C-90	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.65"	1.58"	-	SKG16-12HG	15K	7
NBT30-SK16C-120	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.85"	1.58"	-	SKG16-12HG	15K	7
NBT30-SK20-60	SK20	0.138 - 0.787"	9HC22	60	2.36"	1.49"	1.91"	-	SKG-12S	15K	7
NBT30-SK20C-75	SK20	0.138 - 0.787"	9HC22	75	2.95"	2.08"	1.91"	-	SKG20-12HGE	15K	7
NBT30-SK20C-90	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.67"	1.91"	-	SKG20-12HG	15K	7
NBT30-SK25-90	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.67"	2.17"	-	SKG-12	15K	7

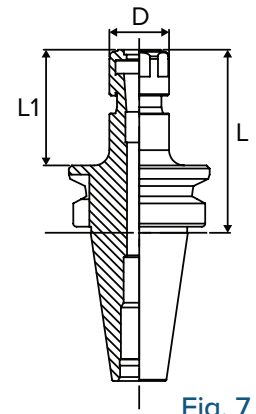


Fig. 7

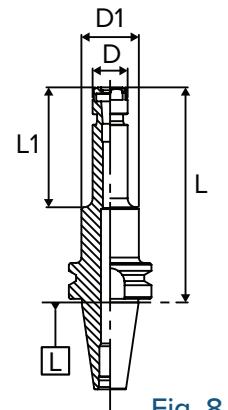


Fig. 8



SK Collets  
Pages 32-39



Wrenches  
Page 40

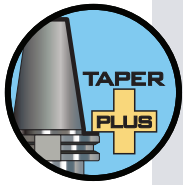


Back-up Screw  
Page 41



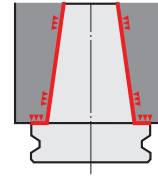
Coolant-thru Nuts  
Pages 37-39

## TAPER PLUS BT SLIM CHUCK COOLANT HIGH-SPEED



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT30 SK6/10/13/16/20/25-P

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
NBT30-SK6C-60P	SK6	0.028 - 0.25"	GH6	60	2.36"	1.49"	0.78"	-	SKG6-6HG	30K	7
NBT30-SK6C-90P	SK6	0.028 - 0.25"	GH6	90	3.54"	2.47"	0.78"	1.26"	SKG6-6HG	30K	8
NBT30-SK6C-120P	SK6	0.028 - 0.25"	GH6	120	4.72"	2.64"	0.78"	1.26"	SKG6-6HG	30K	8
NBT30-SK10C-45P	SK10	0.035 - 0.394"	GH10	45	1.77"	0.90"	1.08"	-	SKG10-10HG	30K	7
NBT30-SK10C-60P	SK10	0.035 - 0.394"	GH10	60	2.36"	1.49"	1.08"	-	SKG10-10HG	30K	7
NBT30-SK10C-75P	SK10	0.035 - 0.394"	GH10	75	2.95"	2.08"	1.08"	-	SKG10-10HG	30K	7
NBT30-SK10C-90P	SK10	0.035 - 0.394"	GH10	90	3.54"	2.67"	1.08"	-	SKG10-10HG	30K	7
NBT30-SK10C-120P	SK10	0.035 - 0.394"	GH10	120	4.72"	3.88"	1.08"	-	SKG10-10HG	30K	7
NBT30-SK13C-60P	SK13	0.028 - 0.25"	GH12	60	2.36"	1.50"	1.32"	-	SKG13-10HG	30K	7
NBT30-SK13C-90P	SK13	0.028 - 0.25"	GH12	90	3.54"	2.69"	1.32"	-	SKG13-10HG	30K	7
NBT30-SK13C-120P	SK13	0.028 - 0.25"	GH12	120	4.72"	3.87"	1.32"	-	SKG13-10HG	30K	7
NBT30-SK16C-60P	SK16	0.108 - 0.63"	GH16	60	2.36"	1.49"	1.59"	-	SKG16-12HGE	25K	7
NBT30-SK16C-75P	SK16	0.108 - 0.63"	GH16	75	2.95"	2.08"	1.59"	-	SKG16-10HG	25K	7
NBT30-SK16C-90P	SK16	0.108 - 0.63"	GH16	90	3.54"	2.67"	1.59"	-	SKG16-12HG	25K	7
NBT30-SK16C-120P	SK16	0.108 - 0.63"	GH16	120	4.72"	3.83"	1.59"	-	SKG16-12HG	25K	7
NBT30-SK20-60P	SK20	0.138 - 0.787"	GH20	60	2.36"	1.49"	1.91"	-	SKG-12S	25K	7
NBT30-SK20C-75P	SK20	0.138 - 0.787"	GH20	75	2.95"	2.08"	1.91"	-	SKG20-12HGE	25K	7
NBT30-SK20C-90P	SK20	0.138 - 0.787"	GH20	90	3.54"	2.67"	1.91"	-	SKG20-12HG	25K	7
NBT30-SK25-90P	SK25	0.188 - 1.000"	GH25	90	3.54"	2.67"	2.17"	-	SKG-12	20K	7

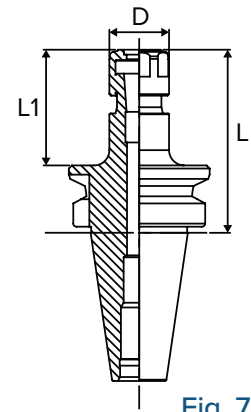


Fig. 7

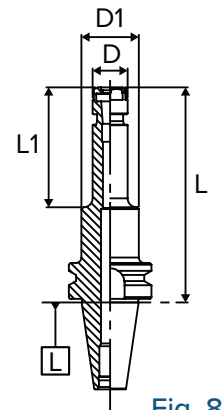
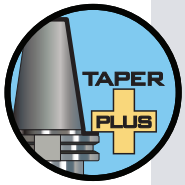


Fig. 8



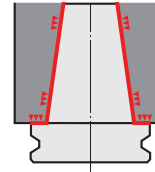
# SK COLLET CHUCKS

## TAPER PLUS BT SLIM CHUCK COOLANT



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



SK COLLET CHUCKS

### TAPER PLUS - BT40 SK6/10/13/16/25

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
NBT40-SK6C-60	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.29"	0.77"	0.77"	SKG6-6HG	15K	7
NBT40-SK6C-90	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.28"	0.77"	1.26"	SKG6-6HG	15K	8
NBT40-SK6C-120	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.63"	0.77"	1.26"	SKG6-6HG	15K	8
NBT40-SK6C-150	SK6	0.028 - 0.25"	SKL-6W	150	5.91"	2.35"	0.77"	-	SKG6-6HG	10K	9
NBT40-SK10C-60	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.29"	1.08"	-	SKG10-10HG	15K	7
NBT40-SK10C-75	SK10	0.035 - 0.394"	SKL-10	75	2.95"	1.88"	1.08"	-	SKG10-10HG	15K	7
NBT40-SK10C-90	SK10	0.035 - 0.394"	SKL-10	90	3.54"	1.89"	1.08"	1.58"	SKG10-10HG	15K	8
NBT40-SK10C-120	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.14"	1.08"	1.58"	SKG10-10HG	15K	8
NBT40-SK10C-150	SK10	0.035 - 0.394"	SKL-10	150	5.91"	2.87"	1.08"	-	SKG10-10HG	10K	9
NBT40-SK10C-180	SK10	0.035 - 0.394"	SKL-10	180	7.09"	2.87"	1.08"	-	SKG10-10HG	10K	9
NBT40-SK10C-200	SK10	0.035 - 0.394"	SKL-10	200	7.87"	2.87"	1.08"	-	SKG10-10HG	2.4K	9
NBT40-SK10C-250	SK10	0.035 - 0.394"	SKL-10	250	9.84"	2.87"	1.08"	-	SKG10-10HG	2.4K	9
NBT40-SK13C-60	SK13	0.108 - 0.512"	016-SPAN	60	2.36"	1.30"	1.30"	-	SKG13-10HG	15K	7
NBT40-SK13C-75	SK13	0.108 - 0.512"	016-SPAN	75	2.95"	1.89"	1.30"	-	SKG13-10HG	15K	7
NBT40-SK16C-60	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.29"	1.58"	-	SKG16-10HG	15K	7
NBT40-SK16C-75	SK16	0.108 - 0.63"	9HC16	75	2.95"	1.88"	1.58"	-	SKG16-12HG	15K	7
NBT40-SK16C-90	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.47"	1.58"	-	SKG16-12HG	15K	7
NBT40-SK16C-120	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.65"	1.58"	-	SKG16-12HG	15K	7
NBT40-SK16C-150	SK16	0.108 - 0.63"	9HC16	150	5.91"	4.84"	1.58"	-	SKG16-12HG	10K	7
NBT40-SK16C-180	SK16	0.108 - 0.63"	9HC16	180	7.09"	6.02"	1.58"	-	SKG16-12HG	10K	7
NBT40-SK16C-200	SK16	0.108 - 0.63"	9HC16	200	7.87"	6.80"	1.58"	-	SKG16-12HG	2.4K	7
NBT40-SK16C-250	SK16	0.108 - 0.63"	9HC16	250	9.84"	8.77"	1.58"	-	SKG16-12HG	2.4K	7
NBT40-SK25C-75	SK25	0.188 - 1.000"	9HC22	75	2.95"	1.88"	2.17"	-	SKG25-18HGE	15K	7
NBT40-SK25C-90	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.47"	2.17"	-	SKG25-18HGD	15K	7
NBT40-SK25C-120	SK25	0.188 - 1.000"	9HC22	120	4.72"	3.65"	2.17"	-	SKG25-24HG	15K	7

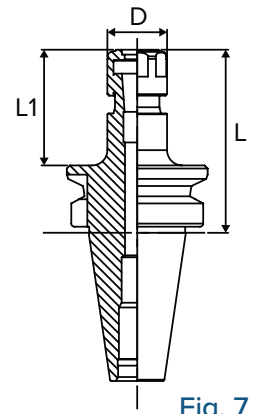


Fig. 7

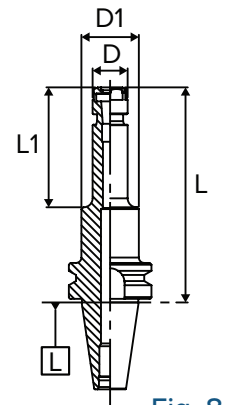


Fig. 8

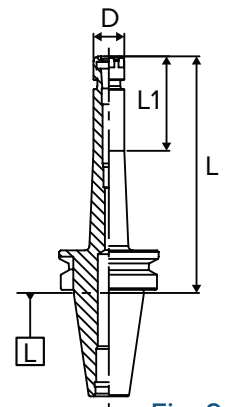


Fig. 9



SK Collets  
Pages 32-39



Wrenches  
Page 40

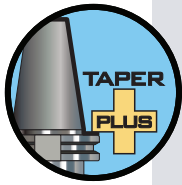


Back-up Screw  
Page 41



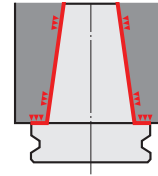
Coolant-thru Nuts  
Pages 37-39

## TAPER PLUS BT SLIM CHUCK COOLANT HIGH-SPEED



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT40 SK6/10/13/16/25-P

Part Number	Collet Series	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
NBT40-SK6C-60P	SK6	0.028 - 0.25"	GH6	60	2.36"	1.29"	0.78"	-	SKG6-6HG	30K	7
NBT40-SK6C-90P	SK6	0.028 - 0.25"	GH6	90	3.54"	2.28"	0.78"	1.26"	SKG6-6HG	30K	8
NBT40-SK6C-120P	SK6	0.028 - 0.25"	GH6	120	4.72"	2.63"	0.78"	1.26"	SKG6-6HG	30K	8
NBT40-SK6C-150P	SK6	0.028 - 0.25"	GH6	150	5.91"	2.35"	0.78"	-	SKG6-6HG	30K	9
NBT40-SK10C-60P	SK10	0.035 - 0.394"	GH10	60	2.36"	1.29"	1.08"	-	SKG10-10HG	30K	7
NBT40-SK10C-75P	SK10	0.035 - 0.394"	GH10	75	2.95"	1.88"	1.08"	-	SKG10-10HG	30K	7
NBT40-SK10C-90P	SK10	0.035 - 0.394"	GH10	90	3.54"	2.16"	1.08"	1.58"	SKG10-10HG	30K	8
NBT40-SK10C-120P	SK10	0.035 - 0.394"	GH10	120	4.72"	3.14"	1.08"	1.58"	SKG10-10HG	30K	8
NBT40-SK10C-150P	SK10	0.035 - 0.394"	GH10	150	5.91"	2.87"	1.08"	-	SKG10-10HG	30K	9
NBT40-SK13C-75P	SK13	0.108 - 0.512"	GH12	75	2.95"	1.90"	1.32"	-	SKG13-10HG	30K	7
NBT40-SK16C-60P	SK16	0.108 - 0.63"	GH16	60	2.36"	1.30"	1.59"	-	SKG16-10HG	25K	7
NBT40-SK16C-75P	SK16	0.108 - 0.63"	GH16	75	2.95"	1.88"	1.59"	-	SKG16-12HG	25K	7
NBT40-SK16C-90P	SK16	0.108 - 0.63"	GH16	90	3.54"	2.47"	1.59"	-	SKG16-12HG	25K	7
NBT40-SK16C-120P	SK16	0.108 - 0.63"	GH16	120	4.72"	3.65"	1.59"	-	SKG16-12HG	25K	7
NBT40-SK16C-150P	SK16	0.108 - 0.63"	GH16	150	5.91"	4.84"	1.59"	-	SKG16-12HG	25K	7
NBT40-SK25C-75P	SK25	0.188 - 1.000"	GH25	75	2.95"	1.88"	2.17"	-	SKG25-18HGE	20K	7
NBT40-SK25C-90P	SK25	0.188 - 1.000"	GH25	90	3.54"	2.47"	2.17"	-	SKG25-18HGD	20K	7
NBT40-SK25C-120P	SK25	0.188 - 1.000"	GH25	120	4.72"	3.65"	2.17"	-	SKG25-24HG	20K	7

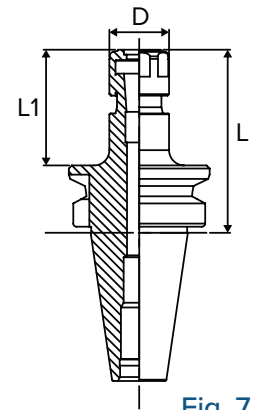


Fig. 7

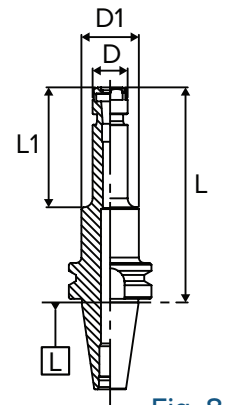


Fig. 8

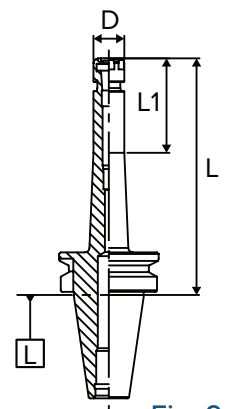


Fig. 9



# SK COLLET CHUCKS

## HSK SK COLLET CHUCKS

### FEATURES

- Feature TiN Bearing Nut which considerably improves cutting rigidity and finish
- Narrow body allows access to tight spaces and hard to reach areas
- Unique high-pressure coolant collet system for higher accuracy and gripping torque
- 8° taper SK collet provides double the clamping force and precision than ER Collet Chucks
- Coolant Collets are steel-sealed and mechanically sealed by design.



**T.I.R.**  
≤0.0002" at 4xD



**Speed**  
Up to 50,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK63A

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
HSK63A-SK6C-100-IDU	SK6	0.028 - 0.25"	SKL-6W	100	3.94"	2.64"	0.77"	1.26"	SKG6-6HG	20K	11
HSK63A-SK6C-120-IDU	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	2.64"	0.77"	1.26"	SKG6-6HG	20K	11
HSK63A-SK6C-150-IDU	SK6	0.028 - 0.25"	SKL-6W	150	5.91"	2.39"	0.77"	-	SKG6-6HG	10K	12
HSK63A-SK10C-105-IDU	SK10	0.035 - 0.394"	SKL-10	105	4.13"	3.12"	1.08"	-	SKG10-10HGA	20K	13
HSK63A-SK10C-120-IDU	SK10	0.035 - 0.394"	SKL-10	120	4.72"	2.61"	1.08"	1.26"	SKG10-10HGA	20K	11
HSK63A-SK10C-150-IDU	SK10	0.035 - 0.394"	SKL-10	150	5.91"	2.87"	1.08"	-	SKG10-10HGA	15K	12
HSK63A-SK16C-120-IDU	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.67"	1.58"	-	SKG16-10HGA	20K	13
HSK63A-SK16C-150-IDU	SK16	0.108 - 0.630"	9HC16	150	5.91"	4.85"	1.58"	-	SKG16-10HGA	15K	13
HSK63A-SK25C-135-IDU	SK25	0.188 - 1.000"	9HC22	135	5.31"	4.29"	2.17"	-	SKG25-24HGE	10K	13

Note:

- Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately.
- "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

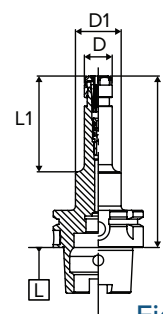


Fig. 11

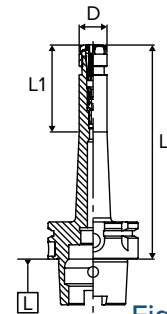


Fig. 12

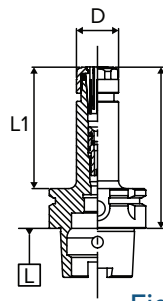


Fig. 13

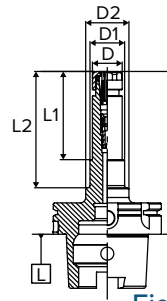


Fig. 14

### HSK100A

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
HSK100A-SK6C-105-IDU	SK6	0.028 - 0.25"	SKL-6W	105	4.13"	2.61"	-	0.77"	1.58"	-	SKG6-6HG	15K	11
HSK100A-SK10C-105-IDU	SK10	0.035 - 0.394"	SKL-10	105	4.13"	2.46"	-	1.08"	1.58"	-	SKG10-10HGA	15K	11
HSK100A-SK10C-120-IDU	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.05"	-	1.08"	1.58"	-	SKG10-10HGA	15K	11
HSK100A-SK10C-150-IDU	SK10	0.035 - 0.394"	SKL-10	150	5.91"	3.21"	4.24"	1.08"	1.26"	1.58"	SKG10-10HGA	15K	14
HSK100A-SK10C-200-IDU	SK10	0.035 - 0.394"	SKL-10	200	7.87"	2.98"	-	1.08"	-	-	SKG10-10HGA	15K	12
HSK100A-SK16C-120-IDU	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.55"	-	1.58"	-	-	SKG16-10HGA	15K	13
HSK100A-SK16C-150-IDU	SK16	0.108 - 0.63"	9HC16	150	5.91"	3.71"	-	1.58"	1.97"	-	SKG16-12HGBA	10K	11
HSK100A-SK16C-200-IDU	SK16	0.108 - 0.63"	9HC16	200	7.87"	3.51"	-	1.58"	-	-	SKG16-12HGBA	2.4K	12
HSK100A-SK20C-120-IDU	SK20	0.035 - 0.394"	9HC22	120	4.72"	3.58"	-	1.91"	-	-	SKG20-18HG	15K	13
HSK100A-SK25C-145-IDU	SK25	0.630 - 1.000"	9HC22	145	5.71"	4.56"	-	2.17"	-	-	SKG25-24HGE	15K	13

Note: Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately.

### COOLANT TUBE WRENCH FOR HSK HOLDERS

Part Number	Description
HSK40-WRENCH	Wrench for HSK40 Coolant Tube
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube



### COOLANT TUBE FOR HSK HOLDERS

Part Number	Description
HSK40-TUBE	Coolant Tube for HSK40 holder
HSK63-TUBE	Coolant Tube for HSK63 holder
HSK100-TUBE	Coolant Tube for HSK100 holder



Note: Coolant Tube Wrenches are needed to remove or install coolant tubes in HSK toolholders.



SK Collets  
Pages 32-39



Wrenches  
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Back-up Screw  
Page 41



Coolant-thru Nuts  
Pages 37-39

## HSK SK COLLET CHUCKS - HIGH-SPEED

### HSK32E HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
<b>HSK32E-SK6-50P</b>	SK6	0.028 - 0.25"	GH6	50	1.97"	1.17"	0.78"	50K	15
<b>HSK32E-SK10-60P</b>	SK10	0.035 - 0.394"	GH10	60	2.36"	1.57"	1.08"	50K	15

Note: Wrench and back-up screw not included.  
Coolant tube and coolant tube wrench are sold separately. See page 27 for details.

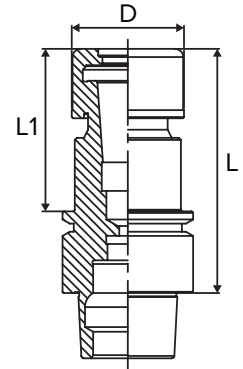


Fig. 15

### HSK40E HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
<b>HSK40E-SK6-60P</b>	SK6	0.028 - 0.25"	GH6	60	2.36"	1.57"	0.78"	40K	15
<b>HSK40E-SK10-60P</b>	SK10	0.035 - 0.394"	GH10	60	2.36"	1.59"	1.08"	40K	15
<b>HSK40E-SK16-80P</b>	SK16	0.108 - 0.63"	GH16	80	3.15"	2.35"	1.59"	30K	15

Note: Wrench and back-up screw not included.  
Coolant tube and coolant tube wrench are sold separately. See page 27 for details.



### HSK63A HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	D1	Back-Up Screw	Max. RPM	Fig.
<b>HSK63A-SK6C-100P-IDU</b>	SK6	0.028 - 0.25"	GH6	100	3.94"	2.64"	0.78"	1.26"	SKG6-6HG	30K	11
<b>HSK63A-SK6C-120P-IDU</b>	SK6	0.028 - 0.25"	GH6	120	4.72"	2.64"	0.78"	1.26"	SKG6-6HG	30K	11
<b>HSK63A-SK6C-150P-IDU</b>	SK6	0.028 - 0.25"	GH6	150	5.91"	2.40"	0.78"	-	SKG6-6HG	30K	12
<b>HSK63A-SK10C-105P-IDU</b>	SK10	0.035 - 0.394"	GH10	105	4.13"	3.11"	1.08"	-	SKG10-10HG	30K	13
<b>HSK63A-SK10C-120P-IDU</b>	SK10	0.035 - 0.394"	GH10	120	4.72"	2.61"	1.08"	1.26"	SKG10-10HG	30K	11
<b>HSK63A-SK10C-150P-IDU</b>	SK10	0.035 - 0.394"	GH10	150	5.91"	2.89"	1.08"	-	SKG10-10HG	30K	12
<b>HSK63A-SK16C-120P-IDU</b>	SK16	0.108 - 0.63"	GH16	120	4.72"	3.70"	1.59"	-	SKG13-10HG	25K	13
<b>HSK63A-SK16C-150P-IDU</b>	SK16	0.108 - 0.63"	GH12	150	5.91"	4.85"	1.59"	-	SKG13-10HG	25K	13
<b>HSK63A-SK25C-135P-IDU</b>	SK25	0.188 - 1.000"	GH25	135	5.31"	4.28"	1.59"	-	SKG25-24HGE	20K	13

Note:

- Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately. See page 27 for details.
- "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

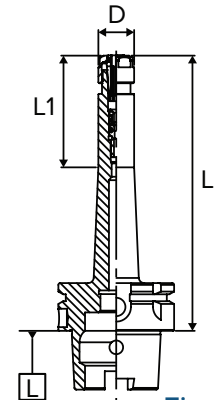


Fig. 12



## HSK SK COLLET CHUCKS - HIGH-SPEED

### HSK63F HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	Back-Up Screw	Max. RPM	Fig.
HSK63F-SK10C-105P	SK10	0.035 - 0.394"	GH10	105	4.13"	3.10"	1.08"	SKG10-10HGAG	30K	15
HSK63F-SK16C-120P	SK16	0.108 - 0.63"	GH16	120	4.72"	3.69"	1.59"	SKG16-12HGBA	30K	15

Note: Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately. See page 27 for details.

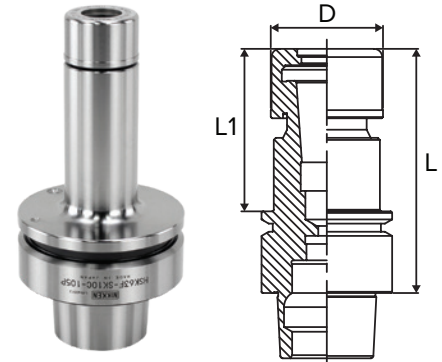


Fig. 15

### HSK100A HIGH-SPEED

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	Back-Up Screw	Max. RPM	Fig.
HSK100A-SK10C-105P-IDU	SK10	0.035 - 0.394"	GH10	105	4.13"	2.46"	-	1.08"	1.58"	-	SKG10-10HGA	20K	11
HSK100A-SK10C-120P-IDU	SK10	0.035 - 0.394"	GH10	120	4.72"	3.05"	-	1.08"	1.58"	-	SKG10-10HGA	20K	11
HSK100A-SK10C-150P-IDU	SK10	0.035 - 0.394"	GH10	150	5.91"	3.18"	4.21"	1.08"	1.26"	1.58"	SKG10-10HGA	20K	14
HSK100A-SK16C-120P-IDU	SK16	0.108 - 0.63"	GH16	120	4.72"	3.56"	-	1.59"	-	-	SKG16-10HGA	20K	13
HSK100A-SK25C-145P-IDU	SK25	0.188 - 1.000"	GH25	145	5.71"	4.56"	-	2.17"	-	-	SKG25-24HGE	15K	13

Note:

- Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately. See page 27 for details.
- "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

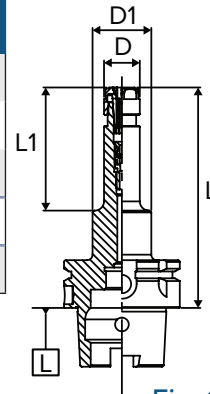


Fig. 11

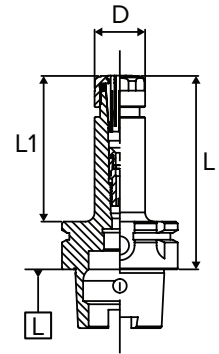


Fig. 13

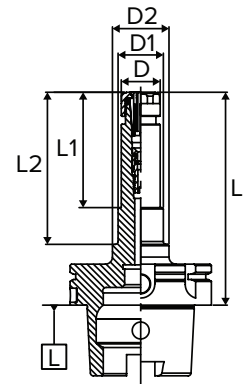


Fig. 14



## STRAIGHT SHANK SK COLLET CHUCKS

### FEATURES

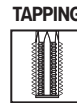
- Feature TiN Bearing Nut which considerably improves cutting rigidity and finish
- Narrow body allows access to tight spaces and hard to reach areas
- Unique high-pressure coolant collet system for higher accuracy and gripping torque
- 8° taper SK collet provides double the clamping force and precision than ER Collet Chucks
- Coolant Collets are steel-sealed and mechanically sealed by design.



**T.I.R.**  
≤0.0002" at 4xD



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### STRAIGHT SHANK

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	L2	D	D1	D2	D3	Back-Up Screw	Fig.
<b>K3/4-SK10-100</b>	SK10	0.035 - 0.394"	SKL-10	100	3.94"	1.77"	-	0.75"	1.08"	-	-	SKG-12L	16
<b>K3/4-SK10-120</b>	SK10	0.035 - 0.394"	SKL-10	120	4.72"	2.56"	-	0.75"	1.08"	-	-	SKG-12L	16
<b>K1.1/4-SK6-120</b>	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	1.96"	2.28"	1.25"	0.77"	1.26"	1.46"	SKG-8	17
<b>K1.1/4-SK6-170</b>	SK6	0.028 - 0.25"	SKL-6W	170	6.69"	2.47"	4.24"	1.25"	0.77"	1.46"	-	SKG-8	18
<b>K1.1/4-SK10-120</b>	SK10	0.035 - 0.394"	SKL-10	120	4.72"	1.88"	2.28"	1.25"	1.08"	1.26"	1.46"	SKG-12L	17
<b>K1.1/4-SK10-150</b>	SK10	0.035 - 0.394"	SKL-10	150	5.91"	3.06"	3.46"	1.25"	1.08"	1.26"	1.46"	SKG-12L	17
<b>K1.1/4-SK10-210</b>	SK10	0.035 - 0.394"	SKL-10	210	8.27"	2.95"	5.82"	1.25"	1.08"	1.46"	-	SKG-12L	18
<b>K1.1/4-SK16-120</b>	SK16	0.108 - 0.63"	9HC16	120	4.72"	2.25"	-	1.25"	1.58"	-	-	SKG-18L	16
<b>K1.1/4-SK16-150</b>	SK16	0.108 - 0.63"	9HC16	150	5.91"	3.43"	-	1.25"	1.58"	-	-	SKG-18L	16
<b>K1.1/4-SK16-210</b>	SK16	0.108 - 0.63"	9HC16	210	8.27"	5.79"	-	1.25"	1.58"	-	-	SKG-18L	16
<b>K1.1/4-SK25-150</b>	SK25	0.630 - 1.000"	9HC22	150	5.91"	3.46"	-	1.25"	2.17"	-	-	SKG-18L	16
<b>K25-SK6-130</b>	SK6	0.028 - 0.25"	SKL-6W	130	5.12"	2.43"	2.75"	0.98"	0.77"	1.18"	-	SKG-8	18
<b>K25-SK10-150</b>	SK10	0.035 - 0.394"	SKL-10	150	5.91"	3.36"	3.56"	0.98"	1.08"	1.18"	-	SKG-12L	18
<b>S25-SK10-250</b>	SK10	0.035 - 0.394"	SKL-10	250	9.84"	1.06"	-	0.98"	1.08"	-	-	SKG-12L	16
<b>S25-SK10-300</b>	SK10	0.035 - 0.394"	SKL-10	300	11.81"	1.03"	-	0.98"	1.08"	-	-	SKG-12L	16
<b>K32-SK6-120</b>	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	1.96"	2.28"	1.26"	0.77"	1.26"	1.46"	SKG-8	17
<b>K32-SK6-170</b>	SK6	0.028 - 0.25"	SKL-6W	170	6.69"	2.48"	4.25"	1.26"	0.77"	1.46"	-	SKG-8	18
<b>K32-SK10-120</b>	SK10	0.035 - 0.394"	SKL-10	120	4.72"	1.89"	2.28"	1.26"	1.08"	1.26"	1.56"	SKG-12L	17
<b>K32-SK10-210</b>	SK10	0.035 - 0.394"	SKL-10	210	8.27"	2.98"	5.85"	1.26"	1.08"	1.46"	-	SKG-12L	18
<b>K32-SK16-120</b>	SK16	0.108 - 0.63"	9HC16	120	4.72"	2.28"	-	1.26"	1.58"	-	-	SKG-18L	16
<b>K32-SK16-210</b>	SK16	0.108 - 0.63"	9HC16	210	8.27"	5.80"	-	1.26"	1.58"	-	-	SKG-18L	16
<b>S32-SK16-250</b>	SK16	0.108 - 0.63"	9HC16	250	9.84"	2.25"	-	1.26"	1.58"	-	-	SKG-18L	16
<b>S32-SK16-300</b>	SK16	0.108 - 0.63"	9HC16	300	11.81"	2.25"	-	1.26"	1.58"	-	-	SKG-18L	16
<b>K32-SK20-120</b>	SK20	0.138 - 0.787"	9HC22	120	4.72"	2.28"	-	1.26"	1.91"	-	-	SKG-22	16
<b>K32-SK20-180</b>	SK20	0.138 - 0.787"	9HC22	180	7.09"	4.64"	-	1.26"	1.91"	-	-	SKG-22	16

Note: Wrench not included.

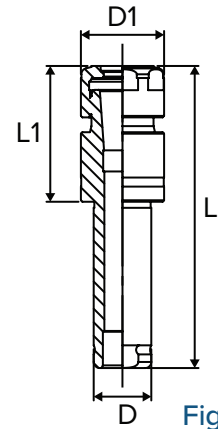


Fig. 16

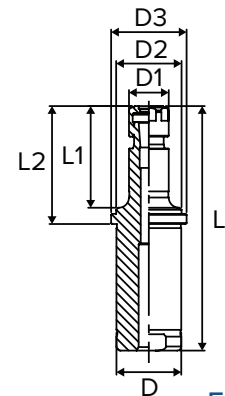


Fig. 17

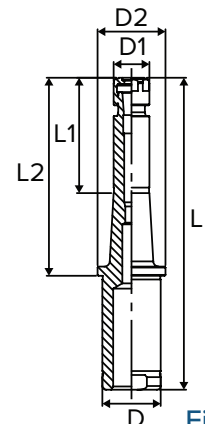


Fig. 18



SK Collets  
Pages 32-39



Wrenches  
Page 40



Back-up Screw  
Page 41



Coolant-thru Nuts  
Pages 37-39



# SK COLLET CHUCKS

## POLYGONAL TAPER SK COLLET CHUCKS

### FEATURES

- Extremely stable and rigid connection between tool and the machine
- High torque and bending forces transmission due to simultaneous tapered polygon and face contact with machine spindle
- Self centering ability due to unique design
- Internal coolant supply, directly to the tool tip
- Best solution for all processes - both in turning and milling
- Modular design for flexible tooling
- Standardized interface as per ISO 26623



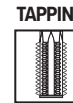
**T.I.R.**  
≤0.0002" at 4xD



**Speed**  
Up to 15,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### C4/C5/C6

Part Number	Collet Size	Collet Range	Wrench	L (mm)	L	L1	D	Back-Up Screw	Max. RPM	Fig.
C4-SK6-60-IDU	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.60"	0.77"	SKG-8	15K	19
C4-SK10-60-IDU	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.60"	1.08"	SKG-12L	15K	19
C4-SK13-60-IDU	SK13	0.108 - 0.512"	016-SPAN	60	2.36"	1.59"	1.30"	-	15K	19
C4-SK16-60-IDU	SK16	0.108 - 0.63"	9HC16	60	2.36"	-	1.58"	-	15K	20
C4-SK20-75-IDU	SK20	0.138 - 0.787"	9HC22	75	2.95"	-	1.91"	-	15K	20
C5-SK6-60-IDU	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.60"	0.77"	SKG-8	15K	19
C5-SK10-60-IDU	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.60"	1.08"	SKG-12L	15K	19
C5-SK13-60-IDU	SK13	0.108 - 0.512"	016-SPAN	60	2.36"	1.59"	1.30"	-	15K	19
C5-SK16-60-IDU	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.55"	1.58"	-	15K	19
C5-SK20-75-IDU	SK20	0.138 - 0.787"	9HC22	75	2.95"	2.16"	1.91"	-	15K	19
C5-SK25-75-IDU	SK25	0.188 - 1"	9HC22	75	2.95"	-	2.17"	-	15K	20
C6-SK6-60-IDU	SK6	0.028 - 0.25"	SKL-6W	60	2.36"	1.51"	0.77"	SKG-8	15K	19
C6-SK6-90-IDU	SK6	0.028 - 0.25"	SKL-6W	90	3.54"	2.66"	0.77"	SKG-8	15K	19
C6-SK6-120-IDU	SK6	0.028 - 0.25"	SKL-6W	120	4.72"	3.84"	0.77"	SKG-8	15K	19
C6-SK10-60-IDU	SK10	0.035 - 0.394"	SKL-10	60	2.36"	1.50"	1.08"	SKG-12L	15K	19
C6-SK10-90-IDU	SK10	0.035 - 0.394"	SKL-10	90	3.54"	2.69"	1.08"	SKG-12L	15K	19
C6-SK10-120-IDU	SK10	0.035 - 0.394"	SKL-10	120	4.72"	3.88"	1.08"	SKG-12L	15K	19
C6-SK13-60-IDU	SK13	0.108 - 0.512"	016-SPAN	60	2.36"	1.50"	1.30"	-	15K	19
C6-SK13-90-IDU	SK13	0.108 - 0.512"	016-SPAN	90	3.54"	2.68"	1.30"	SKG-15	15K	19
C6-SK13-120-IDU	SK13	0.108 - 0.512"	016-SPAN	120	4.72"	3.87"	1.30"	SKG-15	15K	19
C6-SK16-60-IDU	SK16	0.108 - 0.63"	9HC16	60	2.36"	1.47"	1.58"	-	15K	19
C6-SK16-90-IDU	SK16	0.108 - 0.63"	9HC16	90	3.54"	2.65"	1.58"	SKG-18L	15K	19
C6-SK16-120-IDU	SK16	0.108 - 0.63"	9HC16	120	4.72"	3.82"	1.58"	SKG-18L	15K	19
C6-SK20-70-IDU	SK20	0.138 - 0.787"	9HC22	70	2.76"	1.89"	1.91"	-	15K	19
C6-SK20-90-IDU	SK20	0.138 - 0.787"	9HC22	90	3.54"	2.68"	1.91"	SKG-22	15K	19
C6-SK20-120-IDU	SK20	0.138 - 0.787"	9HC22	120	4.72"	3.84"	1.91"	SKG-22	15K	19
C6-SK25-75-IDU	SK25	0.188 - 1.000"	9HC22	75	2.95"	2.08"	2.17"	-	15K	19
C6-SK25-90-IDU	SK25	0.188 - 1.000"	9HC22	90	3.54"	2.68"	2.17"	SKG-28	15K	19
C6-SK25-120-IDU	SK25	0.188 - 1.000"	9HC22	120	4.72"	3.84"	2.17"	SKG-28	15K	19

**Note:**

- Wrench and back-up screw not included. Coolant tube and coolant tube wrench are sold separately. See page 27 for details.
- "-IDU" type holders have a pre-machined counter-bore on the drive key to accept Balluff BIS-C122-04/L RFID chips (10 X 4.5mm size)

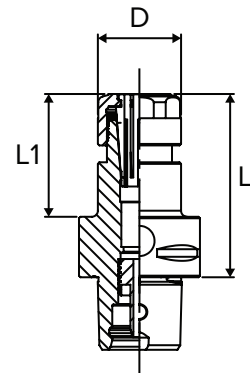


Fig. 19

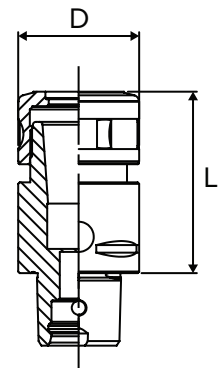


Fig. 20



SK Collets  
Pages 32-39



Wrenches  
Page 40



Back-up Screw  
Page 41



Coolant-thru Nuts  
Pages 37-39

## SK6 COLLETS

### SK6 COLLETS

Size range: 0.7mm - 6.0mm (0.028 - 0.236")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK6-0.8	0.8 - 0.7	0.031 - 0.028"
SK6-1	1 - 0.9	0.039 - 0.035"
SK6-1.25	1.25 - 1.15	0.049 - 0.045"
SK6-1.5	1.5 - 1.3	0.059 - 0.051"
SK6-1.75	1.75 - 1.55	0.069 - 0.061"
SK6-2	2 - 1.8	0.079 - 0.071"
SK6-2.25	2.25 - 2.05	0.089 - 0.081"
SK6-2.5	2.5 - 2.3	0.098 - 0.091"
SK6-2.75	2.75 - 2.55	0.108 - 0.1"
SK6-3	3 - 2.8	0.118 - 0.110"
SK6-3.5	3.5 - 3	0.138 - 0.118"
SK6-4	4 - 3.5	0.157 - 0.138"
SK6-4.5	4.5 - 4	0.177 - 0.157"
SK6-5	5 - 4.5	0.197 - 0.177"
SK6-5.5	5.5 - 5	0.217 - 0.197"
SK6-6	6 - 5.5	0.236 - 0.217"
<b>SK6-SET-16-MM</b>	0.7mm - 6mm SK6 Set	

#### INCH/METRIC ON-SIZE

Part Number	Size
SK6-1/8A	0.125"
SK6-3/16A	0.188"
SK6-1/4A	0.250"
SK6-2A	0.079"
SK6-3A	0.118"
SK6-4A	0.138"
SK6-5A	0.197"
SK6-6A	0.236"

*These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.*



### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK6-3AC	3mm
SK6-4AC	4mm
SK6-5AC	5mm
SK6-6AC	6mm

*AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.*

### INCH - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK6-1/8AC	0.125"
SK6-3/16AC	0.188"

*AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.*

### SK6 COLLET RACK

Part Number	Description
<b>RACK-ER11/SK6</b>	SK6 collet rack, 35 collets capacity



*Note: SK Collet Drill Chart available on page 291 in the Technical section.*

# SK COLLET CHUCKS

## SK10 COLLETS

### SK10 COLLETS

Size range: 1.75mm - 10.0mm (0.035 - 0.039")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK10-1	1 - 0.9	0.039 - 0.035"
SK10-1.25	1.25 - 1.15	0.049 - 0.045"
SK10-1.5	1.5 - 1.3	0.059 - 0.051"
SK10-1.75	1.75 - 1.55	0.069 - 0.061"
SK10-2	2 - 1.75	0.079 - 0.069"
SK10-2.25	2.25 - 2	0.089 - 0.079"
SK10-2.5	2.5 - 2.25	0.098 - 0.089"
SK10-2.75	2.75 - 2.5	0.098 - 0.108"
SK10-3	3 - 2.75	0.118 - 0.108"
SK10-3.5	3.5 - 3	0.138 - 0.118"
SK10-4	4 - 3.5	0.157 - 0.138"
SK10-4.5	4.5 - 4	0.177 - 0.157"
SK10-5	5 - 4.5	0.197 - 0.177"
SK10-5.5	5.5 - 5	0.217 - 0.197"
SK10-6	6.0 - 5.5	0.236 - 0.217"
SK10-6.2	6.2 - 5.7	0.2446 - 0.224"
SK10-6.5	6.5 - 6	0.256 - 0.236"
SK10-7	7 - 6.5	0.276 - 0.256"
SK10-7.5	7.5 - 7	0.295 - 0.276"
SK10-8	8 - 7.5	0.315 - 0.295"
SK10-8.5	8.5 - 8	0.335 - 0.315"
SK10-9	9 - 8.5	0.354 - 0.335"
SK10-9.5	9.5 - 9	0.374 - 0.354"
SK10-10	10 - 9.5	0.394 - 0.374"
<b>SK10-SET-19-MM</b>	1.75mm - 10mm SK10 Set	

#### INCH/METRIC ON-SIZE

Part Number	Size
SK10-1/8A	0.125"
SK10-3/16A	0.188"
SK10-1/4A	0.250"
SK10-5/16A	0.312"
SK10-3/8A	0.375"
SK10-3A	0.118"
SK10-4A	0.157"
SK10-5A	0.197"
SK10-6A	0.236"
SK10-8A	0.315"
SK10-10A	0.390"
<b>SK10-SET-05-A</b>	1/8 - 3/8" SK10 Set

These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.



#### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK10-3AC	3mm
SK10-4AC	4mm
SK10-5AC	5mm
SK10-6AC	6mm
SK10-7AC	7mm
SK10-8AC	8mm
SK10-9AC	9mm
SK10-10AC	10mm
<b>SK10-SET-08-AC-MM</b>	2.5mm - 10mm SK10 Set

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

#### INCH - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK10-1/8AC	0.125"
SK10-3/16AC	0.188"
SK10-1/4AC	0.250"
SK10-5/16AC	0.312"
SK10-3/8AC	0.375"
<b>SK10-SET-05-AC</b>	1/8 - 3/8" SK10 Set

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

#### SK10 COLLET RACK

Part Number	Description
<b>RACK-ER16/SK10</b>	SK10 collet rack, 24 collets capacity



Note: SK Collet Drill Chart available on page 291 in the Technical section.

## SK13 COLLETS

### SK13 COLLETS

Size range: 2.5mm - 13.0mm (0.098 - 0.512")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK13-3	3 - 2.8	0.118 - 0.110"
SK13-3.5	3.5 - 3	0.138 - 0.118"
SK13-4	4 - 3.5	0.157 - 0.138"
SK13-4.5	4.5 - 4	0.177 - 0.157"
SK13-5	5 - 4.5	0.197 - 0.177"
SK13-5.5	5.5 - 5	0.217 - 0.197"
SK13-6	6 - 5.5	0.236 - 0.217"
SK13-6.5	6.5 - 6	0.256 - 0.236"
SK13-7	7 - 6.5	0.276 - 0.256"
SK13-7.5	7.5 - 7	0.295 - 0.276"
SK13-8	8 - 7.5	0.315 - 0.295"
SK13-8.5	8.5 - 8	0.335 - 0.315"
SK13-9	9 - 8.5	0.354 - 0.335"
SK13-9.5	9.5 - 9	0.374 - 0.354"
SK13-10	10 - 9.5	0.394 - 0.374"
SK13-10.5	10.5 - 10	0.413 - 0.394"
SK13-11	11 - 10.5	0.433 - 0.413"
SK13-11.5	11.5 - 11	0.453 - 0.433"
SK13-12	12 - 11.5	0.472 - 0.453"
SK13-12.5	12.5 - 12	0.492 - 0.472"
SK13-13	13 - 12.5	0.512 - 0.492"
<b>SK13-SET-21-MM</b>	2.5mm - 13mm SK13 Set	

#### INCH/METRIC ON-SIZE

Part Number	Size
SK13-1/8A	0.125"
SK13-3/16A	0.188"
SK13-1/4A	0.250"
SK13-5/16A	0.312"
SK13-3/8A	0.375"
SK13-7/16A	0.438"
SK13-1/2A	0.500"
SK13-8A	0.315"
SK13-10A	0.390"
SK13-12A	0.472"
<b>SK13-SET-07-A</b>	1/8 - 1/2" SK13 Set

These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.



### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK13-4AC	4mm
SK13-5AC	5mm
SK13-6AC	6mm
SK13-7AC	7mm
SK13-8AC	8mm
SK13-9AC	9mm
SK13-10AC	10mm
SK13-11AC	11mm
SK13-12AC	12mm
SK13-13AC	13mm
<b>SK13-SET-09-AC-MM</b>	5mm - 13mm SK13 Set

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

### INCH - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK13-1/4AC	0.250"
SK13-5/16AC	0.312"
SK13-3/8AC	0.375"
SK13-7/16AC	0.438"

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

Note: SK Collet Drill Chart available on page 291 in the Technical section.

# SK COLLET CHUCKS

## SK16 COLLETS

### SK16 COLLETS

Size range: 2.75mm - 16.0mm (0.108 - 0.630")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK16-3	3 - 2.75	0.118 - 0.108"
SK16-3.5	3.5 - 3	0.138 - 0.118"
SK16-4	4 - 3.5	0.157 - 0.138"
SK16-4.5	4.5 - 4	0.177 - 0.157"
SK16-5	5 - 4.5	0.197 - 0.177"
SK16-5.5	5.5 - 5	0.217 - 0.197"
SK16-6	6 - 5.5	0.236 - 0.217"
SK16-6.5	6.5 - 6	0.256 - 0.236"
SK16-7	7 - 6.5	0.276 - 0.256"
SK16-7.5	7.5 - 7	0.295 - 0.276"
SK16-8	8 - 7.5	0.315 - 0.295"
SK16-8.5	8.5 - 8	0.335 - 0.315"
SK16-9	9 - 8.5	0.354 - 0.335"
SK16-9.5	9.5 - 9	0.374 - 0.354"
SK16-10	10 - 9.5	0.394 - 0.374"
SK16-10.5	10.5 - 10	0.413 - 0.394"
SK16-11	11 - 10.5	0.433 - 0.413"
SK16-11.5	11.5 - 11	0.453 - 0.433"
SK16-12	12 - 11.5	0.472 - 0.453"
SK16-12.5	12.5 - 12	0.492 - 0.472"
SK16-13	13 - 12.5	0.512 - 0.492"
SK16-13.5	13.5 - 13	0.531 - 0.512"
SK16-14	14 - 13.5	0.551 - 0.531"
SK16-14.5	14.5 - 14	0.571 - 0.551"
SK16-15	15 - 14.5	0.591 - 0.571"
SK16-15.5	15.5 - 15	0.61 - 0.591"
SK16-16	16 - 15.5	0.63 - 0.61"
<b>SK16-SET-27-MM</b>	2.5mm - 16mm SK16 Set	

#### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK16-6AC	6mm
SK16-7AC	7mm
SK16-8AC	8mm
SK16-9AC	9mm
SK16-10AC	10mm
SK16-11AC	11mm
SK16-12AC	12mm
SK16-13AC	13mm
SK16-14AC	14mm
SK16-15AC	15mm
SK16-16AC	16mm
<b>SK16-SET-11-AC-MM</b>	6mm - 16mm SK16 Set

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

Note: SK Collet Drill Chart available on page 291 in the Technical section.

#### INCH/METRIC ON-SIZE

Part Number	Size
SK16-1/8A	0.125"
SK16-3/16A	0.188"
SK16-1/4A	0.250"
SK16-5/16A	0.312"
SK16-3/8A	0.375"
SK16-7/16A	0.438"
SK16-1/2A	0.500"
SK16-9/16A	0.563"
SK16-5/8A	0.625"
SK16-3A	0.118"
SK16-4A	0.157"
SK16-5A	0.197"
SK16-6A	0.236"
SK16-8A	0.315"
SK16-10A	0.390"
SK16-12A	0.472"
SK16-14A	0.551"
SK16-16A	0.630"
<b>SK16-SET-09-A</b>	1/8 - 5/8" SK16 Set

These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.

#### INCH - COOLANT-THRU

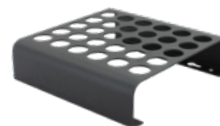
Up to 1000 psi capable.

Part Number	Size
SK16-1/4AC	0.250"
SK16-5/16AC	0.312"
SK16-3/8AC	0.375"
SK16-7/16AC	0.438"
SK16-1/2AC	0.500"
SK16-9/16AC	0.563"
SK16-5/8AC	0.625"

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

#### SK16 COLLET RACK

Part Number	Description
<b>RACK-180DA/ SK16/ER25</b>	SK16 collet rack, 30 collets capacity



## SK20 COLLETS

### SK20 COLLETS

Size range: 3.5mm - 20.00mm (0.138 - 0.787")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK20-4	4 - 3.5	0.157 - 0.138"
SK20-4.5	4.5 - 4	0.177 - 0.157"
SK20-5	5 - 4.5	0.197 - 0.177"
SK20-5.5	5.5 - 5	0.217 - 0.197"
SK20-6	6 - 5.5	0.236 - 0.217"
SK20-6.5	6.5 - 6	0.256 - 0.236"
SK20-7	7 - 6.5	0.276 - 0.256"
SK20-7.5	7.5 - 7	0.295 - 0.276"
SK20-8	8 - 7.5	0.315 - 0.295"
SK20-8.5	8.5 - 8	0.335 - 0.315"
SK20-9	9 - 8.5	0.354 - 0.335"
SK20-9.5	9.5 - 9	0.374 - 0.354"
SK20-10	10 - 9.5	0.394 - 0.374"
SK20-10.5	10.5 - 10	0.413 - 0.394"
SK20-11	11 - 10.5	0.433 - 0.413"
SK20-11.5	11.5 - 11	0.453 - 0.433"
SK20-12	12 - 11.5	0.472 - 0.453"
SK20-12.5	12.5 - 12	0.492 - 0.472"
SK20-13	13 - 12.5	0.512 - 0.492"
SK20-13.5	13.5 - 13	0.531 - 0.512"
SK20-14	14 - 13.5	0.551 - 0.531"
SK20-14.5	14.5 - 14	0.571 - 0.551"
SK20-15	15 - 14.5	0.591 - 0.571"
SK20-15.5	15.5 - 15	0.61 - 0.591"
SK20-16	16 - 15.5	0.63 - 0.61"
SK20-16.5	16.5 - 16	0.65 - 0.63"
SK20-17	17 - 16.5	0.669 - 0.65"
SK20-17.5	17.5 - 17	0.689 - 0.669"
SK20-18	18 - 17.5	0.709 - 0.689"
SK20-18.5	18.5 - 18	0.728 - 0.709"
SK20-19	19 - 18.5	0.748 - 0.728"
SK20-19.5	19.5 - 19	0.768 - 0.748"
SK20-20	20 - 19.5	0.787 - 0.768"
<b>SK20-SET-21-MM</b>	9.5mm - 20mm SK20 Set	
<b>SK20-SET-33-MM</b>	3.5mm - 20mm SK20 Set	

#### INCH/METRIC ON-SIZE

Part Number	Size
SK20-1/8A	0.125"
SK20-3/16A	0.188"
SK20-1/4A	0.250"
SK20-5/16A	0.312"
SK20-3/8A	0.375"
SK20-7/16A	0.438"
SK20-1/2A	0.500"
SK20-9/16A	0.563"
SK20-5/8A	0.625"
SK20-3/4A	0.750"
SK20-4A	0.157"
SK20-6A	0.236"
SK20-8A	0.315"
SK20-10A	0.390"
SK20-12A	0.472"
SK20-16A	0.630"
SK20-20A	0.787"
<b>SK20-SET-10-A</b>	1/8 - 3/4" SK20 Set



*These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.*

#### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK20-12AC	12mm
SK20-16AC	16mm
SK20-18AC	18mm
SK20-20AC	20mm

*AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.*

#### INCH - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK20-7/16AC	0.438"
SK20-1/2AC	0.500"
SK20-9/16AC	0.563"
SK20-5/8AC	0.625"
SK20-3/4AC	0.750"

*AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.*

*Note: SK Collet Drill Chart available on page 291 in the Technical section.*

# SK COLLET CHUCKS

## SK25 COLLETS

### SK25 COLLETS

Size range: 16mm - 25mm (0.630 - 0.984")

#### METRIC

Part Number	Collapse Range (mm)	Collapse Range (in)
SK25-8	8 - 7.5	0.315 - 0.295"
SK25-10	10 - 9.5	0.394 - 0.374"
SK25-12	12 - 11.5	0.472 - 0.453"
SK25-16	16 - 15.5	0.63 - 0.61"
SK25-16.5	16.5 - 16	0.65 - 0.63"
SK25-17	17 - 16.5	0.669 - 0.65"
SK25-17.5	17.5 - 17	0.689 - 0.669"
SK25-18	18 - 17.5	0.709 - 0.689"
SK25-18.5	18.5 - 18	0.728 - 0.709"
SK25-19	19 - 18.5	0.748 - 0.728"
SK25-19.5	19.5 - 19	0.768 - 0.748"
SK25-20	20 - 19.5	0.787 - 0.768"
SK25-20.5	20.5 - 20	0.807 - 0.787"
SK25-21	21 - 20.5	0.827 - 0.807"
SK25-21.5	21.5 - 21	0.846 - 0.827"
SK25-22	22 - 21.5	0.866 - 0.846"
SK25-22.5	22.5 - 22	0.886 - 0.866"
SK25-23	23 - 22.5	0.906 - 0.886"
SK25-23.5	23.5 - 23	0.925 - 0.906"
SK25-24	24 - 23.5	0.945 - 0.925"
SK25-24.5	24.5 - 24	0.965 - 0.945"
SK25-25	25 - 24.5	0.984 - 0.965"
SK25-25.4	25.4 - 25	1 - 0.984"
SK25-SET-19-MM	16.0mm - 25.4mm SK25 Set	

#### METRIC - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK25-16AC	16.0mm
SK25-20AC	20.0mm
SK25-25AC	25.0mm
SK25-25.4AC	25.4mm

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

#### INCH/METRIC ON-SIZE

Part Number	Size
SK25-3/16A	0.188"
SK25-1/4A	0.250"
SK25-5/16A	0.312"
SK25-3/8A	0.375"
SK25-7/16A	0.438"
SK25-1/2A	0.500"
SK25-9/16A	0.563"
SK25-5/8A	0.625"
SK25-3/4A	0.750"
SK25-7/8A	0.875"
SK25-8A	0.315"
SK25-10A	0.390"
SK25-12A	0.472"
SK25-16A	0.630"
SK25-20A	0.787"
SK25-25A	0.984"
SK25-SET-08-A	3/16 - 3/4" SK25 Set

These are on-size collets with minimal collapsible ranges. A-type collets have an H8 gripping range.

#### INCH - COOLANT-THRU

Up to 1000 psi capable.

Part Number	Size
SK25-3/4AC	0.750"
SK25-7/8AC	0.875"

AC-type collets are mechanically sealed, no coolant nuts or disks are required. AC-type collets have an H8 gripping range.

#### SK25 COLLET RACK

Part Number	Description
RACK-5C/100TG/SK25	SK25 collet rack, 30 pieces capacity



Note: SK Collet Drill Chart available on page 291 in the Technical section.

## SK COOLANT COLLET SYSTEM



Collet Chuck	Collet Series	Coolant Nut Part Number	High-Speed Coolant Nut Part Number	Shank Diameter	Coolant-Thru Disk Part Number	Slotted Disk Part Number	Disk Wrench Part Number	Blank Disk (machinable) Part Number
SK6	SK6 Range: 0.7 - 6mm [0.027 - 0.236"]	SKN-6WKJ	SKN-6WKJ (GH)	2.0mm	SKJ6-2C	SKJ6-2	SKJL-6	SKJ6-BLANK
				2.25mm	-	SKJ6-2.25		
				2.5mm	-	SKJ6-2.5		
				3.0mm	SKJ6-3C	SKJ6-3		
				3.5mm	SKJ6-3.5C	SKJ6-3.5		
				4.0mm	SKJ6-4C	SKJ6-4		
				4.5mm	SKJ6-4.5C	SKJ6-4.5		
				5.0mm	SKJ6-5C	SKJ6-5		
				5.5mm	SKJ6-5.5C	SKJ6-5.5		
				6.0mm	SKJ6-6C	SKJ6-6		
				1/8"	SKJ6-1/8C	SKJ6-1/8		
				3/16"	SKJ6-3/16C	SKJ6-3/16		
				1/4"	SKJ6-1/4C	SKJ6-1/4		
				SK10	SK10 Range: 1.75 - 10mm [0.068 - 0.394"]	SKN-10BJ		
3.0mm	SKJ10-3C	SKJ10-3						
3.5mm	SKJ10-3.5C	SKJ10-3.5						
4.0mm	SKJ10-4C	SKJ10-4						
4.5mm	SKJ10-4.5C	SKJ10-4.5						
5.0mm	SKJ10-5C	SKJ10-5						
5.5mm	SKJ10-5.5C	SKJ10-5.5						
6.0mm	SKJ10-6C	SKJ10-6						
6.2mm	SKJ10-6.2C	SKJ10-6.2						
6.5mm	SKJ10-6.5C	SKJ10-6.5						
6.8mm	SKJ10-6.8C	-						
7.0mm	SKJ10-7C	SKJ10-7						
7.5mm	SKJ10-7.5C	SKJ10-7.5						
8.0mm	SKJ10-8C	SKJ10-8						
8.5mm	SKJ10-8.5C	SKJ10-8.5						
9.0mm	SKJ10-9C	SKJ10-9						
9.5mm	SKJ10-9.5C	SKJ10-9.5						
10.0mm	SKJ10-10C	SKJ10-10						
1/8"	SKJ10-1/8C	SKJ10-1/8						
3/16"	SKJ10-3/16C	SKJ10-3/16						
1/4"	SKJ10-1/4C	SKJ10-1/4						
5/16"	SKJ10-5/16C	SKJ10-5/16						
11/32"	SKJ10-11/32C	-						
3/8"	SKJ10-3/8C	SKJ10-3/8						



# SK COLLET CHUCKS

## SK COOLANT COLLET SYSTEM



Collet Chuck	Collet Series	Coolant Nut Part Number	High-Speed Coolant Nut Part Number	Shank Diameter	Coolant-Thru Disk Part Number	Slotted Disk Part Number	Disk Wrench Part Number	Blank Disk (machinable) Part Number
SK13/SK16	SK13 Range: 2.5 - 13mm [0.098 - 0.512"]	SKN-16BJ	SKN-16BJ (GH)	3.0mm	SKJ16-3C	SKJ16-3	SKJL-16	SKJ16-BLANK
				3.5mm	SKJ16-3.5C	SKJ16-3.5		
				4.0mm	SKJ16-4C	SKJ16-4		
				4.5mm	-	SKJ16-4.5		
				5.0mm	SKJ16-5C	SKJ16-5		
				5.5mm	-	SKJ16-5.5		
				6.0mm	SKJ16-6C	SKJ16-6		
				6.5mm	-	SKJ16-6.5		
				7.0mm	SKJ16-7C	SKJ16-7		
				8.0mm	SKJ16-8C	SKJ16-8		
				8.5mm	SKJ16-8.5C	SKJ16-8.5		
				9.0mm	SKJ16-9C	SKJ16-9		
				9.5mm	SKJ16-9.5C	SKJ16-9.5		
				10.0mm	SKJ16-10C	SKJ16-10		
				10.3mm	-	SKJ16-10.3		
				10.5mm	SKJ16-10.5C	SKJ16-10.5		
				11.0mm	SKJ16-11C	SKJ16-11		
				11.5mm	SKJ16-11.5C	SKJ16-11.5		
				SK16	SK16 Range: 2.75 - 16mm [0.108 - 0.630"]	SKN-16BJ		
12.5mm	SKJ16-12.5C	SKJ16-12.5						
13.0mm	SKJ16-13C	SKJ16-13						
13.5mm	SKJ16-13.5C	-						
14.0mm	SKJ16-14C	SKJ16-14						
14.5mm	SKJ16-14.5C	SKJ16-14.5						
15.0mm	SKJ16-15C	SKJ16-15						
15.5mm	-	SKJ16-15.5						
SK13/SK16	SK13 Range: 2.5 - 13mm [0.098 - 0.512"]	SKN-16BJ	SKN-16BJ (GH)	16.0mm	SKJ16-16C	SKJ16-16	SKJL-16	SKJ16-BLANK
				1/8"	SKJ16-1/8C	SKJ16-1/8		
				3/16"	SKJ16-3/16C	SKJ16-3/16		
				1/4"	SKJ16-1/4C	SKJ16-1/4		
				5/16"	SKJ16-5/16C	SKJ16-5/16		
				3/8"	SKJ16-3/8C	SKJ16-3/8		
				7/16"	SKJ16-7/16C	SKJ16-7/16		
1/2"	SKJ16-1/2C	SKJ16-1/2						
SK16	SK16 Range: 2.75 - 16mm [0.108 - 0.630"]	SKN-16BJ	SKN-16BJ (GH)	9/16"	SKJ16-9/16C	SKJ16-9/16	SKJL-16	SKJ16-BLANK
				5/8"	SKJ16-5/8C	SKJ16-5/8		

## SK COOLANT COLLET SYSTEM



Collet Chuck	Collet Series	Coolant Nut Part Number	High-Speed Coolant Nut Part Number	Shank Diameter	Coolant-Thru Disk Part Number	Slotted Disk Part Number	Disk Wrench Part Number	Blank Disk (machinable) Part Number
SK20/SK25	SK20 Range: 3.5 - 20.0mm [0.138 - 0.787"]  SK25 Range: 16.0 - 25.4mm [0.630 - 1.000"]  SKJ Disk Range: 8mm - 25mm 3/16 - 1"	SKN-25BJ	SKN-25BJ (GH)	1.0mm	SKJ25-1C	SKJ25-1	SKJL-25	SKJ25-BLANK
				4.0mm	SKJ25-4C	-		
				6.0mm	SKJ25-6C	SKJ25-6		
				7.0mm	-	SKJ25-7		
				8.0mm	SKJ25-8C	SKJ25-8		
				8.5mm	SKJ25-8.5C	-		
				10.0mm	SKJ25-10C	SKJ25-10		
				11.0mm	SKJ25-11C	-		
				12.0mm	SKJ25-12C	SKJ25-12		
				12.5mm	-	SKJ25-12.5		
				14.0mm	SKJ25-14C	SKJ25-14		
				16.0mm	SKJ25-16C	SKJ25-16		
				16.5mm	-	SKJ25-16.5		
				17.0mm	SKJ25-17C	SKJ25-17		
				17.5mm	SKJ25-17.5C	SKJ25-17.5		
				18.0mm	SKJ25-18C	SKJ25-18		
				20.0mm	SKJ25-20C	SKJ25-20		
SK25	SK25 Range: 16.0 - 25.4mm [0.630 - 1.000"]	SKN-25BJ	SKN-25BJ (GH)	22.0mm	-	SKJ25-22	SKJL-25	SKJ25-BLANK
				23.0mm	-	SKJ25-23		
				24.0mm	SKJ25-24C	-		
				25.0mm	SKJ25-25C	SKJ25-25		
SK20/SK25	SK20 Range: 3.5 - 20.0mm [0.138 - 0.787"]  SK25 Range: 16.0 - 25.4mm [0.630 - 1.000"]	SKN-25BJ	SKN-25BJ (GH)	3/16"	SKJ25-3/16C	SKJ25-3/16	SKJL-25	SKJ25-BLANK
				1/4"	SKJ25-1/4C	SKJ25-1/4		
				5/16"	SKJ25-5/16C	SKJ25-5/16		
				3/8"	SKJ25-3/8C	SKJ25-3/8		
				7/16"	SKJ25-7/16C	SKJ25-7/16		
				1/2"	SKJ25-1/2C	SKJ25-1/2		
				5/8"	SKJ25-5/8C	SKJ25-5/8		
				11/16"	SKJ25-11/16C	SKJ25-11/16		
3/4"	SKJ25-3/4C	SKJ25-3/4						
SK25	SK25 Range: 16.0 - 25.4mm [0.630 - 1.000"]	SKN-25BJ	SKN-25BJ (GH)	13/16"	SKJ25-13/16C	SKJ25-13/16	SKJL-25	SKJ25-BLANK
				7/8"	SKJ25-7/8C	SKJ25-7/8		
				15/16"	SKJ25-15/16C	SKJ25-15/16		

# SK COLLET CHUCKS

## SK COLLET CHUCK ACCESSORIES

### SK COLLET EXTRACTOR

Part Number	Description
SKR-6	SK6 Collet Extractor
SKR-10	SK10 Collet Extractor
SKR-16	SK16 Collet Extractor
SKR-25	SK25 Collet Extractor



### REPLACEMENT NUT FOR SK COLLET CHUCK STANDARD STYLE

Part Number	Description
SKN-6WK	Nut for SK6 Collet Chuck
SKN-10K	Nut for SK10 Collet Chuck
SKN-13B	Nut for SK13 Collet Chuck
SKN-16B	Nut for SK16 Collet Chuck
SKN-20B	Nut for SK20 Collet Chuck
SKN-25B	Nut for SK25 Collet Chuck



### WRENCH FOR SK COLLET CHUCK

Standard Style Part Number	High-Speed Style Part Number	Description
SKL-6W	GH6	Wrench for SK6 Collet Chuck
SKL-10	GH10	Wrench for SK10 Collet Chuck
016-SPAN	GH12	Wrench for SK13 Collet Chuck
9HC16	GH16	Wrench for SK16 Collet Chuck
9HC22	GH20	Wrench for SK20 Collet Chuck
9HC22	GH25	Wrench for SK25 Collet Chuck



### TORQUE WRENCH AND ATTACHMENT FOR SK COLLET CHUCK

Part Number	Description
TQW-025	Torque wrench for SK6 Collet Chuck Nut
TQW-200	Torque wrench for SK10/13/16/20/25 Collet Chuck Nut
TQW-SK06	SK6 attachment for TQW-025 torque wrench
TQW-SK10	SK10 attachment for TQW-200 torque wrench
TQW-ER16/SK13(30)	SK13 attachment for TQW-200 torque wrench
TQW-SK16(45)	SK16 attachment for TQW-200 torque wrench
TQW-ER32/SK20/T675(50)	SK20 attachment for TQW-200 torque wrench
TQW-SK25(55)	SK25 attachment for TQW-200 torque wrench



### COOLANT TUBE WRENCH FOR HSK/POLYGONAL HOLDERS

Part Number	Description
HSK40-WRENCH	Wrench for HSK40 Coolant Tube
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube
C4-WRENCH	Wrench for C4 Coolant Tube
C5-WRENCH	Wrench for C5 Coolant Tube
C6-WRENCH	Wrench for C6 Coolant Tube



### COOLANT TUBE FOR HSK/POLYGONAL HOLDERS

Part Number	Description
HSK40-TUBE	Coolant Tube for HSK40 holder
HSK63-TUBE	Coolant Tube for HSK63 holder
HSK100-TUBE	Coolant Tube for HSK100 holder
C4-TUBE	C4 Coolant Tube
C5-TUBE	C5 Coolant Tube
C6-TUBE	C6 Coolant Tube



Note: Coolant Tube Wrenches are needed to remove or install coolant tubes in HSK toolholders.

## ADJUST SCREW FOR SLIM CHUCK

The adjust Screw for the High Speed Slim Chuck “GSK-P type” is identical to the Standard Slim Chuck as below. e.g. The adjust Screw for BT30-GSK10-45P is SKG-12S, is the same as the screw for BT30-SK10-45.

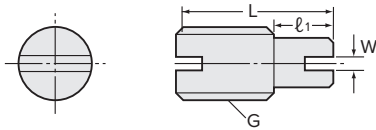


Fig. 1

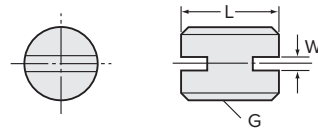


Fig. 2

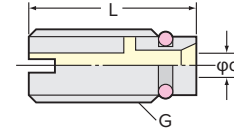


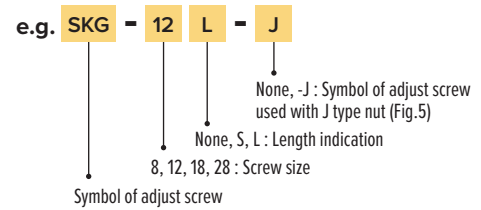
Fig. 3

### SK

Style	Adjust Screw Code No.	Slim Chuck Code No.	Fig.
SK6	SKG- 8	All SK6 Slim Chucks	1
SK10	SKG-12L	All SK10 Slim Chucks except below	1
	SKG-12S	BT30-SK10-45, HSK50A-SK10-90, HSK63F-SK10-90	2
SK13	SKG-15	All SK13 Slim Chucks	1
SK16	SKG-18L	All SK16 Slim Chucks except below	1
	SKG-12	BT30-SK16-90	2
	SKG-12L	BT30-SK16-60	1
	SKG-18S	BT40-SK16-60	2
SK20	SKG-22	All SK20 Slim Chucks except below	1
	SKG-12	BT30-SK20-90	2
	SKG-12L	BT30-SK20-75	1
	SKG-12S	BT30-SK20-60	2
SK25	SKG-28	All SK25 Slim Chucks except below	1
	SKG-12	BT30-SK25-90, BT40-SK25-75	2
	SKG-12MF	NC5-46-SK25-90	2

Note: W=2mm is standard. W=2.4, 3, 4, 5, 6, 8, 12mm are also available. e.g. SKG-12L-W2.4 Please choose suitable one for the tang width of your drill.

#### Explanation of the Code No. of the Adjust screw for Standard Slim Chuck



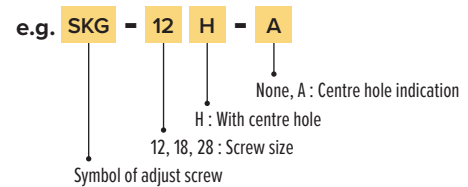
### SK

Style	Screw Size	Adjust Screw Code No.	Hole Dia.	Cutter Shank Dia.	Wrench Width	Fig.
SK10	M12	SKG-12H	φ4	φ6~	3	3
		SKG-12HA	φ2.5	φ4~	2	
SK13	M15 P1.0	SKG-15H	φ4	φ6~	3	
		SKG-15HA	φ2.5	φ4~	2	
SK16	M12	SKG-12H	φ4	φ6~	3	
		SKG-12HA	φ2.5	φ4~	2	
	M18 P1.5	SKG-18H	φ7.2	φ10~	6	
		SKG-18HA	φ3.5	φ5~	3	
SK20	M12	SKG-12H	φ4	φ6~	3	
		SKG-12HA	φ2.5	φ4~	2	
SK25	M22 P1.5	SKG-22H	φ8	φ10~	5	
		SKG-12H	φ4	φ6~	3	
	M28 P2.0	SKG-12HA	φ2.5	φ4~	2	
SKG-28H		φ12	φ16~	8		

Note:

- The adjust screw for oil hole tap is also available. Please contact with us.
- These adjust screws are for the coolant pressure up to 1MPa.

#### Explanation of the Code No. of the Adjust screw with centre hole for Standard Slim Chuck



## ADJUST SCREW FOR SLIM CHUCK

There is no leakage of coolant from screw, because OD of the straight portion of the adjust screw is sealed.

### SK-C

Style	Adjust Screw Code No.	Hole Dia.	Cutter Shank Dia.	Slim Chuck Code No.	Wrench Width	Fig.
SK6	SKG6-6HG	φ2.5	φ4~	All SK6C/SK6F Slim Chucks	2	4
SK10	SKG10-10HG	φ4	φ6~	All SK10C/SK10F Slim Chucks	4	
	SKG10-10HGA	φ2.5	φ4~		2	
SK13	SKG13-10HG	φ4	φ6~	All SK13C/SK13F Slim Chucks	4	
	SKG13-10HGA	φ2.5	φ4~		2	
SK16	SKG16-12HG	φ7.2	φ10~	All SK16C/SK16F Slim Chucks except below	6	4
	SKG16-12HGB			BT40-SK16F-90		
	SKG16-10HG			HSK40A-SK16C-120, HSK50A-SK16C-120 HSK63A-SK16C-120, 150, HSK100A-SK16C-120 NC5-46-SK16C-90, -120, NBT40-SK16C-60, NBT30-SK16C-75		
	SKG16-12HGE	NBT30-SK16C-60				
	SKG16-12HGA	φ3.5	φ5~	All SK16C/SK16F Slim Chucks except below		
	SKG16-12HGBA			BT40-SK16F-90		
SKG16-10HGA	HSK40A-SK16C-120, HSK50A-SK16C-120 HSK63A-SK16C-120, 150, HSK100A-SK16C-120 NC5-46-SK16C-90, -120, NBT40-SK16C-60, NBT30-SK16C-75					
SK20	SKG20-18HG	φ6.8	φ10~	All SK20C/SK20F Slim Chucks except below	5	4
	SKG20-12MFHG			NC5-46-SK20C-90, NC5-53-SK20C-90, HSK63A-SK20C-120, -135		
	SKG20-12HG			NC5-46-SK20C-120, NC5-53-SK20C-120, NBT30-SK20C-90 HSK100A-SK20C-150, -200		
	SKG20-12HGE			NBT30-SK20C-75		
	SKG20-16HG			NBT40-SK20C-60		
	SKG20-18HGB			BT40-SK20F-90		
SK25	SKG25-24HG	φ12	φ16~	All SK25C/SK25F Slim Chucks except below	8	4
	SKG25-24HGA			BT40-SK25F-120, BT50-SK25F-105		
	SKG25-18HGC			BT40-SK25F-90		
	SKG25-18HGD			BT40-SK25C-90, NC5-63-SK25C-135 NC5-85-SK25C-135, NBT40-SK25C-90		
	SKG25-18HGE			HSK63A-SK25C-135, HSK100A-SK25C-145, NBT40-SK25C-75		

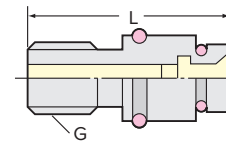


Fig. 4

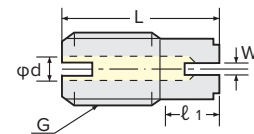
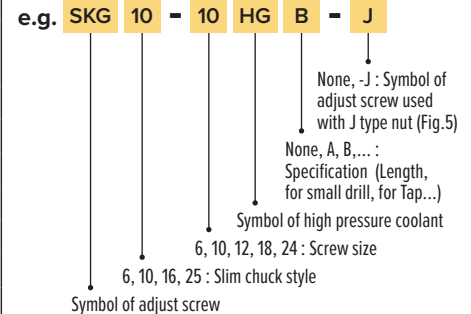


Fig. 5

Please remove standard Adjust Screw and use the Adjust Screw specially designed to J type Nut for the stopper.

#### Explanation of the Code No. of the Adjust screw for High Pressure Coolant Slim Chuck



#### Note:

- The adjust screw for oil hole tap is different from standard. The front end of the adjust screw is flat, not taper. Please add "S" at the end of Code No. e.g. SKG10-10HGAS, SKG16-12HGBAS, SKG16-12HGBAS
- The adjust screw for extra small cutter shank dia. (φ3) is available. Please contact with us.
- The steel made adjust screw for SK10 or SK16 is available. Please add "-FE" at the end of Code No. e.g. SKG10-10HG-FE



Adjustment tool for adjust screw Scale wrench with scale useful for presetting tool length

#### Code No. ex.) SKWR-DR-120L

(Minus driver type: Standard type)

It is compatible with each type of SK. Please let us know the model number of the slim chuck you will be using.



3LOCK tool (MBT, MIT and MCAT), 2LOCK tool (NBT, NIT and NCAT), NC5 tool and HSK tool can be used at high pressure centre through tool coolant application (MAX.7MPa).

Please change the shank No. from BT to MBT or NBT for 3LOCK tool or 2LOCK tool.

The adjust screw for BT40-SK16F-90 is same as the adjust screw for MBT40-SK16F-90 and NBT40-SK16F-90.

# HIGH PERFORMANCE LIVE TOOLS

## WHAT MAKES OUR LIVE TOOLS UNIQUE?

### DESIGN AND ENGINEERING

- Nickel Chrome Molybdenum body
- Ground features to ensure optimal concentricity
- ABEC 7 angular contact bearings for highest run-out precision
- Run-out guarantee of under 5 micron repeatability at collet nose

### GEARS FOR STABILITY

- Hand-matched gears for minimal backlash
- Spiral bevel gears maximizes drive torque
- Optimal bearing placement for balanced torque stress

### PROTECTIVE SEALS

- Labyrinth Seals with unique multi-barrier construction prevent contaminants from entering the main chamber

**A COMPLETE LINE OF STATIC AND  
LIVE TOOLING FOR DMG MORI,  
MAZAK, OKUMA AND MORE  
*IN STOCK NOW!***



# ER COLLET CHUCKS



ER COLLET CHUCKS



ER COLLET CHUCKS



## ER COLLET CHUCK FEATURES

### LYNDEX-NIKKEN

#### AT3 or better taper tolerance

- All 40 taper tool angles are manufactured within +/- .0011 degrees angular tolerance
- Largest diameter of taper (where rigidity is established) is held within +/- 80 millionths (.00008")
- Precision ground taper ensures 80% or better taper contact

Drive key depth balanced for high speed rotation.

Body of Collet Chuck equal in diameter to the nut diameter. Thicker diameter and wall thickness results in stronger rigidity.

Reduced gap size to prevent bird nests and other stringy chips from packing in or wrapping about.

#### ER Nut

Smooth nut prevents coolant flare and provides better balance.

#### Bearing Nut

Bearing nut improves gripping force and accuracy by reducing the friction between nut and collet.



#### Nickel Chrome Molybdenum Alloy

Lyndex-Nikken toolholders are heat treated in house to a hardness between 55 to 58 Rc under the highest quality standard, ensuring a homogeneous martensite (needle-shaped) crystalline structure. The additional heat treatment process allows for a better ground surface finish and stress stability of the toolholder.

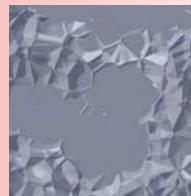
### OTHER

#### AT4 taper tolerance

- All 40 taper tool angles are manufactured within +/- .0018 degrees angular tolerance
- Largest diameter of taper (where rigidity is established) varies within +/- 138 millionths (.00014")
- Varying aspects of taper angle and diameter can only ensure up to 60% taper contact

Recessed collet chuck body diameter weakens rigidity of holder.

Large Hex nut body design flares coolant away from toolholder.



#### High Carbon Steel

Other toolholders are commonly not heat treated thoroughly in order to reduce production costs, resulting in austenite deposits. Surface finish and material integrity are compromised commonly masked by chrome plating or polishing.



# ER COLLET CHUCKS

## ER COLLET FEATURES

We offer the largest ER Collet product range in the industry



### Quality Standard

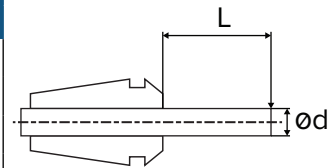
Made to DIN 6499 Specification

### Material

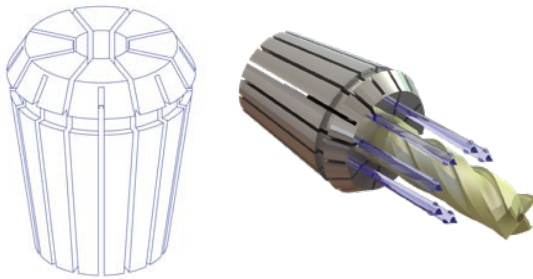
High Tensile Chromium Molybdenum Alloy provides greater hardness and less material deformation compared to traditional spring steel collets

### T.I.R Accuracy

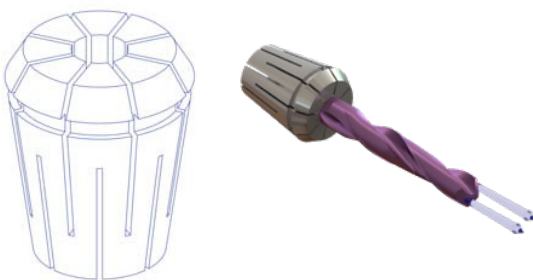
ID Bore Diameter Ød (mm)	L (mm)	T.I.R. Accuracy Standard Collet
1 - 1.5	4 x Ød	10µ
2 - 5.5	4 x Ød	
6 - 10	25	
11 - 26	40	



### ER COLLET



### ER COOLANT COLLET



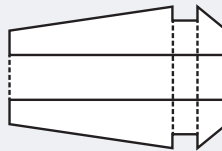
### Inspection

100% collet inspection, checked 3 times for concentricity

### ER STANDARD TYPE COLLET

#### Flexibility and Durability:

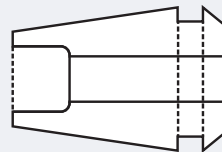
Our ER Collets offer wide clamping range, ultra precision, and high pressure coolant capable up to 1015 psi (7MPa).



### HIGH PRECISION ER TAP COLLET

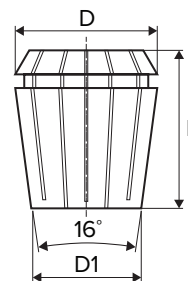
#### Extreme rigidity, high pressure performance:

Our Tap Collets are designed for all ANSI, DIN, ISO, and JIS Specification Taps. 1015 psi capable Coolant Tap Collets increase tool life by dissipating heat and preventing chip build-up.



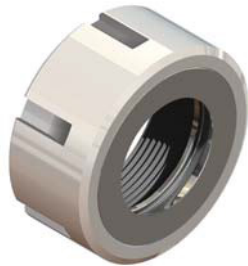
## ER COLLET DIMENSIONAL DATA

Style	D	D1	L	Collet Range	Coolant Collet Size Range
ER8	0.330"	0.216"	0.535"	0.019 - 0.196"	N/A
ER11	0.460"	0.307"	0.709"	0.019 - 0.275"	0.157 - 0.275"
ER16	0.677"	0.445"	1.063"	0.019 - 0.393"	0.157 - 0.393"
ER20	0.835"	0.571"	1.220"	0.039 - 0.511"	0.196 - 0.511"
ER25	1.031"	0.728"	1.378"	0.039 - 0.629"	0.236 - 0.629"
ER32	1.307"	0.960"	1.575"	0.078 - 0.787"	0.393 - 0.787"
ER40	1.622"	1.228"	1.811"	0.118 - 1.023"	0.393 - 1.023"

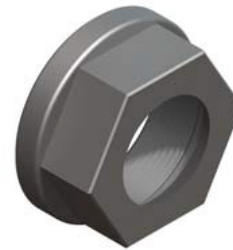


## NUT FEATURES

### LYNDEX-NIKKEN NUT



### OTHER NUT



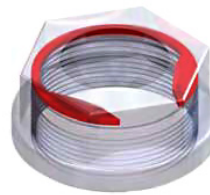
### BEARING NUT



Bearing nuts come as a standard on all of our ER Collet Chucks:

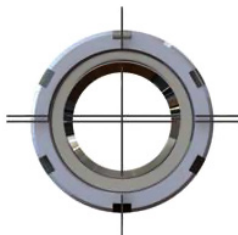
- Reduce twisting of the collet and increase T.I.R. accuracy.
- Improve chucking consistency compared to non bearing style nut!

### STANDARD NUT - NO BEARING



Non bearing style nuts only provide the ability to retain the collet, and do not carry a functional advantage to improve the T.I.R. or chucking consistency.

### MAXIMUM ACCURACY



We control all of our manufacturing processes, thereby maintaining the assembly accuracy tolerances between the nut, collet, and holder.

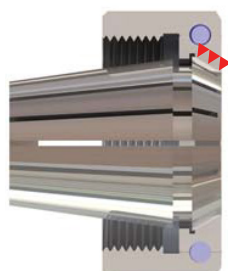
Our ground eccentric bearing race makes set up extremely easy, and ensures the accurate concentric placement of the collet.

### OTHER MANUFACTURERS



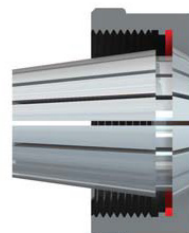
Other manufacturers use a commercial snap ring as a retainer for the collet. This can contribute to minor misalignment between the nut, collet, and holder.

### GROUND ECCENTRIC NUT



Our ground eccentric bearing race increases clamping power compared to standard nuts! It also prevents galling and twisting between the collet angle contact surface and the nut to minimize runout and greatly assist in alignment of the collet to the holder.

### NO GROUND SURFACE



ER Collet without ground contact locations cannot ensure ultra precision due to surface abnormality.

# ER COLLET CHUCKS

## CAT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



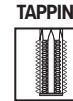
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40 - BEARING NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	L2	D	D1	Max. RPM	Fig.
<a href="#">C4007-0008-2.50</a>	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	2.50"	1.11"	-	0.47"	1.75"	25K	2
<a href="#">C4007-0008-4.00M</a>	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	4.00"	2.61"	-	0.47"	1.75"	25K	2
<a href="#">C4007-0011-2.50</a>	ER11	0.019 - 0.275"	011-HEX	2.50"	1.12"	-	0.75"	1.75"	25K	2
<a href="#">C4007-0011-4.00</a>	ER11	0.019 - 0.275"	011-HEX	4.00"	2.62"	-	0.75"	1.75"	25K	2
<a href="#">C4007-0011-6.00</a>	ER11	0.019 - 0.275"	011-HEX	6.00"	4.62"	-	0.75"	1.75"	25K	2
<a href="#">C4007-0016-2.25</a>	ER16	0.019 - 0.406"	016-SPAN	2.25"	1.50"	-	1.26"	-	25K	1
<a href="#">C4007-0016-3.50</a>	ER16	0.019 - 0.406"	016-SPAN	3.50"	2.11"	-	1.26"	1.75"	25K	2
<a href="#">C4007-0016-6.00</a>	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.63"	-	1.26"	1.75"	25K	2
<a href="#">C4007-0016-9.00</a>	ER16	0.019 - 0.406"	016-SPAN	9.00"	1.65"	7.64"	1.26"	1.75"	25K	3
<a href="#">C4007-0020-2.50</a>	ER20	0.039 - 0.511"	020-SPAN	2.50"	1.12"	-	1.38"	1.75"	25K	2
<a href="#">C4007-0020-4.00</a>	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.60"	-	1.38"	1.75"	25K	2
<a href="#">C4007-0020-6.00</a>	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.62"	-	1.38"	1.75"	25K	2
<a href="#">C4007-0020-9.00</a>	ER20	0.039 - 0.511"	020-SPAN	9.00"	1.71"	7.63"	1.38"	1.75"	25K	3
<a href="#">C4007-0025-2.50</a>	ER25	0.039 - 0.629"	025-SPAN	2.50"	1.14"	-	1.65"	1.75"	25K	2
<a href="#">C4007-0025-4.00</a>	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.62"	-	1.65"	1.75"	25K	2
<a href="#">C4007-0025-6.00</a>	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.62"	-	1.65"	1.75"	25K	2
<a href="#">C4007-0032-0.76</a>	ER32	0.078 - 0.787"	032-SPAN	0.76"	0.14"	-	1.58"	-	25K	1
<a href="#">C4007-0032-3.13</a>	ER32	0.078 - 0.787"	032-SPAN	3.13"	2.38"	-	1.97"	-	25K	1
<a href="#">C4007-0032-5.00</a>	ER32	0.078 - 0.787"	032-SPAN	5.00"	4.29"	-	1.97"	-	25K	1
<a href="#">C4007-0032-9.00</a>	ER32	0.078 - 0.787"	032-SPAN	9.00"	1.74"	7.63"	1.97"	1.75"	25K	3
<a href="#">C4007-0040-3.13</a>	ER40	0.118 - 1.023"	040-SPAN	3.13"	2.37"	-	2.44"	-	25K	1
<a href="#">C4007-0040-5.00</a>	ER40	0.118 - 1.023"	040-SPAN	5.00"	4.26"	-	2.44"	-	25K	1

#### Notes:

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length.  
To confirm clearance, please download model/drawing from our website



Available in **TAPER PLUS**<sup>+</sup>  
Dual-taper and flange contact

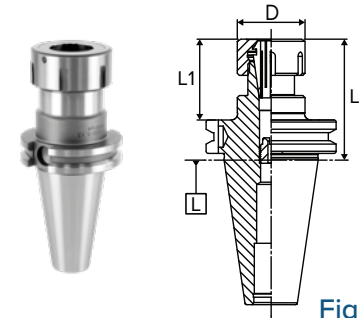


Fig. 1

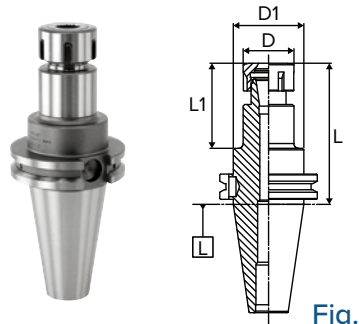


Fig. 2

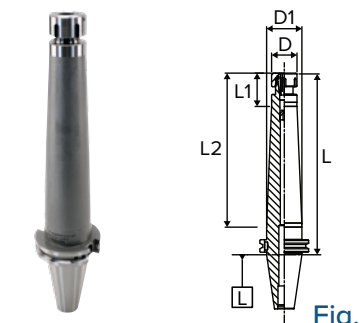


Fig. 3

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See ER Coolant Collets on pages 65-70



## CAT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



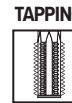
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40 - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	D1	Max. RPM	Fig.
CAT40-ER16-2.76	ER16	0.019 - 0.406"	016-SPAN	2.76"	1.38"	1.10"	1.75"	25K	1
CAT40-ER16-4.00	ER16	0.019 - 0.406"	016-SPAN	4.00"	2.62"	1.10"	1.75"	25K	1
CAT40-ER16-6.00	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.62"	1.10"	1.75"	25K	1
CAT40-ER16-8.00	ER16	0.019 - 0.406"	016-SPAN	8.00"	6.62"	1.10"	1.75"	25K	1

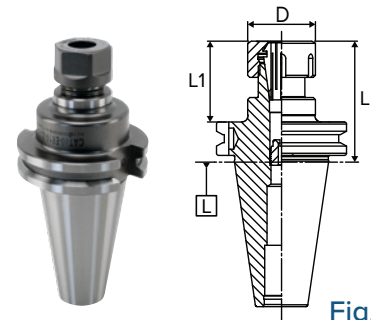


Fig. 1

### CAT40 - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	D1	Max. RPM	Fig.
CAT40-ER20-2.76	ER20	0.039 - 0.511"	020-SPAN	2.76"	1.38"	1.34"	1.75"	25K	1
CAT40-ER20-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.66"	1.34"	1.75"	25K	1
CAT40-ER20-6.00	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.66"	1.34"	1.75"	25K	1
CAT40-ER20-8.00	ER20	0.039 - 0.511"	020-SPAN	8.00"	6.66"	1.34"	1.75"	25K	1
CAT40-ER25-2.76	ER25	0.039 - 0.629"	025-SPAN	2.76"	1.38"	1.66"	1.75"	25K	1
CAT40-ER25-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.62"	1.66"	1.75"	25K	1
CAT40-ER25-6.00	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.62"	1.66"	1.75"	25K	1
CAT40-ER25-8.00	ER25	0.039 - 0.629"	025-SPAN	8.00"	6.62"	1.66"	1.75"	25K	1
CAT40-ER32-2.76	ER32	0.078 - 0.787"	032-SPAN	2.76"	2.01"	1.97"	-	25K	2
CAT40-ER32-4.00	ER32	0.078 - 0.787"	032-SPAN	4.00"	3.25"	1.97"	-	25K	2
CAT40-ER32-6.00	ER32	0.078 - 0.787"	032-SPAN	6.00"	5.25"	1.97"	-	25K	2
CAT40-ER32-8.00	ER32	0.078 - 0.787"	032-SPAN	8.00"	7.25"	1.97"	-	25K	2
CAT40-ER40-3.15	ER40	0.118 - 1.023"	040-SPAN	3.15"	2.41"	2.48"	-	25K	2
CAT40-ER40-4.00	ER40	0.118 - 1.023"	040-SPAN	4.00"	3.25"	2.48"	-	25K	2
CAT40-ER40-6.00	ER40	0.118 - 1.023"	040-SPAN	6.00"	5.25"	2.48"	-	25K	2

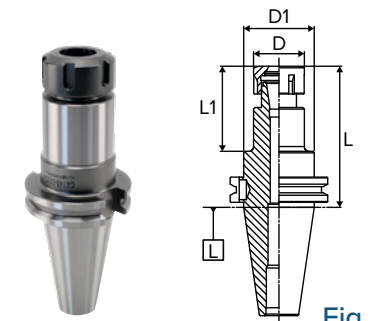


Fig. 2

**Notes:**

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length.  
To confirm clearance, please download model/drawing from our website

Available in **TAPER PLUS+**  
Dual-taper and flange contact

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See ER Coolant Collets on pages 65-70



# ER COLLET CHUCKS

## CAT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



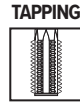
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT50 - BEARING NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	L2	D	D1	Max. RPM	Fig.
C5007-0016-4.12	ER16	0.019 - 0.406"	016-SPAN	4.12"	2.74"	-	1.26"	2.75"	25K	2
C5007-0016-6.00	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.63"	-	1.26"	2.75"	25K	2
C5007-0016-8.00	ER16	0.019 - 0.406"	016-SPAN	8.00"	1.64"	6.63"	1.26"	2.75"	25K	3
C5007-0016-12.00	ER16	0.019 - 0.406"	016-SPAN	12.00"	1.64"	10.64"	1.26"	2.75"	25K	3
C5007-0020-2.50	ER20	0.039 - 0.511"	020-SPAN	2.50"	1.14"	-	1.38"	2.75"	25K	2
C5007-0020-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.63"	-	1.38"	2.75"	25K	2
C5007-0020-6.00	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.62"	-	1.38"	2.75"	25K	2
C5007-0020-8.00	ER20	0.039 - 0.511"	020-SPAN	8.00"	1.72"	6.63"	1.38"	2.75"	25K	3
C5007-0020-12.00	ER20	0.039 - 0.511"	020-SPAN	12.00"	1.57"	10.63"	1.38"	2.75"	25K	3
C5007-0025-2.50	ER25	0.039 - 0.629"	025-SPAN	2.50"	1.14"	-	1.65"	2.75"	25K	2
C5007-0025-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.62"	-	1.65"	2.75"	25K	2
C5007-0025-6.00	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.62"	-	1.65"	2.75"	25K	2
C5007-0025-8.00	ER25	0.039 - 0.629"	025-SPAN	8.00"	1.74"	6.62"	1.65"	2.75"	25K	3
C5007-0032-4.00	ER32	0.078 - 0.787"	032-SPAN	4.00"	2.63"	-	1.97"	2.75"	25K	2
C5007-0032-6.00	ER32	0.078 - 0.787"	032-SPAN	6.00"	4.63"	-	1.97"	2.75"	25K	2
C5007-0032-8.00	ER32	0.078 - 0.787"	032-SPAN	8.00"	1.85"	6.62"	1.97"	2.75"	25K	3
C5007-0032-12.00	ER32	0.078 - 0.787"	032-SPAN	12.00"	1.71"	10.63"	1.97"	2.75"	25K	3
C5007-0040-4.00	ER40	0.118 - 1.023"	040-SPAN	4.00"	2.63"	-	2.44"	2.75"	25K	2
C5007-0040-6.00	ER40	0.118 - 1.023"	040-SPAN	6.00"	4.63"	-	2.44"	2.75"	25K	2
C5007-0040-8.00	ER40	0.118 - 1.023"	040-SPAN	8.00"	1.98"	6.63"	2.44"	2.75"	25K	3
C5007-0040-12.00	ER40	0.118 - 1.023"	040-SPAN	4.00"	1.98"	10.63"	2.44"	2.75"	25K	3

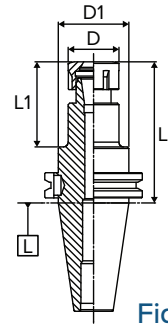


Fig. 2

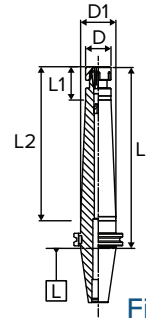


Fig. 3

#### Notes:

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length.  
To confirm clearance, please download model/drawing from our website



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Dual-taper and flange contact

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See ER Coolant Collets on pages 65-70



ER Collets  
Pages 65-70



ER Torque  
Wrenches  
Page 75



ER Back Up  
Screws  
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ER Nuts  
Page 74

## CAT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



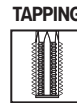
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT50 - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	D1	Max. RPM	Fig.
CAT50-ER16-4.00	ER16	0.019 - 0.406"	016-SPAN	4.00"	2.62"	1.10"	2.75"	25K	2
CAT50-ER16-6.00	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.62"	1.10"	2.75"	25K	2
CAT50-ER16-8.00	ER16	0.019 - 0.406"	016-SPAN	8.00"	6.62"	1.10"	2.75"	25K	2

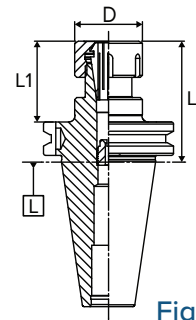


Fig. 1

### CAT50 - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	D1	Max. RPM	Fig.
CAT50-ER20-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.62"	1.34"	2.75"	25K	2
CAT50-ER20-6.00	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.62"	1.34"	2.75"	25K	2
CAT50-ER20-8.00	ER20	0.039 - 0.511"	020-SPAN	8.00"	6.62"	1.34"	2.75"	25K	2
CAT50-ER25-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.62"	1.66"	2.75"	25K	2
CAT50-ER25-6.00	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.62"	1.66"	2.75"	25K	2
CAT50-ER25-8.00	ER25	0.039 - 0.629"	025-SPAN	8.00"	6.62"	1.66"	2.75"	25K	2
CAT50-ER32-4.00	ER32	0.078 - 0.787"	032-SPAN	4.00"	2.62"	1.97"	2.75"	25K	2
CAT50-ER32-6.00	ER32	0.078 - 0.787"	032-SPAN	6.00"	4.62"	1.97"	2.75"	25K	2
CAT50-ER32-8.00	ER32	0.078 - 0.787"	032-SPAN	8.00"	6.62"	1.97"	2.75"	25K	2
CAT50-ER40-4.00	ER40	0.118 - 1.023"	040-SPAN	4.00"	2.62"	2.48"	2.75"	25K	2
CAT50-ER40-6.00	ER40	0.118 - 1.023"	040-SPAN	6.00"	4.62"	2.48"	2.75"	25K	2
CAT50-ER40-8.00	ER40	0.118 - 1.023"	040-SPAN	8.00"	6.62"	2.48"	2.75"	25K	2
CAT50-ER50-4.00	ER50	0.236 - 1.338"	9HC32	4.00"	3.25"	3.07"	-	25K	1
CAT50-ER50-6.00	ER50	0.236 - 1.338"	9HC32	6.00"	5.25"	3.07"	-	25K	1
CAT50-ER50-8.00	ER50	0.236 - 1.338"	9HC32	8.00"	7.25"	3.07"	-	25K	1

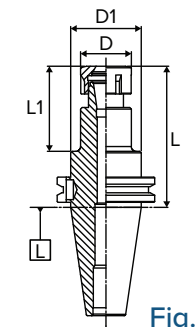


Fig. 2

**Notes:**

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length. To confirm clearance, please download model/drawing from our website



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See ER Coolant Collets on pages 65-70



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# ER COLLET CHUCKS

## BT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



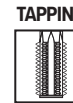
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30 - BEARING NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Max. RPM	Fig.
B3007-0008-2.00	ER8	0.019 - 0.197"	08-NASPAN	2.00"	1.13"	0.47"	18K	1
B3007-0008-4.00M	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	4.00"	3.13"	0.47"	30K	1
B3007-0011-2.00	ER11	0.019 - 0.275"	011-HEX	2.00"	1.13"	0.75"	30K	1
B3007-0011-4.00	ER11	0.019 - 0.275"	011-HEX	4.00"	3.13"	0.75"	30K	1
B3007-0016-2.36	ER16	0.019 - 0.406"	016-SPAN	2.36"	1.49"	1.26"	30K	1
B3007-0016-4.00	ER16	0.019 - 0.406"	016-SPAN	4.00"	3.13"	1.26"	30K	1
B3007-0016-5.00	ER16	0.019 - 0.406"	016-SPAN	5.00"	4.13"	1.26"	30K	1
B3007-0020-2.50	ER20	0.039 - 0.511"	020-SPAN	2.50"	1.63"	1.38"	30K	1
B3007-0020-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	3.13"	1.38"	30K	1
B3007-0025-2.00	ER25	0.039 - 0.629"	025-SPAN	2.00"	1.13"	1.65"	30K	1
B3007-0025-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	3.14"	1.65"	30K	1
B3007-0032-3.00	ER32	0.078 - 0.787"	032-SPAN	3.00"	2.13"	1.97"	30K	1
B3007-0032-5.00	ER32	0.078 - 0.787"	032-SPAN	5.00"	4.13"	1.97"	30K	1

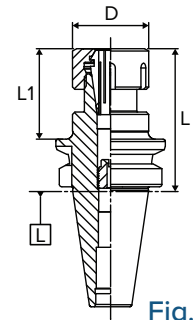


Fig. 6

### BT30 - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
BT30-ER16-70	ER16	0.019 - 0.406"	016-SPAN	70	2.76"	1.89"	1.10"	30K	1
BT30-ER16-100	ER16	0.019 - 0.406"	016-SPAN	100	3.94"	3.07"	1.10"	30K	1

### BT30 - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
BT30-ER20-63.5	ER20	0.039 - 0.511"	020-SPAN	63.5	2.50"	1.63"	1.34"	30K	1
BT30-ER20-100	ER20	0.039 - 0.511"	020-SPAN	100	3.94"	3.07"	1.34"	30K	1
BT30-ER25-60	ER25	0.039 - 0.629"	025-SPAN	60	2.36"	1.46"	1.65"	30K	1
BT30-ER25-90	ER25	0.039 - 0.629"	025-SPAN	90	3.54"	2.64"	1.65"	30K	1
BT30-ER32-70	ER32	0.078 - 0.787"	032-SPAN	70	2.76"	1.89"	1.97"	30K	1
BT30-ER32-100	ER32	0.078 - 0.787"	032-SPAN	100	3.94"	3.07"	1.97"	30K	1

#### Notes:

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length. To confirm clearance, please download model/drawing from our website



Available in **TAPER PLUS<sup>+</sup>**  
Dual-taper and flange contact

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See ER Coolant Collets on pages 65-70



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ER Torque  
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ER Back Up  
Screws  
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ER Nuts  
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## BT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



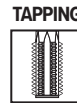
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



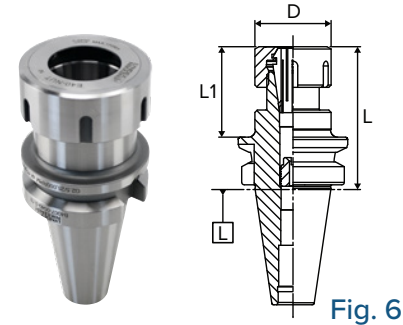
**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT40 - BEARING NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Max. RPM	Fig.
B4007-0008-4.00M	ER8	0.019 - 0.275"	WRENCH-ER08-MINI	4.00"	2.94"	0.47"	25K	1
B4007-0011-2.50	ER11	0.019 - 0.275"	011-HEX	2.50"	1.44"	0.75"	25K	1
B4007-0011-4.00	ER11	0.019 - 0.275"	011-HEX	4.00"	2.94"	0.75"	25K	1
B4007-0011-6.00	ER11	0.019 - 0.275"	011-HEX	6.00"	4.95"	0.75"	25K	1
B4007-0016-3.50	ER16	0.019 - 0.406"	016-SPAN	3.50"	2.43"	1.26"	25K	1
B4007-0016-5.00	ER16	0.019 - 0.406"	016-SPAN	5.00"	3.94"	1.26"	25K	1
B4007-0020-2.50	ER20	0.039 - 0.511"	020-SPAN	2.50"	1.43"	1.38"	25K	1
B4007-0020-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.94"	1.38"	25K	1
B4007-0020-6.00	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.94"	1.38"	25K	1
B4007-0025-2.25	ER25	0.039 - 0.629"	025-SPAN	2.25"	1.19"	1.65"	25K	1
B4007-0025-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.93"	1.65"	25K	1
B4007-0025-6.00	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.94"	1.65"	25K	1
B4007-0032-3.13	ER32	0.078 - 0.787"	032-SPAN	3.13"	2.06"	1.97"	25K	1
B4007-0032-5.00	ER32	0.078 - 0.787"	032-SPAN	5.00"	3.94"	1.97"	25K	1
B4007-0040-3.13	ER40	0.078 - 0.787"	032-SPAN	3.13"	2.06"	2.44"	25K	1



### BT40 - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
BT40-ER16-70	ER16	0.019 - 0.406"	016-SPAN	70.000	2.76"	1.69"	1.10"	25K	1
BT40-ER16-100	ER16	0.019 - 0.406"	016-SPAN	100.000	3.94"	2.87"	1.10"	25K	1

### BT40 - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
BT40-ER20-70	ER20	0.039 - 0.511"	020-SPAN	70.000	2.76"	1.69"	1.34"	25K	1
BT40-ER20-100	ER20	0.039 - 0.511"	020-SPAN	100.000	3.94"	2.87"	1.34"	25K	1
BT40-ER25-70	ER25	0.039 - 0.629"	025-SPAN	70.000	2.76"	1.69"	1.66"	25K	1
BT40-ER25-100	ER25	0.039 - 0.629"	025-SPAN	100.000	3.94"	2.87"	1.66"	25K	1
BT40-ER32-70	ER32	0.078 - 0.787"	032-SPAN	70.000	2.76"	1.69"	1.97"	25K	1
BT40-ER32-100	ER32	0.078 - 0.787"	032-SPAN	100.000	3.94"	2.87"	1.97"	25K	1

**Notes:**

- Back-up Screw included with ER Collet Chuck.
- \*For Extended Length holders, "L" dimension has tapered length. To confirm clearance, please download model/drawing from our website



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# ER COLLET CHUCKS

## BT ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant

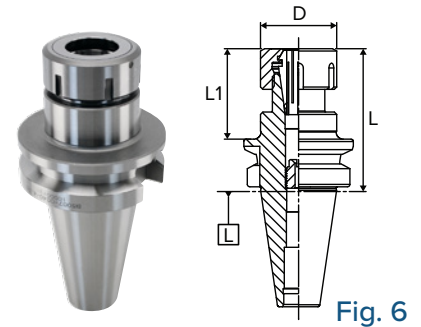


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### BT50 - BEARING NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Max. RPM	Fig.
<b>B5007-0016-4.12</b>	ER16	0.019 - 0.406"	016-SPAN	4.12"	2.63"	1.26"	25K	1
<b>B5007-0016-6.00</b>	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.51"	1.26"	25K	1
<b>B5007-0020-2.75</b>	ER20	0.039 - 0.511"	020-SPAN	2.75"	1.26"	1.38"	25K	1
<b>B5007-0020-4.00</b>	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.50"	1.38"	25K	1
<b>B5007-0025-2.63</b>	ER25	0.039 - 0.511"	020-SPAN	2.63"	1.13"	1.65"	25K	1
<b>B5007-0025-4.00</b>	ER25	0.039 - 0.511"	020-SPAN	4.00"	2.50"	1.65"	25K	1
<b>B5007-0032-4.00</b>	ER32	0.078 - 0.787"	032-SPAN	4.00"	2.50"	1.97"	25K	1
<b>B5007-0032-6.00</b>	ER32	0.078 - 0.787"	032-SPAN	6.00"	4.50"	1.97"	25K	1
<b>B5007-0040-4.00</b>	ER40	0.078 - 0.787"	032-SPAN	4.00"	2.50"	2.44"	25K	1
<b>B5007-0040-6.00</b>	ER40	0.078 - 0.787"	032-SPAN	6.00"	4.50"	2.44"	25K	1

Note: ER Collet Chucks come with back-up screw.



#### Notes:

- Back-up Screw included with ER Collet Chuck.
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Wrenches  
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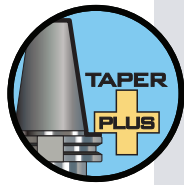


ER Back Up  
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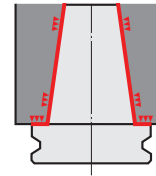
ER Nuts  
Page 74

## TAPER PLUS ER COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT40

Part Number	Collet Size	Collet Range	L	L1	L2	D	D1	Max. RPM	Fig.
NC4007-0016-3.50G	ER16	0.019 - 0.406"	3.50"	2.12"	-	1.26"	1.75"	25K	2
NC4007-0016-6.00G	ER16	0.019 - 0.406"	6.00"	4.62"	-	1.26"	1.75"	25K	2
NC4007-0016-9.00G	ER16	0.019 - 0.406"	9.00"	1.64"	7.63"	1.26"	1.75"	25K	3
NC4007-0020-2.50G	ER20	0.039 - 0.511"	2.50"	1.13"	-	1.38"	1.75"	25K	2
NC4007-0020-4.00G	ER20	0.039 - 0.511"	4.00"	2.62"	-	1.38"	1.75"	25K	2
NC4007-0020-6.00G	ER20	0.039 - 0.511"	6.00"	4.62"	-	1.38"	1.75"	25K	2
NC4007-0020-9.00G	ER20	0.039 - 0.511"	9.00"	1.72"	7.63"	1.38"	1.75"	25K	3
NC4007-0025-2.50G	ER25	0.039 - 0.629"	2.50"	1.14"	-	1.65"	1.75"	25K	2
NC4007-0025-4.00G	ER25	0.039 - 0.629"	4.00"	2.63"	-	1.65"	1.75"	25K	2
NC4007-0025-6.00G	ER25	0.039 - 0.629"	6.00"	4.62"	-	1.65"	1.75"	25K	2
NC4007-0032-3.13G	ER32	0.078 - 0.787"	3.13"	1.75"	-	1.97"	1.75"	25K	2
NC4007-0032-5.00G	ER32	0.078 - 0.787"	5.00"	3.62"	-	1.97"	1.75"	25K	2
NC4007-0032-9.00G	ER32	0.078 - 0.787"	9.00"	1.74"	7.63"	1.97"	1.75"	25K	3
NC4007-0040-3.13G	ER40	0.188 - 1.023"	3.13"	1.79"	-	2.44"	1.75"	25K	2

Note: See page 69 for Torque Wrench and attachment options.

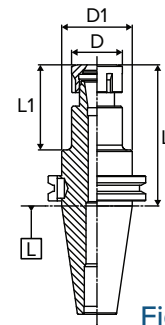


Fig. 2

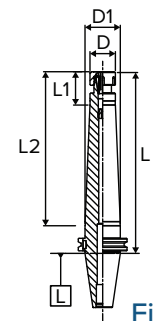


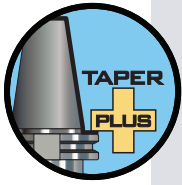
Fig. 3

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70



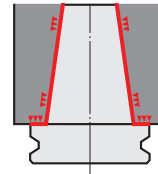
# ER COLLET CHUCKS

## TAPER PLUS ER COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT50

Part Number	Collet Size	Collet Range	L	L1	L2	D	D1	Max. RPM	Fig.
NC5007-0016-4.12G	ER16	0.019 - 0.406"	4.12"	2.75"	-	1.26"	2.75"	25K	2
NC5007-0016-6.00G	ER16	0.019 - 0.406"	6.00"	4.63"	-	1.26"	2.75"	25K	2
NC5007-0016-8.00G	ER16	0.019 - 0.406"	8.00"	1.64"	6.62"	1.26"	2.75"	25K	3
NC5007-0020-4.00G	ER20	0.039 - 0.511"	4.00"	2.62"	-	1.38"	2.75"	25K	2
NC5007-0020-6.00G	ER20	0.039 - 0.511"	6.00"	4.62"	-	1.38"	2.75"	25K	2
NC5007-0020-8.00G	ER20	0.039 - 0.511"	8.00"	1.72"	6.62"	1.38"	2.75"	25K	3
NC5007-0020-12.00G	ER20	0.039 - 0.511"	12.00"	1.57"	10.63"	1.38"	2.75"	25K	3
NC5007-0025-4.00G	ER25	0.039 - 0.629"	4.00"	2.62"	-	1.65"	2.75"	25K	2
NC5007-0025-8.00G	ER25	0.039 - 0.629"	8.00"	1.74"	6.62"	1.65"	2.75"	25K	3
NC5007-0032-4.00G	ER32	0.078 - 0.787"	4.00"	2.62"	-	1.97"	2.75"	25K	2
NC5007-0032-6.00G	ER32	0.078 - 0.787"	6.00"	4.63"	-	1.97"	2.75"	25K	2
NC5007-0032-8.00G	ER32	0.078 - 0.787"	8.00"	1.85"	6.63"	1.97"	2.75"	25K	3
NC5007-0032-12.00G	ER32	0.078 - 0.787"	12.00"	1.85"	10.63"	1.97"	2.75"	25K	3
NC5007-0040-4.00G	ER40	0.118 - 1.023"	4.00"	2.62"	-	2.44"	2.75"	25K	2
NC5007-0040-6.00G	ER40	0.118 - 1.023"	6.00"	4.62"	-	2.44"	2.75"	25K	2
NC5007-0040-8.00G	ER40	0.118 - 1.023"	8.00"	1.97"	6.63"	2.44"	2.75"	25K	3
NC5007-0040-12.00G	ER40	0.118 - 1.023"	12.00"	1.97"	10.63"	2.44"	2.75"	25K	3

Note: See page 69 for Torque Wrench and attachment options.

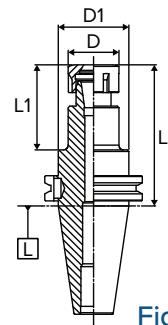


Fig. 2

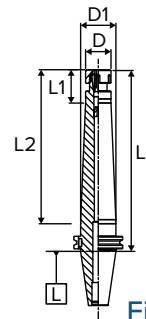


Fig. 3

ER COLLET CHUCKS

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70



ER Collets  
Pages 65-70



ER Torque  
Wrenches  
Page 75

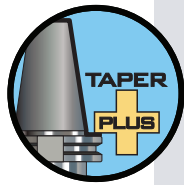


ER Back Up  
Screws  
Page 75



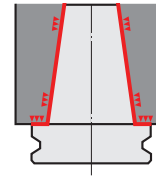
ER Nuts  
Page 74

## TAPER PLUS BT ER COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT30

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Max. RPM	Fig.
NB3007-0008-2.00M	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	2.00"	1.14"	0.47"	30K	1
NB3007-0011-2.00	ER11	0.019 - 0.275"	011-HEX	2.00"	1.14"	0.75"	30K	1
NB3007-0016-2.36G	ER16	0.019 - 0.406"	-	2.36"	1.50"	1.26"	30K	1
NB3007-0016-4.00G	ER16	0.019 - 0.406"	-	4.00"	3.13"	1.26"	30K	1
NB3007-0016-5.00G	ER16	0.019 - 0.406"	-	5.00"	4.14"	1.26"	30K	1
NB3007-0016-6.00G	ER16	0.019 - 0.406"	-	6.00"	5.13"	1.26"	30K	1
NB3007-0020-2.50G	ER20	0.039 - 0.511"	-	2.50"	1.63"	1.38"	30K	1
NB3007-0020-4.00G	ER20	0.039 - 0.511"	-	4.00"	3.13"	1.38"	30K	1
NB3007-0025-2.00G	ER25	0.039 - 0.629"	-	2.00"	1.13"	1.65"	30K	1
NB3007-0025-4.00G	ER25	0.039 - 0.629"	-	4.00"	3.14"	1.65"	30K	1
NB3007-0032-3.00G	ER32	0.078 - 0.787"	-	3.00"	2.13"	1.97"	30K	1
NB3007-0032-5.00G	ER32	0.078 - 0.787"	-	5.00"	4.14"	1.97"	30K	1

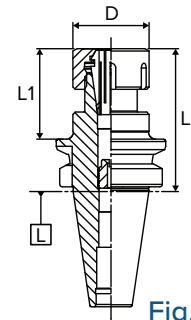


Fig. 6

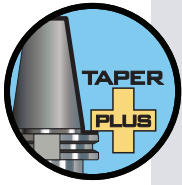
Note: See page 69 for Torque Wrench and attachment options. Only applies to part numbers ending in "G".

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70



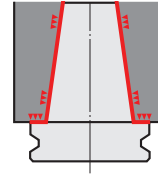
# ER COLLET CHUCKS

## TAPER PLUS BT ER COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT40

Part Number	Collet Size	Collet Range	L	L1	D	Max. RPM	Fig.
<b>NB4007-0020-2.50G</b>	ER20	0.039 - 0.511"	2.50"	1.44"	1.38"	25K	1
<b>NB4007-0020-4.00G</b>	ER20	0.039 - 0.511"	4.00"	2.94"	1.38"	25K	1
<b>NB4007-0020-6.00G</b>	ER20	0.039 - 0.511"	6.00"	4.94"	1.38"	25K	1
<b>NB4007-0025-2.25G</b>	ER25	0.039 - 0.629"	2.25"	1.19"	1.65"	25K	1
<b>NB4007-0025-4.00G</b>	ER25	0.039 - 0.629"	4.00"	2.94"	1.65"	25K	1
<b>NB4007-0025-6.00G</b>	ER25	0.039 - 0.629"	6.00"	4.94"	1.65"	25K	1
<b>NB4007-0032-3.13G</b>	ER32	0.078 - 0.787"	3.13"	2.06"	1.97"	25K	1
<b>NB4007-0032-5.00G</b>	ER32	0.078 - 0.787"	5.00"	3.94"	1.97"	25K	1
<b>NB4007-0032-6.30G</b>	ER32	0.078 - 0.787"	6.30"	5.28"	1.97"	25K	1

Note: See page 69 for Torque Wrench and attachment options.

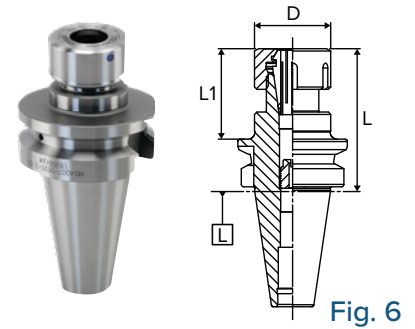


Fig. 6

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70



## HSK ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



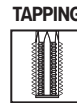
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK40A/63A

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	L2	D	D1	Max. RPM	Fig.
HSK40A-ER11-75	ER11	0.019 - 0.275"	011-HEX	75	2.95"	2.17"	-	0.75"	-	25K	1
HSK40A-ER16-75	ER16	0.019 - 0.406"	016-SPAN	75	2.95"	2.16"	-	1.26"	-	25K	1
HSK40A-ER20-75	ER20	0.039 - 0.511"	020-SPAN	75	2.95"	2.17"	-	1.38"	-	25K	1
HSK40A-ER25-80	ER25	0.039 - 0.629"	025-SPAN	80	3.15"	2.36"	-	1.65"	-	25K	1
HSK40A-ER32-80	ER32	0.078 - 0.787"	032-SPAN	80	3.15"	2.36"	-	1.97"	-	25K	1
HSK63A-ER11-4.33	ER11	0.019 - 0.275"	011-HEX	-	4.33"	2.96"	3.35"	0.63"	1.00"	25K	2
HSK63A-ER16-3.00	ER16	0.019 - 0.406"	016-SPAN	-	3.00"	1.98"	-	1.26"	-	25K	1
HSK63A-ER16-5.00	ER16	0.019 - 0.406"	016-SPAN	-	5.00"	3.98"	-	1.26"	-	25K	1
HSK63A-ER20-3.00	ER20	0.039 - 0.511"	020-SPAN	-	3.00"	1.99"	-	1.38"	-	25K	1
HSK63A-ER20-5.00	ER20	0.039 - 0.511"	020-SPAN	-	5.00"	3.98"	-	1.38"	-	25K	1
HSK63A-ER25-3.00	ER25	0.039 - 0.629"	025-SPAN	-	3.00"	1.98"	-	1.65"	-	25K	1
HSK63A-ER25-5.00	ER25	0.039 - 0.629"	025-SPAN	-	5.00"	3.98"	-	1.65"	-	25K	1
HSK63A-ER32-4.00	ER32	0.078 - 0.787"	032-SPAN	-	4.00"	2.99"	-	1.97"	-	25K	1
HSK63A-ER32-6.00	ER32	0.078 - 0.787"	032-SPAN	-	6.00"	4.98"	-	1.97"	-	25K	1
HSK63A-ER40-4.00	ER40	0.118 - 1.023"	040-SPAN	-	4.00"	2.97"	-	2.44"	-	25K	1
HSK63A-ER40-6.00	ER40	0.118 - 1.023"	040-SPAN	-	6.00"	4.98"	-	2.44"	-	25K	1

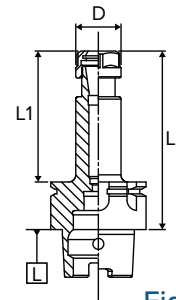


Fig. 7

### HSK63A - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
HSK63A-ER16S-80	ER16	0.019 - 0.406"	016-SPAN	80	3.15"	2.13"	1.10"	25K	1
HSK63A-ER16S-100	ER16	0.019 - 0.406"	016-SPAN	100	3.94"	2.91"	1.10"	25K	1
HSK63A-ER16S-160	ER16	0.019 - 0.406"	016-SPAN	160	6.30"	5.28"	1.10"	25K	1

### HSK63A - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
HSK63A-ER20S-80	ER20	0.039 - 0.511"	020-SPAN	80	3.15"	2.13"	1.34"	25K	1
HSK63A-ER20S-100	ER20	0.039 - 0.511"	020-SPAN	100	3.94"	2.91"	1.34"	25K	1
HSK63A-ER20S-160	ER20	0.039 - 0.511"	020-SPAN	160	6.30"	5.28"	1.34"	25K	1
HSK63A-ER25S-80	ER25	0.078 - 0.787"	025-SPAN	80	3.15"	2.13"	1.66"	25K	1
HSK63A-ER25S-150	ER25	0.078 - 0.787"	025-SPAN	150	5.91"	4.88"	1.66"	25K	1
HSK63A-ER32S-80	ER32	0.078 - 0.787"	032-SPAN	80	3.15"	2.13"	1.97"	25K	1
HSK63A-ER32S-100	ER32	0.078 - 0.787"	032-SPAN	100	3.94"	2.91"	1.97"	25K	1
HSK63A-ER32S-160	ER32	0.078 - 0.787"	032-SPAN	160	6.30"	5.28"	1.97"	25K	1
HSK63A-ER40S-80	ER40	0.118 - 1.023"	040-SPAN	80	3.15"	2.13"	2.48"	25K	1
HSK63A-ER40S-120	ER40	0.118 - 1.023"	040-SPAN	120	4.72"	3.70"	2.48"	25K	1

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70



# ER COLLET CHUCKS

## HSK ER COLLET CHUCKS

### FEATURES

- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a right-hand-threaded back-up screw



**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant

**MILLING**



**REAMING**



**DRILLING**



**TAPPING**



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK100A

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Max. RPM	Fig.
HSK100A-ER16-4.00	ER16	0.019 - 0.406"	016-SPAN	4.00"	2.87"	1.26"	25K	1
HSK100A-ER16-6.00	ER16	0.019 - 0.406"	016-SPAN	6.00"	4.85"	1.26"	25K	1
HSK100A-ER20-4.00	ER20	0.039 - 0.511"	020-SPAN	4.00"	2.85"	1.38"	25K	1
HSK100A-ER20-6.00	ER20	0.039 - 0.511"	020-SPAN	6.00"	4.86"	1.38"	25K	1
HSK100A-ER25-4.00	ER25	0.039 - 0.629"	025-SPAN	4.00"	2.85"	1.65"	25K	1
HSK100A-ER25-6.00	ER25	0.039 - 0.629"	025-SPAN	6.00"	4.86"	1.65"	25K	1
HSK100A-ER32-4.00	ER32	0.078 - 0.787"	032-SPAN	4.00"	2.85"	1.97"	25K	1
HSK100A-ER32-6.00	ER32	0.078 - 0.787"	032-SPAN	6.00"	4.85"	1.97"	25K	1
HSK100A-ER40-4.00	ER40	0.118 - 1.023"	040-SPAN	4.00"	2.86"	2.44"	25K	1
HSK100A-ER40-6.00	ER40	0.118 - 1.023"	040-SPAN	6.00"	4.86"	2.44"	25K	1

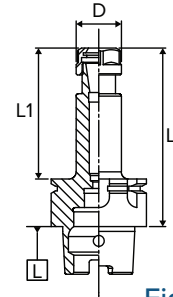


Fig. 7

Note: Coolant tube and coolant wrench not included. See page 75 for details.

### HSK100A - SOLID HEX NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
HSK100A-ER16S-100	ER16	0.019 - 0.406"	016-SPAN	100	3.94"	2.79"	1.10"	25K	1
HSK100A-ER16S-160	ER16	0.019 - 0.406"	016-SPAN	160	6.30"	5.16"	1.10"	25K	1

### HSK100A - SOLID NUT

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
HSK100A-ER32S-100	ER32	0.078 - 0.787"	032-SPAN	100	3.94"	2.78"	1.97"	25K	1
HSK100A-ER32S-160	ER32	0.078 - 0.787"	032-SPAN	160	6.30"	5.16"	1.97"	25K	1
HSK100A-ER40S-120	ER40	0.118 - 1.023"	040-SPAN	120	4.72"	3.59"	2.48"	25K	1

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See ER Coolant Collets on pages 65-70



ER Collets  
Pages 65-70



ER Torque  
Wrenches  
Page 75



ER Back Up  
Screws  
Page 75



ER Nuts  
Page 74

## NMTB AND R8 ER COLLET CHUCKS

### FEATURES

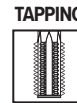
- Ball bearing nut with ground collet race
- AT3 or better taper



**T.I.R.**  
≤ 0.0001" in ID bore



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### NMTB30/40/50

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Fig.
<b>N3007-0011-2.00</b>	ER11	0.019 - 0.275"	011-HEX	2.00"	1.60"	0.75"	1
<b>N3007-0016-1.77</b>	ER16	0.019 - 0.406"	016-SPAN	1.77"	1.35"	1.26"	1
<b>N4007-0016-1.77</b>	ER16	0.019 - 0.406"	016-SPAN	1.77"	1.41"	1.26"	1
<b>N4007-0025-2.00</b>	ER25	0.039 - 0.629"	025-SPAN	2.00"	1.62"	1.65"	1
<b>N5007-0016-2.00</b>	ER16	0.019 - 0.406"	016-SPAN	2.00"	1.41"	1.26"	1
<b>N5007-0025-2.00</b>	ER25	0.039 - 0.629"	025-SPAN	2.00"	1.41"	1.65"	1

Note: NMTB shanks are suitable for use with Erickson Quick Change spindles.

### R8

Part Number	Collet Size	Collet Range	Nut Wrench	L	L1	D	Fig.
<b>R8007-0016-1.00S</b>	ER16	0.019 - 0.406"	WRENCH-ER16-HEX	1.00"	0.87"	1.10"	1
<b>R8007-0020-2.00S</b>	ER20	0.039 - 0.511"	WRENCH-ER20-HEX	2.00"	2.07"	1.34"	1
<b>R8007-0025-2.50S</b>	ER25	0.039 - 0.629"	025-SPAN	2.50"	2.37"	1.65"	1

Note: ER Collet Chucks come with back-up screw.

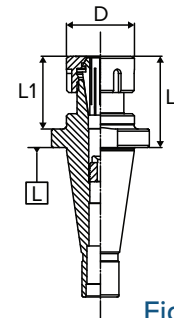


Fig. 8

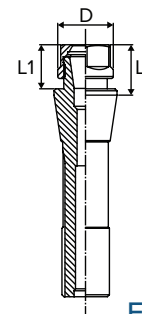


Fig. 9

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70





# ER COLLET CHUCKS

## ER COLLET CHUCK EXTENSIONS

Part Number	Collet Size	Collet Range	Nut Wrench	D	D1	L	L1	Fig.
ER8-EXT-500M	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	0.49"	0.50"	5.95"	0.95"	1
ER8-EXT-625M	ER8	0.019 - 0.197"	WRENCH-ER08-MINI	0.49"	0.63"	5.95"	0.95"	1
E11-EXT-500	ER11	0.019 - 0.275"	011-HEX	0.75"	0.50"	6.07"	1.07"	1
E11-EXT-625	ER11	0.019 - 0.275"	011-HEX	0.75"	0.63"	6.07"	1.07"	1
E11-EXT-750	ER11	0.019 - 0.275"	011-HEX	0.75"	0.75"	5.61"	0.61"	1
E16-EXT-100	ER16	0.019 - 0.406"	016-SPAN	1.26"	1.00"	5.89"	0.97"	1
E16-EXT-625	ER16	0.019 - 0.406"	016-SPAN	1.26"	0.63"	6.48"	1.48"	1
E16-EXT-750	ER16	0.019 - 0.406"	016-SPAN	1.26"	0.75"	6.48"	1.48"	1
E20-EXT-100	ER20	0.039 - 0.511"	020-SPAN	1.38"	1.00"	6.40"	1.40"	1
E20-EXT-125	ER20	0.039 - 0.511"	020-SPAN	1.38"	1.25"	6.39"	1.39"	1
E20-EXT-750	ER20	0.039 - 0.511"	020-SPAN	1.38"	0.75"	6.67"	1.67"	1
E25-EXT-100	ER25	0.039 - 0.629"	025-SPAN	1.65"	1.00"	6.85"	1.85"	1
E25-EXT-125	ER25	0.039 - 0.629"	025-SPAN	1.65"	1.25"	6.00"	1.00"	1
E25-EXT-750	ER25	0.039 - 0.629"	025-SPAN	1.65"	0.75"	6.86"	1.86"	1
E32-EXT-100	ER32	0.078 - 0.787"	032-SPAN	1.97"	1.00"	7.09"	2.09"	1
E32-EXT-125	ER32	0.078 - 0.787"	032-SPAN	1.97"	1.25"	7.09"	2.09"	1

Note: ER Collet Chucks come with back-up screw.

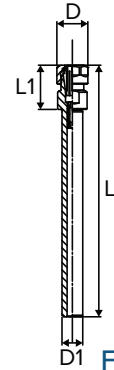


Fig. 10

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER coolant Collets on pages 52-59



## Lyndex-Nikken Offers Single and Dual Plane Balancing for Large Diameter or Long Tooling Assemblies

### Benefits of ER Collet Chuck Balancing:

- Balanced assemblies can reduce spindle vibration—prolonging the life of your cutting tools and spindle.
- Increase the quality and consistency of machined surface finishes.
- Achieves greater machined surface flatness.
- Balancing service is only required once during initial set up.



ER Collets  
Pages 65-70



ER Torque  
Wrenches  
Page 75



ER Back Up  
Screws  
Page 75



ER Nuts  
Page 74

## POLYGONAL TAPER ER COLLET CHUCKS

### FEATURES

- Extremely stable and rigid connection between tool and the machine
- High torque and bending forces transmission due to simultaneous tapered polygon and face contact with machine spindle
- Self centering ability due to unique design
- Internal coolant supply, directly to the tool tip
- Best solution for all processes - both in turning and milling
- Modular design for flexible tooling
- Standardized interface as per ISO 26623



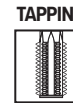
**T.I.R.**  
≤ 0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### C3/C4/C5/C6/C8

Part Number	Collet Size	Collet Range	Nut Wrench	L (mm)	L	L1	D	Max. RPM	Fig.
C3-ER16-45	ER16	0.019 - 0.406"	016-SPAN	45	1.77"	1.18"	1.26"	25K	1
C3-ER20-45	ER20	0.039 - 0.511"	020-SPAN	45	1.77"	1.18"	1.38"	25K	1
C4-ER16-70	ER16	0.019 - 0.406"	016-SPAN	70	2.76"	1.97"	1.26"	25K	1
C4-ER20-52	ER20	0.039 - 0.511"	020-SPAN	52	2.05"	1.26"	1.38"	25K	1
C4-ER25-52	ER25	0.039 - 0.629"	025-SPAN	52	2.05"	1.14"	1.65"	25K	1
C4-ER32-54	ER32	0.078 - 0.787"	032-SPAN	54	2.13"	1.34"	1.97"	25K	1
C5-ER16-100	ER16	0.019 - 0.406"	016-SPAN	100	3.94"	3.15"	1.26"	25K	1
C5-ER20-55	ER20	0.039 - 0.511"	020-SPAN	55	2.17"	1.38"	1.38"	25K	1
C5-ER20-100	ER20	0.039 - 0.511"	020-SPAN	100	3.94"	3.15"	1.38"	25K	1
C5-ER20-130	ER20	0.039 - 0.511"	020-SPAN	130	5.12"	4.33"	1.38"	25K	1
C5-ER25-55	ER25	0.039 - 0.629"	025-SPAN	55	2.17"	1.38"	1.65"	25K	1
C5-ER25-100	ER25	0.039 - 0.629"	025-SPAN	100	3.94"	3.15"	1.65"	25K	1
C5-ER32-57	ER32	0.078 - 0.787"	032-SPAN	57	2.24"	1.46"	1.97"	25K	1
C5-ER32-100	ER32	0.078 - 0.787"	032-SPAN	100	3.94"	3.15"	1.97"	25K	1
C5-ER40-60	ER40	0.118 - 1.023"	040-SPAN	60	2.36"	1.58"	2.44"	25K	1
C6-ER16-100	ER16	0.019 - 0.406"	016-SPAN	100	3.94"	3.07"	1.26"	25K	1
C6-ER20-60	ER20	0.039 - 0.511"	020-SPAN	60	2.36"	1.50"	1.38"	25K	1
C6-ER20-100	ER20	0.039 - 0.511"	020-SPAN	100	3.94"	3.07"	1.38"	25K	1
C6-ER25-60	ER25	0.039 - 0.629"	025-SPAN	60	2.36"	1.50"	1.65"	25K	1
C6-ER25-100	ER25	0.039 - 0.629"	025-SPAN	100	3.94"	3.07"	1.67"	25K	1
C6-ER32-60	ER32	0.078 - 0.787"	032-SPAN	60	2.36"	1.50"	1.97"	25K	1
C6-ER32-100	ER32	0.078 - 0.787"	032-SPAN	100	3.94"	3.07"	1.97"	25K	1
C6-ER32-130	ER32	0.078 - 0.787"	032-SPAN	130	5.12"	4.25"	1.97"	25K	1
C6-ER40-65	ER40	0.118 - 1.023"	040-SPAN	65	2.56"	1.69"	2.44"	25K	1
C8-ER20-65	ER20	0.039 - 0.511"	020-SPAN	65	2.56"	1.38"	1.38"	25K	1
C8-ER25-70	ER25	0.039 - 0.629"	025-SPAN	70	2.76"	1.58"	1.65"	25K	1
C8-ER32-70	ER32	0.078 - 0.787"	032-SPAN	70	2.76"	1.58"	1.97"	25K	1
C8-ER32-160	ER32	0.078 - 0.787"	032-SPAN	160	6.30"	5.12"	1.97"	25K	1
C8-ER40-70	ER40	0.118 - 1.023"	040-SPAN	70	2.76"	1.58"	2.44"	25K	1

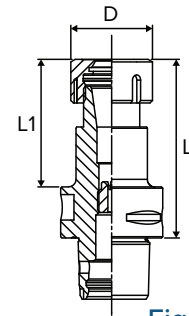


Fig. 11

ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!  
See ER Coolant Collets on pages 65-70

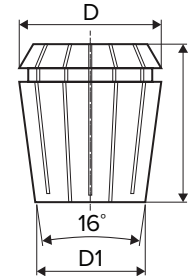


# ER COLLET CHUCKS

## ER8 AND ER11 COLLETS

### ER COLLET DIMENSIONAL DATA

Style	D	D1	L	Collet Range	Coolant Collet Size Range
ER8	0.330"	0.216"	0.535"	0.019 - 0.196"	N/A
ER11	0.460"	0.307"	0.709"	0.019 - 0.275"	0.157 - 0.275"
ER16	0.677"	0.445"	1.063"	0.019 - 0.393"	0.157 - 0.393"
ER20	0.835"	0.571"	1.220"	0.039 - 0.511"	0.196 - 0.511"
ER25	1.031"	0.728"	1.378"	0.039 - 0.629"	0.236 - 0.629"
ER32	1.307"	0.960"	1.575"	0.078 - 0.787"	0.393 - 0.787"
ER40	1.622"	1.228"	1.811"	0.118 - 1.023"	0.393 - 1.023"



### ER8 COLLETS

Size range: 1.00 - 5.00mm (0.039" - 0.197")

#### METRIC

Part Number	Size	Collapse Range
ER8-039	1.0mm	0.5~1mm
ER8-059	1.5mm	1~1.5mm
ER8-078	2.0mm	1.5~2mm
ER8-098	2.5mm	2~2.5mm
ER8-118	3.0mm	2.5 - 3mm
ER8-137	3.5mm	3~3.5mm
ER8-157	4.0mm	3.5~4mm
ER8-177	4.5mm	4 - 4.5mm
ER8-196	5.0mm	4.5 - 5mm
ER8-SET-09-MM	9 Piece Set 0.5 - 5.0mm by 0.5mm	



#### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.



#### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

### ER11 COLLETS

Size Range: 1/32 - 17/64"  
(0.031 - 0.266")

Size Range: 1.0 - 7.0mm  
(0.039 - 0.276")

Size Range: 3/16 - 17/64"  
(0.188 - 0.266")

Size Range: 4.0 - 7.0mm  
(0.157 - 0.276")

#### INCH

Part Number	Size	Collapse Range
E11-002	1/32"	0.012 - 0.031"
E11-003	3/64"	0.027 - 0.047"
E11-004	1/16"	0.043 - 0.063"
E11-005	5/64"	0.058 - 0.078"
E11-006	3/32"	0.074 - 0.094"
E11-007	7/64"	0.09 - 0.109"
E11-008	1/8"	0.105 - 0.125"
E11-009	9/64"	0.121 - 0.141"
E11-010	5/32"	0.137 - 0.156"
E11-011	11/64"	0.156 - 0.172"
E11-012	3/16"	0.168 - 0.188"
E11-013	13/64"	0.183 - 0.203"
E11-014	7/32"	0.199 - 0.219"
E11-015	15/64"	0.215 - 0.234"
E11-016	1/4"	0.23 - 0.25"
E11-017	17/64"	0.246 - 0.266"

#### METRIC

Part Number	Size	Collapse Range
E11-039	1.0mm	0.5 - 1mm
E11-059	1.5mm	1 - 1.5mm
E11-078	2.0mm	1.5 - 2mm
E11-098	2.5mm	2 - 2.5mm
E11-118	3.0mm	2.5 - 3mm
E11-137	3.5mm	3 - 3.5mm
E11-157	4.0mm	3.5 - 4mm
E11-177	4.5mm	4 - 4.5mm
E11-196	5.0mm	4.5 - 5mm
E11-216	5.5mm	5 - 5.5mm
E11-236	6.0mm	5.5 - 6mm
E11-255	6.5mm	6 - 6.5mm
E11-275	7.0mm	6.5 - 7mm

#### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E11-012(C)	3/16"	0.183 - 0.188"
E11-013(C)	13/64"	0.199 - 0.203"
E11-014(C)	7/32"	0.215 - 0.219"
E11-015(C)	15/64"	0.23 - 0.234"
E11-016(C)	1/4"	0.246 - 0.25"
E11-017(C)	17/64"	0.262 - 0.266"

#### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E11-157(C)	4.0mm	3.9 - 4mm
E11-177(C)	4.5mm	4.4 - 4.5mm
E11-196(C)	5.0mm	4.9 - 5mm
E11-216(C)	5.5mm	5.4 - 5.5mm
E11-236(C)	6.0mm	5.9 - 6mm
E11-255(C)	6.5mm	6.4 - 6.5mm
E11-275(C)	7.0mm	6.9 - 7mm

### ER11 COLLET SETS

E11-SET-14	14 Piece Set: 1/16" - 17/64" by 1/64ths
E11-SET-12-MM	12 Piece Set: 1.0 mm- 7.0mm by 0.5mm

### ER11 COOLANT COLLET SETS

E11-SET-06(C)	6 Piece Set: 3/16" - 1/4" by 1/64ths
E11-SET-07(C)-MM	7 Piece Set: 3.9mm - 7.0mm by 0.5mm

## ER16 COLLETS



### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.

Size Range: 1/32 - 13/32"  
(0.031 - 0.406")

Size Range: 1.0 - 10.0mm  
(0.039 - 0.394")

### INCH

Part Number	Size	Collapse Range
E16-002	1/32"	0.012 - 0.031"
E16-004	1/16"	0.043 - 0.063"
E16-006	3/32"	0.074 - 0.094"
E16-008	1/8"	0.105 - 0.125"
E16-010	5/32"	0.141 - 0.156"
E16-012	3/16"	0.148 - 0.188"
E16-014	7/32"	0.179 - 0.219"
E16-016	1/4"	0.211 - 0.25"
E16-018	9/32"	0.242 - 0.281"
E16-020	5/16"	0.273 - 0.313"
E16-022	11/32"	0.304 - 0.344"
E16-024	3/8"	0.336 - 0.375"
E16-026	13/32"	0.367 - 0.406"

### METRIC

Part Number	Size	Collapse Range
E16-039	1.0mm	0.5 - 1mm
E16-059	1.5mm	1 - 1.5mm
E16-078	2.0mm	1.5 - 2mm
E16-098	2.5mm	2 - 2.5mm
E16-118	3.0mm	2.5 - 3mm
E16-137	3.5mm	3 - 3.5mm
E16-157	4.0mm	3.5 - 4mm
E16-177	4.5mm	4 - 4.5mm
E16-196	5.0mm	4 - 5mm
E16-216	5.5mm	4.5 - 5.5mm
E16-236	6.0mm	5 - 6mm
E16-255	6.5mm	5.5 - 6.5mm
E16-275	7.0mm	6 - 7mm
E16-295	7.5mm	6.5 - 7.5mm
E16-314	8.0mm	7 - 8mm
E16-334	8.5mm	7.5 - 8.5mm
E16-354	9.0mm	8 - 9mm
E16-374	9.5mm	8.5 - 9.5mm
E16-393	10.0mm	9 - 10mm

### ER16 COLLET SETS

E16-SET-12	12 Piece Set: 1/16" - 13/32" by 1/32nds
E16-SET-09-MM	9 Piece Set: 1.5mm - 10.0mm by 1mm

Note: See dimensional data for ER16 Collets on page 59.



### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

Size range: 3/32 - 13/32"  
(0.094 - 0.406")

Size Range: 3.0 - 10.0mm  
(0.039 - 0.394")

### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E16-006(C)	3/32"	0.09 - 0.094"
E16-007(C)	7/64"	0.105 - 0.109"
E16-008(C)	1/8"	0.121 - 0.125"
E16-009(C)	9/64"	0.137 - 0.141"
E16-010(C)	5/32"	0.152 - 0.156"
E16-011(C)	11/64"	0.168 - 0.172"
E16-012(C)	3/16"	0.183 - 0.188"
E16-013(C)	13/64"	0.199 - 0.203"
E16-014(C)	7/32"	0.215 - 0.219"
E16-015(C)	15/64"	0.215 - 0.234"
E16-016(C)	1/4"	0.23 - 0.25"
E16-017(C)	17/64"	0.246 - 0.266"
E16-018(C)	9/32"	0.262 - 0.281"
E16-019(C)	19/64"	0.277 - 0.297"
E16-020(C)	5/16"	0.293 - 0.313"
E16-021(C)	21/64"	0.308 - 0.328"
E16-022(C)	11/32"	0.324 - 0.344"
E16-023(C)	23/64"	0.34 - 0.359"
E16-024(C)	3/8"	0.355 - 0.375"
E16-025(C)	25/64"	0.371 - 0.391"
E16-026(C)	13/32"	0.387 - 0.406"

### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E16-118(C)	3.0mm	2.9 - 3mm
E16-157(C)	4.0mm	3.9 - 4mm
E16-177(C)	4.5mm	4.4 - 4.5mm
E16-196(C)	5.0mm	4.9 - 5mm
E16-216(C)	5.5mm	5.4 - 5.5mm
E16-236(C)	6.0mm	5.5 - 6mm
E16-255(C)	6.5mm	6 - 6.5mm
E16-275(C)	7.0mm	6.5 - 7mm
E16-295(C)	7.5mm	7 - 7.5mm
E16-314(C)	8.0mm	7.5 - 8mm
E16-334(C)	8.5mm	8 - 8.5mm
E16-354(C)	9.0mm	8.5 - 9mm
E16-374(C)	9.5mm	9 - 9.5mm
E16-393(C)	10.0mm	9.5 - 10mm

### ER16 COOLANT COLLET SETS

E16-SET-11(C)	11 Piece Set: 3/32" - 13/32" by 1/32nds
E16-SET-13(C)-MM	13 Piece Set: 3.9mm - 10.0mm by 0.5mm
E16-SET-15(C)	15 Piece Set: 3/16" - 11/32" by 1/64ths

# ER COLLET CHUCKS



## ER20 COLLETS



### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.



### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

Size Range: 1/16 - 1/2"  
(0.062 - 0.500")

Size Range: 2.0 - 13.0mm  
(0.079 - 0.512")

Size Range: 5/32 - 1/2"  
(0.156 - 0.500")

Size Range: 5.0 - 13.0mm  
(0.197 - 0.512")

### INCH

Part Number	Size	Collapse Range
E20-004	1/16"	0.043 - 0.063"
E20-006	3/32"	0.074 - 0.094"
E20-008	1/8"	0.105 - 0.125"
E20-010	5/32"	0.136 - 0.156"
E20-012	3/16"	0.148 - 0.188"
E20-014	7/32"	0.179 - 0.219"
E20-016	1/4"	0.211 - 0.25"
E20-018	9/32"	0.242 - 0.281"
E20-020	5/16"	0.273 - 0.313"
E20-022	11/32"	0.304 - 0.344"
E20-024	3/8"	0.336 - 0.375"
E20-026	13/32"	0.367 - 0.406"
E20-028	7/16"	0.398 - 0.438"
E20-030	15/32"	0.429 - 0.469"
E20-032	1/2"	0.461 - 0.5"

### METRIC

Part Number	Size	Collapse Range
E20-078	2.0mm	1.5 - 2mm
E20-098	2.5mm	2 - 2.5mm
E20-118	3.0mm	2.5 - 3mm
E20-137	3.5mm	3 - 3.5mm
E20-157	4.0mm	3.5 - 4mm
E20-177	4.5mm	4 - 4.5mm
E20-196	5.0mm	4 - 5mm
E20-236	6.0mm	5 - 6mm
E20-275	7.0mm	6 - 7mm
E20-314	8.0mm	7 - 8mm
E20-354	9.0mm	8 - 9mm
E20-393	10.0mm	9 - 10mm
E20-433	11.0mm	10 - 11mm
E20-452	11.5mm	10.5 - 11.5mm
E20-472	12.0mm	11 - 12mm
E20-511	13.0mm	12 - 13mm

### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E20-010(C)	5/32"	0.152 - 0.156"
E20-011(C)	11/64"	0.168 - 0.172"
E20-012(C)	3/16"	0.183 - 0.188"
E20-013(C)	13/64"	0.199 - 0.203"
E20-014(C)	7/32"	0.199 - 0.219"
E20-015(C)	15/64"	0.215 - 0.234"
E20-016(C)	1/4"	0.23 - 0.25"
E20-017(C)	17/64"	0.246 - 0.266"
E20-018(C)	9/32"	0.262 - 0.281"
E20-019(C)	19/64"	0.277 - 0.297"
E20-020(C)	5/16"	0.293 - 0.313"
E20-021(C)	21/64"	0.308 - 0.328"
E20-022(C)	11/32"	0.324 - 0.344"
E20-023(C)	23/64"	0.34 - 0.359"
E20-024(C)	3/8"	0.355 - 0.375"
E20-025(C)	25/64"	0.371 - 0.391"
E20-026(C)	13/32"	0.387 - 0.406"
E20-027(C)	27/64"	0.402 - 0.422"
E20-028(C)	7/16"	0.418 - 0.438"
E20-029(C)	29/64"	0.433 - 0.453"
E20-030(C)	15/32"	0.449 - 0.469"
E20-031(C)	31/64"	0.465 - 0.484"
E20-032(C)	1/2"	0.48 - 0.5"

### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E20-196(C)	5.0mm	4.9 - 5mm
E20-216(C)	5.5mm	5.4 - 5.5mm
E20-236(C)	6.0mm	5.5 - 6mm
E20-255(C)	6.5mm	6 - 6.5mm
E20-275(C)	7.0mm	6.5 - 7mm
E20-295(C)	7.5mm	7 - 7.5mm
E20-314(C)	8.0mm	7.5 - 8mm
E20-334(C)	8.5mm	8 - 8.5mm
E20-354(C)	9.0mm	8.5 - 9mm
E20-374(C)	9.5mm	9 - 9.5mm
E20-393(C)	10.0mm	9.5 - 10mm
E20-413(C)	10.5mm	10 - 10.5mm
E20-433(C)	11.0mm	10.5 - 11mm
E20-452(C)	11.5mm	11 - 11.5mm
E20-472(C)	12.0mm	11.5 - 12mm
E20-492(C)	12.5mm	12 - 12.5mm
E20-511(C)	13.0mm	12.5 - 13mm

### ER20 COLLET SETS

E20-SET-15	15 Piece Set: 1/16" - 1/2" by 1/32nds
E20-SET-11-MM	11 Piece Set: 3.0mm - 13.0mm by 1mm

### ER20 COOLANT COLLET SETS

E20-SET-12(C)	12 Piece Set: 5/32" - 1/2" by 1/32nds
E20-SET-17(C)-MM	17 Piece Set: 4.9mm - 13.0mm by 0.5mm

Note: See dimensional data for ER20 Collets on page 59.

## ER25 COLLETS



### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.

Size Range: 1/16 - 5/8"  
(0.062 - 0.625")

Size Range: 2.0 - 16.0mm  
(0.079 - 0.630")

### INCH

Part Number	Size	Collapse Range
E25-004	1/16"	0.043 - 0.063"
E25-006	3/32"	0.074 - 0.094"
E25-008	1/8"	0.105 - 0.125"
E25-010	5/32"	0.136 - 0.156"
E25-012	3/16"	0.148 - 0.188"
E25-014	7/32"	0.179 - 0.219"
E25-016	1/4"	0.211 - 0.25"
E25-018	9/32"	0.242 - 0.281"
E25-020	5/16"	0.273 - 0.313"
E25-022	11/32"	0.304 - 0.344"
E25-024	3/8"	0.336 - 0.375"
E25-026	13/32"	0.367 - 0.406"
E25-028	7/16"	0.398 - 0.438"
E25-030	15/32"	0.429 - 0.469"
E25-032	1/2"	0.461 - 0.5"
E25-034	17/32"	0.492 - 0.531"
E25-036	9/16"	0.523 - 0.563"
E25-038	19/32"	0.554 - 0.594"
E25-040	5/8"	0.586 - 0.625"

### METRIC

Part Number	Size	Collapse Range
E25-078	2.0mm	1.5 - 2mm
E25-118	3.0mm	2.5 - 3mm
E25-137	3.5mm	3 - 3.5mm
E25-157	4.0mm	3.5 - 4mm
E25-196	5.0mm	4 - 5mm
E25-236	6.0mm	5 - 6mm
E25-275	7.0mm	6 - 7mm
E25-314	8.0mm	7 - 8mm
E25-354	9.0mm	8 - 9mm
E25-393	10.0mm	9 - 10mm
E25-433	11.0mm	10 - 11mm
E25-452	11.5mm	10.5 - 11.5mm
E25-472	12.0mm	11 - 12mm
E25-511	13.0mm	12 - 13mm
E25-551	14.0mm	13 - 14mm
E25-570	14.5mm	13.5 - 14.5mm
E25-590	15.0mm	14 - 15mm
E25-629	16.0mm	15 - 16mm

### ER25 COLLET SETS

E25-SET-19	19 Piece Set: 1/16" - 5/8" by 1/32nds
E25-SET-14-MM	14 Piece Set: 1.5mm - 16.0mm by 1mm

Note: See dimensional data for ER25 Collets on page 59.



### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

Size Range: 7/32 - 5/8"  
(0.219 - 0.625")

Size Range: 6.0 - 16.0mm  
(0.236 - 0.630")

### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E25-014(C)	7/32"	0.215 - 0.219"
E25-015(C)	15/64"	0.23 - 0.234"
E25-016(C)	1/4"	0.23 - 0.25"
E25-017(C)	17/64"	0.246 - 0.266"
E25-018(C)	9/32"	0.262 - 0.281"
E25-019(C)	19/64"	0.277 - 0.297"
E25-020(C)	5/16"	0.293 - 0.313"
E25-021(C)	21/64"	0.308 - 0.328"
E25-022(C)	11/32"	0.324 - 0.344"
E25-023(C)	23/64"	0.34 - 0.359"
E25-024(C)	3/8"	0.355 - 0.375"
E25-025(C)	25/64"	0.371 - 0.391"
E25-026(C)	13/32"	0.387 - 0.406"
E25-027(C)	27/64"	0.402 - 0.422"
E25-028(C)	7/16"	0.418 - 0.438"
E25-029(C)	29/64"	0.433 - 0.453"
E25-030(C)	15/32"	0.449 - 0.469"
E25-031(C)	31/64"	0.465 - 0.484"
E25-032(C)	1/2"	0.48 - 0.5"
E25-033(C)	33/64"	0.496 - 0.516"
E25-034(C)	17/32"	0.512 - 0.531"
E25-035(C)	35/64"	0.527 - 0.547"
E25-036(C)	9/16"	0.543 - 0.563"
E25-037(C)	37/64"	0.558 - 0.578"
E25-038(C)	19/32"	0.574 - 0.594"
E25-039(C)	39/64"	0.59 - 0.609"
E25-040(C)	5/8"	0.605 - 0.625"

### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E25-236(C)	6.0mm	5.5 - 6mm
E25-255(C)	6.5mm	6 - 6.5mm
E25-275(C)	7.0mm	6.5 - 7mm
E25-295(C)	7.5mm	7 - 7.5mm
E25-314(C)	8.0mm	7.5 - 8mm
E25-334(C)	8.5mm	8 - 8.5mm
E25-354(C)	9.0mm	8.5 - 9mm
E25-374(C)	9.5mm	9 - 9.5mm
E25-393(C)	10.0mm	9.5 - 10mm
E25-413(C)	10.5mm	10 - 10.5mm
E25-433(C)	11.0mm	10.5 - 11mm
E25-452(C)	11.5mm	11 - 11.5mm
E25-472(C)	12.0mm	11.5 - 12mm
E25-492(C)	12.5mm	12 - 12.5mm
E25-511(C)	13.0mm	12.5 - 13mm
E25-531(C)	13.5mm	13 - 13.5mm
E25-551(C)	14.0mm	13.5 - 14mm
E25-570(C)	14.5mm	14 - 14.5mm
E25-590(C)	15.0mm	14.5 - 15mm
E25-610(C)	15.5mm	15 - 15.5mm
E25-629(C)	16.0mm	15.5 - 16mm

### ER25 COOLANT COLLET SETS

E25-SET-13(C)	13 Piece Set: 1/4" - 5/8" by 1/32nds
E25-SET-21(C)-MM	21 Piece Set: 5.5mm - 16.0mm by 0.5mm

# ER COLLET CHUCKS



## ER32 COLLETS



### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.

Size Range: 1/8" - 25/32"  
(0.125 - 0.781")

Size Range: 3.0 - 20.0mm  
(0.118 - 0.787")

### INCH

Part Number	Size	Collapse Range
E32-008	1/8"	0.105 - 0.125"
E32-010	5/32"	0.136 - 0.156"
E32-012	3/16"	0.148 - 0.188"
E32-014	7/32"	0.179 - 0.219"
E32-016	1/4"	0.211 - 0.25"
E32-018	9/32"	0.242 - 0.281"
E32-020	5/16"	0.273 - 0.313"
E32-022	11/32"	0.304 - 0.344"
E32-024	3/8"	0.336 - 0.375"
E32-026	13/32"	0.367 - 0.406"
E32-028	7/16"	0.398 - 0.438"
E32-030	15/32"	0.429 - 0.469"
E32-032	1/2"	0.461 - 0.5"
E32-034	17/32"	0.492 - 0.531"
E32-036	9/16"	0.523 - 0.563"
E32-038	19/32"	0.554 - 0.594"
E32-040	5/8"	0.586 - 0.625"
E32-042	21/32"	0.617 - 0.656"
E32-044	11/16"	0.648 - 0.688"
E32-046	23/32"	0.679 - 0.719"
E32-048	3/4"	0.711 - 0.75"
E32-050	25/32"	0.742 - 0.781"

### METRIC

Part Number	Size	Collapse Range
E32-118	3.0mm	2.5 - 3mm
E32-137	3.5mm	3 - 3.5mm
E32-157	4.0mm	3.5 - 4mm
E32-196	5.0mm	4 - 5mm
E32-236	6.0mm	5 - 6mm
E32-275	7.0mm	6 - 7mm
E32-314	8.0mm	7 - 8mm
E32-354	9.0mm	8 - 9mm
E32-393	10.0mm	9 - 10mm
E32-433	11.0mm	10 - 11mm
E32-452	11.5mm	10.5 - 11.5mm
E32-472	12.0mm	11 - 12mm
E32-511	13.0mm	12 - 13mm
E32-551	14.0mm	13 - 14mm
E32-590	15.0mm	14 - 15mm
E32-629	16.0mm	15 - 16mm
E32-669	17.0mm	16 - 17mm
E32-688	17.5mm	16.5 - 17.5mm
E32-708	18.0mm	17 - 18mm
E32-748	19.0mm	18 - 19mm
E32-767	19.5mm	18.5 - 19.5mm
E32-787	20.0mm	19 - 20mm

### ER32 COLLET SETS

E32-SET-21	21 Piece Set: 1/8" - 3/4" by 1/32nds
E32-SET-18-MM	18 Piece Set: 1.5mm - 20.0mm by 1.0mm

Note: See dimensional data for ER32 Collets on page 59.



### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

Size Range: 1/4 - 25/32"  
(0.250 - 0.781")

Size Range: 7.5 - 20.0mm  
(0.394 - 0.295")

### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E32-016(C)	1/4"	0.246 - 0.25"
E32-017(C)	17/64"	0.262 - 0.266"
E32-018(C)	9/32"	0.277 - 0.281"
E32-019(C)	19/64"	0.293 - 0.297"
E32-020(C)	5/16"	0.308 - 0.313"
E32-021(C)	21/64"	0.308 - 0.328"
E32-022(C)	11/32"	0.324 - 0.344"
E32-023(C)	23/64"	0.34 - 0.359"
E32-024(C)	3/8"	0.355 - 0.375"
E32-025(C)	25/64"	0.371 - 0.391"
E32-026(C)	13/32"	0.387 - 0.406"
E32-027(C)	27/64"	0.402 - 0.422"
E32-028(C)	7/16"	0.418 - 0.438"
E32-029(C)	29/64"	0.433 - 0.453"
E32-030(C)	15/32"	0.449 - 0.469"
E32-031(C)	31/64"	0.465 - 0.484"
E32-032(C)	1/2"	0.48 - 0.5"
E32-033(C)	33/64"	0.496 - 0.516"
E32-034(C)	17/32"	0.512 - 0.531"
E32-035(C)	35/64"	0.527 - 0.547"
E32-036(C)	9/16"	0.543 - 0.563"
E32-037(C)	37/64"	0.558 - 0.578"
E32-038(C)	19/32"	0.574 - 0.594"
E32-039(C)	39/64"	0.59 - 0.609"
E32-040(C)	5/8"	0.605 - 0.625"
E32-041(C)	41/64"	0.621 - 0.641"
E32-042(C)	21/32"	0.637 - 0.656"
E32-043(C)	43/64"	0.652 - 0.672"
E32-044(C)	11/16"	0.668 - 0.688"
E32-045(C)	45/64"	0.683 - 0.703"
E32-046(C)	23/32"	0.699 - 0.719"
E32-047(C)	47/64"	0.715 - 0.734"
E32-048(C)	3/4"	0.73 - 0.75"
E32-049(C)	49/64"	0.746 - 0.766"
E32-050(C)	25/32"	0.762 - 0.781"

### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E32-294(C)	7.5mm	7.4 - 7.5mm
E32-314(C)	8.0mm	7.9 - 8mm
E32-354(C)	9.0mm	8.5 - 9mm
E32-364(C)	9.25mm	8.75 - 9.25mm
E32-374(C)	9.5mm	9 - 9.5mm
E32-393(C)	10.0mm	9.5 - 10mm
E32-413(C)	10.5mm	10 - 10.5mm
E32-433(C)	11.0mm	10.5 - 11mm
E32-452(C)	11.5mm	11 - 11.5mm
E32-472(C)	12.0mm	11.5 - 12mm
E32-492(C)	12.5mm	12 - 12.5mm
E32-511(C)	13.0mm	12.5 - 13mm
E32-531(C)	13.5mm	13 - 13.5mm
E32-551(C)	14.0mm	13.5 - 14mm
E32-561(C)	14.25mm	13.75 - 14.25mm
E32-570(C)	14.5mm	14 - 14.5mm
E32-590(C)	15.0mm	14.5 - 15mm
E32-610(C)	15.5mm	15 - 15.5mm
E32-629(C)	16.0mm	15.5 - 16mm
E32-649(C)	16.5mm	16 - 16.5mm
E32-669(C)	17.0mm	16.5 - 17mm
E32-688(C)	17.5mm	17 - 17.5mm
E32-708(C)	18.0mm	17.5 - 18mm
E32-728(C)	18.5mm	18 - 18.5mm
E32-748(C)	19.0mm	18.5 - 19mm
E32-767(C)	19.5mm	19 - 19.5mm
E32-787(C)	20.0mm	19.5 - 20mm

### ER32 COOLANT COLLET SETS

E32-SET-17(C)	17 Piece Set: 1/4" - 3/4" by 1/32nds
E32-SET-21(C)-MM	21 Piece Set: 9.5mm - 20.0mm by 0.5mm

## ER40 COLLETS



### Precision Standard

Precision slots allow for even distribution of clamping pressure and minimal run out.

Size Range: 5/32 - 1"  
(0.156 - 1.000")

Size Range: 4.0 - 26.0mm  
(0.157 - 1.024")

### INCH

Part Number	Size	Collapse Range
E40-010	5/32"	0.136 - 0.156"
E40-012	3/16"	0.148 - 0.188"
E40-014	7/32"	0.179 - 0.219"
E40-016	1/4"	0.211 - 0.25"
E40-018	9/32"	0.242 - 0.281"
E40-020	5/16"	0.273 - 0.313"
E40-022	11/32"	0.304 - 0.344"
E40-024	3/8"	0.336 - 0.375"
E40-026	13/32"	0.367 - 0.406"
E40-028	7/16"	0.398 - 0.438"
E40-030	15/32"	0.429 - 0.469"
E40-032	1/2"	0.461 - 0.5"
E40-034	17/32"	0.492 - 0.531"
E40-036	9/16"	0.523 - 0.563"
E40-038	19/32"	0.554 - 0.594"
E40-040	5/8"	0.586 - 0.625"
E40-042	21/32"	0.617 - 0.656"
E40-044	11/16"	0.648 - 0.688"
E40-046	23/32"	0.679 - 0.719"
E40-048	3/4"	0.711 - 0.75"
E40-050	25/32"	0.742 - 0.781"
E40-052	13/16"	0.773 - 0.813"
E40-054	27/32"	0.804 - 0.844"
E40-056	7/8"	0.836 - 0.875"
E40-058	29/32"	0.867 - 0.906"
E40-060	15/16"	0.898 - 0.938"
E40-062	31/32"	0.929 - 0.969"
E40-064	1"	0.961 - 1"

### METRIC

Part Number	Size	Collapse Range
E40-157	4.0mm	3.5 - 4mm
E40-196	5.0mm	4 - 5mm
E40-216	5.5mm	4.5 - 5.5mm
E40-236	6.0mm	5 - 6mm
E40-255	6.5mm	5.5 - 6.5mm
E40-275	7.0mm	6 - 7mm
E40-295	7.5mm	6.5 - 7.5mm
E40-314	8.0mm	7 - 8mm
E40-334	8.5mm	7.5 - 8.5mm
E40-354	9.0mm	8 - 9mm
E40-374	9.5mm	8.5 - 9.5mm
E40-393	10.0mm	9 - 10mm
E40-413	10.5mm	9.5 - 10.5mm
E40-433	11.0mm	10 - 11mm
E40-452	11.5mm	10.5 - 11.5mm
E40-472	12.0mm	11 - 12mm
E40-492	12.5mm	11.5 - 12.5mm
E40-511	13.0mm	12 - 13mm
E40-531	13.5mm	12.5 - 13.5mm
E40-551	14.0mm	13 - 14mm
E40-570	14.5mm	13.5 - 14.5mm
E40-590	15.0mm	14 - 15mm
E40-610	15.5mm	14.5 - 15.5mm
E40-629	16.0mm	15 - 16mm
E40-649	16.5mm	15.5 - 16.5mm
E40-669	17.0mm	16 - 17mm
E40-688	17.5mm	16.5 - 17.5mm
E40-708	18.0mm	17 - 18mm
E40-728	18.5mm	17.5 - 18.5mm
E40-748	19.0mm	18 - 19mm
E40-767	19.5mm	18.5 - 19.5mm
E40-787	20.0mm	19 - 20mm
E40-807	20.5mm	19.5 - 20.5mm
E40-826	21.0mm	20 - 21mm
E40-866	22.0mm	21 - 22mm
E40-905	23.0mm	22 - 23mm
E40-944	24.0mm	23 - 24mm
E40-984	25.0mm	24 - 25mm
E40-1003	25.5mm	24.5 - 25.5mm
E40-1023	26.0mm	25 - 26mm

### ER40 COLLET SETS

E40-SET-25	25 Piece Set: 1/4" - 1" by 1/32nds
E40-SET-23-MM	23 Piece Set: 3.5mm - 26.0mm by 1.0mm

Note: See dimensional data for ER40 Collets on page 59.



### Coolant-Thru

Our patented Coolant Collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage may result. Seals up to maximum coolant pressure of 1015 psi. Steel-sealed and mechanically sealed by design.

Size Range: 5/16 - 5/8"  
(0.312 - 0.625")

Size Range: 10.0 - 26.0mm  
(0.394 - 1.024")

### INCH COOLANT-THRU

Part Number	Size	Collapse Range
E40-020(C)	5/16"	0.293 - 0.313"
E40-024(C)	3/8"	0.355 - 0.375"
E40-028(C)	7/16"	0.418 - 0.438"
E40-032(C)	1/2"	0.48 - 0.5"
E40-036(C)	9/16"	0.543 - 0.563"
E40-040(C)	5/8"	0.605 - 0.625"

### METRIC COOLANT-THRU

Part Number	Size	Collapse Range
E40-393(C)	10.0mm	9.5 - 10mm
E40-413(C)	10.5mm	10 - 10.5mm
E40-433(C)	11.0mm	10.5 - 11mm
E40-452(C)	11.5mm	11 - 11.5mm
E40-472(C)	12.0mm	11.5 - 12mm
E40-492(C)	12.5mm	12 - 12.5mm
E40-511(C)	13.0mm	12.5 - 13mm
E40-531(C)	13.5mm	13 - 13.5mm
E40-551(C)	14.0mm	13.5 - 14mm
E40-570(C)	14.5mm	14 - 14.5mm
E40-590(C)	15.0mm	14.5 - 15mm
E40-610(C)	15.5mm	15 - 15.5mm
E40-629(C)	16.0mm	15.5 - 16mm
E40-649(C)	16.5mm	16 - 16.5mm
E40-669(C)	17.0mm	16.5 - 17mm
E40-688(C)	17.5mm	17 - 17.5mm
E40-708(C)	18.0mm	17.5 - 18mm
E40-728(C)	18.5mm	18 - 18.5mm
E40-748(C)	19.0mm	18.5 - 19mm
E40-767(C)	19.5mm	19 - 19.5mm
E40-787(C)	20.0mm	19.5 - 20mm
E40-807(C)	20.5mm	20 - 20.5mm
E40-826(C)	21.0mm	20.5 - 21mm
E40-846(C)	21.5mm	21 - 21.5mm
E40-866(C)	22.0mm	21.5 - 22mm
E40-885(C)	22.5mm	22 - 22.5mm
E40-905(C)	23.0mm	22.5 - 23mm
E40-925(C)	23.5mm	23 - 23.5mm
E40-944(C)	24.0mm	23.5 - 24mm
E40-964(C)	24.5mm	24 - 24.5mm
E40-984(C)	25.0mm	24.5 - 25mm
E40-1003(C)	25.5mm	25 - 25.5mm
E40-1023(C)	26.0mm	25.5 - 26mm

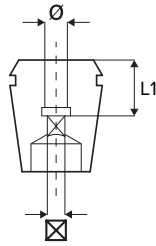
### ER40 COOLANT COLLET SETS

E40-SET-6(C)	6 Piece Set: 5/16" - 5/8" by 1/32nds
E40-SET-33(C)-MM	33 Piece Set: 10.0mm - 26.0mm by 0.5mm



# ER COLLET CHUCKS

## ER TAP COLLETS



ER Tap Collets feature a unique design that incorporates an internal square drive with our popular ER Series Collets. The square drive matches the tap square, providing a tight fit for all rigid tapping applications.

*Note: Diameter and Square size are in accordance with U.S. Standard Taps.*

Part Number	ER Series	Tap Inch Style	Tap Metric Size	L1 (mm)	ø	⊠
ET16-138	ER16	-	M3, M5	18	0.138"	0.106"
ET16-157	ER16	-	M3.5	19	0.157"	0.118"
ET16-168	ER16	#8, 5/32"	M4	15	0.168"	0.131"
ET16-177	ER16	-	M4, M6	18	0.177"	0.134"
ET16-194	ER16	#10, 3/16"	M4.5, M5	15	0.194"	0.152"
ET16-197	ER16	-	M5	18	0.197"	0.157"
ET16-220	ER16	#12, 7/32"	-	15	0.220"	0.165"
ET16-236	ER16	-	M5, M6, M8	18	0.236"	0.193"
ET16-255	ER16	#14, 1/4"	M6, M6.5	22	0.255"	0.191"
ET16-275	ER16	-	M10	18	0.276"	0.217"
ET16-315	ER16	-	M8, M10	22	0.315"	0.244"
ET20-138	ER20	-	M3, M5	20	0.138"	0.106"
ET20-157	ER20	-	M3.5	18	0.157"	0.118"
ET20-168	ER20	#8, 5/32"	M4	15	0.168"	0.131"
ET20-177	ER20	-	M4, M6	18	0.177"	0.134"
ET20-194	ER20	#10, 3/16"	M4.5, M5	15	0.194"	0.152"
ET20-197	ER20	-	M5	18	0.197"	0.157"
ET20-220	ER20	#12, 7/32"	-	15	0.220"	0.165"
ET20-236	ER20	-	M6	20	0.236"	0.193"
ET20-255	ER20	#14, 1/4"	M6, M6.5	20	0.255"	0.191"
ET20-275	ER20	-	M10	18	0.276"	0.217"
ET20-315	ER20	-	M8, M10	22	0.315"	0.244"
ET20-318	ER20	5/16"	M7, M6.5, M8	20	0.318"	0.238"
ET20-323	ER20	7/16"	-	20	0.323"	0.242"
ET20-354	ER20	-	M12	22	0.354"	0.276"
ET20-367	ER20	1/2"	M12, M12.5	25	0.367"	0.275"
ET20-381	ER20	3/8"	M10	20	0.381"	0.286"
ET20-394	ER20	-	M10	22	0.394"	0.315"
ET25-138	ER25	-	M3, M5	18	0.138"	0.106"
ET25-157	ER25	-	M3.5	18	0.157"	0.118"
ET25-168	ER25	#8, 5/32"	M4	15	0.168"	0.131"
ET25-177	ER25	-	M4, M6	18	0.177"	0.134"
ET25-194	ER25	#10, 3/16"	M4.5, M5	15	0.194"	0.152"
ET25-197	ER25	-	M5	18	0.197"	0.157"
ET25-220	ER25	#12, 7/32"	-	15	0.220"	0.165"
ET25-236	ER25	-	M5, M6, M8	22	0.236"	0.193"
ET25-255	ER25	#14, 1/4"	M6, M6.5	20	0.255"	0.191"
ET25-275	ER25	-	M10	22	0.276"	0.217"
ET25-315	ER25	-	M8, M10	22	0.315"	0.244"
ET25-318	ER25	5/16"	M7, M6.5, M8	20	0.318"	0.238"
ET25-323	ER25	7/16"	-	20	0.323"	0.242"
ET25-354	ER25	-	M12	22	0.354"	0.276"
ET25-367	ER25	1/2"	M12, M12.5	25	0.367"	0.275"
ET25-381	ER25	3/8"	M10	20	0.381"	0.286"
ET25-394	ER25	-	M10	25	0.394"	0.315"
ET25-429	ER25	9/16"	M14	25	0.429"	0.322"
ET25-433	ER25	-	M14	25	0.433"	0.354"
ET25-437	ER25	1/8" NPT(L)	-	18	0.437"	0.328"
ET25-472	ER25	-	M16	25	0.472"	0.354"
ET25-480	ER25	5/8"	M16	25	0.480"	0.360"

## ER TAP COLLETS (CONTINUED)

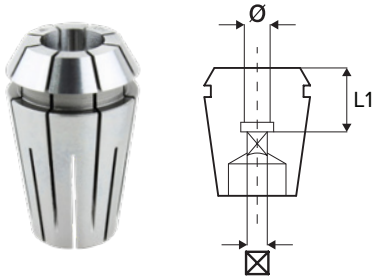
Part Number	ER Series	Tap Inch Style	Tap Metric Size	L1 (mm)	ø	⊠
ET32-157	ER32	-	M3.5	18	0.157"	0.118"
ET32-168	ER32	#8, 5/32"	M4	15	0.168"	0.131"
ET32-177	ER32	-	M4, M6	18	0.177"	0.134"
ET32-194	ER32	#10, 3/16"	M4.5, M5	15	0.194"	0.152"
ET32-197	ER32	-	M5	18	0.197"	0.157"
ET32-220	ER32	#12, 7/32"	-	15	0.220"	0.165"
ET32-236	ER32	-	M5, M6, M8	18	0.236"	0.193"
ET32-255	ER32	#14, 1/4"	M6, M6.5	20	0.255"	0.191"
ET32-275	ER32	-	M10	23	0.276"	0.217"
ET32-315	ER32	-	M8, M10	22	0.315"	0.244"
ET32-318	ER32	5/16"	M7, M6.5, M8	20	0.318"	0.238"
ET32-323	ER32	7/16"	-	20	0.323"	0.242"
ET32-354	ER32	-	M12	23	0.354"	0.276"
ET32-367	ER32	1/2"	M12, M12.5	25	0.367"	0.275"
ET32-381	ER32	3/8"	M10	20	0.381"	0.286"
ET32-394	ER32	-	M10	25	0.394"	0.315"
ET32-429	ER32	9/16"	M14	25	0.429"	0.322"
ET32-433	ER32	-	M14	25	0.433"	0.354"
ET32-437	ER32	1/8" NPT(L)	-	18	0.437"	0.328"
ET32-472	ER32	-	M16	25	0.472"	0.354"
ET32-480	ER32	5/8"	M16	25	0.480"	0.360"
ET32-542	ER32	11/16"	M18	30	0.542"	0.406"
ET32-551	ER32	-	M18	25	0.551"	0.433"
ET32-562	ER32	1/4" NPT	-	18	0.562"	0.421"
ET32-590	ER32	3/4"	-	30	0.590"	0.442"
ET32-630	ER32	-	M20	25	0.630"	0.472"
ET32-652	ER32	13/16"	M20	30	0.652"	0.489"
ET32-709	ER32	-	M22, M24	25	0.709"	0.571"
ET32-M12	ER32	-	M12	22	0.335"	0.256"
ET40-236	ER40	-	M5, M6, M8	18	0.236"	0.193"
ET40-255	ER40	#14, 1/4"	M6, M6.5	25	0.255"	0.191"
ET40-275	ER40	-	M10	18	0.276"	0.217"
ET40-315	ER40	-	M8, M10	22	0.315"	0.244"
ET40-318	ER40	5/16"	M7, M6.5, M8	25	0.318"	0.238"
ET40-323	ER40	7/16"	-	25	0.323"	0.242"
ET40-354	ER40	-	M12	22.5	0.354"	0.276"
ET40-367	ER40	1/2"	M12, M12.5	25	0.367"	0.275"
ET40-381	ER40	3/8"	M10	25	0.381"	0.286"
ET40-394	ER40	-	M10	25	0.394"	0.315"
ET40-429	ER40	9/16"	M14	25	0.429"	0.322"
ET40-433	ER40	-	M14	25	0.433"	0.354"
ET40-437	ER40	1/8" NPT(L)	-	18	0.437"	0.328"
ET40-472	ER40	-	M16	25	0.472"	0.354"
ET40-480	ER40	5/8"	M16	25	0.480"	0.360"
ET40-542	ER40	11/16"	M18	30	0.542"	0.406"
ET40-551	ER40	-	M18	25	0.551"	0.433"
ET40-562	ER40	1/4" NPT	-	18	0.562"	0.421"
ET40-590	ER40	3/4"	-	30	0.590"	0.442"
ET40-630	ER40	-	M20	25	0.630"	0.472"
ET40-652	ER40	13/16"	M20	30	0.652"	0.489"
ET40-687	ER40	1/2" NPT	-	18	0.687"	0.515"
ET40-697	ER40	7/8"	-	30	0.697"	0.523"
ET40-700	ER40	3/8" NPT	-	18	0.700"	0.531"
ET40-709	ER40	-	M22, M24	25	0.709"	0.571"
ET40-760	ER40	15/16"	M24	35	0.760"	0.570"
ET40-787	ER40	-	M27, M30	28	0.787"	0.630"
ET40-800	ER40	1"	M25	35	0.800"	0.600"

### ER TAP COLLET SETS

ET16-SET-04	4 Piece Set
ET20-SET-08	8 Piece Set
ET25-SET-10	20 Piece Set
ET32-SET-15	15 Piece Set
ET40-SET-17	17 Piece Set

# ER COLLET CHUCKS

## ER TAP COOLANT COLLETS



Lyndex-Nikken has now combined the versatility of our ER Tapping Collets with the popularity of our Coolant Collets to create our patented ER Coolant Tap Collets. Steel-sealed and mechanically sealed by design.

*Note: Diameter and Square size are in accordance with U.S. Standard Taps.*

Part Number	ER Series	Tap Inch Style	Tap Metric Size	L1 (mm)	Ø	⊠
ET16-255(C)	ER16	#14, 1/4"	M6, M6.5	22	0.255"	0.191"
ET16-318(C)	ER16	5/16"	M7, M6.5, M8	22	0.318"	0.238"
ET20-255(C)	ER20	#14, 1/4"	M6, M6.5	25	0.255"	0.191"
ET20-318(C)	ER20	5/16"	M7, M6.5, M8	25	0.318"	0.238"
ET20-323(C)	ER20	7/16"	-	25	0.323"	0.242"
ET20-367(C)	ER20	1/2"	M12, M12.5	25	0.367"	0.275"
ET20-381(C)	ER20	3/8"	M10	25	0.381"	0.286"
ET25-255(C)	ER25	#14, 1/4"	M6, M6.5	25	0.255"	0.191"
ET25-318(C)	ER25	5/16"	M7, M6.5, M8	25	0.318"	0.238"
ET25-323(C)	ER25	7/16"	-	25	0.323"	0.242"
ET25-367(C)	ER25	1/2"	M12, M12.5	25	0.367"	0.275"
ET25-381(C)	ER25	3/8"	M10	27	0.381"	0.286"
ET25-429(C)	ER25	9/16"	M14	25	0.429"	0.322"
ET25-480(C)	ER25	5/8"	M16	30	0.480"	0.360"
ET25-M8(C)	ER25	-	M8, M10	22	0.315"	0.244"
ET32-255(C)	ER32	#14, 1/4"	M6, M6.5	30	0.255"	0.191"
ET32-318(C)	ER32	5/16"	M7, M6.5, M8	25	0.318"	0.238"
ET32-323(C)	ER32	7/16"	-	25	0.323"	0.242"
ET32-354(C)	ER32	-	M12	23	0.354"	0.276"
ET32-367(C)	ER32	1/2"	M12, M12.5	25	0.367"	0.275"
ET32-381(C)	ER32	3/8"	M10	27	0.381"	0.286"
ET32-429(C)	ER32	9/16"	M14	25	0.429"	0.322"
ET32-433(C)	ER32	-	M14	25	0.433"	0.354"
ET32-480(C)	ER32	5/8"	M16	30	0.480"	0.360"
ET32-542(C)	ER32	11/16"	M18	30	0.542"	0.406"
ET32-590(C)	ER32	3/4"	-	35	0.590"	0.442"
ET32-652(C)	ER32	13/16"	M20	35	0.652"	0.489"
ET40-323(C)	ER40	7/16"	-	35	0.323"	0.242"
ET40-354(C)	ER40	-	M12	22.5	0.354"	0.276"
ET40-367(C)	ER40	1/2"	M12, M12.5	25	0.367"	0.275"
ET40-381(C)	ER40	3/8"	M10	27	0.381"	0.286"
ET40-429(C)	ER40	9/16"	M14	25	0.429"	0.322"
ET40-433(C)	ER40	-	M14	25	0.433"	0.354"
ET40-480(C)	ER40	5/8"	M16	30	0.480"	0.360"
ET40-542(C)	ER40	11/16"	M18	30	0.542"	0.406"
ET40-590(C)	ER40	3/4"	-	35	0.590"	0.442"
ET40-652(C)	ER40	13/16"	M20	35	0.652"	0.489"
ET40-697(C)	ER40	7/8"	M22	35	0.697"	0.523"
ET40-760(C)	ER40	15/16"	M24	38	0.760"	0.570"
ET40-800(C)	ER40	1"	M25	38	0.800"	0.600"

*Note: Seals up to a maximum coolant pressure of 1015 psi.*

## ER COLLET CHUCK ACCESSORIES

### ER COLLET RACK

Part Number	Description
<b>RACK-ER11/SK6</b>	ER11 Collet Rack, 35 collet capacity
<b>RACK-ER16/SK10</b>	ER16 Collet Rack, 24 collet capacity
<b>RACK-ER20/TAP</b>	ER20 Collet Rack, 24 collet capacity
<b>RACK-180DA/SK16/ER25</b>	ER25 Collet Rack, 30 collet capacity
<b>RACK-ER32/2TAP</b>	ER32 Collet Rack, 24 collet capacity



### REPLACEMENT NUT FOR ER COLLET CHUCK

Part Number	Description
<b>08-NANUT</b>	ER8 Nut
<b>E08-NUT-MINI</b>	ER8 Mini Nut
<b>E11-NUT</b>	ER11 Hex Nut
<b>E11-NUT-MINI</b>	ER11 Nut Mini
<b>E16-NUT</b>	ER16 Nut
<b>E16-NUT-G</b>	ER16 Nut Smooth
<b>E16-NUT-S</b>	ER16 Nut Hex
<b>E20-NUT</b>	ER20 Nut
<b>E20-NUT-G</b>	ER20 Nut Smooth
<b>E20-NUT-S</b>	ER20 Nut Solid
<b>E25-NUT</b>	ER25 Nut
<b>E25-NUT-G</b>	ER25 Nut Smooth
<b>E25-NUT-S</b>	ER25 Nut Solid
<b>E32-NUT</b>	ER32 Nut
<b>E32-NUT-G</b>	ER32 Nut Smooth
<b>E32-NUT-S</b>	ER32 Nut Solid
<b>E40-NUT</b>	ER40 Nut
<b>E40-NUT-G</b>	ER40 Nut Smooth
<b>E40-NUT-S</b>	ER40 Nut Solid
<b>E50-NUT-S</b>	ER50 Nut Solid
<b>NUT-ER32I</b>	ER32 Nut Hi-Q External Thread



### SPANNER WRENCH FOR ER COLLET CHUCK NUT

Part Number	Description
<b>08-NASPAN</b>	Wrench for ER8 Chuck Nut
<b>011-HEX</b>	Wrench for ER11 Chuck Nut
<b>016-SPAN</b>	Wrench for ER16 Chuck Nut
<b>020-SPAN</b>	Wrench for ER20 Chuck Nut
<b>025-SPAN</b>	Wrench for ER25 Chuck Nut
<b>032-SPAN</b>	Wrench for ER32 Chuck Nut
<b>040-SPAN</b>	Wrench for ER40 Chuck Nut
<b>FK-10</b>	Wrench for ER50 Chuck Nut



# ER COLLET CHUCKS

## ER COLLET CHUCK ACCESSORIES

### TORQUE WRENCHES

Part Number	Description
<b>TQW-025</b>	Torque Wrench 5-75 Ft. Lbs.
<b>TQW-200</b>	Torque Wrench 30-150 Ft. Lbs.



### TORQUE WRENCH (1 PIECE CONSTRUCTION)

Part Number	Description
<b>TQWS-E08M</b>	Used on E08-NUT-MINI
<b>TQWS-E11M</b>	Used on E11-NUT-MINI
<b>TQWS-E16M</b>	Used on E16-NUT-MINI
<b>TQWS-E20M</b>	Used on E20-NUT-MINI
<b>TQWS-E25M</b>	Used on E25-NUT-MINI

### TORQUE WRENCH ATTACHMENTS

Part Number	Description	Torque Wrench	Wrench Handle (Non-Torque)
<b>TQW-ER8NA</b>	ER8 Attachment for 08-NANUT	TQW-025	TQW-HANDLE14X18
<b>TQW-ER11HEX</b>	ER11 Attachment for E11-NUT	TQW-025	TQW-HANDLE14X18
<b>TQW-ER16/SK13(30)</b>	ER16 Attachment for E16-NUT	TQW-025 or TQW-200	TQW-HANDLE14X18
<b>TQW-ER16HEX</b>	ER16 Attachment for E16-NUT-S	TQW-025 or TQW-200	TQW-HANDLE14X18
<b>TQW-E16-G</b>	ER16 Attachment for E16-NUT-G	TQW-025 or TQW-200	TQW-HANDLE14X18
<b>TQW-ER20/TG50(35)</b>	ER20 Attachment for E20-NUT	TQW-025 or TQW-200	TQW-HANDLE14X18
<b>TQW-E20-G</b>	ER20 Attachment for E20-NUT-G	TQW-025 or TQW-200	TQW-HANDLE14X18
<b>TQW-ER25(40)</b>	ER25 Attachment for E25-NUT	TQW-200	TQW-HANDLE14X18
<b>TQW-E25-G</b>	ER25 Attachment for E25-NUT-G	TQW-200	TQW-HANDLE14X18
<b>TQW-ER32/SK20/TG75(50)</b>	ER32 Attachment for E32-NUT	TQW-200	TQW-HANDLE14X18
<b>TQW-E32-G</b>	ER32 Attachment for E32-NUT-G	TQW-200	TQW-HANDLE14X18
<b>TQW-ER40/C1(60)</b>	ER40 Attachment for E40-NUT	TQW-200	TQW-HANDLE14X18
<b>TQW-E40-G</b>	ER40 Attachment for E40-NUT-G	TQW-200	TQW-HANDLE14X18

Note: (XX) Denotes nut diameter.

### REPLACEMENT BACK UP SCREWS FOR ER COLLET CHUCK

Part Number	Description
<b>ER08-SCREW(C)</b>	ER8 Coolant-thru Backup Screws
<b>ER11-SCREW(C)</b>	ER11 Coolant-thru Backup Screws
<b>ER16-SCREW(C)</b>	ER16 Coolant-thru Backup Screws
<b>ER20-SCREW(C)</b>	ER20 Coolant-thru Backup Screws
<b>ER25-SCREW(C)</b>	ER25 Coolant-thru Backup Screws
<b>ER32-SCREW(C)</b>	ER32 Coolant-thru Backup Screws
<b>ER40-SCREW(C)</b>	ER40 Coolant-thru Backup Screws

Note: \*ER11-3 used for E16-EXT-625 Collet Chuck Extension.



### COOLANT TUBE WRENCHES FOR HSK/POLYGON HOLDERS

Part Number	Description
<b>HSK40-WRENCH</b>	Wrench for HSK40 Coolant Tube
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube
<b>C3-WRENCH</b>	Wrench for C3 Coolant Tube
<b>C4-WRENCH</b>	Wrench for C4 Coolant Tube
<b>C5-WRENCH</b>	Wrench for C5 Coolant Tube
<b>C6-WRENCH</b>	Wrench for C6 Coolant Tube
<b>C8-WRENCH</b>	Wrench for C8 Coolant Tube



Note: Coolant Tube Wrenches are needed to remove or install coolant tubes in HSK toolholders.

### COOLANT TUBES FOR HSK/POLYGON HOLDERS

Part Number	Description
<b>HSK40-TUBE</b>	HSK40 Coolant Tube
<b>HSK63-TUBE</b>	HSK63 Coolant Tube
<b>HSK100-TUBE</b>	HSK100 Coolant Tube
<b>C3-TUBE</b>	C3 Coolant Tube
<b>C4-TUBE</b>	C4 Coolant Tube
<b>C5-TUBE</b>	C5 Coolant Tube
<b>C6-TUBE-1</b>	C6 Coolant Tube
<b>C8-TUBE</b>	C8 Coolant Tube



# ADVANCED TOOLHOLDERS



**THE TOOLS TO MAXIMIZE YOUR MANUFACTURING POTENTIAL**

## SK COLLET CHUCKS

### ***LEAN, TOUGH AND EFFICIENT***

- Narrow body design accesses tight spots.
- Applicable for all milling, drilling, reaming and rigid tapping applications.
- Two times more accurate than ER Collet Chucks, within 10 times better repeatability.
- Over 1 million SK Collet Chucks and 15 million SK collets sold worldwide.



## VC COLLET CHUCKS

### ***ULTRA PERFORMANCE***

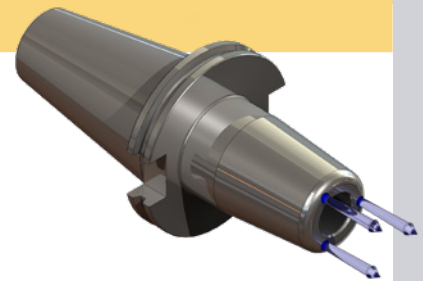
- Extremely precise with 0.00012" or less concentricity guarantee with any collet.
- Ideal for high-speed machining, thread milling, ultra precision reaming.
- Two times more accurate than ER Collet Chucks, within 10 times better repeatability.



## SHRINK FIT HOLDERS

### ***HIGH ACCURACY WITH OPTIMAL CLEARANCE***

- Shrink fit holders provide minimal run out.
- Pre-balanced for up to 40,000 RPM.
- Excellent surface finish, extreme gripping and ideal for high-speed applications.
- Increase cutting tool life, material removal rate and workpiece accuracy.



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# VC COLLET CHUCKS



VC COLLET CHUCKS

## VC COLLET CHUCKS



## VC COLLET CHUCK FEATURES

### ULTRA PERFORMANCE

**Extremely Precise:** 0.00012" or less concentricity guarantee with any collet

**Extremely Efficient:** Ideal for high-speed machining, thread milling, ultra precision reaming

**Flexible:** Covers sizes from 0.079" to 0.5"

**Extremely Accurate:** Double the accuracy over ER Collet Chucks, with ten times better repeatability

**8° Versus 16° Collet Taper:** Double the gripping power of ER Collet Chucks



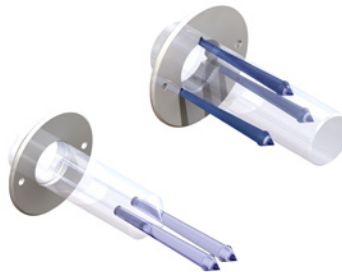
### Coolant-Thru Disc

A perfect seal is formed between the nut and the coolant-thru disk. Ideal for coolant-thru tools.



### Coolant-Thru Capabilities

Jet Coolant Splash with J-Type Nut



### Slotted Disc

The jet coolant pressure creates a tornado effect, ensuring efficient swarf disposal.





# VC COLLET CHUCKS



## VC COLLET CHUCK FEATURES

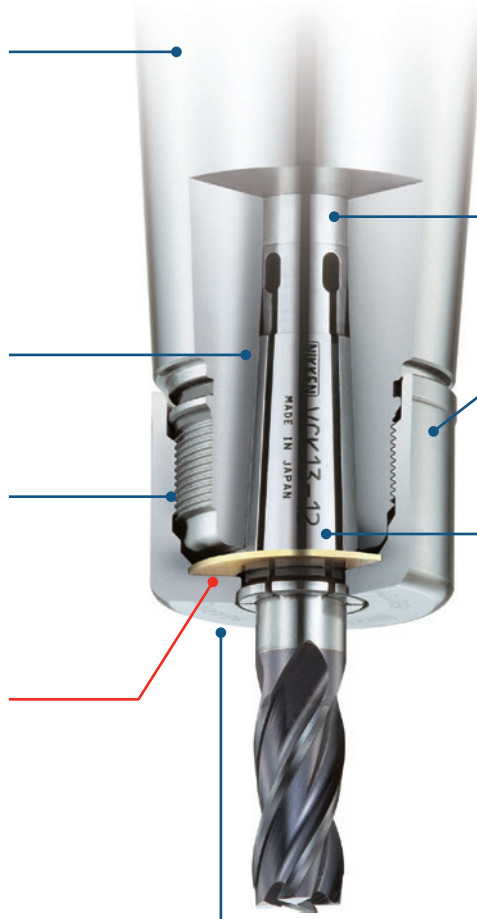
The thick wall design of the VC holder body improves cutting rigidity

8° internal taper collet for greater accuracy and clamping capability

The ground ion nitrided thread of collet chuck highly improves the torque and accuracy

**TiN Bearing Nut**  
(Hardness: HV2,200)  
US Patent 6923451  
Reduces friction to minimize runout caused by collet twisting

Collet compression force is perpendicular to the centerline of collet bore maximizing runout accuracy and gripping strength



Ground pilot helps centralize the collet while giving additional length support on the cutting tool

Symmetrical and simple external nut design without notches for ultra high speed rotation

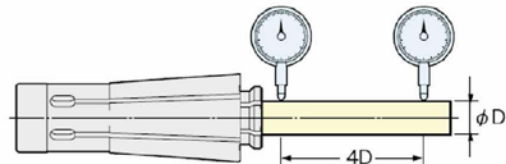
Extended Collet to minimize runout and to increase surface area contact of tooling

Easy, safe and reliable handling with GH wrench (see page 88)



### High Runout Accuracy:

**Within 0.00012" at 4 times the diameter of the cutting tool!**  
This produces better stability and improves surface finish and cutting tool life.



### VC Collet Range:



VCK6: 2-6mm (1/8"-1/4")  
VCK13: 3-12mm (1/8"-1/2")

### VC Collet vs. Others:



**VCK Collet**  
• Runout: 0.0001"  
• 170N.m gripping power



**ER Collet**  
• Runout: 0.0004"  
• 80N.m gripping power



**TG Collet**  
• Runout: 0.0003"  
• 100N.m gripping power

## CAT VC COLLET CHUCKS

### FEATURES

- TiN Bearing Nut which considerably improves cutting rigidity and finish
- Extra thick body for aggressive milling
- High concentricity and repeatability
- Ideal for high-speed applications



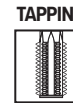
**T.I.R.**  
<0.00012" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40

Part Number	Collet Size	Wrench	L (mm)	L	L1	L2	D	D1	Back-up Screw	Max. RPM	Fig.
CAT40-VC6-60U-IDU	VCK6	GH10	60	2.36"	0.99"	-	1.08"	1.75"	VCG6-8A	30K	2
CAT40-VC6-90U-IDU	VCK6	GH10	90	3.54"	0.87"	2.17"	1.08"	1.75"	VCG6-8A	30K	1
CAT40-VC6-120U-IDU	VCK6	GH10	120	4.72"	0.87"	3.35"	1.08"	1.75"	VCG6-8A	30K	1
CAT40-VC13-60U-IDU	VCK13	GH16	60	2.36"	1.14"	-	1.59"	1.75"	VCG13-15A	30K	2
CAT40-VC13-90U-IDU	VCK13	GH16	90	3.54"	1.10"	2.39"	1.59"	1.75"	VCG13-15A	30K	1
CAT40-VC13-120U-IDU	VCK13	GH16	120	4.72"	1.10"	3.65"	1.59"	1.75"	VCG13-15A	30K	1

Note: Wrenches are sold separately

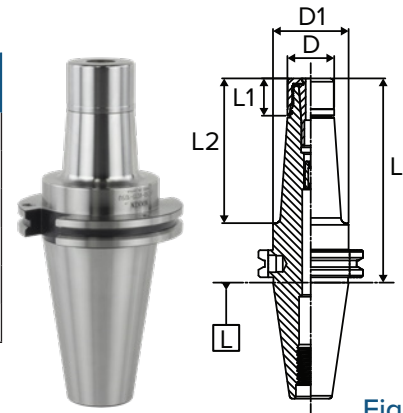


Fig. 1

### CAT50

Part Number	Collet Size	Wrench	L (mm)	L	L1	L2	D	D1	Back-up Screw	Max. RPM	Fig.
CAT50-VC6-105U-IDU	VCK6	GH10	105	4.13"	0.87"	2.76"	1.08"	2.75"	VCG6-8A	20K	1
CAT50-VC13-105U-IDU	VCK13	GH16	105	4.13"	1.10"	2.76"	1.59"	2.75"	VCG13-15A	20K	1
CAT50-VC13-135U-IDU	VCK13	GH16	135	5.31"	1.10"	3.94"	1.59"	2.75"	VCG13-15A	20K	1
CAT50-VC13-165U-IDU	VCK13	GH16	165	6.50"	1.10"	5.12"	1.59"	2.75"	VCG13-15A	20K	1

Notes: Wrenches are sold separately.

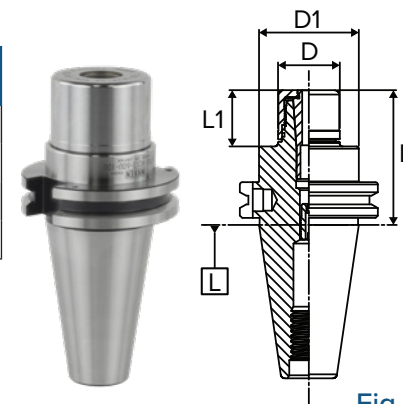


Fig. 2



Available in  
**TAPER PLUS**  
Dual-taper and flange contact

See Pages 84-85



### TAPER PLUS COMBINING TAPER ACCURACY WITH FLANGE RIGIDITY!

- Outstanding Runout Accuracy for longer tool life
- Vibration Dampening for increased productivity
- High Rigidity for smooth and stable cutting



# VC COLLET CHUCKS

## BT VC COLLET CHUCKS

### FEATURES

- TiN Bearing Nut which considerably improves cutting rigidity and finish
- Extra thick body for aggressive milling
- High concentricity and repeatability
- Ideal for high-speed applications



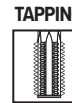
**T.I.R.**  
<0.00012" at 4xD



**Speed**  
Up to 40,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
BT30-VC6-45	VCK6	GH10	45	1.77"	0.91"	1.08"	1.08"	VCG6-8A	40K	1
BT30-VC6-60	VCK6	GH10	60	2.36"	0.87"	1.08"	1.25"	VCG6-8A	40K	2
BT30-VC6-90	VCK6	GH10	90	3.54"	0.87"	1.08"	1.31"	VCG6-8A	40K	2
BT30-VC13-60	VCK13	GH16	60	2.36"	1.10"	1.59"	1.62"	VCG13-15A	40K	2
BT30-VC13-90	VCK13	GH16	90	3.54"	1.10"	1.59"	1.63"	VCG13-15A	40K	2
BT30-VC13-120	VCK13	GH16	120	4.72"	1.10"	1.59"	1.67"	VCG13-15A	40K	2

Note: Wrenches are sold separately



Available in **TAPER PLUS+**  
Dual-taper and flange contact

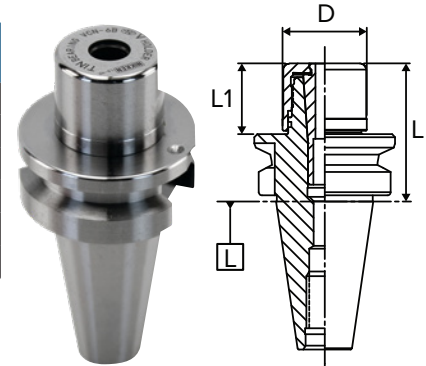


Fig. 3

### BT40

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
BT40-VC6-60	VCK6	GH10	60	2.36"	0.87"	1.08"	1.18"	VCG6-8A	30K	2
BT40-VC6-90	VCK6	GH10	90	3.54"	0.87"	1.08"	1.29"	VCG6-8A	30K	2
BT40-VC6-120	VCK6	GH10	120	4.72"	0.87"	1.08"	1.45"	VCG6-8A	30K	2
BT40-VC13-60	VCK13	GH16	60	2.36"	1.30"	1.59"	1.59"	VCG13-15A	30K	1
BT40-VC13-90	VCK13	GH16	90	3.54"	1.10"	1.59"	1.75"	VCG13-15A	30K	2
BT40-VC13-120	VCK13	GH16	120	4.72"	1.10"	1.59"	1.91"	VCG13-15A	30K	2

Note: Wrenches are sold separately



Available in **TAPER PLUS+**  
Dual-taper and flange contact

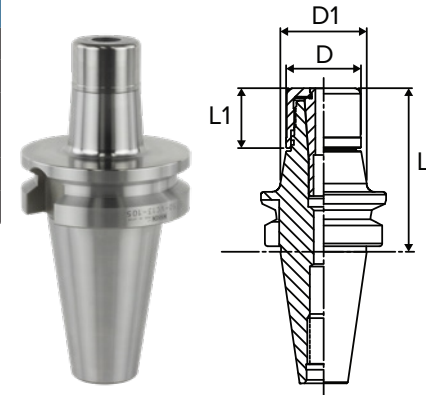


Fig. 4

### BT50

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
BT50-VC6-105	VCK6	GH10	105	4.13"	0.87"	1.08"	1.30"	VCG6-8A	20K	2
BT50-VC6-135	VCK6	GH10	135	5.31"	0.87"	1.08"	1.46"	VCG6-8A	20K	2
BT50-VC6-165	VCK6	GH10	165	6.50"	0.87"	1.08"	1.63"	VCG6-8A	20K	2
BT50-VC13-105	VCK13	GH16	105	4.13"	1.10"	1.59"	1.76"	VCG13-15A	20K	2
BT50-VC13-135	VCK13	GH16	135	5.31"	1.10"	1.59"	1.92"	VCG13-15A	20K	2
BT50-VC13-165	VCK13	GH16	165	6.50"	1.10"	1.59"	2.09"	VCG13-15A	20K	2

Note: Wrenches are sold separately



VCK Collets  
Page 86



Nut Wrench  
Page 88



Back-up Screw  
Page 88



Coolant-thru Nut  
Page 87

## HSK VC COLLET CHUCKS

### FEATURES

- TiN Bearing Nut which considerably improves cutting rigidity and finish
- Extra thick body for aggressive milling
- High concentricity and repeatability
- Ideal for high-speed applications



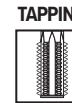
**T.I.R.**  
<0.00012" at 4xD



**Speed**  
Up to 40,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK40A

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
<b>HSK40A-VC6-65</b>	VCK6	GH10	65	2.56"	0.87"	1.08"	1.32"	VCG6-8A	40K	1
<b>HSK40A-VC6-90</b>	VCK6	GH10	90	3.54"	0.87"	1.08"	1.32"	VCG6-8A	40K	1
<b>HSK40A-VC13-90</b>	VCK13	GH16	90	3.54"	2.76"	1.59"	1.59"	VCG13-15A	40K	2
<b>HSK40A-VC13-120</b>	VCK13	GH16	120	4.72"	3.94"	1.59"	1.59"	VCG13-15A	40K	2

Note: Wrench, Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 88 for more details.

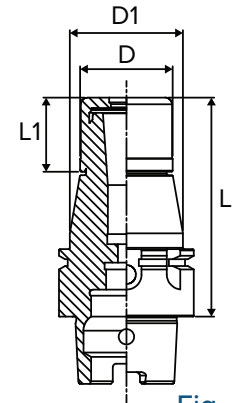


Fig. 5

### HSK40E

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
<b>HSK40E-VC6-65</b>	VCK6	GH10	65	2.56"	0.87"	1.08"	1.34"	VCG6-8A	40K	1
<b>HSK40E-VC6-90</b>	VCK6	GH10	90	3.54"	0.87"	1.08"	1.34"	VCG6-8A	40K	1
<b>HSK40E-VC13-90</b>	VCK13	GH16	90	3.54"	2.76"	1.59"	1.59"	VCG13-15A	40K	2
<b>HSK40E-VC13-120</b>	VCK13	GH16	120	4.72"	3.94"	1.59"	1.59"	VCG13-15A	40K	2

Note: Wrench, Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 88 for more details.

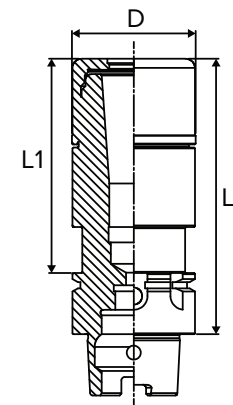


Fig. 6



VCK Collets  
Page 86



Nut Wrench  
Page 88



Back-up Screw  
Page 88



Coolant-thru Nut  
Page 87



Coolant Tube  
Page 88

# VC COLLET CHUCKS

## HSK VC COLLET CHUCKS

### FEATURES

- TiN Bearing Nut which considerably improves cutting rigidity and finish
- Extra thick body for aggressive milling
- High concentricity and repeatability
- Ideal for high-speed applications



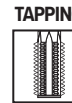
**T.I.R.**  
<0.00012" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK63A

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
HSK63A-VC13-90-IDU	VCK13	GH16	90	3.54"	1.10"	1.59"	1.75"	VCG13-15A	30K	1

Note: Wrench, Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 88 for more details.

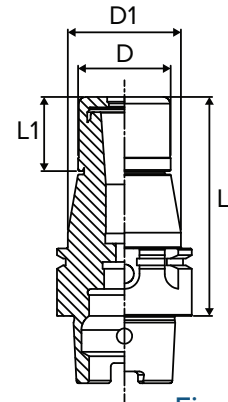


Fig. 5

### HSK63F

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
HSK63F-VC6-65	VCK6	GH10	65	2.56"	1.54"	1.08"	1.08"	VCG6-8A	30K	2
HSK63F-VC6-90	VCK6	GH10	90	3.54"	0.87"	1.08"	1.29"	VCG6-8A	30K	1
HSK63F-VC6-120	VCK6	GH10	120	4.72"	0.87"	1.08"	1.46"	VCG6-8A	30K	1
HSK63F-VC13-90	VCK13	GH16	90	3.54"	1.10"	1.59"	1.75"	VCG13-15A	30K	1
HSK63F-VC13-120	VCK13	GH16	120	4.72"	1.10"	1.59"	1.92"	VCG13-15A	30K	1

Note: Wrench, Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 88 for more details.

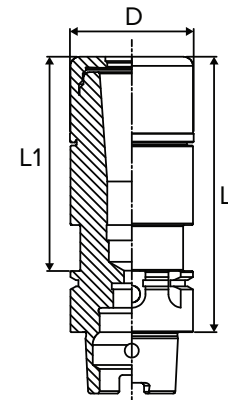


Fig. 6

### HSK100A

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
HSK100A-VC13-105	VCK13	GH16	105	4.13"	1.10"	1.59"	1.81"	VCG6-8A	20K	1

Note: Wrench, Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 88 for more details.



VCK Collets  
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Nut Wrench  
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Back-up Screw  
Page 88

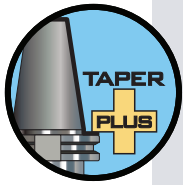


Coolant-thru Nut  
Page 87



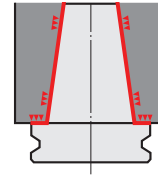
Coolant Tube  
Page 88

## TAPER PLUS CAT VC COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT40

Part Number	Collet Size	Wrench	L (mm)	L	L1	L2	D	D1	Back-up Screw	Max. RPM	Fig.
NCAT40-VC6-60U-IDU	VC6	GH10	60	2.36"	0.98"	-	1.08"	1.75"	VCG6-8A	30K	2
NCAT40-VC6-90U-IDU	VC6	GH10	90	3.54"	0.87"	2.17"	1.08"	1.75"	VCG6-8A	30K	1
NCAT40-VC13-60U-IDU	VC13	GH16	60	2.36"	1.14"	-	1.59"	1.75"	VCG13-15A	30K	2
NCAT40-VC13-90U-IDU	VC13	GH16	90	3.54"	1.10"	2.39"	1.59"	1.75"	VCG13-15A	30K	1
NCAT40-VC13-120U-IDU	VC13	GH16	120	4.72"	1.10"	3.65"	1.59"	1.75"	VCG13-15A	30K	1

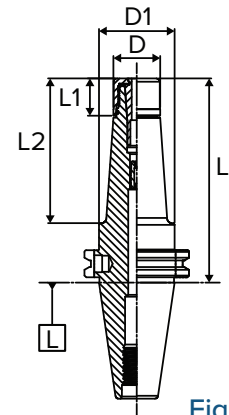


Fig. 1

### TAPER PLUS - CAT50

Part Number	Collet Size	Wrench	L (mm)	L	L1	L2	D	D1	Back-up Screw	Max. RPM	Fig.
NCAT50-VC6-135U-IDU	VC6	GH10	135	5.31"	0.87"	3.94"	1.08"	2.75"	VCG6-8A	20K	1
NCAT50-VC6-165U-IDU	VC6	GH10	165	6.50"	0.87"	5.12"	1.08"	2.75"	VCG6-8A	20K	1
NCAT50-VC13-105U-IDU	VC13	GH16	105	4.13"	1.10"	2.76"	1.59"	2.75"	VCG13-15A	20K	1
NCAT50-VC13-135U-IDU	VC13	GH16	135	5.31"	1.10"	3.94"	1.59"	2.75"	VCG13-15A	20K	1
NCAT50-VC13-165U-IDU	VC13	GH16	165	6.50"	1.10"	5.12"	1.59"	2.75"	VCG13-15A	20K	1

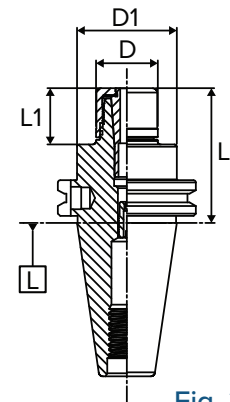


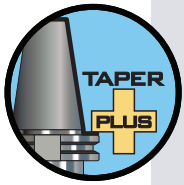
Fig. 2

Taper Plus Toolholders are interchangeable between Standard and Dual Face Contact spindles for greater flexibility!



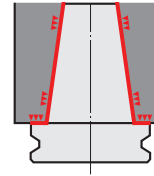
# VC COLLET CHUCKS

## TAPER PLUS BT VC COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT30

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
NBT30-VC6-45	VC6	GH10	45	1.77"	0.91"	1.08"	1.08"	VCG6-8A	40K	1
NBT30-VC6-60	VC6	GH10	60	2.36"	0.87"	1.08"	1.25"	VCG6-8A	40K	2
NBT30-VC6-90	VC6	GH10	90	3.54"	0.87"	1.08"	1.31"	VCG6-8A	40K	2
NBT30-VC13-60	VC13	GH16	60	2.36"	1.10"	1.59"	1.62"	VCG13-15A	40K	2
NBT30-VC13-90	VC13	GH16	90	3.54"	1.10"	1.59"	1.63"	VCG13-15A	40K	2
NBT30-VC13-120	VC13	GH16	120	4.72"	1.10"	1.59"	1.67"	VCG13-15A	40K	2

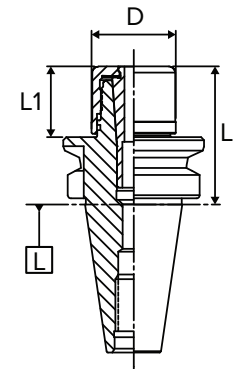


Fig. 3

### TAPER PLUS - BT40

Part Number	Collet Size	Wrench	L (mm)	L	L1	D	D1	Back-up Screw	Max. RPM	Fig.
NBT40-VC6-60	VC6	GH10	60	2.36"	0.87"	1.08"	1.18"	VCG6-8A	30K	2
NBT40-VC6-90	VC6	GH10	90	3.54"	0.87"	1.08"	1.29"	VCG6-8A	30K	2
NBT40-VC6-120	VC6	GH10	120	4.72"	0.87"	1.08"	1.45"	VCG6-8A	30K	2
NBT40-VC6-150	VC6	GH10	150	5.91"	0.87"	1.08"	1.62"	VCG6-8A	30K	2
NBT40-VC13-60	VC13	GH16	60	2.36"	1.30"	1.59"	1.59"	VCG13-15A	30K	1
NBT40-VC13-90	VC13	GH16	90	3.54"	1.10"	1.59"	1.75"	VCG13-15A	30K	2
NBT40-VC13-120	VC13	GH16	120	4.72"	1.10"	1.59"	1.91"	VCG13-15A	30K	2
NBT40-VC13-150	VC13	GH16	150	5.91"	1.10"	1.59"	2.08"	VCG13-15A	30K	2

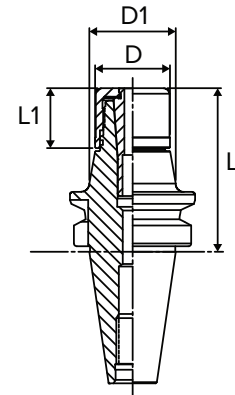


Fig. 4

Taper Plus Toolholders are interchangeable between Standard and Dual Face Contact spindles for greater flexibility!



VCK Collets  
Page 86



Nut Wrench  
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Back-up Screw  
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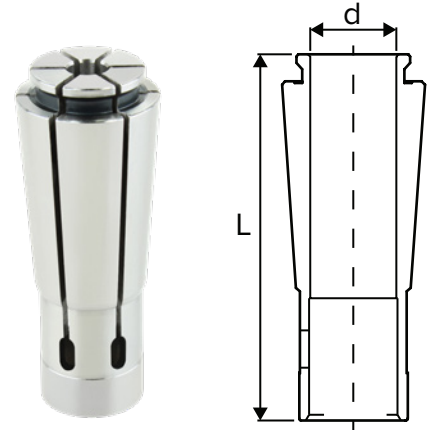


Coolant-thru Nut  
Page 87

## VCK COLLETS

### DIMENSIONAL DATA

Collet Series	L	Collet Range (d)
<b>VCK6</b>	1.567" (39.8mm)	1/8" - 1/4" (2mm - 6mm)
<b>VCK13</b>	2.126" (54mm)	1/8" - 1/2" (3mm - 12mm)



VC COLLET CHUCKS

### VCK6 COLLETS

Size range: 1/8" - 1/4"

Size range: 2.0 - 6.0mm  
(0.079 - 0.236")

### VCK13 COLLETS

Size range: 1/8" - 1/2"

Size range: 3 - 12mm  
(0.118 - 0.472")

#### INCH

Part Number	Size	Collet Series
<b>VCK6-1/8</b>	1/8"	VCK6
<b>VCK6-3/16</b>	3/16"	VCK6
<b>VCK6-1/4</b>	1/4"	VCK6

#### METRIC

Part Number	Size	Collet Series
<b>VCK6-2</b>	2.0mm	VCK6
<b>VCK6-3</b>	3.0mm	VCK6
<b>VCK6-4</b>	4.0mm	VCK6
<b>VCK6-5</b>	5.0mm	VCK6
<b>VCK6-6</b>	6.0mm	VCK6

#### INCH

Part Number	Size	Collet Series
<b>VCK13-1/8</b>	1/8"	VCK13
<b>VCK13-3/16</b>	3/16"	VCK13
<b>VCK13-1/4</b>	1/4"	VCK13
<b>VCK13-5/16</b>	5/16"	VCK13
<b>VCK13-3/8</b>	3/8"	VCK13
<b>VCK13-7/16</b>	7/16"	VCK13
<b>VCK13-1/2</b>	1/2"	VCK13

#### METRIC

Part Number	Size	Collet Series
<b>VCK13-3</b>	3.0mm	VCK13
<b>VCK13-4</b>	4.0mm	VCK13
<b>VCK13-5</b>	5.00mm	VCK13
<b>VCK13-6</b>	6.00mm	VCK13
<b>VCK13-7</b>	7.00mm	VCK13
<b>VCK13-8</b>	8.00mm	VCK13
<b>VCK13-9</b>	9.00mm	VCK13
<b>VCK13-10</b>	10.00mm	VCK13
<b>VCK13-11</b>	11.00mm	VCK13
<b>VCK13-12</b>	12.00mm	VCK13

### TIGHTENING TORQUE FOR VC COLLET CHUCKS

Collet Type	Size	Nut Tightening Torque (ft/lbs)	
		< Ø3mm	Ø3 - Ø6mm
<b>VC</b>	VCK6	7-22	22-37
	VCK13	29-55	



Nut Wrench  
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Back-up Screw  
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Coolant-thru Nut  
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# VC COLLET CHUCKS



## VC COOLANT COLLET SYSTEM



Collet Chuck	Collet	Coolant Nut Part Number	Cutting Tool Size	Coolant-Thru Disk Part Number	Slotted Disk Part Number	Disk Wrench Part Number	Blank Disk (Machinable) Part Number
<b>VC6</b>	VCK6 Range: 2 - 6mm [1/8" - 1/4"]	VCN-6BJ	2mm	SKJ10-2C	SKJ10-2	SKJL-10	SKJ10-BLANK
			3mm	SKJ10-3C	SKJ10-3		
			4mm	SKJ10-4C	SKJ10-4		
			5mm	SKJ10-5C	SKJ10-5		
			6mm	SKJ10-6C	SKJ10-6		
			1/8"	SKJ10-1/8C	SKJ10-1/8		
			3/16"	SKJ10-3/16C	SKJ10-3/16		
			1/4"	SKJ10-1/4C	SKJ10-1/4		
<b>VC13</b>	VCK13 Range: 3 - 12mm [1/8" - 1/2"]	VCN-13BJ	3mm	SKJ16-3C	SKJ16-3	SKJL-16	SKJ16-BLANK
			4mm	SKJ16-4C	SKJ16-4		
			5mm	SKJ16-5C	SKJ16-5		
			6mm	SKJ16-6C	SKJ16-6		
			7mm	SKJ16-7C	SKJ16-7		
			8mm	SKJ16-8C	SKJ16-8		
			10mm	SKJ16-10C	SKJ16-10		
			12mm	SKJ16-12C	SKJ16-12		
			1/8"	SKJ16-1/8C	SKJ16-1/8		
			3/16"	SKJ16-3/16C	SKJ16-3/16		
			1/4"	SKJ16-1/4C	SKJ16-1/4		
			5/16"	SKJ16-5/16C	SKJ16-5/16		
			3/8"	SKJ16-3/8C	SKJ16-3/8		
			7/16"	SKJ16-7/16C	SKJ16-7/16		
			1/2"	SKJ16-1/2C	SKJ16-1/2		

VC COLLET CHUCKS



VCK Collets  
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Back-up Screw  
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Coolant-thru Nut  
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## VC COLLET CHUCK ACCESSORIES

### VC BACK-UP SCREW

Part Number	Description
<b>VC66-8A</b>	Use with VC6 chucks
<b>VC613-15A</b>	Use with VC13 chucks



### VC NUTS

Part Number	Description
<b>VCN-6B</b>	Standard Nut for VC6 chucks
<b>VCN-6BJ</b>	J Coolant Nut for VC6 chucks
<b>VCN-13B</b>	Standard Nut for VC13 chucks
<b>VCN-13BJ</b>	J Coolant Nut for VC13 chucks



### VC NUT WRENCHES

Part Number	Description
<b>GH10</b>	VC6 Chuck Wrench
<b>GH16</b>	VC13 Chuck Wrench



### TORQUE WRENCH AND ATTACHMENT FOR VC COLLET CHUCK

Part Number	Description
<b>TQW-025</b>	Torque Wrench for VC6 Collet Chuck Nut
<b>TQW-200</b>	Torque Wrench for VC13 Collet Chuck Nut
<b>TQW-GH10(14X18)</b>	VC6 Attachment for TQW-025 Chuck Wrench
<b>TQW-GH16</b>	VC13 Attachment for TQW-200 Chuck Wrench



### COOLANT TUBE WRENCH

Part Number	Description
<b>HSK32-WRENCH</b>	Wrench for HSK32 Coolant Tube
<b>HSK40-WRENCH</b>	Wrench for HSK40 Coolant Tube
<b>HSK50-WRENCH</b>	Wrench for HSK50 Coolant Tube
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube



### COOLANT TUBE

Part Number	Description
<b>HSK40-TUBE</b>	Coolant Tube for HSK40 holders
<b>HSK63-TUBE</b>	Coolant Tube for HSK63 holders
<b>HSK100-TUBE</b>	Coolant Tube for HSK100 holders



# MMC COLLET CHUCKS



MMC COLLET CHUCKS

## MMC COLLET CHUCKS



## MMC COLLET CHUCK FEATURES

### Accuracy in Small Diameter Cutting

The Mini-Mini Chuck (MMC) features a slim and compact body for precision machining with small diameter tools (up to 0.5"). It is an ideal toolholder for high-speed machining applications where clearance is needed.

### High-Speed, High-Precision:

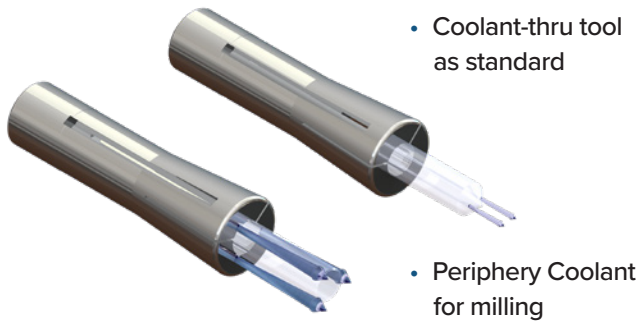
Max. 30,000 RPM (balanced at G2.5)

- Precision ground and pre-balanced, ensuring accuracy, reliability, and repeatability during high-speed operations.
- Most flexible Collet Chuck for machining Die Mold, Aerospace, and Medical parts by providing both clearance and accuracy.

### High Runout Accuracy

- Within 0.00012" at 4 times the diameter of the cutting tool!

### Coolant-thru Capabilities



### Slim, Compact Nose and Front Clamping

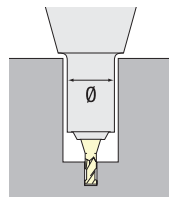
No collet nut required! An internal draw-in collet clamping mechanism results in strong, high-precision gripping and allows for a slim nose that can access hard to reach areas.

### Compact with Strong Gripping at Nose

Collet Series Nose Diameters:



- MMC 4:  $\varnothing$  15mm (0.591")
- MMC 8:  $\varnothing$  20mm (0.787")
- MMC 12:  $\varnothing$  30mm (1.181")



### Easy-to-use draw-in collet clamping mechanism

Clamp/unclamp with just a wrench!



Wrench included with all "AA" type Mini-Mini Collet Chucks

# MMC COLLET CHUCKS



## CAT MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



**T.I.R.**  
<.00012" at 4xD



**Speed**  
Up to 30,000 rpm



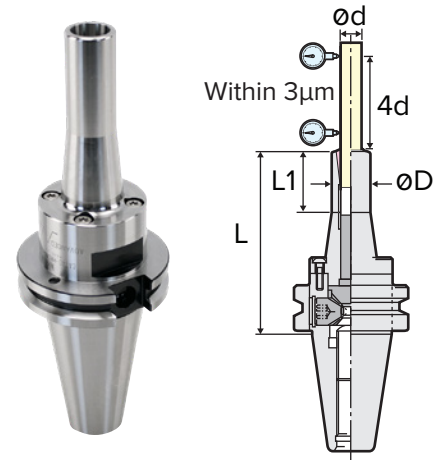
**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
CAT40-MMC4-90U-AA-IDU	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.18"	0.59"	30K
CAT40-MMC8C-85U-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.35"	1.42"	0.79"	30K
CAT40-MMC8C-90U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
CAT40-MMC8C-120U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
CAT40-MMC8C-125U-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-THEX5-3.75	4.92"	1.42"	0.79"	30K
CAT40-MMC8C-135U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	30K
CAT40-MMC12C-90U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K
CAT40-MMC12C-120U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.72"	2.36"	1.18"	30K



#### Notes:

- \*Wrench included with holder except for AT-type holders.
- \*AT denotes collet is drawn directly from the rear of the holder by a bolt.



### CAT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
CAT50-MMC8C-105U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.14"	1.30"	0.79"	20K
CAT50-MMC8C-135U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	20K
CAT50-MMC8C-165U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	6.50"	1.57"	0.79"	20K
CAT50-MMC12C-135U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.31"	2.36"	1.18"	20K
CAT50-MMC12C-165U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	6.50"	2.76"	1.18"	20K



## BT MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



**T.I.R.**  
<.00012" at 4xD



**Speed**  
Up to 30,000 rpm



**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT30-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	30K
BT30-MMC8C-65-AT*	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	2.56"	1.18"	0.79"	30K
BT30-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	30K
BT30-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	30K

Notes:

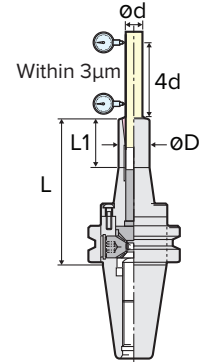
- \*Wrench included with holder except for AT-type holders.
- \*AT denotes collet is drawn directly from the rear of the holder by a draw bolt.



Wrench-THX5  
(for AT-Type Chucks)



Wrench-ALLEN6  
(for AA-Type Chucks)



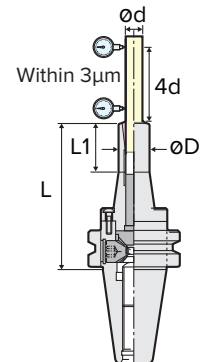
### BT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT40-MMC4-90-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.26"	0.59"	30K
BT40-MMC8C-90-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
BT40-MMC8C-120-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
BT40-MMC8C-150-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.90"	1.57"	0.79"	30K
BT40-MMC12C-90-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K
BT40-MMC12C-120-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.72"	2.36"	1.18"	30K
BT40-MMC12C-150-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.90"	2.76"	1.18"	30K

Note: Wrench included with holder.



Wrench-ALLEN6  
(for AA-Type Chucks)



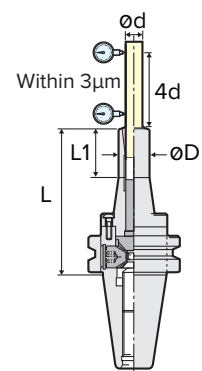
### BT50

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
BT50-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	20K
BT50-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	20K
BT50-MMC8C-135-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.31"	1.57"	0.79"	20K
BT50-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	20K
BT50-MMC12C-135-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.31"	2.36"	1.18"	20K

Note: Wrench included with holder.



Wrench-ALLEN6  
(for AA-Type Chucks)



MPK & VMK  
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Retention  
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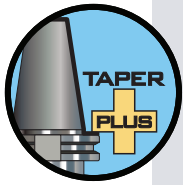


Tool  
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# MMC COLLET CHUCKS

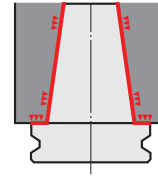


## TAPER PLUS CAT & BT MMC COLLET CHUCKS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone

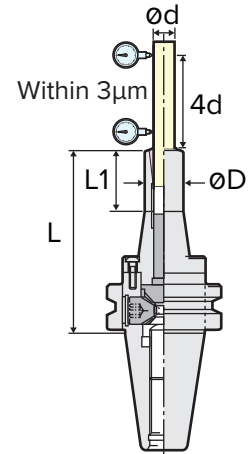


### Taper Plus - BT30

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NBT30-MMC4-105-AA	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	4.13"	1.18"	0.59"	30K
NBT30-MMC8C-65-AT*	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	2.56"	1.18"	0.79"	30K
NBT30-MMC8C-105-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.13"	1.30"	0.79"	30K
NBT30-MMC12C-105-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.13"	1.38"	1.18"	30K

Notes:

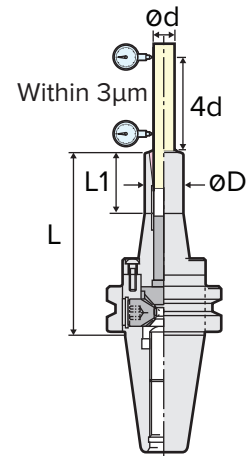
- \*Wrench included with holder except for AT-type holders.
- \*AT denotes collet is drawn directly from the rear of the holder by a draw bolt.



### Taper Plus - BT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NBT40-MMC8C-90-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
NBT40-MMC8C-120-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
NBT40-MMC12C-90-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K

Note: Wrench included with holder.

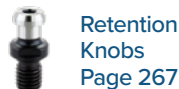
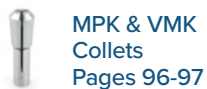


### Taper Plus - CAT40

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
NCAT40-MMC4-90U-AA-IDU	MMC4	0.039 - 0.157" (1 - 4mm)	WRENCH-ALLEN6	3.54"	1.18"	0.59"	30K
NCAT40-MMC8C-90U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.54"	1.30"	0.79"	30K
NCAT40-MMC8C-120U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.72"	1.57"	0.79"	30K
NCAT40-MMC8C-150U-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.90"	1.57"	0.79"	30K
NCAT40-MMC12C-90U-AA-IDU	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	3.54"	1.38"	1.18"	30K

Note: Wrench included with holder.

MMC COLLET CHUCKS



## HSK MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



**T.I.R.**  
 <.00012" at 4xD



**Speed**  
 Up to 30,000 rpm



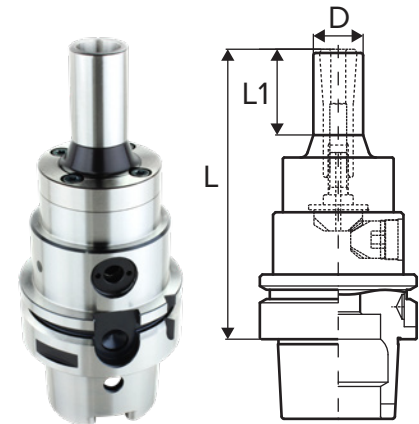
**Coolant-Thru**  
 Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK63A/100A

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
HSK63A-MMC8C-107-AT-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.21"	1.42"	0.79"	30K
HSK63A-MMC8C-115-AA-IDU	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.53"	1.30"	0.79"	30K
HSK63A-MMC12C-110-AT	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.33"	1.38"	1.18"	30K
HSK63A-MMC12C-117-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	4.61"	1.28"	1.18"	30K
HSK63A-MMC12C-177-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	6.97"	2.76"	1.18"	30K
HSK100A-MMC8C-117-AT	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.61"	1.42"	0.79"	30K
HSK100A-MMC8C-130-AA	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	5.12"	1.30"	0.79"	30K
HSK100A-MMC8C-145-AT	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	5.71"	2.52"	0.79"	30K
HSK100A-MMC12C-130-AA	MMC12	0.157 - 0.5" (4 - 13mm)	WRENCH-ALLEN6	5.12"	1.38"	1.18"	20K



**Notes:**

- \*Wrench included with holder except for AT-type holders.
- \*AT denotes collet is drawn directly from the rear of the holder by a draw bolt.
- Coolant Tube and Wrench are sold separately (HSK63-TUBE/HSK63-WRENCH).



Wrench-THX5  
 (for AT-Type Chucks)



Wrench-ALLEN6  
 (for AA-Type Chucks)

### Coolant Tube Wrench For HSK Holders

Part Number	Description
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube



Note: Coolant tube wrenches are needed to remove or install coolant tubes in HSK toolholders.

### Coolant Tube For HSK Holders

Part Number	Description
HSK63-TUBE	Coolant Tube for HSK63 Holders
HSK100-TUBE	Coolant Tube for HSK100 Holders





# MMC COLLET CHUCKS



## POLYGONAL & STRAIGHT SHANK MMC COLLET CHUCKS

- No nut required.
- Slim, compact nose front clamping allows for greater rigidity and precision gripping.
- High concentricity and repeatability.
- Easy-to-use draw-in collet clamping pulled by standard side wrench.
- Pre-balanced for high-speed applications.



**T.I.R.**  
 <.00012" at 4xD



**Speed**  
 Up to 30,000 rpm



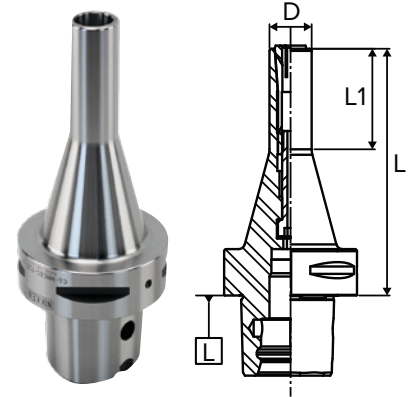
**Coolant-Thru**  
 Thru-tool coolant



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### C6

Part Number	Collet Series	Collet Range	Wrench	L	L1	D	Max. RPM
<b>C6-MMC8C-120-AT</b>	MMC8	0.079 - 0.394" (2 - 10mm)	EA573KL-15	4.72"	1.93"	0.79"	30K



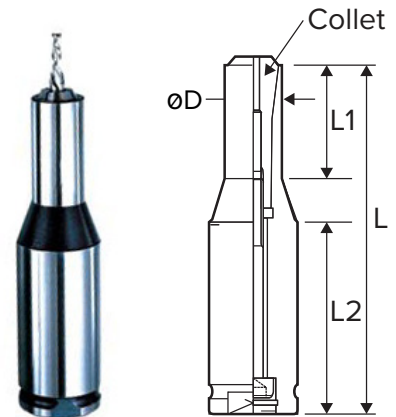
### STRAIGHT SHANK

Part Number	Collet Series	Collet Range	Wrench	L	L1	L2	D
<b>K1.1/4-MMC8C-122</b>	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	4.80"	1.58"	2.64"	0.79"
<b>K1.1/4-MMC8C-160</b>	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	6.30"	1.58"	2.64"	0.79"
<b>K3/4-MMC8C-100</b>	MMC8	0.079 - 0.394" (2 - 10mm)	WRENCH-ALLEN6	3.94"	1.58"	2.62"	0.79"

*Note: Wrench included with holder.*



Wrench-ALLEN6  
 (for AA-Type Chucks)



## MMC COLLETS

### MMC/MPK4 Collets

Part Number	Collet Series	Size
MPK4-1/16*	MPK4	1/16"
MPK4-3/32*	MPK4	3/32"
MPK4-1/8*	MPK4	1/8"
MPK4-1*	MPK4	1.0mm
MPK4-1.5*	MPK4	1.5mm
MPK4-2*	MPK4	2.0mm
MPK4-2.5*	MPK4	2.5mm
MPK4-3*	MPK4	3.0mm
MPK4-3.5*	MPK4	3.5mm
MPK4-4*	MPK4	4.0mm

**Notes:**

- MMC collets have minimal collapsibility. Highest accuracy and rigidity can be achieved when using cutting tools as close to nominal value as possible.
- \*Available in sealed and jet slotted.



#### MPK4

D:0.394" (10mm)  
d:1/16 - 3/32" (1 - 4mm)  
L:1.260" (32mm)

#### PMK8

D:0.591" (15mm)  
d:1/8 - 3/8" (2 - 8mm)  
L:2.028" (51.5mm)

#### PMK12

D:0.827" (21mm)  
d:3/16 - 1/2" (4 - 12mm)  
L:2.205" (56mm)

MMC COLLET CHUCKS

### MMC/PMK Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
PMK4-1	PMK4	1.0mm	PMK8-2.4	PMK8	2.4mm
PMK4-1.2	PMK4	1.2mm	PMK8-2.6	PMK8	2.6mm
PMK4-1.4	PMK4	1.4mm	PMK8-3.175	PMK8	3.175mm
PMK4-1.6	PMK4	1.6mm	PMK8-3.2	PMK8	3.2mm
PMK4-1.8	PMK4	1.8mm	PMK8-3.6	PMK8	3.6mm
PMK4-2	PMK4	2.0mm	PMK8-4	PMK8	4.0mm
PMK4-2.2	PMK4	2.2mm	PMK8-4.6	PMK8	4.6mm
PMK4-2.4	PMK4	2.4mm	PMK8-5	PMK8	5.0mm
PMK4-2.6	PMK4	2.6mm	PMK8-5.6	PMK8	5.6mm
PMK4-2.8	PMK4	2.8mm	PMK8-6	PMK8	6.0mm
PMK4-3	PMK4	3.0mm	PMK8-6.4	PMK8	6.4mm
PMK4-3.2	PMK4	3.2mm	PMK8-6.6	PMK8	6.6mm
			PMK8-7	PMK8	7.0mm
			PMK8-7.6	PMK8	7.6mm
			PMK8-7.8	PMK8	7.8mm
			PMK8-8	PMK8	8.0mm
			PMK12-4	PMK12	4.0mm
			PMK12-6	PMK12	6.0mm
			PMK12-10	PMK12	10.0mm
			PMK12-12	PMK12	12.0mm

### Features

- Coolant Collets are mechanically sealed.
- No additional accessories are required to make these collets coolant-thru the tool capable.
- 1000 psi high-pressure coolant capable.



**VMK:** Coolant Sealed Collet  
**VMK-JB:** Jet Slotted Collet  
**MPK/PMK:** Standard Collet



## VMK COLLETS

### Coolant Sealed Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
VMK8-1/8	VMK8	1/8"	VMK12-3/16	VMK12	3/16"
VMK8-3/16	VMK8	3/16"	VMK12-1/4	VMK12	1/4"
VMK8-1/4	VMK8	1/4"	VMK12-5/16	VMK12	5/16"
VMK8-5/16	VMK8	5/16"	VMK12-3/8	VMK12	3/8"
VMK8-3/8	VMK8	3/8"	VMK12-7/16	VMK12	7/16"
VMK8-2	VMK8	2.0mm	VMK12-1/2	VMK12	1/2"
VMK8-3	VMK8	3.0mm	VMK12-4	VMK12	4.0mm
VMK8-4	VMK8	4.0mm	VMK12-5	VMK12	5.0mm
VMK8-5	VMK8	5.0mm	VMK12-6	VMK12	6.0mm
VMK8-6	VMK8	6.0mm	VMK12-8	VMK12	8.0mm
VMK8-7	VMK8	7.0mm	VMK12-10	VMK12	10mm
VMK8-8	VMK8	8.0mm	VMK12-12	VMK12	12mm
VMK8-10	VMK8	10.0mm			

### Jet Slotted Collets

Part Number	Collet Series	Size	Part Number	Collet Series	Size
VMK8-1/8JB	VMK8	1/8"	VMK12-3/16J	VMK12	3/16"
VMK8-3/16J	VMK8	3/16"	VMK12-1/4J	VMK12	1/4"
VMK8-1/4J	VMK8	1/4"	VMK12-5/16J	VMK12	5/16"
VMK8-5/16J	VMK8	5/16"	VMK12-3/8J	VMK12	3/8"
VMK8-3/8J	VMK8	3/8"	VMK12-7/16J	VMK12	7/16"
VMK8-2J	VMK8	2.0mm	VMK12-1/2J	VMK12	1/2"
VMK8-2JB	VMK8	2.0mm	VMK12-4J	VMK12	4.0mm
VMK8-3JB	VMK8	3.0mm	VMK12-5J	VMK12	5.0mm
VMK8-4J	VMK8	4.0mm	VMK12-6J	VMK12	6.0mm
VMK8-5J	VMK8	5.0mm	VMK12-8J	VMK12	8.0mm
VMK8-6J	VMK8	6.0mm	VMK12-10J	VMK12	10.0mm
VMK8-8J	VMK8	8.0mm	VMK12-12J	VMK12	12.0mm
VMK8-10J	VMK8	10.0mm			

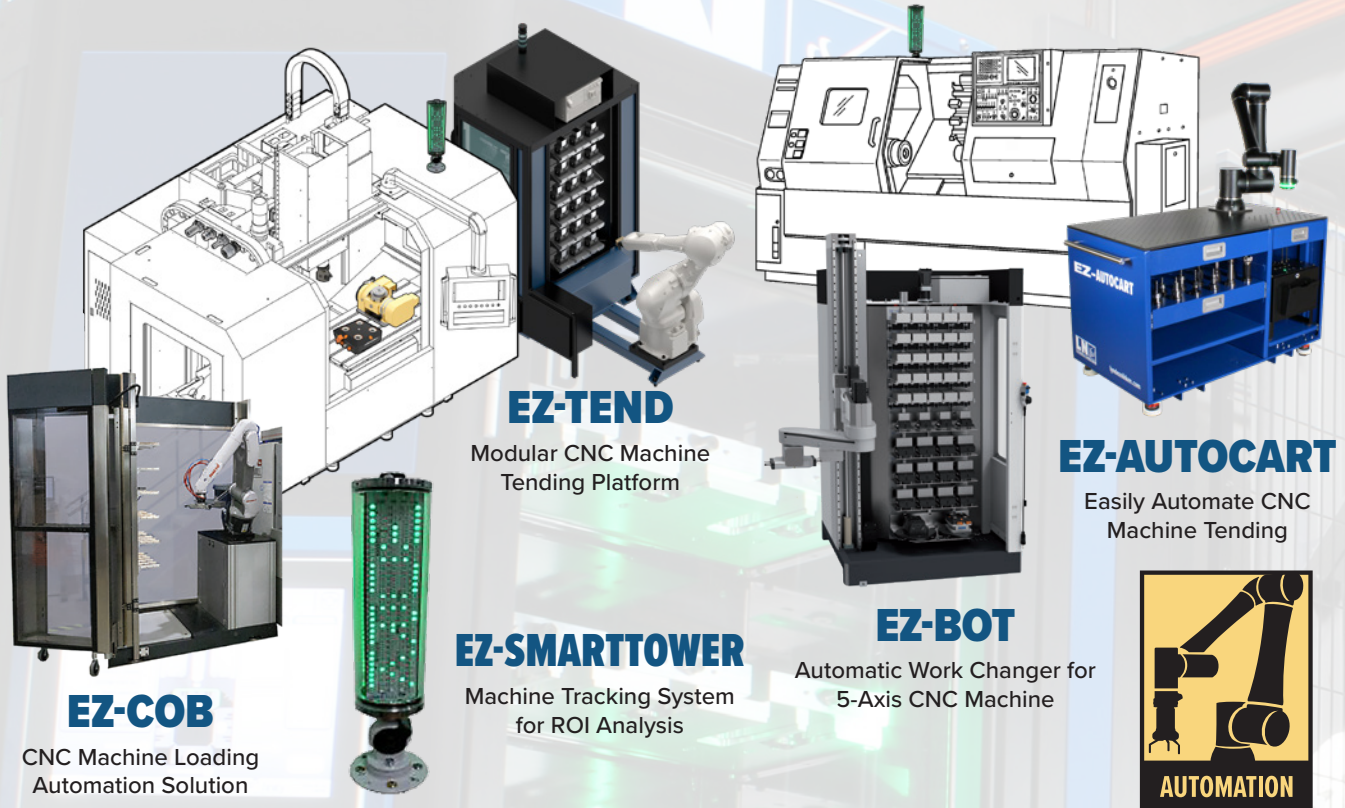
### Features

- Collet slots allow coolant to be supplied directly to the periphery of the cutting tool.
- During pocket milling operations, coolant along the periphery of the cutting tool will also help flush out chips.



# Enable Your Machine Shop to Thrive

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Whether your challenges are fierce competition for skilled workers amid rising labor and benefit costs, demand for high mix, low volume quality parts, delivering quality parts on time, or modernizing for Industry 4.0/5.0 - these hurdles can be daunting.

Automation offers a solution that can bring efficiency and cost-effectiveness to your operations. The key is seamless integration, cost control, and simplifying job complexities.

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# SHRINK FIT



SHRINK FIT

## SHRINK FIT



## SPECIFICATIONS & EQUIPMENT

# THE INDUSTRY'S HIGHEST QUALITY SHRINK FIT LINE

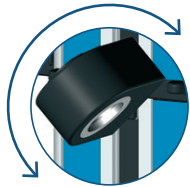
- High Speed: shrinking from 2 to 7 seconds
- Flexible Range: shrinking from 0.079" to 1.575" (2 to 40mm)

### Shrink and unshrink any type of cutter or tool

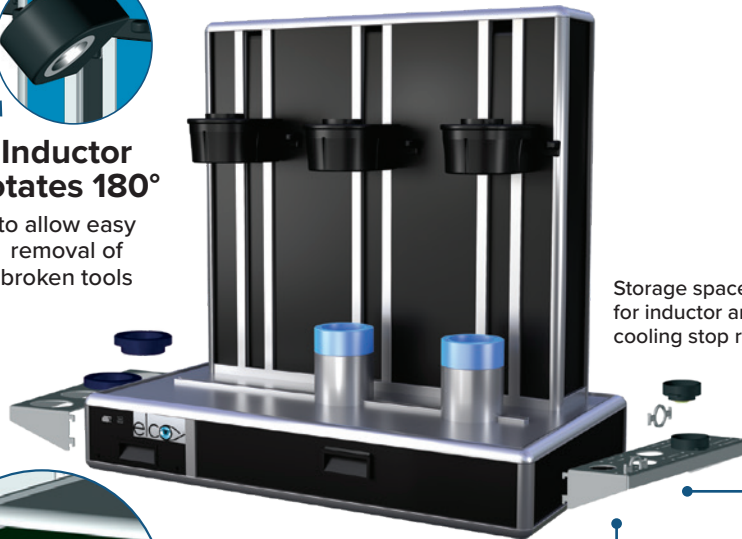
- HSS, Powdered Metal, Carbide, Steel, Heavy Metal, Shrink Fit extensions and reducers  
(Tool Shank must have h6 tolerance)

### FI-6

220V - Standard  
440V - Optional



**Inductor rotates 180°**  
to allow easy removal of broken tools

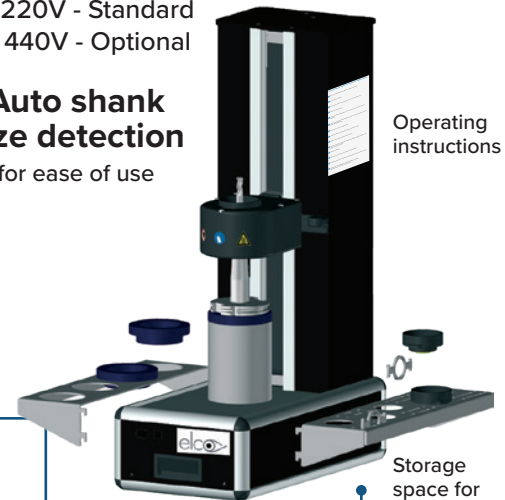


Storage space for inductor and cooling stop rings

### START.2

220V - Standard  
440V - Optional

**Auto shank size detection**  
for ease of use



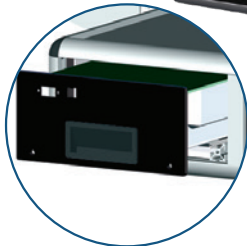
Operating instructions

Storage space for chuck holders

AFTER SALES-SERVICE

### Removable Electronics

- Compatible with Start.2 and Fi-6
- Unique slide-out Control Module allows for easy access and repair



OPTION

Foot pedal available allows for hands-free operation

Back stop presetting (SF-PS-KIT) to determine the tool gauge before shrinking



Scan here to see our Start.2 video!

### High Speed Cooling Unit (SF-START2-COOL-FAN40)

Cools tools less than 2 minutes with standard shop air pressure!  
Cooling system compatible with all cutting tool geometries to optimize cooling time cycle (3° slope, 4.5° slope, cylindrical)



### Remotely Controlled

- Compatible with Start.2 and Fi-6
- Shrink and Cooling unit linked and controlled by 1 pendant!



Registered models – Registered patents. Subject to change without notice.



## SPECIFICATIONS & EQUIPMENT

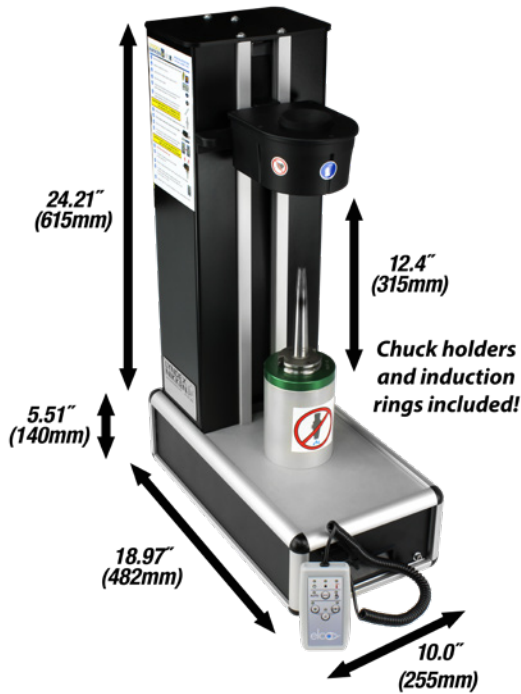
Functions	Start.2	Fi-6
<b>Specifications</b>	Part Number: SF-START2-UNIT	Part Number: SF-FI6-UNIT
Automatic tool size detection within the range of each inductor ring	■	■
Rapid heating cycle prevents heat transfer damage to the cutting tool and toolholder	■	■
Self regulated heating cycle allows for safe operation	■	■
Automatic or manual shrinking cycle time	■	■
Shrinking Ø 2 to Ø 40mm (.079"-1.575") with the same inductor	■	■
Large 64mm (2.52") inductor diameter provides flexibility for small to large cutting tools	■	■
Remote control pendant for ergonomic operation	■	■
Unique slide out control module allows for easy access and repair	■	■
Inductor rotates 180 degrees for broken cutter removal	■	■
Cooling system for the electronic board to allow high-speed shrinking		■
Power supply 380-480V/14kW/50-60Hz/3 phase	■	■
Power supply 200-240V/14kW/50-60Hz/3 phase	■	■

### Equipment

1 air cooling unit (70-90 PSI)	■	
2 air cooling units (70-90 PSI)	□	■
Shrinking of cutting diameters larger than shank diameters	□	□
Shrinking system for reductions	□	□
Back stop presetting unit	□	□
Storage space for chuck holders	■	■
Storage space for inductor stop rings and cooling stop rings	■	■
Storage space for cooling stop rings	□	
Foot pedal allows for hands-free operation	□	□

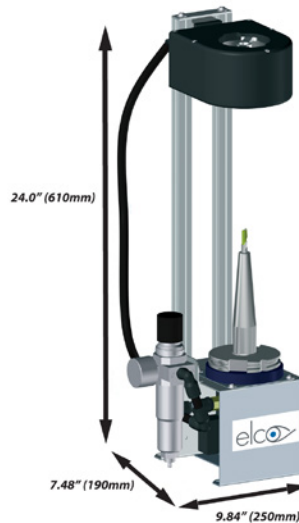
■ = Standard   □ = Option

## SHRINK FIT EQUIPMENT



### START.2 SHRINK FIT UNIT

- The world's easiest shrink machine to operate.
- Provided with accessories for shrinking 0.079" - 1.575" (Ø 2 to Ø 40mm).
- Compact and Ergonomic Design.
- 1 cooling unit included, optional 2nd cooling unit can be connected.
- Shrink machine unit net weight - 41.9 lbs. (19 kg)

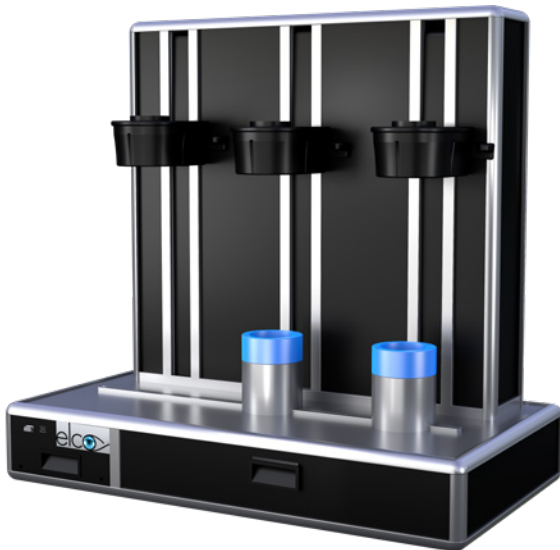


### COOLING UNIT

- Rapid Cooling - Tapered internal design allows for even distribution of high pressure air.
- Provided with accessories for cooling 0.079" - 1.575" (Ø 2 to Ø 40mm).
- Compressed air supply: 70 to 90 psi.
- Equipped with a filter and a pressure-reducing gauge to regulate the pressure and the air flow.
- Weight: 11 lbs. (5 kg)



### STORAGE RACKS (INCLUDED)



### FI-6 SHRINK FIT UNIT

- **Fi-6 - speed and safety in one**  
Speed - multiple cooling units to support high quantity tool assembly  
Safety - Guide Rail prevents operator from handling hot tools
- **The electronic board is cooled to allow high-speed shrinking.**
- Provided with accessories for shrinking & cooling 0.079" - 1.575" (Ø 2 to Ø 40mm).
- **Dimensions:**  
Length = 30.90" (785mm)  
Depth = 20.08" (510mm)  
Height = 34.45" (875mm)
- **Weight** (options excluded): 143.3 lbs. (65 kg)

### PRESETTING UNIT (OPTIONAL)

- Part Number: SF-PS-KIT
- For length presetting
- For Fi-6 shrink fit unit only
- Accuracy: ± 0,050mm
- Repeatability: ± 0,020mm
- Capability: tool shank 0.24" - 1.26" (Ø 6 to Ø 32mm)







## SHRINK FIT UNIT PACKAGES

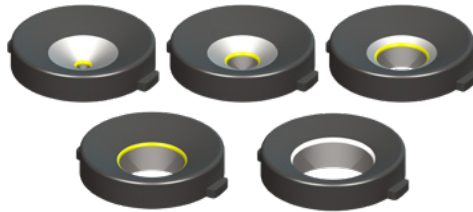
### START.2 SHRINK FIT PACKAGE Accessories Included

**SHRINK FIT UNIT AND COOLING UNIT**



**5 PIECE INDUCTION RING SET**

5/64" - 3/16" (2-5mm)    1/4" - 1/2" (6-13mm)    9/16" - 7/8" (14-24mm)



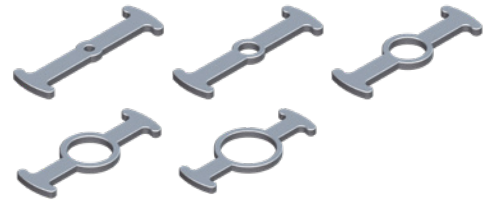
1" - 1 1/4" (25-32mm)    1 1/4" - 1 1/2" (33-40mm)

**STORAGE RACKS**



**5 PIECE COOLING BRACKET SET**

5/64" - 3/16" (2-5mm)    1/4" - 1/2" (6-13mm)    9/16" - 7/8" (14-24mm)



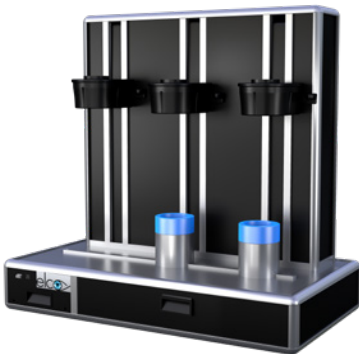
1" - 1 1/4" (25-32mm)    1 1/4" - 1 1/2" (33-40mm)

**CHUCK HOLDERS**  
(CAT40/50, BT30-50, HSK25-100)  
Included pair corresponds to selected Shrink Fit package



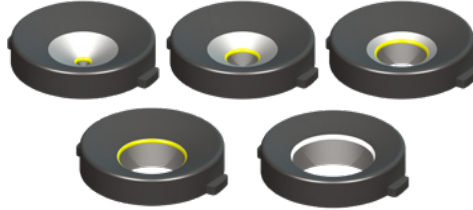
### Fi-6 SHRINK FIT PACKAGE Accessories Included

**SHRINK FIT UNIT**



**5 PIECE INDUCTION RING SET**

5/64" - 3/16" (2-5mm)    1/4" - 1/2" (6-13mm)    9/16" - 7/8" (14-24mm)



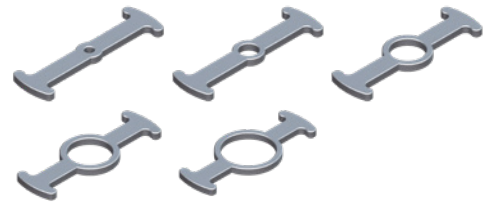
1" - 1 1/4" (25-32mm)    1 1/4" - 1 1/2" (33-40mm)

**STORAGE RACKS**



**5 PIECE COOLING BRACKET SET**

5/64" - 3/16" (2-5mm)    1/4" - 1/2" (6-13mm)    9/16" - 7/8" (14-24mm)



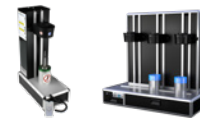
1" - 1 1/4" (25-32mm)    1 1/4" - 1 1/2" (33-40mm)

**CHUCK HOLDERS**  
(ISO30/40/50, HSK25-100, PSC4-8)  
Included pair corresponds to selected Shrink Fit package



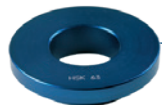
## CUSTOMIZE YOUR EQUIPMENT PACKAGE

### Accessories



Start.2

Fi-6



#### POT/CHUCK HOLDER

	PART NUMBER	Start.2	Fi-6
For HSK 25 chuck	SF-POT-HSK25	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 32 chuck	SF-POT-HSK32	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 40 / PSC4 chuck	SF-POT-HSK40/C4	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 50 / PSC5 chuck	SF-POT-HSK50/C5	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 63 chuck	SF-POT-HSK63	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 80 / PSC8 chuck	SF-POT-HSK80/C8	<input type="checkbox"/>	<input type="checkbox"/>
For HSK 100 chuck	SF-POT-HSK100	<input type="checkbox"/>	<input type="checkbox"/>
For BT 30 chuck	SF-POT-#30	<input type="checkbox"/>	<input type="checkbox"/>
For CAT / BT 40 chuck	SF-POT-#40	<input type="checkbox"/>	<input type="checkbox"/>
For CAT / BT 50 chuck	SF-POT-#50	<input type="checkbox"/>	<input type="checkbox"/>
For PSC Polygonal chuck	SF-POT-C6	<input type="checkbox"/>	<input type="checkbox"/>

**Start.2:**  
Choose any 2 Pots

**Fi-6:**  
Choose any 3 Pots



#### HEATING RING

	PART NUMBER	Start.2	Fi-6
Ø 2 to Ø 5 (5/64" - 3/16")	SF-HEAT-RING-2-5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ø 6 to Ø 13 (1/4" - 1/2")	SF-HEAT-RING-6-13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ø 14 to Ø 24 (9/16" - 7/8")	SF-HEAT-RING-14-24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ø 25 to Ø 32 (1" - 1 1/4")	SF-HEAT-RING-25-32	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ø 33 to Ø 40 (1 1/4" - 1 1/2")	SF-HEAT-RING-33-40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



#### SPLIT HEATING RING

	PART NUMBER	Start.2	Fi-6
Ø 2 to Ø 5 (5/64" - 3/16")	SF-HEAT-RING-2-5(SP)	<input type="checkbox"/>	<input type="checkbox"/>
Ø 6 to Ø 13 (1/4" - 1/2")	SF-HEAT-RING-6-13(SP)	<input type="checkbox"/>	<input type="checkbox"/>
Ø 14 to Ø 24 (9/16" - 7/8")	SF-HEAT-RING-14-24(SP)	<input type="checkbox"/>	<input type="checkbox"/>
Ø 25 to Ø 32 (1" - 1 1/4")	SF-HEAT-RING-25-32(SP)	<input type="checkbox"/>	<input type="checkbox"/>
Ø 33 to Ø 40 (1 1/4" - 1 1/2")	SF-HEAT-RING-33-40(SP)	<input type="checkbox"/>	<input type="checkbox"/>



#### ADDITIONAL COOLING UNIT

Cooling unit for Fi-6			<input checked="" type="checkbox"/>
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#### COOLING BRACKETS

	PART NUMBER	Start.2	Fi-6
Ø 2 to Ø 5 (5/64" - 3/16")	SF-COOL-BRACKET-2-6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x2
Ø 6 to Ø 13 (1/4" - 1/2")	SF-COOL-BRACKET-6-14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x2
Ø 14 to Ø 24 (9/16" - 7/8")	SF-COOL-BRACKET-14-25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x2
Ø 25 to Ø 32 (1" - 1 1/4")	SF-COOL-BRACKET-25-33	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x2
Ø 33 to Ø 40 (1 1/4" - 1 1/2")	SF-COOL-BRACKET-33-41	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x2



#### SHRINKING WITH REDUCTIONS

Set up fixture Reduction Sleeve	SF-REDUCTION-FIXTURE	<input type="checkbox"/>	<input type="checkbox"/>
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#### VARIOUS ACCESSORIES





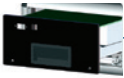

Storage space for tools	SF-RACK-CUTTER		<input type="checkbox"/>
Storage space for chuck holders	SF-RACK-POT		<input type="checkbox"/>
Storage space for inductor & cooling stop rings	SF-RACK-HEAT-RING		<input type="checkbox"/>
Storage space for cooling stop rings	SF-RACK-COOL-STOP	<input type="checkbox"/>	
A pair of Kevlar gloves	SF-GLOVES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Plier for gripping small diameters	SF-PLIERS	<input type="checkbox"/>	<input type="checkbox"/>

■ = Standard    □ = Option



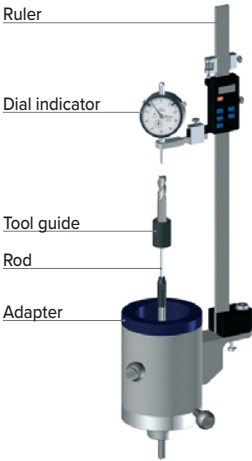
# SHRINK FIT



## CUSTOMIZE YOUR EQUIPMENT PACKAGE

	PART NUMBER	Start.2	Fi-6	
<b>SHRINK FIT CABINET</b>				
Stainless Steel Trolley	SF-CABINET	<input type="checkbox"/>		
<b>INDUCTOR</b>				
Replacement Inductor	SF-INDUCTOR	<input type="checkbox"/>	<input type="checkbox"/>	
<b>ELECTRONIC BOARD</b>				
Motherboard 380 / 480V	SF-MOTHER-BOARD-380	<input type="checkbox"/>	<input type="checkbox"/>	
Motherboard 200 / 240 V	SF-MOTHER-BOARD	<input type="checkbox"/>	<input type="checkbox"/>	
<b>REMOTE CONTROL</b>				
Remote control	SF-CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	

## Presetting

	PART NUMBER	Start.2	Fi-6	
<b>PRESETTING UNITS</b>				
Presetting unit by back-stop (Accessories : please contact us)	SF-PS-UNIT	<input type="checkbox"/>		
Presetting unit + 3 rods + ruler + indicator + one set of guides and guide holder	SF-PS-KIT		<input type="checkbox"/>	
<b>ACCESSORIES FOR PRESETTING UNITS</b>				
Set of tools guides Ø 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	SF-PS-TOOLGUIDE-KIT		<input type="checkbox"/>	
Presetting guides holder	SF-PS-GUIDE-HOLDER		<input type="checkbox"/>	
Presetting Clip Kit (19 sizes included in 1 kit)	SF-SPRING-CLIP-KIT		<input type="checkbox"/>	<div style="border: 1px solid black; padding: 5px;"> <b>Spring Clip Kit -19 sizes in 1 kit:</b>                      MM - 3, 4, 5, 6, 8, 10, 12, 16, 20, 25                      INCH- 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1.0                 </div>
Adapter for BT30 presetting	SF-PS-BT30-ADAPTER		<input type="checkbox"/>	
Adapter for CAT / BT40 presetting	SF-PS-CT/BT40-ADPTR		<input type="checkbox"/>	
Adapter for BT45 presetting	SF-PS-CT/BT45-ADPTR		<input type="checkbox"/>	
Adapter for CAT / BT50 presetting	SF-PS-CT/BT50-ADPTR		<input type="checkbox"/>	
Tool guide Ø 1/4" *	SF-PS-GUIDE-6M-0250		<input type="checkbox"/>	
Tool guide Ø 5/16" *	SF-PS-GUIDE-8M-0312		<input type="checkbox"/>	
Tool guide Ø 3/8" *	SF-PS-GUIDE-10M-0375		<input type="checkbox"/>	
Tool guide Ø 1/2" *	SF-PS-GUIDE-14M-0500		<input type="checkbox"/>	
Tool guide Ø 5/8" *	SF-PS-GUIDE-16M-0625		<input type="checkbox"/>	
Tool guide Ø 3/4" *	SF-PS-GUIDE-20M-0750		<input type="checkbox"/>	
Tool guide Ø 1" *	SF-PS-GUIDE-25M-1000		<input type="checkbox"/>	
Tool guide Ø 1 1/4" *	SF-PS-GUIDE-32M-1250		<input type="checkbox"/>	
Compact rod	SF-PS-COMPACT-ROD		<input type="checkbox"/>	
Standard & mold range rod	SF-PS-STD-ROD		<input type="checkbox"/>	
Rod (length 160 mm)	SF-PS-STD-ROD-LONG		<input type="checkbox"/>	
Ruler 300 mm	SF-PS-RULER		<input type="checkbox"/>	
Dial indicator	SF-PS-DIAL		<input type="checkbox"/>	

\*Metric Available 6-32mm

■ = Standard    □ = Option    ■ = Replacement Part

## CAT40 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT40-SF0125-3.15	1/8"	3.15"	2.00"	0.39"	0.71"		25K	1
CAT40-SF0125-5.12	1/8"	5.12"	1.50"	0.39"	0.63"	0.82"	25K	2
CAT40-SF0187-3.15	3/16"	3.15"	1.50"	0.39"	0.63"		25K	1
CAT40-SF0187-5.12	3/16"	5.12"	1.50"	0.39"	0.63"	0.82"	25K	2
CAT40-SF3-80	3mm	6.30"	2.00"	0.39"	0.71"		25K	1
CAT40-SF4-80	4mm	6.30"	1.75"	0.39"	0.67"		25K	1

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT40-SF0250-3.15CP	1/4"	3.15"	1.50"	0.83"	1.06"		25K	1
CAT40-SF0250-5.12CP	1/4"	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
CAT40-SF0312-3.15CP	5/16"	3.15"	1.50"	0.83"	1.06"		25K	1
CAT40-SF0375-3.15CP	3/8"	3.15"	2.00"	0.95"	1.26"		25K	1
CAT40-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
CAT40-SF0437-3.15CP	7/16"	3.15"	2.00"	0.95"	1.26"		25K	1
CAT40-SF0500-3.15CP	1/2"	3.15"	2.00"	0.95"	1.26"		25K	1
CAT40-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
CAT40-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"		25K	1
CAT40-SF0625-5.12CP	5/8"	5.12"	1.75"	1.06"	1.34"	1.51"	25K	2
CAT40-SF0750-3.15CP	3/4"	3.15"	2.23"	1.30"	1.65"		25K	1
CAT40-SF0750-5.12CP	3/4"	5.12"	2.25"	1.30"	1.65"	1.79"	25K	2
CAT40-SF1000-3.94CP	1"	3.94"	2.25"	1.73"	2.09"		25K	1
CAT40-SF1000-5.12CP	1"	5.12"	2.25"	1.73"	2.09"	2.22"	25K	2
CAT40-SF6-80CP	6mm	3.15"	1.50"	0.83"	1.06"		25K	1
CAT40-SF8-80CP	8mm	3.15"	1.50"	0.83"	1.06"		25K	1
CAT40-SF10-80CP	10mm	3.15"	1.98"	0.95"	1.26"		25K	1
CAT40-SF12-80CP	12mm	3.15"	2.00"	0.95"	1.26"		25K	1
CAT40-SF14-80CP	14mm	3.15"	1.75"	1.06"	1.34"		25K	1
CAT40-SF16-80CP	16mm	3.15"	1.75"	1.06"	1.34"		25K	1
CAT40-SF20-80CP	20mm	3.15"	2.23"	1.30"	1.65"		25K	1
CAT40-SF25-100CP	25mm	3.94"	2.25"	1.73"	2.09"		25K	1

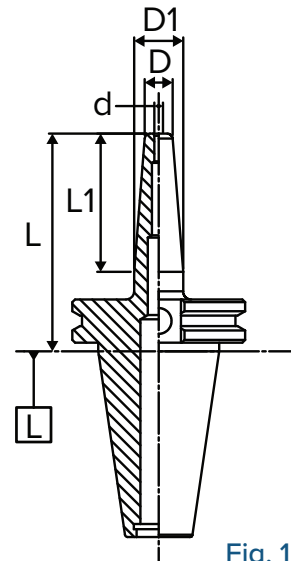


Fig. 1

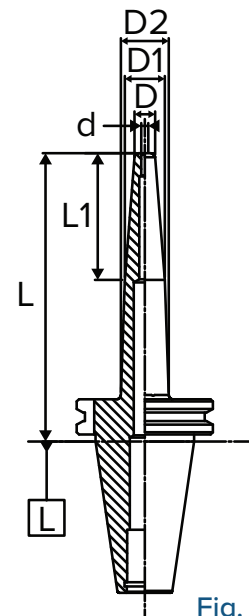
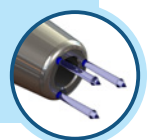


Fig. 2

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



# SHRINK FIT



## CAT40 SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT40-SF0125-6.30	1/8"	6.30"	1.50"	0.39"	0.63"	0.91"	25K	3
CAT40-SF3-160	3mm	6.30"	1.50"	0.39"	0.63"	0.91"	25K	3

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT40-SF0250-6.30CP	1/4"	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
CAT40-SF0375-6.30CP	3/8"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT40-SF0500-6.30CP	1/2"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT40-SF0625-6.30CP	5/8"	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
CAT40-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
CAT40-SF1000-6.30CP	1"	6.30"	2.25"	1.73"	2.09"	2.31"	25K	3
CAT40-SF6-160CP	6mm	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
CAT40-SF8-160CP	8mm	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
CAT40-SF10-160CP	10mm	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT40-SF12-160CP	12mm	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT40-SF16-160CP	16mm	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
CAT40-SF20-160CP	20mm	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
CAT40-SF25-160CP	25mm	6.30"	2.25"	1.73"	2.09"	2.31"	25K	3

### MOLD TYPE

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
CAT40-SF0125-3.15MT	1/8"	3.15"	1.75"	0.35"	0.63"	25K	1
CAT40-SF0125-6.30MT	1/8"	6.30"	3.25"	0.35"	0.87"	25K	1
CAT40-SF0250-3.15MT	1/4"	3.15"	2.25"	0.47"	0.83"	25K	1
CAT40-SF0250-6.30MT	1/4"	6.30"	3.75"	0.47"	1.06"	25K	1
CAT40-SF0375-6.30MT	3/8"	6.30"	4.00"	1.26"	0.63"	25K	1
CAT40-SF0500-3.15MT	1/2"	3.15"	2.00"	0.71"	1.06"	25K	1
CAT40-SF0625-3.15MT	5/8"	3.15"	2.00"	0.94"	1.32"	25K	1

Note:

- Mold Type & Rigid Type Shrink Fit Holders can be made as special.

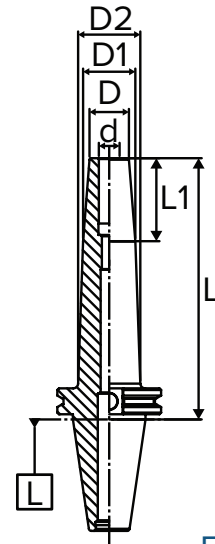


Fig. 3



SHRINK FIT

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## CAT50 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
CAT50-SF0125-3.15	1/8"	3.15"	2.00"	0.39"	0.71"	25K	1
CAT50-SF3-80	3mm	3.15"	2.00"	0.39"	0.71"	25K	1

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT50-SF0250-3.15CP	1/4"	3.15"	1.50"	0.83"	1.06"		25K	1
CAT50-SF0250-5.12CP	1/4"	5.12"	1.51"	0.83"	1.06"	1.26"	25K	2
CAT50-SF0375-3.15CP	3/8"	3.15"	2.00"	0.95"	1.26"		25K	1
CAT50-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
CAT50-SF0500-3.15CP	1/2"	3.15"	2.00"	0.95"	1.26"		25K	1
CAT50-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
CAT50-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"		25K	1
CAT50-SF0625-5.12CP	5/8"	5.12"	1.75"	1.06"	1.34"	1.51"	25K	2
CAT50-SF0750-3.15CP	3/4"	3.15"	2.22"	1.30"	1.65"		25K	1
CAT50-SF0750-5.12CP	3/4"	5.12"	2.25"	1.30"	1.65"	1.79"	25K	2
CAT50-SF1000-3.94CP	1"	3.94"	2.25"	1.73"	2.09"		25K	1
CAT50-SF1000-5.12CP	1"	5.12"	2.25"	1.73"	2.09"	2.22"	25K	2
CAT50-SF1250-3.94CP	1.1/4"	3.94"	2.25"	1.73"	2.09"		25K	1
CAT50-SF1250-5.12CP	1.1/4"	5.12"	2.25"	1.73"	2.09"	2.22"	25K	2
CAT50-SF6-80CP	6mm	3.15"	1.50"	0.83"	1.06"		25K	1
CAT50-SF8-80CP	8mm	3.15"	1.50"	0.83"	1.06"		25K	1
CAT50-SF10-80CP	10mm	3.15"	2.00"	0.95"	1.26"		25K	1
CAT50-SF12-80CP	12mm	3.15"	2.00"	0.95"	1.26"		25K	1
CAT50-SF16-80CP	16mm	3.15"	1.75"	1.06"	1.34"		25K	1
CAT50-SF25-100CP	25mm	3.94"	2.25"	1.73"	2.09"		25K	1

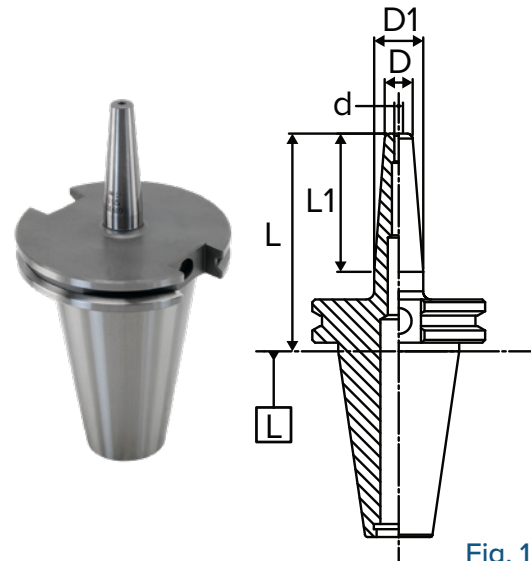


Fig. 1

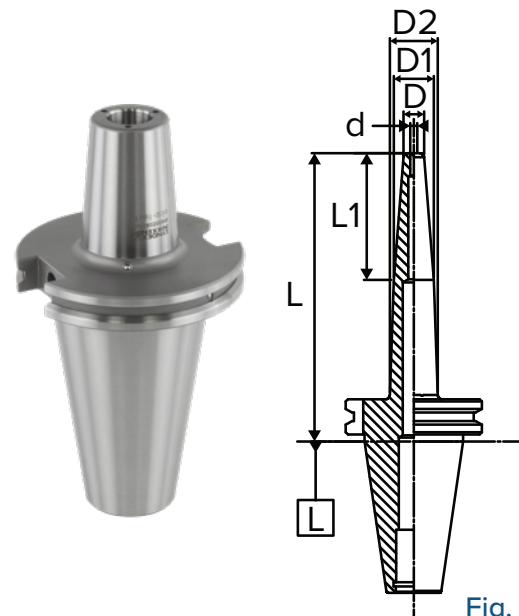
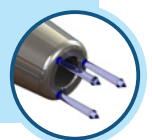


Fig. 2

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



# SHRINK FIT



## CAT50 SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT50-SF0125-6.30	1/8"	6.30"	2.00"	0.39"	0.71"	0.95"	25K	3
CAT50-SF3-160	3mm	6.30"	2.00"	0.39"	0.71"	0.95"	25K	3

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
CAT50-SF0250-6.30CP	1/4"	6.30"	1.51"	0.83"	1.06"	1.34"	25K	3
CAT50-SF0375-6.30CP	3/8"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT50-SF0500-6.30CP	1/2"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT50-SF0625-6.30CP	5/8"	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
CAT50-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
CAT50-SF1000-6.30CP	1"	6.30"	2.25"	1.73"	2.09"	2.30"	25K	3
CAT50-SF1250-6.30CP	1-1/4"	6.30"	2.25"	1.73"	2.09"	2.30"	25K	3
CAT50-SF6-160CP	6mm	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
CAT50-SF8-160CP	8mm	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
CAT50-SF10-160CP	10mm	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT50-SF12-160CP	12mm	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
CAT50-SF16-160CP	16mm	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
CAT50-SF20-160CP	20mm	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
CAT50-SF25-160CP	25mm	6.30"	2.25"	1.73"	2.09"	2.30"	25K	3
CAT50-SF32-160CP	32mm	6.30"	2.25"	1.73"	2.09"	2.30"	25K	3

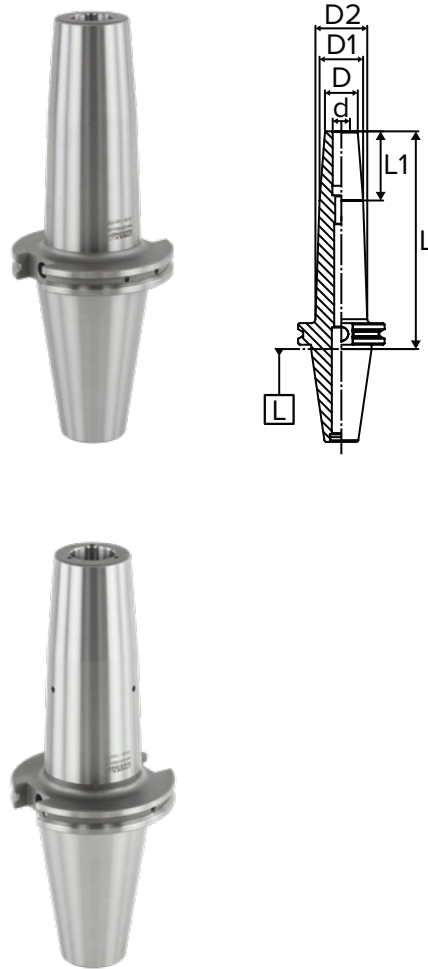


Fig. 3

SHRINK FIT

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## BT30 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>BT30-SF0125-3.15</b>	1/8"	3.15"	2.00"	0.39"	0.71"	-	25K	4
<b>BT30-SF0125-6.30</b>	1/8"	6.30"	2.00"	0.39"	0.71"	0.94"	25K	5
<b>BT30-SF0187-3.15</b>	3/16"	3.15"	1.50"	0.39"	0.63"	-	25K	4

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
<b>BT30-SF0250-3.15CP</b>	1/4"	3.15"	1.50"	0.83"	1.06"	25K	4
<b>BT30-SF0375-3.15CP</b>	3/8"	3.15"	1.75"	0.95"	1.26"	25K	4
<b>BT30-SF0500-3.15CP</b>	1/2"	3.15"	2.00"	0.95"	1.26"	25K	4
<b>BT30-SF0625-3.15CP</b>	5/8"	3.15"	1.75"	1.06"	1.34"	25K	4
<b>BT30-SF0750-3.15CP</b>	3/4"	3.15"	1.50"	1.30"	1.54"	25K	4

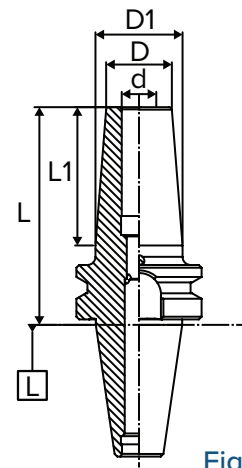


Fig. 4

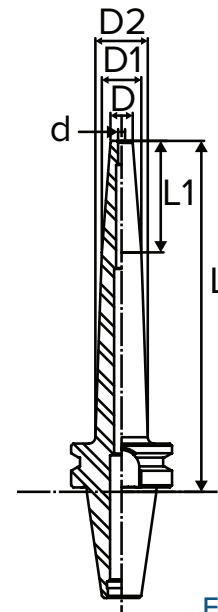


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.







## BT40 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
BT40-SF0125-3.54	1/8"	3.54"	2.00"	0.39"	0.71"	-	25K	4
BT40-SF0125-5.12	1/8"	5.12"	2.00"	0.39"	0.71"	0.84"	25K	5
BT40-SF0187-3.54	3/16"	3.54"	1.50"	0.83"	1.06"	-	25K	4
BT40-SF0187-5.12	3/16"	5.12"	2.25"	0.39"	0.75"	0.87"	25K	5

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
BT40-SF0250-3.54CP	1/4"	3.54"	1.50"	0.83"	1.06"	-	25K	4
BT40-SF0250-5.12CP	1/4"	5.12"	1.50"	0.83"	1.06"	1.23"	25K	5
BT40-SF0312-3.54CP	5/16"	3.54"	1.50"	0.83"	1.06"	-	25K	4
BT40-SF0312-5.12CP	5/16"	5.12"	1.50"	0.83"	1.06"	1.23"	25K	5
BT40-SF0375-3.54CP	3/8"	3.54"	2.00"	0.95"	1.26"	-	25K	4
BT40-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	1.39"	25K	5
BT40-SF0500-3.54CP	1/2"	3.54"	2.00"	0.95"	1.26"	-	25K	4
BT40-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	1.39"	25K	5
BT40-SF0625-3.54CP	5/8"	3.54"	1.75"	1.06"	1.34"	-	25K	4
BT40-SF0750-3.54CP	3/4"	3.54"	2.00"	1.30"	1.61"	-	25K	4
BT40-SF1000-3.94CP	1"	3.94"	2.00"	1.73"	2.05"	-	25K	4

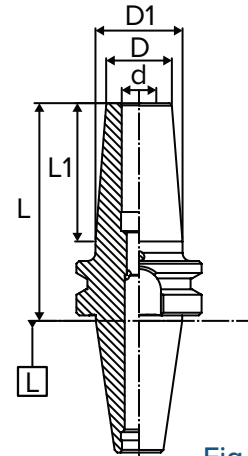


Fig. 4

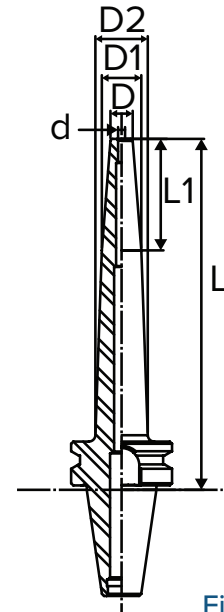


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## BT40 SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>BT40-SF0125-6.30</b>	1/8"	6.30"	2.00"	0.39"	0.71"	0.93"	25K	5
<b>BT40-SF0187-6.30</b>	3/16"	6.30"	1.50"	0.83"	1.06"	1.23"	25K	5

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>BT40-SF0187-6.30CP</b>	3/16"	6.30"	1.50"	0.83"	1.06"	1.31"	25K	5
<b>BT40-SF0250-6.30CP</b>	1/4"	6.30"	1.50"	0.83"	1.06"	1.32"	25K	5
<b>BT40-SF0312-6.30CP</b>	5/16"	6.30"	1.50"	0.83"	1.06"	1.32"	25K	5
<b>BT40-SF0375-6.30CP</b>	3/8"	6.30"	2.00"	0.95"	1.26"	1.48"	25K	5
<b>BT40-SF0500-6.30CP</b>	1/2"	6.30"	2.00"	0.95"	1.26"	1.48"	25K	5
<b>BT40-SF0625-6.30CP</b>	5/8"	6.30"	1.95"	1.07"	1.36"	1.57"	25K	5
<b>BT40-SF0750-6.30CP</b>	3/4"	6.30"	2.00"	1.30"	1.61"	1.83"	25K	5
<b>BT40-SF1000-6.30CP</b>	1"	6.30"	2.00"	1.73"	2.05"	2.26"	25K	5

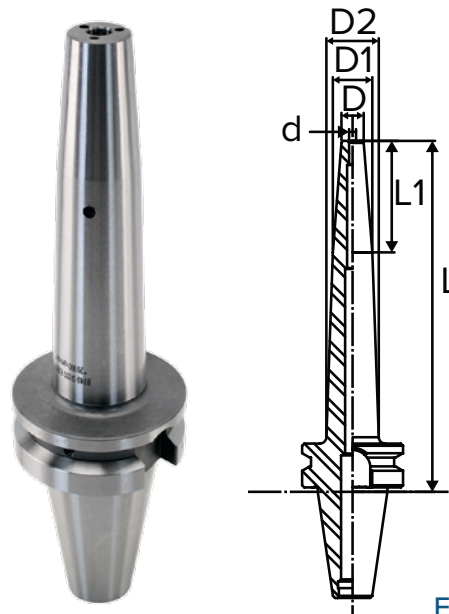


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





## BT50 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Pluggable Coolant Ports



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>BT50-SF0125-3.94</b>	1/8"	3.94"	2.00"	0.39"	0.71"	-	25K	4
<b>BT50-SF0125-6.30</b>	1/8"	6.30"	2.00"	0.39"	0.71"	0.90"	25K	5

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
<b>BT50-SF0250-3.94CP</b>	1/4"	3.94"	2.00"	0.39"	0.71"	25K	4
<b>BT50-SF0375-3.94CP</b>	3/8"	3.94"	1.50"	0.83"	1.06"	25K	4
<b>BT50-SF0500-3.94CP</b>	1/2"	3.94"	2.00"	0.95"	1.26"	25K	4
<b>BT50-SF0625-3.94CP</b>	5/8"	3.94"	1.75"	1.06"	1.34"	25K	4
<b>BT50-SF0750-3.94CP</b>	3/4"	3.94"	2.25"	1.30"	1.65"	25K	4
<b>BT50-SF1000-3.94CP</b>	1"	3.94"	2.25"	1.73"	2.09"	25K	4
<b>BT50-SF1250-3.94CP</b>	1-1/4"	3.94"	2.25"	1.73"	2.09"	25K	4

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>BT50-SF0250-6.30CP</b>	1/4"	6.30"	1.50"	0.83"	1.06"	1.29"	25K	5
<b>BT50-SF0375-6.30CP</b>	3/8"	6.30"	2.00"	0.95"	1.26"	1.45"	25K	5
<b>BT50-SF0500-6.30CP</b>	1/2"	6.30"	2.00"	0.95"	1.26"	1.45"	25K	5
<b>BT50-SF0625-6.30CP</b>	5/8"	6.30"	1.75"	1.06"	1.34"	1.54"	25K	5
<b>BT50-SF0750-6.30CP</b>	3/4"	6.30"	2.25"	1.30"	1.65"	1.82"	25K	5
<b>BT50-SF1000-6.30CP</b>	1"	6.30"	2.25"	1.73"	2.09"	2.26"	25K	5
<b>BT50-SF1250-6.30CP</b>	1-1/4"	6.30"	2.25"	1.73"	2.09"	2.26"	25K	5
<b>BT50-SF8-160CP</b>	8mm	6.30"	1.50"	0.83"	1.06"	1.29"	25K	5
<b>BT50-SF10-160CP</b>	10mm	6.30"	2.00"	0.95"	1.26"	1.45"	25K	5
<b>BT50-SF12-160CP</b>	12mm	6.30"	2.00"	0.95"	1.26"	1.45"	25K	5
<b>BT50-SF16-160CP</b>	16mm	6.30"	1.75"	1.06"	1.26"	1.54"	25K	5

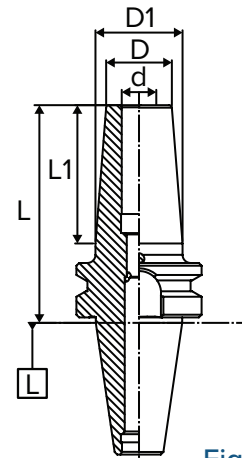


Fig. 4

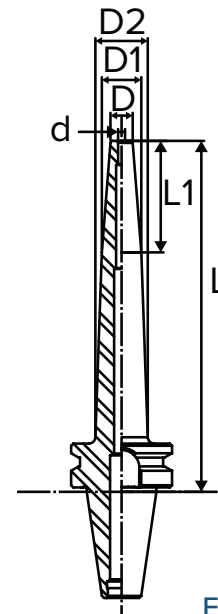


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## NCAT40 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
NCAT40-SF0125-3.15	1/8"	3.15"	2.00"	0.39"	0.71"	-	25K	1
NCAT40-SF0125-5.12	1/8"	5.12"	1.50"	0.39"	0.75"	0.82"	25K	2
NCAT40-SF0187-3.15	3/16"	3.15"	1.50"	0.39"	0.63"	-	25K	1
NCAT40-SF0187-5.12	3/16"	5.12"	1.50"	0.39"	0.63"	0.82"	25K	2

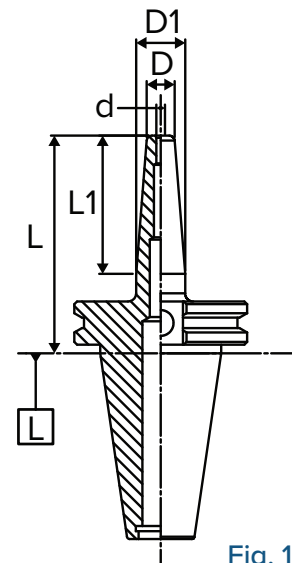


Fig. 1

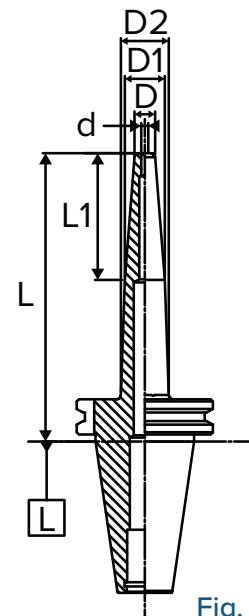


Fig. 2



## NCAT40 SHRINK FIT HOLDERS

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
NCAT40-SF0250-3.15CP	1/4"	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT40-SF0250-5.12CP	1/4"	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
NCAT40-SF0312-3.15CP	5/16"	3.15"	1.75"	1.06"	1.34"	-	25K	1
NCAT40-SF0312-5.12CP	5/16"	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
NCAT40-SF0375-3.15CP	3/8"	3.15"	1.99"	0.95"	1.26"	-	25K	1
NCAT40-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
NCAT40-SF0500-3.15CP	1/2"	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT40-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
NCAT40-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"	-	25K	1
NCAT40-SF0625-5.12CP	5/8"	5.12"	1.75"	1.06"	1.34"	1.51"	25K	2
NCAT40-SF0750-3.15CP	3/4"	3.15"	2.22"	1.30"	1.67"	-	25K	1
NCAT40-SF0750-5.12CP	3/4"	5.12"	2.25"	1.30"	1.65"	1.79"	25K	2
NCAT40-SF1000-3.94CP	1"	3.94"	2.25"	1.73"	2.09"	-	25K	1
NCAT40-SF1000-5.12CP	1"	5.12"	2.25"	1.73"	2.09"	2.22"	25K	2
NCAT40-SF6-80CP	6mm	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT40-SF6-130CP	6mm	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
NCAT40-SF8-80CP	8mm	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT40-SF10-80CP	10mm	3.15"	1.99"	0.95"	1.26"	-	25K	1
NCAT40-SF10-130CP	10mm	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
NCAT40-SF12-80CP	12mm	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT40-SF14-80CP	14mm	3.15"	1.75"	1.06"	1.34"	-	25K	1
NCAT40-SF16-80CP	16mm	3.15"	1.75"	1.06"	1.34"	-	25K	1

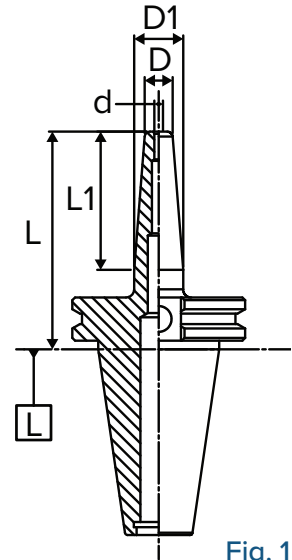


Fig. 1

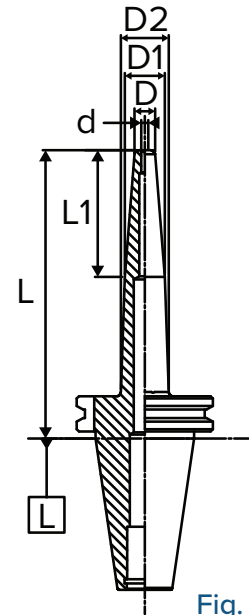
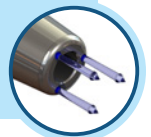


Fig. 2

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## NCAT40 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>NCAT40-SF0125-6.30</b>	1/8"	6.30"	1.50"	0.39"	0.63"	0.91"	25K	3
<b>NCAT40-SF0187-6.30</b>	3/16"	6.30"	1.50"	0.39"	0.63"	0.91"	25K	3

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>NCAT40-SF0250-6.30CP</b>	1/4"	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
<b>NCAT40-SF0375-6.30CP</b>	3/8"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
<b>NCAT40-SF0500-6.30CP</b>	1/2"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
<b>NCAT40-SF0625-6.30CP</b>	5/8"	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
<b>NCAT40-SF0750-6.30CP</b>	3/4"	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
<b>NCAT40-SF1000-6.30CP</b>	1"	6.30"	2.25"	1.73"	2.09"	2.31"	25K	3



Fig. 3

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



# SHRINK FIT



## NCAT50 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Pluggable Coolant Ports



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
NCAT50-SF0125-3.15	1/8"	3.15"	2.00"	0.39"	0.71"	25K	1
NCAT50-SF0187-3.15	3/16"	3.15"	2.00"	0.39"	0.71"	25K	1

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
NCAT50-SF0250-3.15CP	1/4"	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT50-SF0250-5.12CP	1/4"	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
NCAT50-SF0312-3.15CP	5/16"	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT50-SF0312-5.12CP	5/16"	5.12"	1.50"	0.83"	1.06"	1.26"	25K	2
NCAT50-SF0375-3.15CP	3/8"	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT50-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
NCAT50-SF0437-3.15CP	7/16"	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT50-SF0500-3.15CP	1/2"	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT50-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	1.42"	25K	2
NCAT50-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"	-	25K	1
NCAT50-SF0625-5.12CP	5/8"	5.12"	1.75"	1.06"	1.34"	1.51"	25K	2
NCAT50-SF0750-3.15CP	3/4"	3.15"	2.22"	1.30"	1.65"	-	25K	1
NCAT50-SF0750-5.12CP	3/4"	5.12"	2.25"	1.30"	1.65"	1.80"	25K	2
NCAT50-SF1000-3.94CP	1"	3.94"	2.25"	1.73"	2.09"	-	25K	1
NCAT50-SF1000-5.12CP	1"	5.12"	2.25"	1.73"	2.09"	2.23"	25K	2
NCAT50-SF1250-3.94CP	1-1/4"	3.15"	2.25"	1.73"	2.09"	-	25K	1
NCAT50-SF1250-5.12CP	1-1/4"	5.12"	2.25"	1.73"	2.09"	2.22"	25K	2
NCAT50-SF6-80CP	6mm	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT50-SF8-80CP	8mm	3.15"	1.50"	0.83"	1.06"	-	25K	1
NCAT50-SF10-80CP	10mm	3.15"	2.00"	0.95"	1.26"	-	25K	1
NCAT50-SF14-80CP	14mm	3.15"	1.75"	1.06"	1.34"	-	25K	1

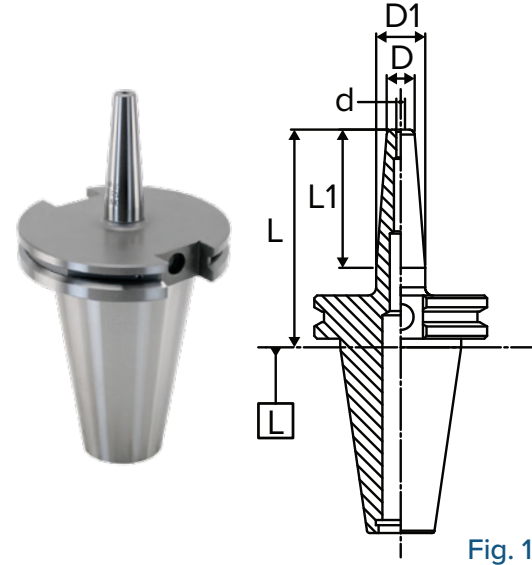


Fig. 1

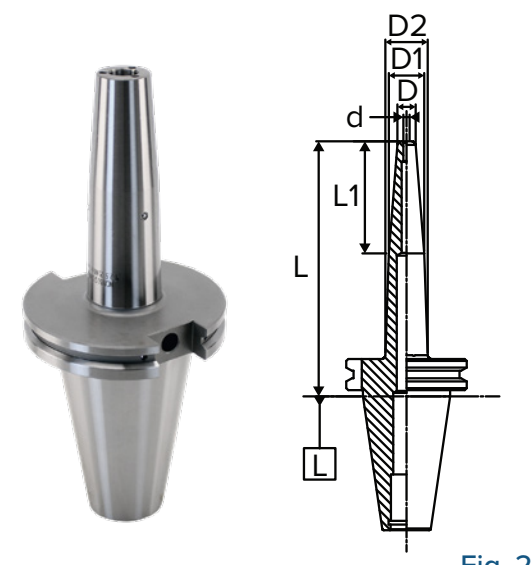



Fig. 2

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



SHRINK FIT

## NCAT50 SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
NCAT50-SF0125-6.30	1/8"	6.30"	2.00"	0.39"	0.71"	0.95"	25K	3

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
NCAT50-SF0250-6.30CP	1/4"	6.30"	1.50"	0.83"	1.06"	1.34"	25K	3
NCAT50-SF0375-6.30CP	3/8"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
NCAT50-SF0500-6.30CP	1/2"	6.30"	2.00"	0.95"	1.26"	1.50"	25K	3
NCAT50-SF0625-6.30CP	5/8"	6.30"	1.75"	1.06"	1.34"	1.59"	25K	3
NCAT50-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	1.87"	25K	3
NCAT50-SF1000-6.30CP	1"	6.30"	2.25"	1.73"	2.09"	2.31"	25K	3
NCAT50-SF1250-6.30CP	1-1/4"	6.30"	2.25"	1.73"	2.09"	2.31"	25K	3

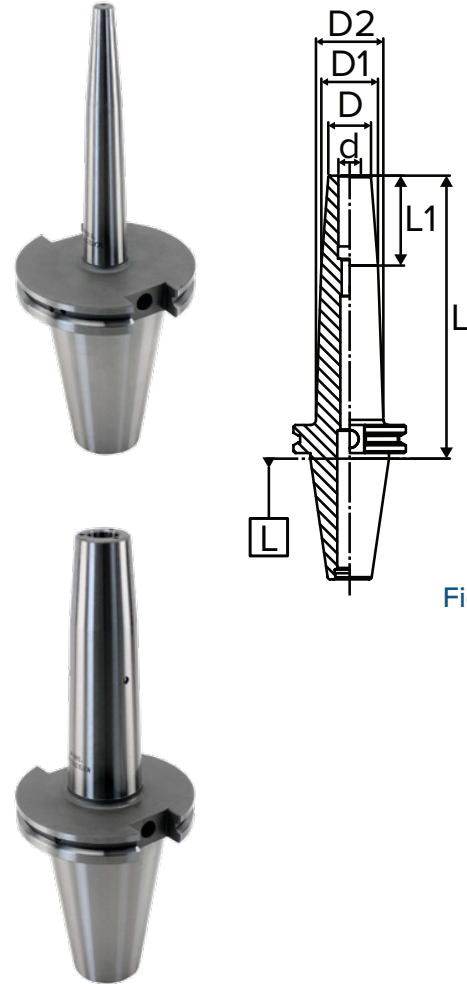


Fig. 3

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





# SHRINK FIT

## NBT30 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Pluggable Coolant Ports

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
<b>NBT30-SF0125-3.15</b>	1/8"	3.15"	2.00"	0.39"	0.71"	25K	4
<b>NBT30-SF0187-3.15</b>	3/16"	3.15"	1.50"	0.39"	0.63"	25K	4

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
<b>NBT30-SF0250-3.15CP</b>	1/4"	3.15"	1.50"	0.83"	1.06"	25K	4
<b>NBT30-SF0375-3.15CP</b>	3/8"	3.15"	1.75"	0.95"	1.26"	25K	4
<b>NBT30-SF0500-3.15CP</b>	1/2"	3.15"	2.00"	0.95"	1.26"	25K	4
<b>NBT30-SF0625-3.15CP</b>	5/8"	3.15"	1.75"	1.06"	1.34"	25K	4
<b>NBT30-SF0750-3.15CP</b>	3/4"	3.15"	1.50"	1.30"	1.54"	25K	4

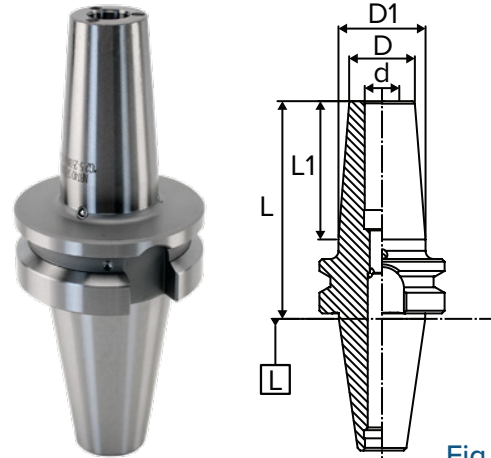


Fig. 4

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## NBT40 SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Plugable Coolant Ports

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
<b>NBT40-SF0125-3.54</b>	1/8"	3.54"	2.00"	0.39"	0.71"	25K	4
<b>NBT40-SF0187-3.54</b>	3/16"	3.54"	2.00"	0.39"	0.71"	25K	4

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>NBT40-SF0250-3.54CP</b>	1/4"	3.54"	1.50"	0.83"	1.06"	-	25K	4
<b>NBT40-SF0375-3.54CP</b>	3/8"	3.54"	2.00"	0.95"	1.26"	-	25K	4
<b>NBT40-SF0500-3.54CP</b>	1/2"	3.54"	2.00"	0.95"	1.26"	-	25K	4
<b>NBT40-SF0500-5.12CP</b>	1/2"	5.12"	2.00"	0.95"	1.26"	1.39"	25K	5
<b>NBT40-SF0625-3.54CP</b>	5/8"	3.54"	1.75"	1.06"	1.34"	-	25K	4
<b>NBT40-SF0750-3.54CP</b>	3/4"	3.54"	2.00"	1.30"	1.61"	-	25K	4
<b>NBT40-SF0750-5.12CP</b>	3/4"	5.12"	2.00"	1.30"	1.61"	1.75"	25K	5
<b>NBT40-SF1000-3.54CP</b>	1"	3.54"	2.00"	1.73"	2.05"	-	25K	4

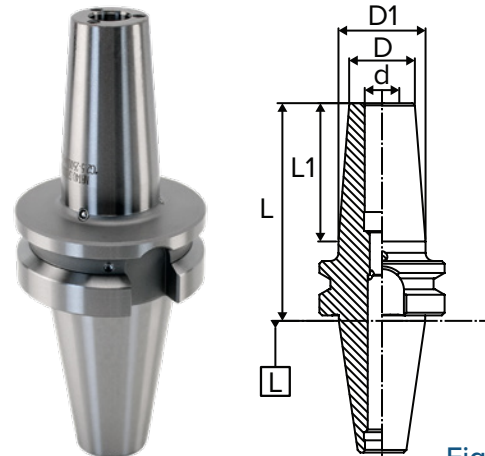


Fig. 4

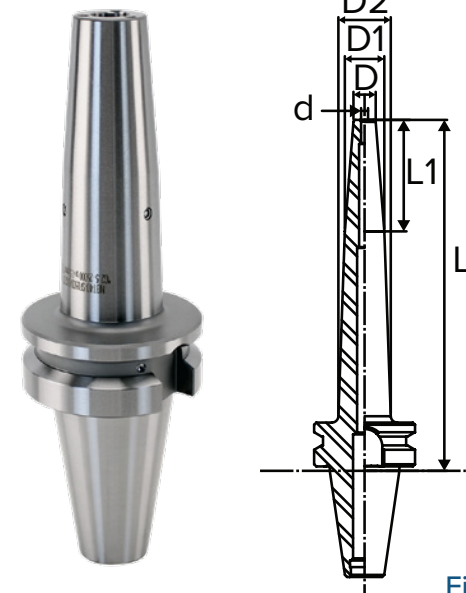


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





## NBT40 SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>NBT40-SF0125-6.30</b>	1/8"	6.30"	2.00"	0.39"	0.71"	0.93"	25K	5

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	D2	Max. RPM	Fig.
<b>NBT40-SF0250-6.30CP</b>	1/4"	6.30"	1.50"	0.83"	1.06"	1.32"	25K	5
<b>NBT40-SF0375-6.30CP</b>	3/8"	6.30"	2.00"	0.95"	1.26"	1.48"	25K	5
<b>NBT40-SF0500-6.30CP</b>	1/2"	6.30"	2.00"	0.95"	1.26"	1.48"	25K	5
<b>NBT40-SF0625-6.30CP</b>	5/8"	6.30"	1.95"	1.07"	1.37"	1.59"	25K	5
<b>NBT40-SF0750-6.30CP</b>	3/4"	6.30"	2.00"	1.30"	1.61"	1.83"	25K	5
<b>NBT40-SF1000-6.30CP</b>	1"	6.30"	2.00"	1.73"	2.05"	2.26"	25K	5

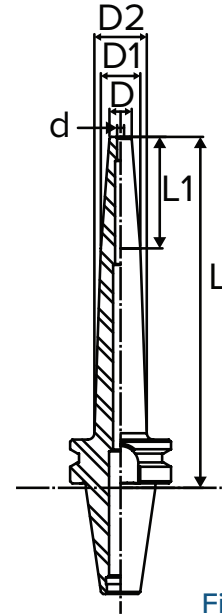
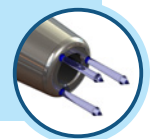


Fig. 5

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## HSK63A SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Center-thru

MILLING



REAMING



DRILLING



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H63A-SF0125-3.15	1/8"	3.15"	2.01"	0.39"	0.71"	25K	6

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H63A-SF0125-4.72CP	1/8"	4.72"	1.75"	0.79"	1.06"	25K	6
H63A-SF0187-4.72CP	3/16"	4.72"	1.75"	0.79"	1.06"	25K	6
H63A-SF0250-3.15CP	1/4"	3.15"	1.75"	0.79"	1.06"	25K	6
H63A-SF0250-4.72CP	1/4"	4.72"	1.75"	0.79"	1.06"	25K	6
H63A-SF0250-5.12CP	1/4"	5.12"	1.75"	0.79"	1.06"	25K	6
H63A-SF0312-3.15CP	5/16"	3.15"	1.75"	0.79"	1.06"	25K	6
H63A-SF0312-4.72CP	5/16"	4.72"	1.75"	0.79"	1.06"	25K	6
H63A-SF0312-5.12CP	5/16"	5.12"	1.75"	0.79"	1.06"	25K	6
H63A-SF0375-3.35CP	3/8"	3.35"	2.00"	0.95"	1.26"	25K	6
H63A-SF0375-4.72CP	3/8"	4.72"	2.00"	0.95"	1.26"	25K	6
H63A-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	25K	6
H63A-SF0500-3.54CP	1/2"	3.54"	2.00"	0.95"	1.26"	25K	6
H63A-SF0500-4.72CP	1/2"	4.72"	2.00"	0.95"	1.26"	25K	6
H63A-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	25K	6
H63A-SF0625-3.74CP	5/8"	3.74"	1.75"	1.06"	1.34"	25K	6
H63A-SF0625-4.72CP	5/8"	4.72"	1.75"	1.06"	1.34"	25K	6
H63A-SF0625-5.12CP	5/8"	4.72"	1.75"	1.06"	1.34"	25K	6
H63A-SF0750-3.94CP	3/4"	3.94"	2.25"	1.30"	1.65"	25K	6
H63A-SF0750-4.72CP	3/4"	4.72"	2.25"	1.30"	1.65"	25K	6
H63A-SF1000-4.53CP	1"	4.53"	2.00"	1.73"	2.05"	25K	6
H63A-SF6-80CP	6mm	3.15"	1.75"	0.79"	1.06"	25K	6
H63A-SF8-80CP	8mm	3.15"	1.75"	0.79"	1.06"	25K	6
H63A-SF8-120CP	8mm	4.72"	1.50"	0.83"	1.06"	25K	6
H63A-SF10-85CP	10mm	3.35"	2.00"	0.95"	1.26"	25K	6
H63A-SF10-120CP	10mm	4.72"	2.00"	0.95"	1.26"	25K	6
H63A-SF12-90CP	12mm	3.54"	2.00"	0.95"	1.26"	25K	6
H63A-SF12-120CP	12mm	4.72"	2.00"	0.95"	1.26"	25K	6
H63A-SF14-90CP	14mm	3.54"	1.75"	1.06"	1.34"	25K	6
H63A-SF16-95CP	16mm	3.74"	1.75"	1.06"	1.34"	25K	6

Note:

- Coolant tube and coolant wrench not included.
- Please see page 130 for more details.

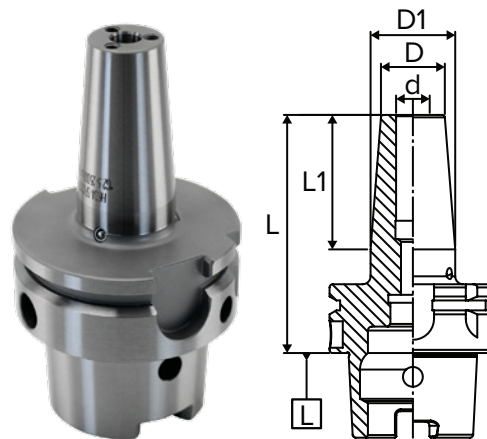


Fig. 6

Standard - DIN69893A / DIN 69882-8  
Coolant Port Option - DIN69893A / DIN 69882-8

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





## HSK63A SHRINK FIT HOLDERS

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H63A-SF0125-6.30CP	1/8"	6.30"	1.75"	0.79"	1.06"	25K	6
H63A-SF0187-6.30CP	3/16"	6.30"	1.75"	0.79"	1.06"	25K	6
H63A-SF0250-6.30CP	1/4"	6.30"	1.75"	0.79"	1.06"	25K	6
H63A-SF0312-6.30CP	5/16"	6.30"	1.75"	0.79"	1.06"	25K	6
H63A-SF0375-6.30CP	3/8"	6.30"	2.00"	0.95"	1.26"	25K	6
H63A-SF0500-6.30CP	1/2"	6.30"	2.00"	0.95"	1.26"	25K	6
H63A-SF0625-6.30CP	5/8"	6.30"	1.75"	0.95"	1.34"	25K	6
H63A-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	25K	6
H63A-SF1000-6.30CP	1"	6.30"	2.00"	1.73"	2.05"	25K	6
H63A-SF8-160CP	8mm	6.30"	1.75"	0.79"	1.06"	25K	6
H63A-SF10-160CP	10mm	6.30"	2.00"	0.95"	1.26"	25K	6
H63A-SF12-160CP	12mm	6.30"	2.00"	0.95"	1.26"	25K	6
H63A-SF16-160CP	16mm	6.30"	1.75"	1.06"	1.34"	25K	6
H63A-SF20-160CP	20mm	6.30"	2.25"	1.30"	1.65"	25K	6
H63A-SF25-160CP	25mm	6.30"	2.00"	1.73"	2.05"	25K	6

**Note:**

- Coolant tube and coolant wrench not included.
- Please see page 130 for more details.

### MOLD TYPE

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H63A-SF0125-3.15MT	1/8"	3.15"	1.75"	0.35"	0.63"	25K	7
H63A-SF0125-6.30MT	1/8"	6.30"	3.25"	0.35"	0.87"	25K	7
H63A-SF0250-6.30MT	1/4"	6.30"	3.75"	0.47"	1.06"	25K	7
H63A-SF0375-3.35MT	3/8"	3.35"	1.75"	0.63"	0.91"	25K	7
H63A-SF0500-3.54MT	1/2"	3.54"	2.00"	0.71"	1.02"	25K	7
H63A-SF3-80MT	3mm	3.15"	1.75"	0.35"	0.63"	25K	7
H63A-SF3-160MT	3mm	6.30"	3.25"	0.35"	0.87"	25K	7
H63A-SF4-80MT	4mm	3.15"	1.87"	0.39"	0.67"	25K	7
H63A-SF6-160MT	6mm	6.30"	3.75"	0.47"	1.06"	25K	7

**Note:**

- Mold Type & Rigid Type Shrink Fit Holders can be made as special.

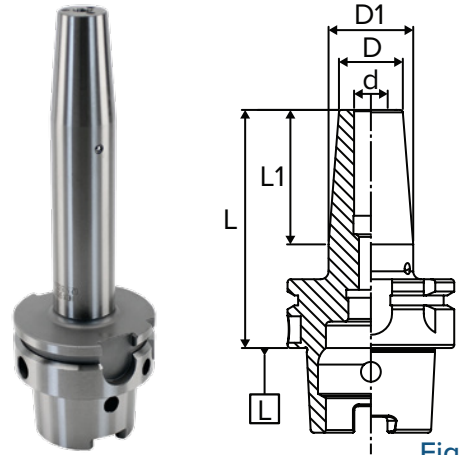


Fig. 6

Extended - DIN69893A / DIN 69882-8

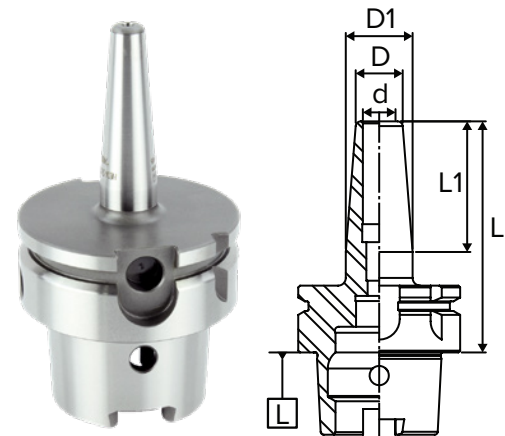
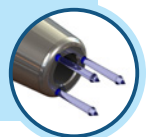


Fig. 7

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## HSK100A SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Center-thru



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### STANDARD

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H100A-SF0187-3.74	3/16"	3.74"	1.50"	0.39"	0.63"	25K	6

### STANDARD COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H100A-SF0250-3.54CP	1/4"	3.54"	1.50"	0.83"	1.06"	25K	6
H100A-SF0312-3.54CP	5/16"	3.54"	1.50"	0.83"	1.06"	25K	6
H100A-SF0375-3.54CP	3/8"	3.54"	2.00"	0.95"	1.26"	25K	6
H100A-SF0437-3.74CP	7/16"	3.74"	2.00"	0.95"	1.26"	25K	6
H100A-SF0500-3.74CP	1/2"	3.74"	2.00"	0.95"	1.26"	25K	6
H100A-SF0625-3.94CP	5/8"	3.94"	1.75"	1.06"	1.34"	25K	6
H100A-SF0750-4.13CP	3/4"	4.13"	2.25"	1.30"	1.65"	25K	6
H100A-SF1000-4.53CP	1"	4.53"	2.25"	1.73"	2.09"	25K	6
H100A-SF1250-4.72CP	1-1/4"	4.72"	2.25"	1.73"	2.09"	25K	6
H100A-SF4-85CP	4mm	3.35"	1.25"	0.59"	0.79"	25K	6
H100A-SF4-130CP	4mm	5.12"	1.25"	0.59"	0.79"	25K	6
H100A-SF6-85CP	6mm	3.35"	1.50"	0.83"	1.06"	25K	6
H100A-SF6-130CP	6mm	5.12"	1.50"	0.83"	1.06"	25K	6
H100A-SF8-85CP	8mm	3.54"	1.50"	0.83"	1.06"	25K	6
H100A-SF8-130CP	8mm	3.74"	1.50"	0.83"	1.06"	25K	6
H100A-SF10-90CP	10mm	3.54"	2.00"	0.95"	1.26"	25K	6
H100A-SF10-130CP	10mm	3.74"	2.00"	0.95"	1.26"	25K	6
H100A-SF12-95CP	12mm	3.74"	2.00"	0.95"	1.26"	25K	6
H100A-SF12-130CP	12mm	3.74"	2.00"	0.95"	1.26"	25K	6
H100A-SF14-95CP	14mm	3.74"	1.75"	1.06"	1.34"	25K	6
H100A-SF14-130CP	14mm	3.74"	1.75"	1.06"	1.34"	25K	6
H100A-SF16-80CP	16mm	3.150"	1.69"	1.06"	1.34"	25K	6
H100A-SF16-100CP	16mm	3.94"	1.75"	1.06"	1.34"	25K	6
H100A-SF16-130CP	16mm	3.74"	1.75"	1.06"	1.34"	25K	6
H100A-SF18-100CP	18mm	3.94"	2.25"	1.30"	1.65"	25K	6
H100A-SF18-130CP	18mm	5.12"	2.25"	1.30"	1.65"	25K	6
H100A-SF20-105CP	20mm	4.13"	2.25"	1.30"	1.65"	25K	6
H100A-SF20-130CP	20mm	3.74"	2.25"	1.30"	1.65"	25K	6
H100A-SF25-115CP	25mm	4.53"	2.25"	1.73"	2.09"	25K	6
H100A-SF25-130CP	25mm	3.74"	2.25"	1.73"	2.09"	25K	6
H100A-SF32-120CP	32mm	4.72"	2.25"	1.73"	2.09"	25K	6
H100A-SF32-130CP	32mm	3.74"	2.25"	1.73"	2.09"	25K	6

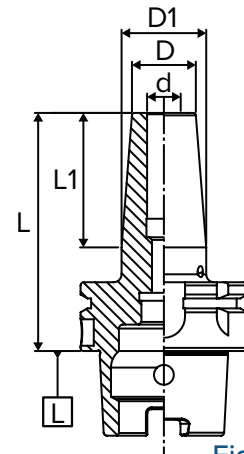


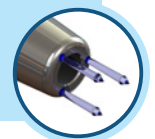
Fig. 6

### Coolant Port Option - DIN69893A / DIN 69882-8

**Note:**

- Coolant tube and coolant wrench not included.
- Please see page 130 for more details.

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





## HSK100A SHRINK FIT HOLDERS

### EXTENDED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H100A-SF0187-6.30	3/16"	6.30"	2.75"	0.43"	0.87"	25K	6

### EXTENDED COOLANT PORTED

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H100A-SF0250-6.30CP	1/4"	6.30"	1.50"	0.83"	1.06"	25K	6
H100A-SF0312-6.30CP	5/16"	6.30"	1.50"	0.83"	1.06"	25K	6
H100A-SF0375-6.30CP	3/8"	6.30"	2.00"	0.95"	1.26"	25K	6
H100A-SF0437-6.30CP	7/16"	6.30"	2.00"	0.95"	1.26"	25K	6
H100A-SF0500-6.30CP	1/2"	6.30"	2.00"	0.95"	1.26"	25K	6
H100A-SF0625-6.30CP	5/8"	6.30"	1.75"	1.06"	1.34"	25K	6
H100A-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	25K	6
H100A-SF1000-6.30CP	1"	6.30"	2.25"	1.73"	2.09"	25K	6
H100A-SF1250-6.30CP	1.1/4"	6.30"	2.25"	1.73"	2.09"	25K	6
H100A-SF6-160CP	6mm	6.30"	1.50"	0.83"	1.06"	25K	6
H100A-SF8-160CP	8mm	6.30"	1.50"	0.83"	1.06"	25K	6
H100A-SF10-160CP	10mm	6.30"	2.00"	0.95"	1.26"	25K	6
H100A-SF12-160CP	12mm	6.30"	2.00"	0.95"	1.26"	25K	6
H100A-SF14-160CP	14mm	6.30"	1.75"	1.06"	1.34"	25K	6
H100A-SF16-160CP	16mm	6.30"	1.75"	1.06"	1.34"	25K	6
H100A-SF18-160CP	18mm	6.30"	2.25"	1.30"	1.65"	25K	6
H100A-SF20-160CP	20mm	6.30"	2.25"	1.30"	1.65"	25K	6
H100A-SF25-160CP	25mm	6.30"	2.25"	1.73"	2.09"	25K	6
H100A-SF32-160CP	32mm	6.30"	2.25"	1.73"	2.09"	25K	6

**Note:**

- Coolant tube and coolant wrench not included.
- Please see page 130 for more details.

### MOLD TYPE

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
H100A-SF4-85MT	4mm	3.35"	1.75"	0.39"	0.67"	25K	8
H100A-SF4-160MT	4mm	6.30"	3.00"	0.39"	0.87"	25K	8
H100A-SF6-85MT	6mm	3.35"	1.75"	0.47"	0.75"	25K	8
H100A-SF6-160MT	6mm	6.30"	3.75"	0.47"	1.06"	25K	8
H100A-SF8-85MT	8mm	3.35"	1.89"	0.55"	0.85"	25K	8
H100A-SF8-160MT	8mm	6.30"	3.37"	0.55"	1.06"	25K	8
H100A-SF10-90MT	10mm	3.54"	1.75"	0.63"	0.91"	25K	8
H100A-SF10-160MT	10mm	6.30"	4.00"	0.63"	1.26"	25K	8
H100A-SF12-95MT	12mm	3.74"	2.00"	0.71"	1.02"	25K	8
H100A-SF12-160MT	12mm	6.30"	3.50"	0.71"	1.26"	25K	8
H100A-SF16-100MT	16mm	3.94"	2.48"	0.94"	1.34"	25K	8
H100A-SF16-160MT	16mm	6.30"	2.50"	0.94"	1.34"	25K	8

**Note:**

- Mold Type & Rigid Type Shrink Fit Holders can be made as special.

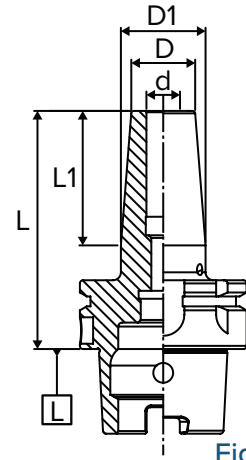


Fig. 6

Coolant Port Option - DIN69893A / DIN 69882-8

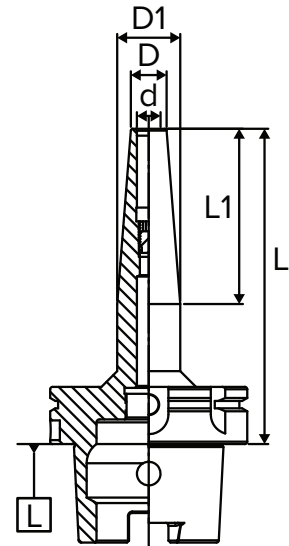
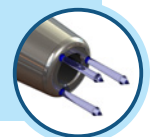


Fig. 8

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## POLYGONAL TAPER SHRINK FIT HOLDERS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Speed**  
Up to 25,000 rpm



**Coolant-Thru**  
Center-thru

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STANDARD - C4/C5/C6/C8

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
C4-SF0125-2.95	1/8"	2.95"	1.50"	0.39"	0.63"	25K	9
C4-SF0125-4.72	1/8"	4.72"	1.50"	0.39"	0.63"	25K	9
C4-SF0187-2.95	3/16"	2.95"	1.50"	0.39"	0.63"	25K	9
C4-SF0187-4.72	3/16"	4.72"	1.50"	0.39"	0.63"	25K	9
C4-SF4-75	4mm	2.95"	1.75"	0.39"	0.67"	25K	9
C4-SF4-120	4mm	4.72"	2.25"	0.39"	0.75"	25K	9
C5-SF0125-2.95	1/8"	2.95"	1.50"	0.39"	0.63"	25K	9
C5-SF0125-4.72	1/8"	4.72"	2.00"	0.39"	0.71"	25K	9
C5-SF0187-2.95	3/16"	2.95"	1.50"	0.39"	0.63"	25K	9
C5-SF0187-4.72	3/16"	4.72"	2.00"	0.39"	0.71"	25K	9
C5-SF3-75	3mm	2.95"	1.75"	0.35"	0.63"	25K	9
C5-SF3-120	3mm	4.72"	2.25"	0.35"	0.71"	25K	9
C5-SF4-120	4mm	4.72"	2.25"	0.39"	0.75"	25K	9
C6-SF0125-3.15	1/8"	3.15"	1.50"	0.39"	0.63"	25K	9
C6-SF0125-4.72	1/8"	4.72"	2.00"	0.39"	0.71"	25K	9
C6-SF0187-3.15	3/16"	3.15"	1.50"	0.39"	0.63"	25K	9
C6-SF0187-4.72	3/16"	4.72"	2.00"	0.39"	0.71"	25K	9
C6-SF3-80	3mm	3.15"	1.75"	0.35"	0.63"	25K	9
C6-SF3-120	3mm	4.72"	2.25"	0.35"	0.71"	25K	9
C6-SF4-80	4mm	3.15"	1.75"	0.39"	0.67"	25K	9
C6-SF4-120	4mm	4.72"	2.25"	0.39"	0.75"	25K	9
C8-SF0125-3.15	1/8"	3.15"	1.50"	0.39"	0.63"	25K	9
C8-SF0125-5.12	1/8"	5.12"	2.00"	0.39"	0.71"	25K	9
C8-SF0187-3.15	3/16"	3.15"	1.50"	0.39"	0.63"	25K	9
C8-SF0187-5.12	3/16"	5.12"	2.00"	0.39"	0.71"	25K	9
C8-SF3-85	3mm	3.350"	1.75"	0.35"	0.63"	25K	9
C8-SF3-130	3mm	5.12"	2.25"	0.35"	0.71"	25K	9
C8-SF4-85	4mm	3.350"	1.75"	0.39"	0.67"	25K	9
C8-SF4-130	4mm	5.12"	2.25"	0.39"	0.75"	25K	9

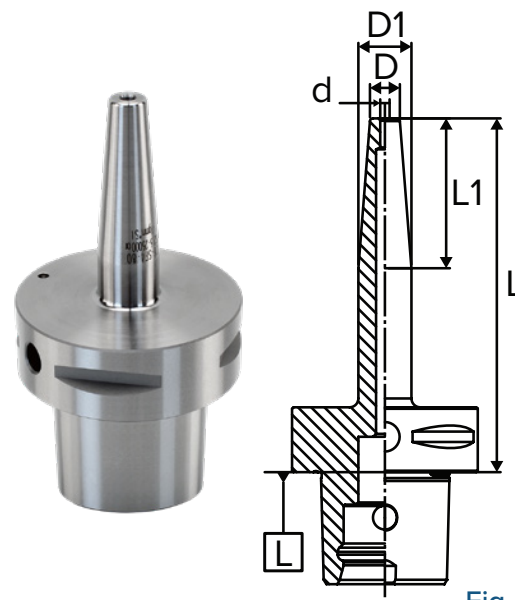


Fig. 9





## POLYGONAL TAPER SHRINK FIT HOLDERS

### STANDARD COOLANT PORTED - C4/C5

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
C4-SF0250-2.95CP	1/4"	2.95"	1.75"	0.79"	1.06"	25K	9
C4-SF0250-4.72CP	1/4"	4.72"	1.75"	0.79"	1.06"	25K	9
C4-SF0375-2.95CP	3/8"	2.95"	2.00"	0.95"	1.26"	25K	9
C4-SF0375-4.72CP	3/8"	4.72"	2.00"	0.95"	1.26"	25K	9
C4-SF0500-2.95CP	1/2"	2.95"	2.00"	0.95"	1.26"	25K	9
C4-SF0500-4.72CP	1/2"	4.72"	2.00"	0.95"	1.26"	25K	9
C4-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"	25K	9
C4-SF0625-4.72CP	5/8"	4.72"	1.75"	1.06"	1.34"	25K	9
C4-SF6-75CP	6mm	2.95"	1.75"	0.79"	1.06"	25K	9
C4-SF6-120CP	6mm	4.72"	1.75"	0.79"	1.06"	25K	9
C4-SF10-75CP	10mm	2.95"	2.00"	0.95"	1.26"	25K	9
<hr/>							
C5-SF0250-2.95CP	1/4"	2.95"	1.75"	0.79"	1.06"	25K	9
C5-SF0250-4.72CP	1/4"	4.72"	1.75"	0.79"	1.06"	25K	9
C5-SF0375-2.95CP	3/8"	2.95"	2.00"	0.95"	1.26"	25K	9
C5-SF0375-4.72CP	3/8"	4.72"	2.00"	0.95"	1.26"	25K	9
C5-SF0500-2.95CP	1/2"	2.95"	2.00"	0.95"	1.26"	25K	9
C5-SF0500-4.72CP	1/2"	4.72"	2.00"	0.95"	1.26"	25K	9
C5-SF0625-3.15CP	5/8"	3.15"	1.75"	1.06"	1.34"	25K	9
C5-SF0625-4.72CP	5/8"	4.72"	1.75"	1.06"	1.34"	25K	9
C5-SF0750-3.35CP	3/4"	3.35"	2.25"	1.30"	1.65"	25K	9
C5-SF0750-4.72CP	3/4"	4.72"	2.25"	1.30"	1.65"	25K	9
C5-SF6-75CP	6mm	2.95"	1.75"	0.79"	1.06"	25K	9
C5-SF6-120CP	6mm	4.72"	1.75"	0.79"	1.06"	25K	9
C5-SF8-75CP	8mm	2.95"	1.75"	0.79"	1.06"	25K	9
C5-SF12-75CP	12mm	2.95"	2.00"	0.95"	1.26"	25K	9

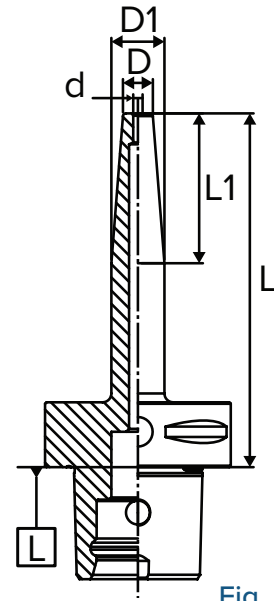


Fig. 9

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## POLYGONAL TAPER SHRINK FIT HOLDERS

### STANDARD COOLANT PORTED - C6

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
C6-SF0250-3.15CP	1/4"	3.15"	1.75"	0.79"	1.06"	25K	9
C6-SF0250-4.72CP	1/4"	4.72"	1.75"	0.79"	1.06"	25K	9
C6-SF0312-3.15CP	5/16"	3.15"	1.75"	0.79"	1.06"	25K	9
C6-SF0375-3.15CP	3/8"	3.15"	2.00"	0.95"	1.26"	25K	9
C6-SF0375-4.72CP	3/8"	4.72"	2.00"	0.95"	1.26"	25K	9
C6-SF0500-3.15CP	1/2"	3.15"	2.00"	0.95"	1.26"	25K	9
C6-SF0500-4.72CP	1/2"	4.72"	2.00"	0.95"	1.26"	25K	9
C6-SF0625-3.35CP	5/8"	3.35"	1.75"	1.06"	1.34"	25K	9
C6-SF0625-4.72CP	5/8"	4.72"	1.75"	1.06"	1.34"	25K	9
C6-SF0750-3.35CP	3/4"	3.35"	2.25"	1.30"	1.65"	25K	9
C6-SF0750-4.72CP	3/4"	4.72"	2.25"	1.30"	1.65"	25K	9
C6-SF1000-3.54CP	1.0"	3.54"	2.25"	1.73"	2.09"	25K	9
C6-SF1000-4.72CP	1.0"	4.72"	2.25"	1.73"	2.09"	25K	9
C6-SF1250-3.74CP	1-1/4"	3.74"	2.25"	1.73"	2.09"	25K	9
C6-SF1250-4.72CP	1-1/4"	4.72"	2.25"	1.73"	2.09"	25K	9
C6-SF6-80CP	6mm	3.15"	1.75"	0.79"	1.06"	25K	9
C6-SF6-120CP	6mm	4.72"	1.75"	0.79"	1.06"	25K	9
C6-SF8-80CP	8mm	3.15"	1.75"	0.79"	1.06"	25K	9
C6-SF8-120CP	8mm	4.72"	1.75"	0.79"	1.06"	25K	9
C6-SF10-80CP	10mm	3.15"	2.00"	0.95"	1.26"	25K	9
C6-SF10-120CP	10mm	4.72"	2.00"	0.95"	1.26"	25K	9
C6-SF12-80CP	12mm	3.15"	2.00"	0.95"	1.26"	25K	9
C6-SF12-120CP	12mm	4.72"	2.00"	0.95"	1.26"	25K	9
C6-SF14-85CP	14mm	3.35"	1.75"	1.06"	1.34"	25K	9
C6-SF14-120CP	14mm	4.72"	1.75"	1.06"	1.34"	25K	9
C6-SF16-85CP	16mm	3.35"	1.75"	1.06"	1.34"	25K	9
C6-SF16-120CP	16mm	4.72"	1.75"	1.06"	1.34"	25K	9
C6-SF18-85CP	18mm	3.35"	2.25"	1.30"	1.65"	25K	9
C6-SF18-120CP	18mm	4.72"	2.25"	1.30"	1.65"	25K	9
C6-SF20-85CP	20mm	3.35"	2.25"	1.30"	1.65"	25K	9
C6-SF20-120CP	20mm	4.72"	2.25"	1.30"	1.65"	25K	9
C6-SF25-90CP	25mm	3.54"	2.25"	1.73"	2.09"	25K	9
C6-SF25-120CP	25mm	4.72"	2.25"	1.73"	2.09"	25K	9
C6-SF32-95CP	32mm	3.54"	2.25"	1.73"	2.09"	25K	9
C6-SF32-120CP	32mm	4.72"	2.25"	1.73"	2.09"	25K	9

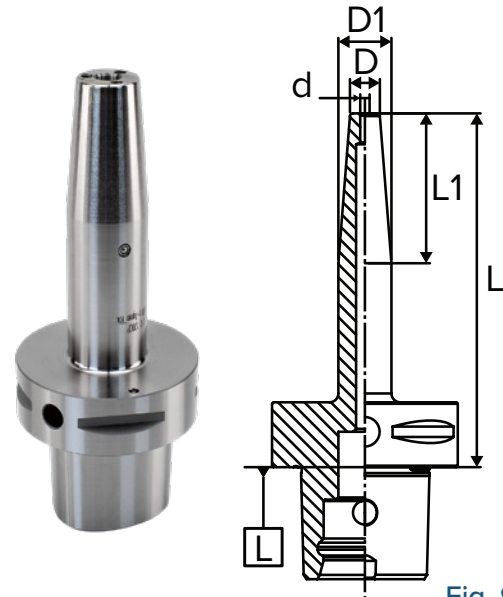


Fig. 9

SHRINK FIT

### EXTENDED COOLANT PORTED - C6

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
C6-SF0750-6.30CP	3/4"	6.30"	2.25"	1.30"	1.65"	25K	9

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.





## POLYGONAL TAPER SHRINK FIT HOLDERS

### STANDARD COOLANT PORTED - C8

Part Number	d	L	L1	D	D1	Max. RPM	Fig.
C8-SF0250-3.15CP	1/4"	3.15"	1.75"	0.79"	1.06"	25K	9
C8-SF0250-5.12CP	1/4"	5.12"	1.75"	0.79"	1.06"	25K	9
C8-SF0375-3.54CP	3/8"	3.54"	2.00"	0.95"	1.26"	25K	9
C8-SF0375-5.12CP	3/8"	5.12"	2.00"	0.95"	1.26"	25K	9
C8-SF0500-3.54CP	1/2"	3.54"	2.00"	0.95"	1.26"	25K	9
C8-SF0500-5.12CP	1/2"	5.12"	2.00"	0.95"	1.26"	25K	9
C8-SF0625-3.74CP	5/8"	3.74"	1.75"	1.06"	1.34"	25K	9
C8-SF0625-5.12CP	5/8"	5.12"	1.75"	1.06"	1.34"	25K	9
C8-SF0750-3.74CP	3/4"	3.74"	2.25"	1.30"	1.65"	25K	9
C8-SF0750-5.12CP	3/4"	5.12"	2.25"	1.30"	1.65"	25K	9
C8-SF1000-3.94CP	1.0"	3.94"	2.25"	1.73"	2.09"	25K	9
C8-SF1000-5.12CP	1.0"	5.12"	2.25"	1.73"	2.09"	25K	9
C8-SF1250-3.94CP	1-1/4"	3.94"	2.25"	1.73"	2.09"	25K	9
C8-SF1250-5.12CP	1-1/4"	5.12"	2.25"	1.73"	2.09"	25K	9
C8-SF6-85CP	6mm	3.35"	1.75"	0.79"	1.06"	25K	9
C8-SF6-130CP	6mm	5.12"	1.75"	0.79"	1.06"	25K	9
C8-SF8-85CP	8mm	3.35"	1.75"	0.79"	1.06"	25K	9
C8-SF8-130CP	8mm	5.12"	1.75"	0.79"	1.06"	25K	9
C8-SF10-85CP	10mm	3.35"	2.00"	0.95"	1.26"	25K	9
C8-SF10-130CP	10mm	5.12"	2.00"	0.95"	1.26"	25K	9
C8-SF12-85CP	12mm	3.35"	2.00"	0.95"	1.26"	25K	9
C8-SF12-130CP	12mm	5.12"	2.00"	0.95"	1.26"	25K	9
C8-SF14-85CP	14mm	3.35"	1.75"	1.06"	1.34"	25K	9
C8-SF14-130CP	14mm	5.12"	1.75"	1.06"	1.34"	25K	9
C8-SF16-90CP	16mm	3.54"	1.75"	1.06"	1.34"	25K	9
C8-SF16-130CP	16mm	5.12"	1.75"	1.06"	1.34"	25K	9
C8-SF18-90CP	18mm	3.54"	2.25"	1.30"	1.65"	25K	9
C8-SF18-130CP	18mm	5.12"	2.25"	1.30"	1.65"	25K	9
C8-SF20-90CP	20mm	3.54"	2.25"	1.30"	1.65"	25K	9
C8-SF20-130CP	20mm	5.12"	2.25"	1.30"	1.65"	25K	9
C8-SF25-90CP	25mm	3.54"	2.25"	1.73"	2.09"	25K	9
C8-SF25-130CP	25mm	5.12"	2.25"	1.73"	2.09"	25K	9
C8-SF32-90CP	32mm	3.54"	2.25"	1.73"	2.09"	25K	9
C8-SF32-130CP	32mm	5.12"	2.25"	1.73"	2.09"	25K	9

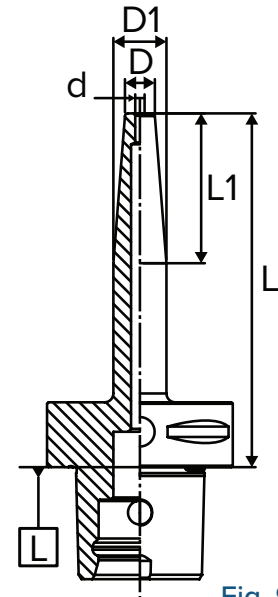
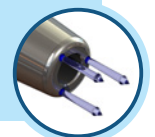


Fig. 9

"CP" stands for "Coolant Ported". Shrink fit is center-thru coolant capable. Contact us for additional coolant options.



## SHRINK FIT HOLDER ACCESSORIES

### COOLANT TUBE WRENCHES FOR HSK/POLYGON HOLDERS

Part Number	Description
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube
<b>C4-WRENCH</b>	Wrench for C4 Coolant Tube
<b>C5-WRENCH</b>	Wrench for C5 Coolant Tube
<b>C6-WRENCH</b>	Wrench for C6 Coolant Tube
<b>C8-WRENCH</b>	Wrench for C8 Coolant Tube



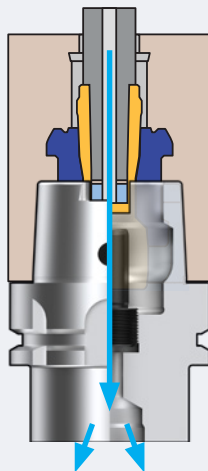
*Note: Coolant tube wrenches are needed to remove or install coolant tubes in HSK/Polygon Shrink Fit toolholders.*

### COOLANT TUBES FOR HSK/POLYGON HOLDERS

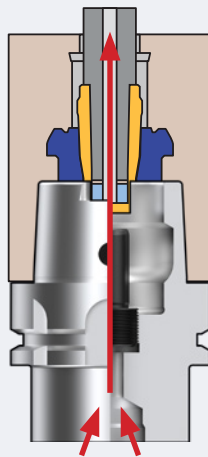
Part Number	Description
<b>HSK63-TUBE</b>	Coolant Tube for HSK63 holder
<b>HSK100-TUBE</b>	Coolant Tube for HSK100 holder
<b>C4-TUBE</b>	C4 Coolant Tube
<b>C5-TUBE</b>	C5 Coolant Tube
<b>C6-TUBE</b>	C6 Coolant Tube
<b>C8-TUBE</b>	C8 Coolant Tube



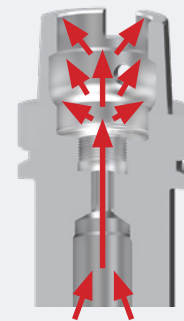
### WHY EVERY HSK TOOLHOLDER SHOULD HAVE A COOLANT TUBE INSTALLED



The Coolant Tube is connected and sealed with the Spindle Coolant Nozzle for Thru-Spindle Coolant (TSC) application.



With the Coolant Tube connected and sealed with the Spindle Coolant Nozzle, back-flow contaminants are contained.



Without the Coolant Tube connected and sealed to contain them, contaminants can back-flow through collet gaps.

These contaminants can flood the HSK chamber and cause damage to the clamping mechanism. They can also travel higher and can damage other parts like spindle bearings.

**Therefore - it is recommended that every HSK Holder have a coolant tube installed, regardless if Thru-Spindle Coolant is utilized or not.**

Contact your local Lyndex-Nikken representatives for information regarding special pricing or replacement coolant tubes.



## STRAIGHT SHANK EXTENSIONS

### FEATURES

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced up to 25,000 RPM
- Increase cutting tool life, material removal rate and workpiece accuracy
- All shrink fit holders 6mm (1/4") and above include a backup screw

**MATERIAL:** H11 High Alloy Steel **HARDNESS:** 52 HRc tempered



**T.I.R.**  
0.0001" in ID bore



**Coolant-Thru**  
Center-thru

**MILLING**



**REAMING**



**DRILLING**



*Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.*

### STRAIGHT SHANK EXTENSIONS

Part Number	d	L	L1	D	D1	Fig.
ST50-SF0125-6.30	1/8"	6.30"	1.81"	0.31"	0.50"	10
ST50-SF0187-6.30	3/16"	6.30"	1.81"	0.31"	0.50"	10
ST62-SF0125-6.30	1/8"	6.30"	3.01"	0.31"	0.63"	10
ST62-SF0187-6.30	3/16"	6.30"	3.01"	0.31"	0.63"	10
ST62-SF0250-6.30	1/4"	6.30"	1.50"	0.47"	0.63"	10
ST75-SF0250-6.30	1/4"	6.30"	2.68"	0.47"	0.75"	10
ST75-SF0312-6.30	5/16"	6.30"	1.16"	0.63"	0.75"	10
ST75-SF0375-6.30	3/8"	6.30"	1.16"	0.63"	0.75"	10
ST75-SF0500-6.30	1/2"	6.30"	0.41"	0.71"	0.75"	10
ST75-SF6-6.30	6mm	6.30"	0.87"	0.47"	0.75"	10
ST75-SF8-6.30	8mm	6.30"	1.02"	0.63"	0.75"	10
ST16M-SF3-160	3mm	6.30"	3.01"	0.32"	0.63"	10
ST16M-SF4-160	4mm	6.30"	3.01"	0.32"	0.63"	10
ST16M-SF5-160	5mm	6.30"	2.63"	0.36"	0.63"	10
ST16M-SF6-160	6mm	6.30"	1.50"	0.47"	0.63"	10
ST16M-SF8-160	8mm	6.30"	1.50"	0.48"	0.63"	10
ST20M-SF6-160	6mm	6.30"	3.01"	0.48"	0.79"	10
ST20M-SF8-160	8mm	6.30"	1.50"	0.63"	0.79"	10
ST20M-SF10-160	10mm	6.30"	1.50"	0.63"	0.79"	10

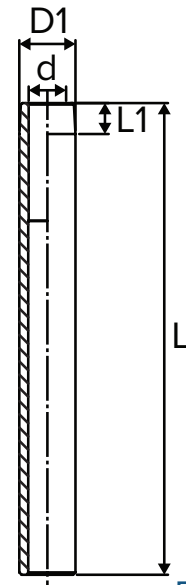
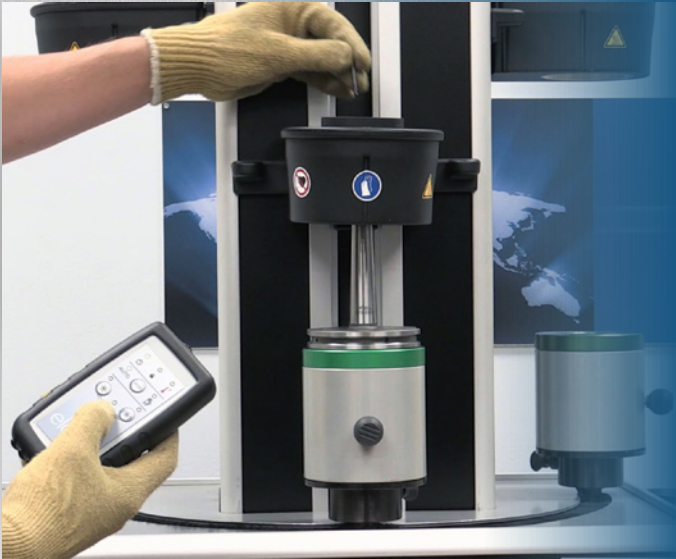


Fig. 10

# SHRINK FIT IN-DEPTH TRAINING AND LIVE DEMOS



## LEARN IN UNDER 30 MINUTES!

- Receive in-depth training on our Shrink Fit products to help maximize your productivity.
- Find out how Lyndex-Nikken's engineering, service group and product managers can further support your applications.

## THE INDUSTRY'S HIGHEST QUALITY SHRINK FIT LINE

- High Speed: shrinking from 2 to 7 seconds
- Flexible Range: shrinking from 2 to 40mm (0.078" to 1.575")



**To schedule a demo, contact your Lyndex-Nikken  
Regional Sales Manager or send an e-mail to:  
[sales@lyndexnikken.com](mailto:sales@lyndexnikken.com)**



847-367-4800 | [sales@lyndexnikken.com](mailto:sales@lyndexnikken.com)  
[lyndexnikken.com](http://lyndexnikken.com)

Connect With Us:



# MILLING CHUCKS



MILLING CHUCKS

# MILLING CHUCKS

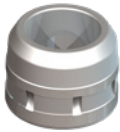


## MILLING CHUCK FEATURES

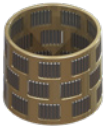


Nikken is the inventor of the original Milling Chuck (U.S. Patent 7018919). Since its introduction in 1963, Nikken has sold over 3,000,000 Milling Chucks worldwide and has never stopped improving upon its original design. Featuring multi-roller bearings, spiral coolant slots, and a heavy-duty nut, the Milling Chuck is the most reliable and powerful toolholder available.

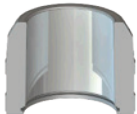
### CONSTRUCTION AND DESIGN



Forged Nickel Chrome Molybdenum 4340 ground on taper and base.



Staggered, coated steel cage packs 140% more needle rollers than competitors. This provides more gripping power. The retainer is NOT made of phosphor bronze, but rather of special steel which will never break.



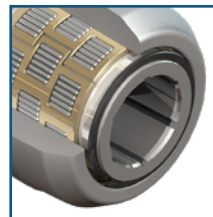
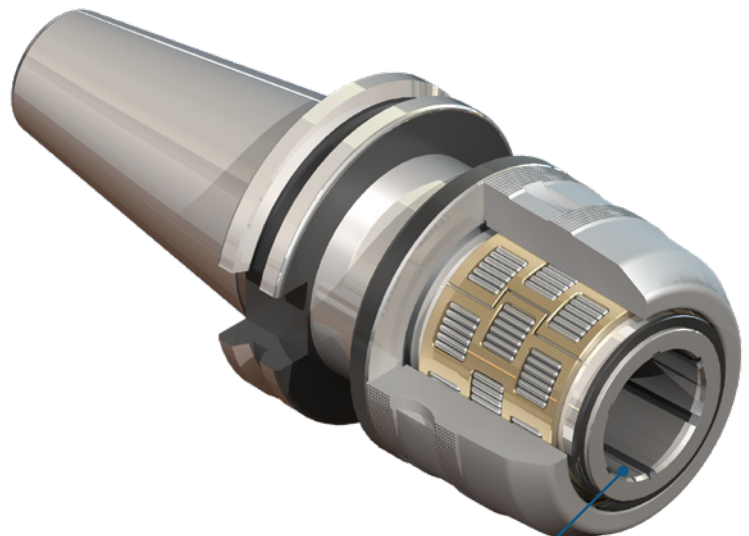
Thick nut exerts immense gripping strength by collapsing tight taper on the mill chuck body.



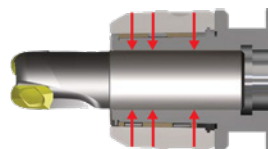
Solid 1-piece base and thick wall provides rigidity for heavy machining.



All milling chucks are cryogenically treated after heat treatment to stabilize concentrations of carbon. This prevents deformation and cracking when under stress for the life of the toolholder.



Inner bore coolant slots project coolant at 2 degrees, assuring high pressure and volume of coolant during high RPM operations.



**STRONGEST  
MECHANICALLY  
GRIPPING HOLDER  
IN THE WORLD!**

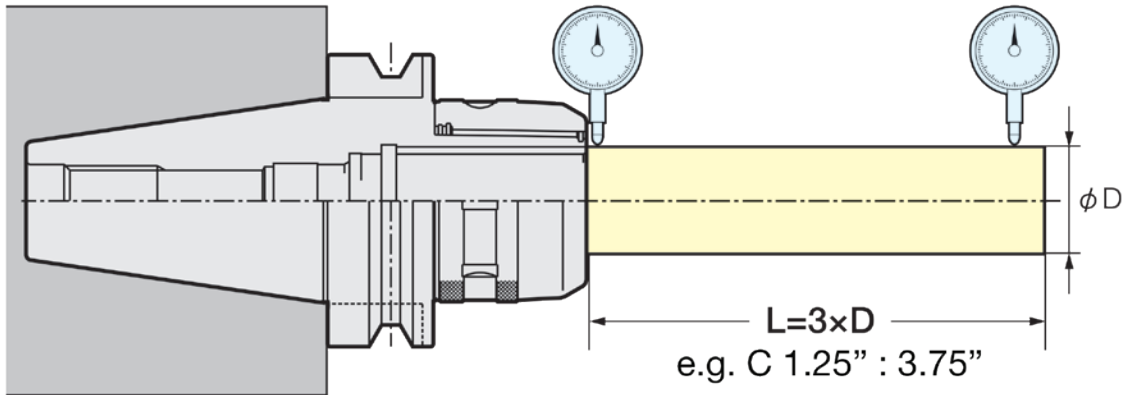




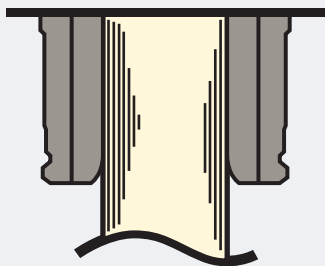
## MILLING CHUCK FEATURES

### Superior Run Out Accuracy

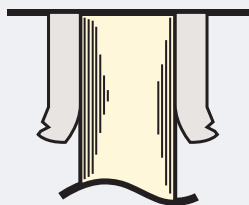
**Within 0.0002"**



- Flange and taper grinding of tool results in minimal T.I.R.
- Flange grinding is done for Taper Plus only and not for standard CAT/BT Toolholders
- 0.0002 at 3.75" from the nose—guaranteed



**NIKKEN  
MILLING CHUCK**



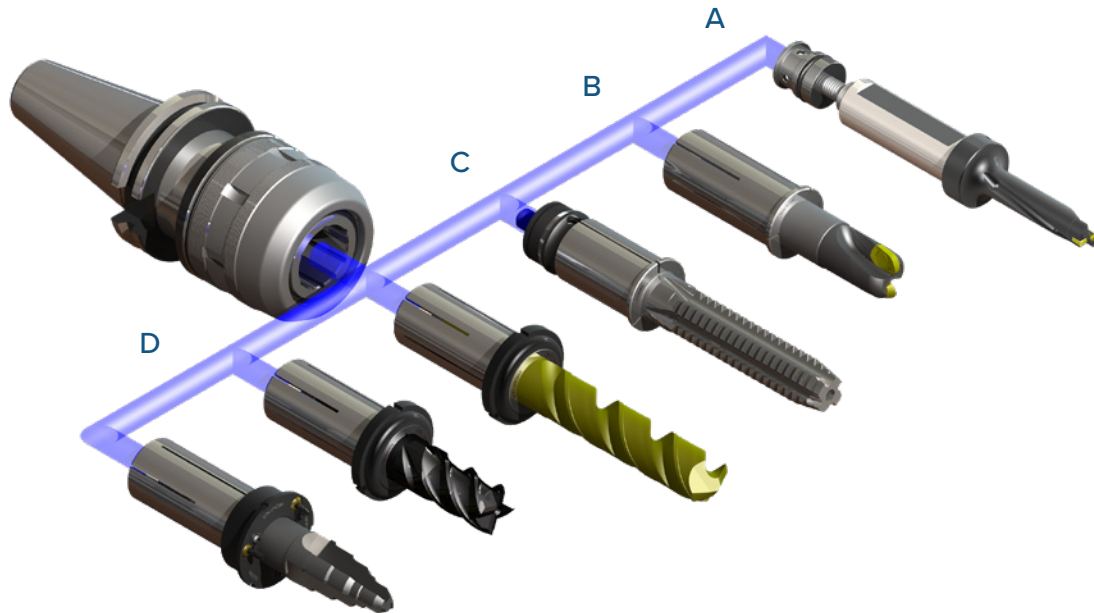
**OTHER  
MILLING CHUCKS**

**STRONGEST GRIP  
IN THE WORLD  
UP TO 3,500 FT-LBS.!**

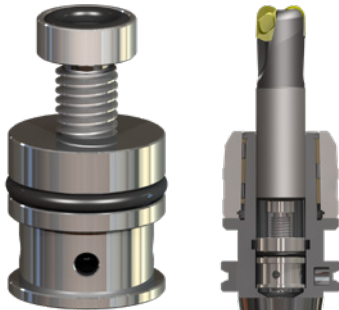
Nikken's patented Milling Chuck design allows clamping force to be distributed evenly around the entire cutting tool shank. Gripping force up to 3,600 ft-lbs. can be applied ensuring optimal cutting performance and rigidity.

## MILLING CHUCK COLLET SYSTEM

Nikken Milling Chuck Collets provide uniform contact with cutting tool shanks manufactured with the most stringent specifications. When using with shanks that have h7 tolerance, the Collets produce much more gripping force and rigidity than traditional taper collets.



A



### DIRECT COOLANT PLUG (THRU-TOOL)

- By combining a backup screw and coolant plug in one, the inner diameter of the milling chuck can be used with or without coolant
- Coolant through cutter ports can easily be sealed by an o-ring located at the face of the coolant plug
- 1200 PSI capable
- Excellent for high torque deep drilling
- Available for inch and metric shanks

B



### KM COLLET

- High Precision KM reduction collets extend the chucking flexibility of the milling chuck. All inch and metric standard sizes can be held by the same toolholder.
- Can be used in conjunction with a coolant back up screw for high pressure (1200 PSI) applications.

C



### NK COLLET

- High precision inch and metric NK reduction collets extend the chucking flexibility of the milling chuck and offer a built in back up screw for repeatability when replacing cutters.
- Easy set up since the NK fits directly into the inner diameter of the milling chuck.



## MILLING CHUCK COOLANT COLLET SYSTEM

D

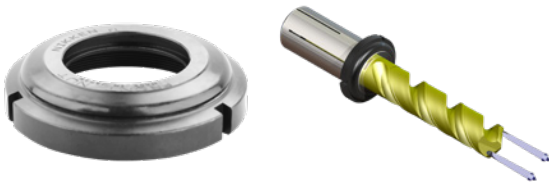


### CCK COLLET: COOLANT-THRU

- High Pressure coolant application through existing slots
- CCK reduction collets offers flexibility to hold both metric and inch standard shanks
- Straight collet design eliminates taper tolerance variation between mating surfaces
- Many options available to configure how coolant is expelled
- The spiral grooves provide spaces for the oil film on the cutter shank and ID surface to escape to, which in turn helps maintain the gripping force

### COOLANT-THRU NUT: CKFN-C

When paired with the Nikken Milling Chuck Coolant Collet (CCK), the Coolant-Thru Nut forms a complete seal around the cutting tool. This forms an ideal combination for Coolant-Thru cutting tools.



- Internal durable O-ring seals for high pressure (750 PSI)
- Prevents swarf and chips from packing on the collet face
- Available for inch and metric shanks

Both the Coolant Collet and the Coolant-Thru Nut must be ordered on size for each cutting tool (see pages 153-154 for sizes and part numbers).

### JET-SLOTTED NUT: CKFN

When paired with the Nikken Milling Chuck Coolant Collet (CCK), the Jet-Slotted Nut allows coolant to travel down the shank of the cutting tool to the cutting edge. This combination is ideal for non Coolant-Thru cutting tools.



- 3 angled slots keep high pressure coolant (up to 1200 PSI) aimed toward the periphery of the cutter, even at high RPM
- Helps remove chips during deep pocketing applications
- Available for inch and metric shanks

Both the Coolant Collet and the Jet-Slotted Nut must be ordered on size for each cutting tool (see pages 153-154 for sizes and part numbers).

### COOLANT NUT WITH ADJUSTABLE NOZZLES: CKFN-MN

- 3 adjustable nozzles help channel high pressure coolant to different cutter points (up to 750 PSI)
- Excellent for tools with multiple cutter points
- Available for inch and metric shanks



## WHY UPGRADE TO THE NIKKEN MILLING CHUCK?

The Nikken Milling Chuck is a renowned universal toolholder that has proven its efficiency for years all over the world. Featuring a revolutionary design and collet system, the Nikken Milling Chuck allows for high-speed applications up to 25,000 RPM and offers incredible benefits compared to standard End Mill Holders such as higher accuracy and higher concentricity.

See below to find out what makes our Nikken Milling Chuck the best choice for any milling application.

### LYNDEX-NIKKEN MILLING CHUCK

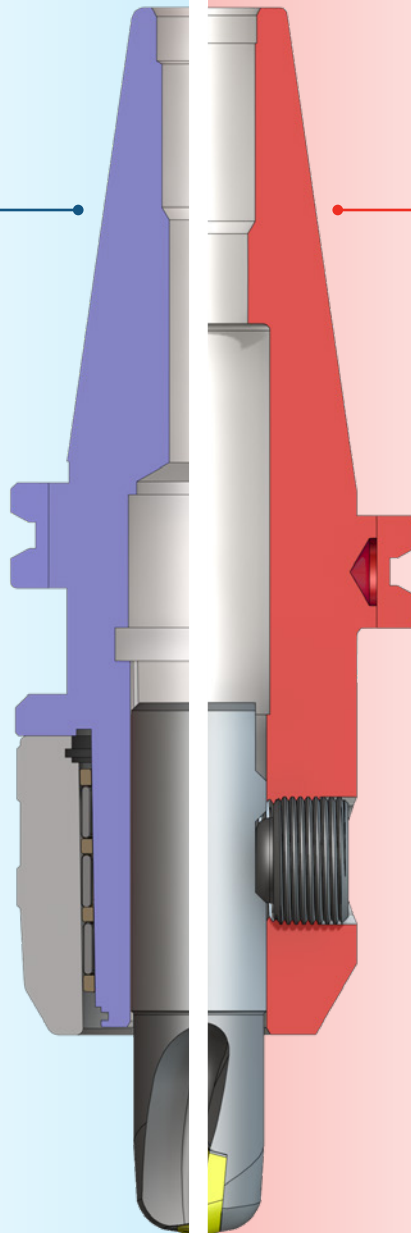
### END MILL HOLDER

AT3 or better taper tolerance

AT4 taper tolerance

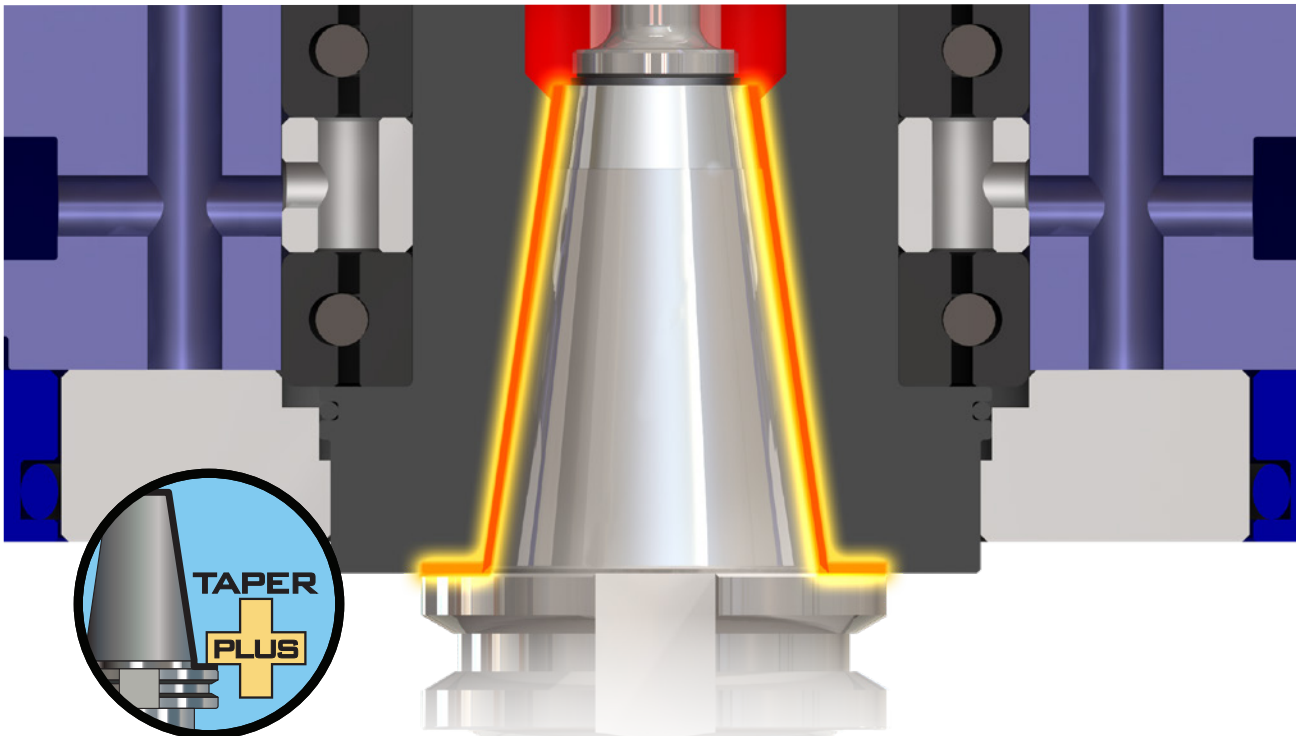
- Most powerful collet chuck in the world
- Symmetrical design—pre-balanced body and nut allow the milling chuck to operate beyond 25,000 RPM
- Outside bearing nut mechanically induces tight taper of the milling chuck to evenly collapse onto the cutting shank for high precision T.I.R.

- 120 year-old concept for holding tools
- Non-symmetrical design creates imbalance
- Requires tools with Weldon flats which create further imbalance
- Set screw shifts cutter off center which creates unacceptable run-out for precision milling





## TAPER PLUS - DUAL CONTACT TOOLHOLDERS



Look for the Taper Plus logo for dual-taper and flange contact availability.

### DUAL Taper & Flange Contact Advantages

- High Rigidity for smooth and stable cutting
- Vibration Dampening for increased productivity
- Outstanding Runout Accuracy for longer tool life
- Interchangeable between Standard and Dual Face Contact spindles for greater flexibility

### The Power of the Dampening Effect

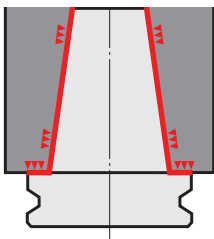
Taper and Flange Contact establishes 53.3% more surface area contact than just the taper alone, creating a dampening effect that eliminates chatter and vibration.

With the additional flange contact becoming a supportive cantilever, cutting rigidity is highly improved.

### High Quality Taper Grinding AT3 or better taper tolerance

- All 40 taper tool angles are manufactured within  $\pm 0.0011$  degrees angular tolerance
- Largest diameter of taper (where rigidity is established) is held within  $\pm 80$  millionths (.00008")
- Precision ground taper ensures 80% or better taper contact

CAT/BT Dual Face Contact Spindle + Taper Plus Toolholder



## CAT MILLING CHUCKS

### FEATURES

- Nikken patented design
- Nut body contact, nose clamping and anti-vibration mechanism
- Thick body and internal slots provide extremely strong chucking torque and rigidity
- Quiet and stable heavy milling
- 140% more bearing surface than competitors' milling chucks



**T.I.R.**  
<0.0002" at 3xD



**Coolant-Thru**  
Thru-tool coolant

**MILLING**



**REAMING**



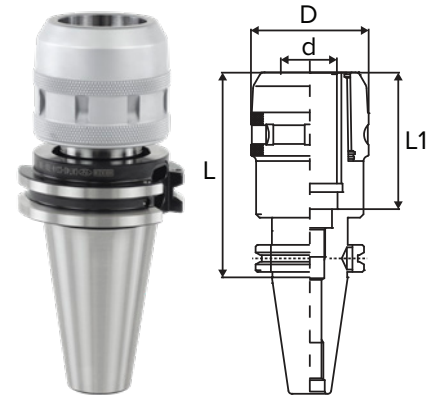
**DRILLING**



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
CAT40-C3/4-70U-IDU*	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	70	2.76"	3.15"	2.03"	20K
CAT40-C3/4-85U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	85	3.35"	3.15"	2.03"	20K
CAT40-C3/4-105U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	20K
CAT40-C3/4-120U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	120	4.72"	3.15"	2.03"	20K
CAT40-C1-85U-IDU	KM1 or CCK1	0.125 - 1.000"	9HC25	1.00"	85	3.35"	3.15"	2.34"	20K
CAT40-C1-105U-IDU	KM1 or CCK1	0.125 - 1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	20K
CAT40-C1.1/4-85U-IDU**	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	85	3.35"	3.03"	2.52"	20K
CAT40-C1.1/4SL-105U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	105	4.13"	3.03"	2.72"	20K
CAT40-C1.1/4SL-120U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	120	4.72"	3.15"	2.72"	20K
CAT40-C32-105U-IDU	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	3.03"	2.52"	20K



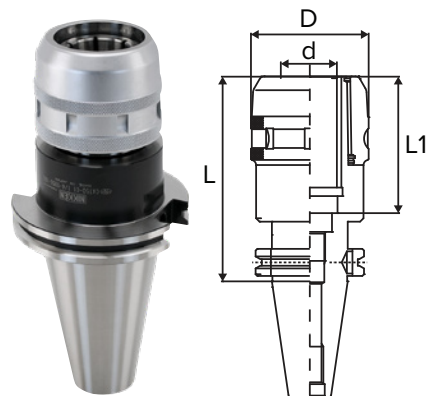
#### Note:

- Wrench not included.
- \*CAT40-C3/4-70U Milling Chuck does not have safety recess.
- \*\*Coolant-Thru nut and slotted nut will not fit CAT40-C1.1/4-85U (old generation)



### CAT50

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
CAT50-C3/4-105U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	8K
CAT50-C3/4-135U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	135	5.31"	3.15"	2.03"	6K
CAT50-C3/4-165U-IDU	KM3/4 or CCK3/4	0.125 - 0.750"	9HC22	0.75"	165	6.50"	3.15"	2.03"	6K
CAT50-C1-105U-IDU	KM1 or CCK1	0.125 - 1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	8K
CAT50-C1-135U-IDU	KM1 or CCK1	0.125 - 1.000"	9HC25	1.00"	135	5.31"	3.15"	2.34"	6K
CAT50-C1.1/4-90U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	90	3.54"	4.13"	2.72"	8K
CAT50-C1.1/4-105U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	105	4.13"	4.13"	2.72"	8K
CAT50-C1.1/4-135U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	135	5.31"	4.13"	2.72"	6K
CAT50-C1.1/4-165U-IDU	KM1.1/4 or CCK1.1/4	0.187 - 1.250"	9HC32	1.25"	165	6.50"	4.13"	2.72"	6K
CAT50-C2-125U-IDU	KM2 or CCK2	1.000 - 2.000"	9HC50	2.00"	125	4.92"	3.23"	4.13"	6K
CAT50-C32-105U-IDU	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	4.13"	2.72"	8K
CAT50-C32-165U-IDU	KM32 or CCK32	6 - 32mm	9HC32	32mm	165	6.50"	4.13"	2.72"	6K



Note: Wrench not included.



**KM & NK Collets**  
Pages 151-152



**Spanner Wrench**  
Page 155



**Back-Up Screw**  
Page 155



**Coolant-Thru & Slotted Nuts**  
Page 153-154

# MILLING CHUCKS

## CAT HIGH-SPEED MILLING CHUCKS

### CAT40 HIGH SPEED

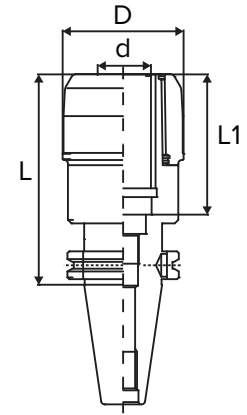
Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<a href="#">CAT40-C3/4-85UG-IDU</a>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	85	3.35"	3.15"	2.05"	25K
<a href="#">CAT40-C3/4-105UG-IDU</a>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.72"	3.15"	2.05"	25K
<a href="#">CAT40-C3/4-120UG-IDU</a>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	120	4.72"	3.15"	2.05"	25K
<a href="#">CAT40-C1-85UG-IDU</a>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	85	3.35"	3.15"	2.36"	20K
<a href="#">CAT40-C1-105UG-IDU</a>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	105	4.13"	3.15"	2.36"	20K
<a href="#">CAT40-C1.1/4SL-105UG-IDU</a>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	105	4.13"	3.03"	2.72"	20K
<a href="#">CAT40-C1.1/4SL-120UG-IDU</a>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	120	4.72"	3.15"	2.72"	20K

**Note:**

- High-speed spanner wrench not included.
- High-speed CAT40 Milling Chucks use special high-speed spanner wrenches.



Available in **TAPER PLUS+**  
Dual-taper and flange contact available.  
See page 143.



### CAT50 HIGH SPEED

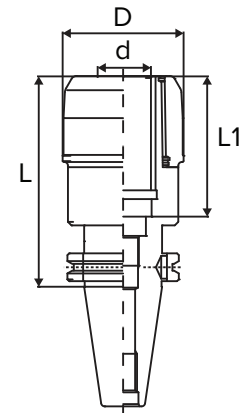
Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<a href="#">CAT50-C3/4-105UG-IDU</a>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	2.05"	20K
<a href="#">CAT50-C3/4-135UG-IDU</a>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	135	5.31"	3.15"	2.05"	20K
<a href="#">CAT50-C1-105UG-IDU</a>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	105	4.13"	3.15"	2.36"	15K
<a href="#">CAT50-C1-135UG-IDU</a>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	135	5.31"	3.15"	2.36"	15K
<a href="#">CAT50-C1.1/4-105UG-IDU</a>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	105	4.13"	4.13"	2.72"	15K
<a href="#">CAT50-C1.1/4-135UG-IDU</a>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	135	5.31"	4.13"	2.72"	15K

**Note:**

- High-speed spanner wrench not included.
- High-speed CAT50 Milling Chucks use special high-speed spanner wrenches.



Available in **TAPER PLUS+**  
Dual-taper and flange contact available.  
See page 143.



KM & NK  
Collets  
Pages 151-152



Spanner  
Wrench  
Page 155

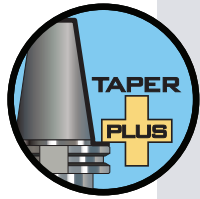


Back-Up  
Screw  
Page 155



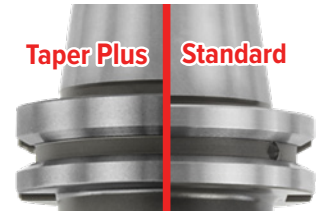
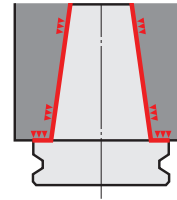
Coolant-Thru  
& Slotted Nuts  
Page 153-154

## TAPER PLUS CAT MILLING CHUCKS



### Taper Plus Advantages

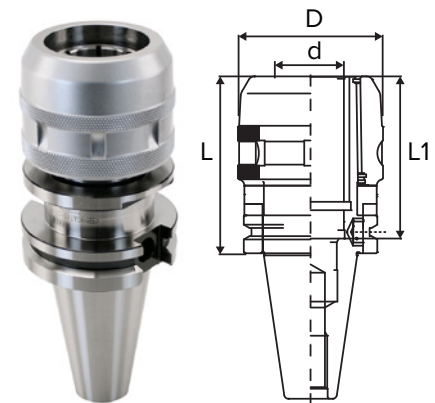
- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT40

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
NCAT40-C3/4-70U-IDU	KM3/4 or CCK3/4	0.125-1.000"	9HC22	0.75"	70	2.76"	3.15"	2.05"	20K
NCAT40-C3/4-85U-IDU	KM3/4 or CCK3/4	0.125-1.000"	9HC22	0.75"	85	3.35"	3.15"	2.03"	20K
NCAT40-C3/4-105U-IDU	KM3/4 or CCK3/4	0.125-1.000"	9HC22	0.75"	105	4.13"	3.15"	2.03"	20K
NCAT40-C3/4-120U-IDU	KM3/4 or CCK3/4	0.125-1.000"	9HC22	0.75"	120	4.72"	3.15"	2.03"	20K
NCAT40-C1-85U-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	85	3.35"	3.15"	2.34"	20K
NCAT40-C1-105U-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	20K
NCAT40-C1.1/4SL-105U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	105	4.13"	3.03"	2.72"	20K
NCAT40-C1.1/4SL-120U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	120	4.72"	3.03"	2.72"	20K
NCAT40-C32-105U-IDU	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	3.03"	2.52"	20K

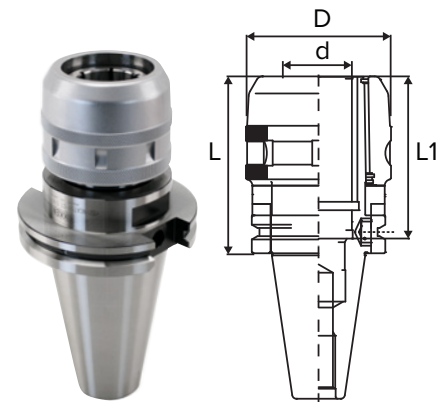
Note: "N" denotes Taper Plus dual face contact.



### TAPER PLUS - CAT50

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
NCAT50-C3/4-105U-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	8K
NCAT50-C3/4-135U-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	135	5.31"	3.15"	2.03"	6K
NCAT50-C3/4-165U-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	165	6.50"	3.15"	2.03"	6K
NCAT50-C1-105U-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	8K
NCAT50-C1-135U-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	135	5.31"	3.15"	2.34"	6K
NCAT50-C1.1/4-90U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	90	3.54"	3.19"	2.72"	8K
NCAT50-C1.1/4-105U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	105	4.13"	3.19"	2.72"	8K
NCAT50-C1.1/4-135U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	135	5.31"	3.19"	2.72"	6K
NCAT50-C1.1/4-165U-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	165	6.50"	3.19"	2.72"	6K
NCAT50-C2-125U-IDU	KM2 or CCK2	1.000-2.000"	9HC50	2.00"	125	4.92"	3.23"	4.13"	6K

Note: "N" denotes Taper Plus dual face contact.



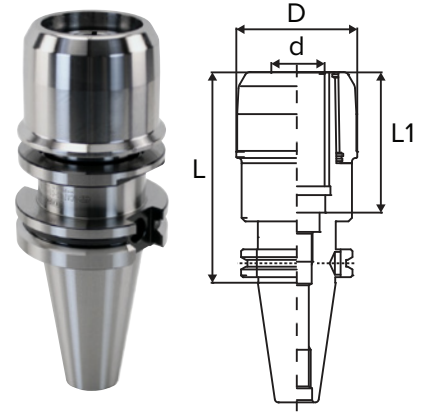


## TAPER PLUS CAT HIGH-SPEED MILLING CHUCKS

### TAPER PLUS - CAT40 HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
NCAT40-C3/4-70UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	70	2.76"	3.15"	1.89"	25K
NCAT40-C3/4-85UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	85	3.35"	3.15"	1.89"	25K
NCAT40-C3/4-105UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	1.89"	25K
NCAT40-C3/4-120UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	120	4.72"	3.15"	1.89"	25K
NCAT40-C1-85UG-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	85	3.35"	3.15"	2.15"	20K
NCAT40-C1-105UG-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	105	4.13"	3.15"	2.15"	20K
NCAT40-C1.1/4SL-85UG-IDU	KM1.1/4 or CCK1.1/4	0.125-1.250"	GH32	1.25"	85	3.35"	3.03"	2.68"	20K
NCAT40-C1.1/4SL-105UG-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	105	4.13"	3.03"	2.68"	20K

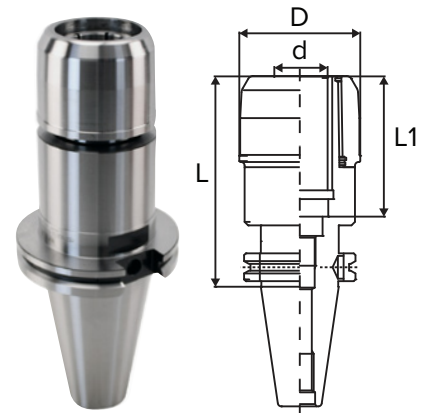
Note: "N" denotes Taper Plus dual face contact.



### TAPER PLUS - CAT50 HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
NCAT50-C3/4-105UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	1.89"	20K
NCAT50-C3/4-135UG-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	135	5.31"	3.15"	1.89"	20K
NCAT50-C1-105UG-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	105	4.13"	3.15"	2.15"	15K
NCAT50-C1-135UG-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	135	5.31"	3.15"	2.15"	15K
NCAT50-C1.1/4-90UG-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	90	3.54"	3.19"	2.68"	15K
NCAT50-C1.1/4-105UG-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	105	4.13"	3.19"	2.68"	15K
NCAT50-C1.1/4-135UG-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	135	5.31"	3.19"	2.68"	15K

Note: "N" denotes Taper Plus dual face contact.



## BT MILLING CHUCKS

### FEATURES

- Nikken patented design
- Nut body contact, nose clamping and anti-vibration mechanism
- Thick body and internal slots provide extremely strong chucking torque and rigidity
- Quiet and stable heavy milling
- 140% more bearing surface than competitors' milling chucks



**T.I.R.**  
<0.0002" at 3xD



**Coolant-Thru**  
Thru-tool coolant

MILLING



REAMING



DRILLING



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT30-C3/4-75*</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	75	2.95"	3.15"	2.03"	12K

Note:

- Wrench not included.
- "\*" indicates stubby style.



Available in **TAPER PLUS+**  
Dual-taper and flange contact

### BT40

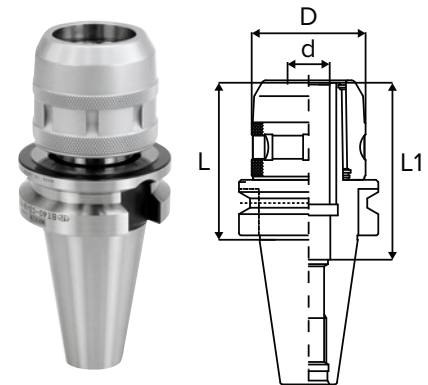
Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT40-C3/4-70*</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	70	2.76"	3.15"	2.03"	8K
<b>BT40-C3/4-105</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	8K
<b>BT40-C1-70*</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	70	2.76"	3.15"	2.34"	8K
<b>BT40-C1-90</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	90	3.54"	3.15"	2.34"	8K
<b>BT40-C1.1/4-85</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	85	3.35"	3.03"	2.72"	8K
<b>BT40-C1.1/4-120</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	120	4.72"	4.13"	2.72"	8K
<b>BT40-C32-105</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	3.54"	2.72"	8K

Note:

- Wrench not included.
- "\*" indicates stubby style.



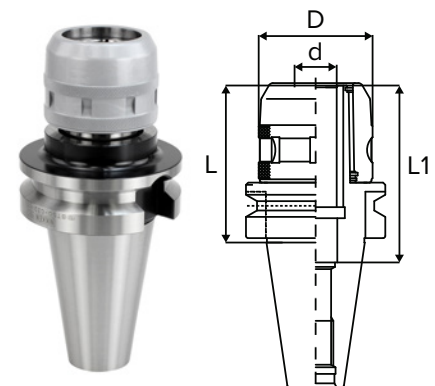
Available in **TAPER PLUS+**  
Dual-taper and flange contact



### BT50

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT50-C3/4-105</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	8K
<b>BT50-C3/4-135</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	135	5.31"	3.15"	2.03"	8K
<b>BT50-C1-105</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	8K
<b>BT50-C1-135</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	135	5.31"	4.13"	2.34"	8K
<b>BT50-C1.1/4-90</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	90	3.54"	4.13"	2.72"	8K
<b>BT50-C1.1/4-105</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	105	4.13"	4.13"	2.72"	8K
<b>BT50-C1.1/4-135</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	135	5.31"	4.13"	2.72"	6K
<b>BT50-C32-90</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	90	3.54"	4.13"	2.72"	8K
<b>BT50-C32-105</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	4.13"	2.72"	8K
<b>BT50-C32-120</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	120	4.72"	4.13"	2.72"	8K
<b>BT50-C32-135</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	135	5.31"	4.13"	2.72"	6K
<b>BT50-C32-165</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	165	6.50"	4.13"	2.72"	6K
<b>BT50-C32-200</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	200	7.87"	4.13"	2.72"	2.4K
<b>BT50-C32-250</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	250	9.84"	4.13"	2.72"	2.4K
<b>BT50-C32-300</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	300	11.81"	4.13"	2.72"	2.4K
<b>BT50-C32-400</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	400	15.75"	4.13"	2.72"	2.4K
<b>BT50-C32-500</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	500	19.69"	4.13"	2.72"	2.4K
<b>BT50-C2-105</b>	KM2 or CCK2	1.000-2.000"	9HC50	2.00"	105	4.13"	3.54"	4.13"	6K

Note: Wrench not included.



# MILLING CHUCKS

## BT HIGH-SPEED MILLING CHUCKS

### BT30 HIGH SPEED

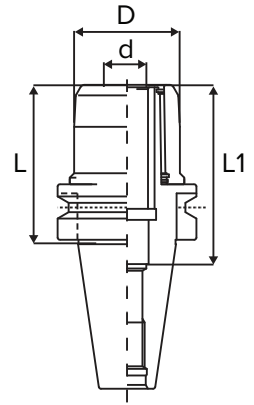
Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT30-C3/4-75G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	75	2.95"	3.15"	1.89"	30K

Note:

- High-speed spanner wrench not included
- High-speed BT30 Milling Chucks use special high-speed spanner wrenches.



Available in **TAPER PLUS+**  
Dual-taper and flange contact



### BT40 HIGH SPEED

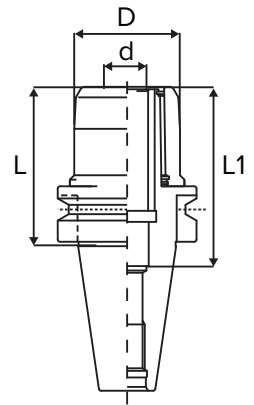
Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT40-C3/4-70G*</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	70	2.76"	3.15"	2.05"	25K
<b>BT40-C3/4-105G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	2.05"	25K
<b>BT40-C1-70G*</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	70	2.76"	3.15"	2.15"	20K
<b>BT40-C1-90G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	90	3.54"	3.15"	2.15"	20K
<b>BT40-C1.1/4-85G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	85	3.35"	3.03"	2.68"	20K
<b>BT40-C1.1/4-120G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	120	4.72"	4.13"	2.68"	20K
<b>BT40-C32-105G</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	105	4.13"	3.54"	2.68"	20K

Note:

- "\*" indicates stubby style.
- High-speed spanner wrench not included.
- High-speed BT40 Milling Chucks use special high-speed spanner wrenches.



Available in **TAPER PLUS+**  
Dual-taper and flange contact



### BT50 HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>BT50-C3/4-105G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	1.89"	20K
<b>BT50-C3/4-135G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	135	5.31"	3.15"	1.89"	20K
<b>BT50-C1-105G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	105	4.13"	3.15"	2.15"	15K
<b>BT50-C1-135G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	135	5.31"	3.15"	2.15"	15K
<b>BT50-C1.1/4-90G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	90	3.54"	4.13"	2.68"	15K
<b>BT50-C1.1/4-135G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	135	5.31"	4.13"	2.68"	15K
<b>BT50-C32-90G</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	90	3.54"	4.13"	2.68"	15K
<b>BT50-C32-165G</b>	KM32 or CCK32	6 - 32mm	9HC32	32mm	165	6.50"	4.13"	2.68"	15K

Note:

- High-speed spanner wrench not included.
- High-speed BT50 Milling Chucks use special high-speed spanner wrenches.



KM & NK  
Collets  
Pages 151-152



Spanner  
Wrench  
Page 155

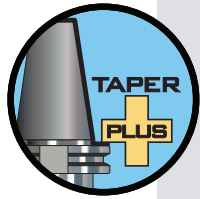


Back-Up  
Screw  
Page 155



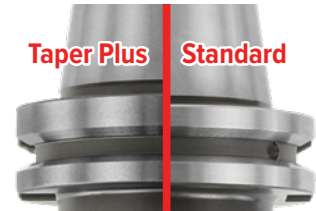
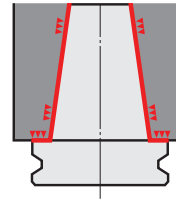
Coolant-Thru  
& Slotted Nuts  
Page 153-154

## TAPER PLUS BT MILLING CHUCKS



### Taper Plus Advantages

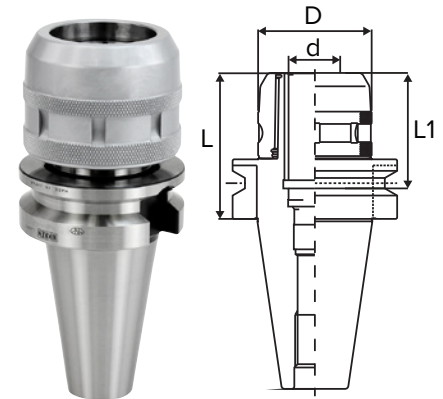
- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT30

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NBT30-C3/4-70</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	70	2.76"	3.15"	2.03"	12K
<b>NBT30-C3/4-75</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	75	2.95"	3.15"	2.03"	12K
<b>NBT30-C1-75</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	75	2.95"	2.68"	2.17"	8K

Note: "N" denotes Taper Plus dual face contact.



### TAPER PLUS - BT40

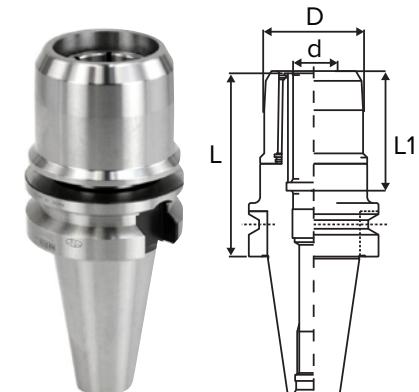
Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NBT40-C3/4-70</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	70	2.76"	3.15"	2.03"	8K
<b>NBT40-C1-70</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	70	2.76"	3.15"	2.34"	8K
<b>NBT40-C1-90</b>	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	90	3.54"	3.15"	2.34"	8K
<b>NBT40-C1.1/4-85</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	85	3.35"	3.03"	2.72"	8K

Note: "N" denotes Taper Plus dual face contact.

### TAPER PLUS - BT30 HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NBT30-C3/4-75G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	75	2.95"	3.15"	1.89"	30K
<b>NBT30-C1-75G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	75	2.95"	2.68"	2.15"	25K

Note: "N" denotes Taper Plus dual face contact.



### TAPER PLUS - BT40 HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NBT40-C3/4-70G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	70	2.76"	3.15"	1.89"	25K
<b>NBT40-C3/4-105G</b>	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	105	4.13"	3.15"	1.89"	20K
<b>NBT40-C1-70G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	70	2.76"	3.15"	2.15"	20K
<b>NBT40-C1-90G</b>	KM1 or CCK1	0.125-1.000"	GH25	1.00"	90	3.54"	3.15"	2.15"	20K
<b>NBT40-C1.1/4-85G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	85	3.35"	3.03"	2.68"	20K
<b>NBT40-C1.1/4-120G</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	120	4.72"	3.19"	2.68"	20K

Note: "N" denotes Taper Plus dual face contact.



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Spanner Wrench  
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Back-Up Screw  
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Coolant-Thru & Slotted Nuts  
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# MILLING CHUCKS

## HSK MILLING CHUCKS

### FEATURES

- Nikken patented design
- Nut body contact, nose clamping and anti-vibration mechanism
- Thick body and internal slots provide extremely strong chucking torque and rigidity
- Quiet and stable heavy milling
- 140% more bearing surface than competitors' milling chucks



**T.I.R.**  
<0.0002" at 3xD



**Speed**  
Up to 20,000 rpm



**Coolant-Thru**  
Thru-tool coolant

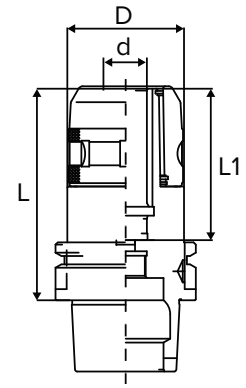


Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK63A

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK63A-C3/4-95-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	95	3.74"	2.68"	2.03"	10K
HSK63A-C3/4-110-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	110	4.33"	3.15"	2.03"	10K
HSK63A-C1-100-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	100	3.94"	2.97"	2.34"	10K
HSK63A-C1-130	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	130	5.12"	3.20"	2.34"	6K
HSK63A-C1.1/4-110-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	110	4.33"	3.27"	2.72"	8K
HSK63A-C1.1/4-130	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	130	5.12"	3.19"	2.72"	8K

Note: Wrench, coolant tube and coolant tube wrench not included. Please see page 155 for more details.

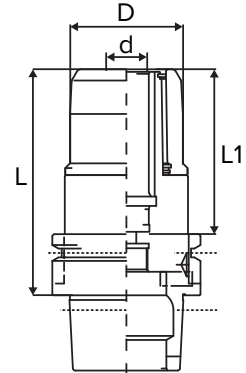


### HSK63A HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK63A-C3/4-70P	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	70	2.76"	2.05"	2.03"	20K
HSK63A-C3/4-95G-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	95	3.74"	2.68"	1.89"	20K
HSK63A-C3/4-110G-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	110	4.33"	3.15"	1.89"	20K
HSK63A-C1-100G-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	100	3.94"	2.97"	2.15"	20K
HSK63A-C1-130G	KM1 or CCK1	0.125-1.000"	GH25	1.00"	130	4.33"	3.15"	2.15"	20K
HSK63A-C1.1/4-110G-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	110	4.33"	3.27"	2.68"	15K

Note:

- High-speed spanner wrench, coolant tube and coolant tube wrench not included. Please see page 155 for more details.
- High-speed HSK63A Milling Chucks use special high-speed spanner wrenches.

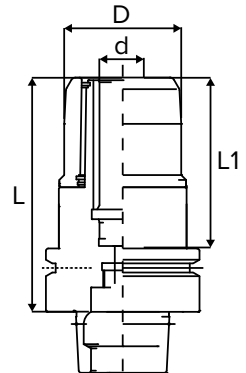


### HSK63F HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK63F-C3/4-95G	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	95	3.74"	2.68"	1.89"	25K
HSK63F-C1-100G	KM1 or CCK1	0.125-1.000"	GH25	1.00"	100	3.94"	2.97"	2.15"	20K
HSK63F-C1.1/4-110G	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	110	4.33"	3.27"	2.68"	15K

Note:

- High-speed spanner wrench, coolant tube, and coolant tube wrench not included. Please see page 155 for more details.
- High-speed HSK63F Milling Chucks use special high-speed spanner wrenches.



KM & NK Collets  
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Spanner Wrench  
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Back-Up Screw  
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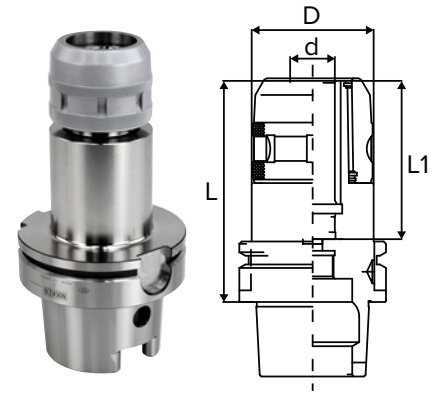
Coolant-Thru & Slotted Nuts  
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## HSK MILLING CHUCKS

### HSK100A

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK100A-C3/4-115-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	115	4.53"	3.15"	2.03"	8K
HSK100A-C3/4-135-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	135	5.31"	3.15"	2.03"	8K
HSK100A-C1-115-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	115	4.53"	3.15"	2.34"	8K
HSK100A-C1-135-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	135	5.31"	3.15"	2.34"	8K
HSK100A-C1.1/4-115-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	115	4.53"	3.27"	2.72"	8K
HSK100A-C1.1/4-165-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	165	6.50"	3.19"	2.72"	8K
HSK100A-C32-115	KM32 or CCK32	6 - 32mm	9HC32	32mm	115	4.53"	3.27"	2.72"	8K
HSK100A-C32-135	KM32 or CCK32	6 - 32mm	9HC32	32mm	135	5.31"	3.19"	2.72"	6K
HSK100A-C32-165	KM32 or CCK32	6 - 32mm	9HC32	32mm	165	6.50"	3.19"	2.72"	6K
HSK100A-C32-250	KM32 or CCK32	6 - 32mm	9HC32	32mm	250	9.84"	3.19"	2.72"	2K
HSK100A-C32-300	KM32 or CCK32	6 - 32mm	9HC32	32mm	300	11.81"	3.19"	2.72"	2K

Note: Wrench, coolant tube, and coolant tube wrench not included.  
Please see page 155 for more details.

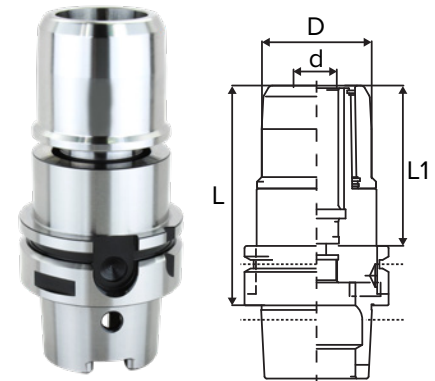


### HSK100A HIGH SPEED

Part Number	Collet Series	Clamping Range	High-Speed Spanner Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK100A-C3/4-115G-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	115	4.53"	3.15"	1.89"	20K
HSK100A-C3/4-135G-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	135	5.31"	3.15"	1.89"	20K

Note:

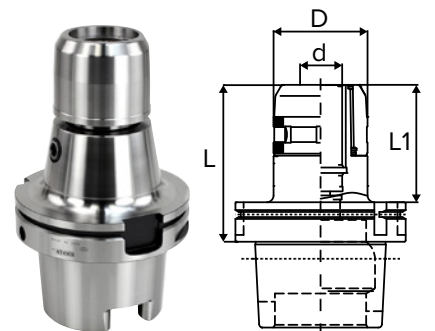
- High-speed spanner wrench, coolant tube, and coolant tube wrench not included. Please see page 155 for more details.
- High-speed HSK100A Milling Chucks use special high-speed spanner wrenches.



### HSK125A

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
HSK125A-C1-115	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	115	4.53"	3.03"	2.34"	8K
HSK125A-C1.1/4-115	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	115	4.53"	3.07"	2.72"	8K
HSK125A-C2-125	KM2 or CCK2	1.000-2.000"	9HC50	2.00"	125	4.92"	3.46"	4.13"	3K

Note: Wrench, coolant tube, and coolant tube wrench not included.  
Please see page 155 for more details.



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Back-Up Screw  
Page 155



Coolant-Thru & Slotted Nuts  
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# MILLING CHUCKS

## NMTB MILLING CHUCKS

### FEATURES

- Nikken patented design
- Nut body contact, nose clamping and anti-vibration mechanism
- Thick body and internal slots provide extremely strong chucking torque and rigidity
- Quiet and stable heavy milling
- 140% more bearing surface than competitors' milling chucks



**T.I.R.**  
<0.0002" at 3xD



**Coolant-Thru**  
Thru-tool coolant

**MILLING**



**REAMING**



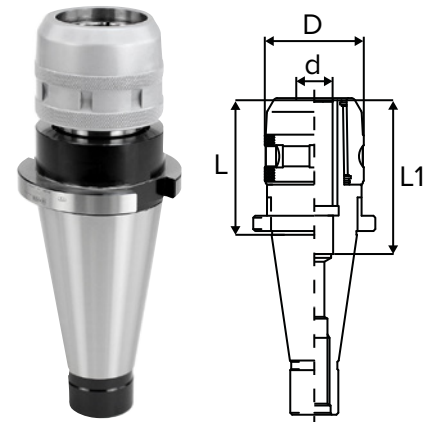
**DRILLING**



### NMTB40

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NMTB40-C3/4-70</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	70	2.76"	3.15"	2.03"	6K
<b>NMTB40-C1.1/4-105</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	105	4.13"	3.15"	2.72"	6K

Note: Wrench not included.



### NMTB50

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
<b>NMTB50-C3/4-65</b>	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	65	2.56"	3.15"	2.03"	6K
<b>NMTB50-C1.1/4-90</b>	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	90	3.54"	4.13"	2.72"	6K
<b>NMTB50-C2-105</b>	KM2 or CCK2	1.000-2.000"	9HC50	2.00"	105	4.13"	3.54"	4.13"	6K

Note:

- Wrench not included.
- All NMTB shanks are suitable for use with Erickson Quick Change spindles.



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**Spanner Wrench**  
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**Back-Up Screw**  
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**Coolant-Thru & Slotted Nuts**  
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## POLYGONAL TAPER MILLING CHUCKS

### FEATURES

- Extremely stable and rigid connection between tool and the machine
- High torque and bending forces transmission due to simultaneous tapered polygon and face contact with machine spindle
- Self centering ability due to unique design
- Internal coolant supply, directly to the tool tip
- Best solution for all processes - both in turning and milling
- Modular design for flexible tooling
- Standardized interface as per ISO 26623



**T.I.R.**  
≤0.0001" run out at cavity bore



**Speed**  
Up to 25,000 rpm



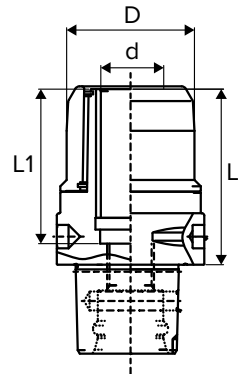
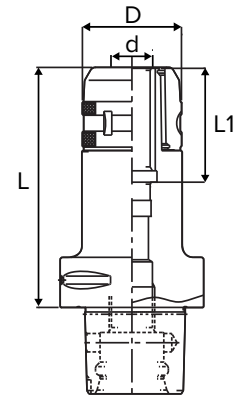
**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### C6/C8

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
C6-C3/4-75-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	75	2.95"	2.60"	2.03"	8K
C6-C3/4-90-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	90	3.54"	3.15"	2.03"	8K
C6-C3/4-120-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	120	4.72"	3.15"	2.03"	8K
C6-C1-75-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	75	2.95"	2.41"	2.34"	8K
C6-C1-90-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	90	3.54"	3.15"	2.34"	8K
C6-C1-120-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	120	4.72"	3.15"	2.34"	8K
C6-C1.1/4-75-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	75	2.95"	3.19"	2.72"	8K
C6-C1.1/4-120-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	120	4.72"	3.19"	2.72"	8K
C8-C3/4-90-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	90	3.54"	3.15"	2.03"	8K
C8-C3/4-105-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	105	4.13"	3.15"	2.03"	8K
C8-C3/4-135-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	135	5.31"	3.15"	2.03"	6K
C8-C3/4-165-IDU	KM3/4 or CCK3/4	0.125-0.750"	9HC22	0.75"	165	6.50"	3.15"	2.03"	6K
C8-C1-90-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	90	3.54"	3.15"	2.34"	8K
C8-C1-105-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	105	4.13"	3.15"	2.34"	8K
C8-C1-135-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	135	5.31"	3.15"	2.34"	6K
C8-C1-165-IDU	KM1 or CCK1	0.125-1.000"	9HC25	1.00"	165	6.50"	3.15"	2.34"	6K
C8-C1.1/4-90-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	90	3.54"	3.35"	2.72"	8K
C8-C1.1/4-105-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	105	4.13"	3.94"	2.72"	8K
C8-C1.1/4-135-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	135	5.31"	4.13"	2.72"	6K
C8-C1.1/4-165-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	9HC32	1.25"	165	6.50"	4.13"	2.72"	6K



### C6 HIGH SPEED

Part Number	Collet Series	Clamping Range	Wrench	d	L (mm)	L	L1	D	Max. RPM
C6-C3/4-75G-IDU	KM3/4 or CCK3/4	0.125-0.750"	GH20	0.75"	75	2.95"	2.60"	1.89"	25K
C6-C1-75G-IDU	KM1 or CCK1	0.125-1.000"	GH25	1.00"	75	2.95"	2.60"	2.15"	20K
C6-C1.1/4-75G-IDU	KM1.1/4 or CCK1.1/4	0.187-1.250"	GH32	1.25"	75	2.95"	2.60"	2.68"	15K



Contact us to request a quote on supplying High Speed Polygonal Taper Milling Chucks in any size from our factory.



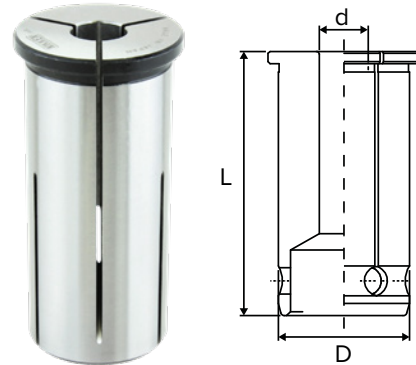
# MILLING CHUCKS

## KM COLLETS

Milling chuck collets are designed to ensure uniform fit around the cutting tool shank. This provides maximum gripping power as well as concentric positioning of the cutting tool.

Collet Series	L	D	d = Collet Range
KM3/4	2.087"	0.750"	1/8" - 5/8"
KM1	2.323"	1.000"	1/8" - 7/8"
KM1.1/4	2.539"	1.250"	3/16" - 1"
KM32mm	2.539"	1.259"	3/16" - 1"
KM2	3.268"	2.000"	1" - 1.1/2"

Note: KM Collets only collapse .001". For optimal performance, please use on-size cutting tools.



Collet Series	Inch		Metric		
	Size	Part Number	Size	Part Number	
3/4"	1/8"	KM3/4-1/8	6mm	KM3/4-6	
	3/16"	KM3/4-3/16	7mm	KM3/4-7	
	1/4"	KM3/4-1/4	8mm	KM3/4-8	
	5/16"	KM3/4-5/16	10mm	KM3/4-10	
	3/8"	KM3/4-3/8	12mm	KM3/4-12	
	7/16"	KM3/4-7/16	14mm	KM3/4-14	
	1/2"	KM3/4-1/2	16mm	KM3/4-16	
	9/16"	KM3/4-9/16	-	-	
	5/8"	KM3/4-5/8	-	-	
1"	1/8"	KM1-1/8	6mm	KM1-6	
	3/16"	KM1-3/16	8mm	KM1-8	
	1/4"	KM1-1/4	10mm	KM1-10	
	5/16"	KM1-5/16	12mm	KM1-12	
	3/8"	KM1-3/8	14mm	KM1-14	
	7/16"	KM1-7/16	16mm	KM1-16	
	1/2"	KM1-1/2	18mm	KM1-18	
	9/16"	KM1-9/16	20mm	KM1-20	
	5/8"	KM1-5/8	-	-	
	3/4"	KM1-3/4	-	-	
1.1/4"	7/8"	KM1-7/8	-	-	
	1/8"	KM1.1/4-1/8	6mm	KM1.1/4-6	
	3/16"	KM1.1/4-3/16	8mm	KM1.1/4-8	
	1/4"	KM1.1/4-1/4	10mm	KM1.1/4-10	
	5/16"	KM1.1/4-5/16	12mm	KM1.1/4-12	
	3/8"	KM1.1/4-3/8	14mm	KM1.1/4-14	
	7/16"	KM1.1/4-7/16	16mm	KM1.1/4-16	
	1/2"	KM1.1/4-1/2	18mm	KM1.1/4-18	
	9/16"	KM1.1/4-9/16	20mm	KM1.1/4-20	
	5/8"	KM1.1/4-5/8	25mm	KM1.1/4-25	
	11/16"	KM1.1/4-11/16	-	-	
	3/4"	KM1.1/4-3/4	-	-	
	7/8"	KM1.1/4-7/8	-	-	
	15/16"	KM1.1/4-15/16	-	-	
	2"	1/4"	KM2-1/4	-	-
		3/4"	KM2-3/4	-	-
		1"	KM2-1	-	-
1-1/4"		KM2-1.1/4	-	-	
1-1/2"		KM2-1.1/2	-	-	
1-3/4"		KM2-1.3/4	-	-	
1-7/8"		KM2-1.7/8	-	-	

Collet Series	Inch		Metric	
	Size	Part Number	Size	Part Number
32mm	1/8"	KM32-1/8	3mm	KM32-3
	3/16"	KM32-3/16	4mm	KM32-4
	1/4"	KM32-1/4	5mm	KM32-5
	5/16"	KM32-5/16	6mm	KM32-6
	3/8"	KM32-3/8	7mm	KM32-7
	7/16"	KM32-7/16	8mm	KM32-8
	1/2"	KM32-1/2	9mm	KM32-9
	9/16"	KM32-9/16	10mm	KM32-10
	5/8"	KM32-5/8	11mm	KM32-11
	11/16"	KM32-11/16	12mm	KM32-12
	3/4"	KM32-3/4	13mm	KM32-13
	7/8"	KM32-7/8	14mm	KM32-14
	1"	KM32-1	15mm	KM32-15
	-	-	16mm	KM32-16
	-	-	17mm	KM32-17
	-	-	18mm	KM32-18
	-	-	19mm	KM32-19
	-	-	20mm	KM32-20
	-	-	21mm	KM32-21
	-	-	22mm	KM32-22
	-	-	23mm	KM32-23
	-	-	24mm	KM32-24
	-	-	25mm	KM32-25
	-	-	26mm	KM32-26
	-	-	27mm	KM32-27
	-	-	28mm	KM32-28
	-	-	29mm	KM32-29
	-	-	30mm	KM32-30

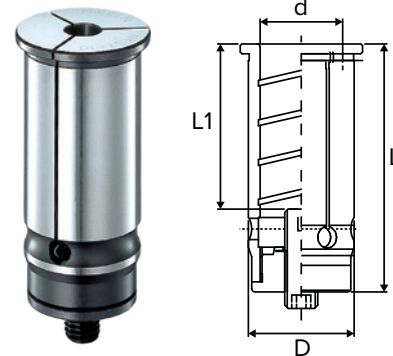
### KM COLLET SET

Part Number	Description
KM3/4-SET-09	9 piece set 1/8" - 5/8"
KM3/4-SET-07-MM	7 piece set 6mm - 16mm
KM1-SET-10	10 piece set 1/8" - 7/8"
KM1-SET-08-MM	8 piece set 6mm - 20mm
KM1.1/4-SET-11	11 piece set 3/16" - 1"
KM1.1/4-SET-08-MM	8 piece set 6mm - 25mm
KM32-SET-11	11 piece set 3/16" - 1"
KM32-SET-09-MM	9 piece set 6mm - 26mm

## NK COLLETS - DEPTH ADJUSTABLE

Collet Series	D	L	L1	d = Collet Range
NK3/4	0.750"	2.480"	1.968" max. depth	1/8" - 5/8"
NK1	1.000"	2.677"	2.165" max. depth	1/8" - 7/8"
NK1.1/4	1.250"	2.964"	2.401" max. depth	3/16" - 1"
NK32mm	1.259"	2.964"	2.401" max. depth	3/16" - 1"
NK2	2.000"	3.673"	3.110" max. depth	1" - 1.1/2"

Note: Cutter length adjustment on the collet is possible from front and back.



Collet Series	Inch		Metric	
	Size	Part Number	Size	Part Number
3/4"	1/8"	NK3/4-1/8	6mm	NK3/4-6
	3/16"	NK3/4-3/16	7mm	NK3/4-7
	1/4"	NK3/4-1/4	8mm	NK3/4-8
	5/16"	NK3/4-5/16	10mm	NK3/4-10
	3/8"	NK3/4-3/8	12mm	NK3/4-12
	7/16"	NK3/4-7/16	14mm	NK3/4-14
	1/2"	NK3/4-1/2	16mm	NK3/4-16
	9/16"	NK3/4-9/16	-	-
	5/8"	NK3/4-5/8	-	-
1"	1/8"	NK1-1/8	6mm	NK1-6
	3/16"	NK1-3/16	8mm	NK1-8
	1/4"	NK1-1/4	10mm	NK1-10
	5/16"	NK1-5/16	12mm	NK1-12
	3/8"	NK1-3/8	14mm	NK1-14
	7/16"	NK1-7/16	16mm	NK1-16
	1/2"	NK1-1/2	18mm	NK1-18
	5/8"	NK1-5/8	20mm	NK1-20
	3/4"	NK1-3/4	-	-
	7/8"	NK1-7/8	-	-
1.1/4"	3/16"	NK1.1/4-3/16	6mm	NK1.1/4-6
	1/4"	NK1.1/4-1/4	8mm	NK1.1/4-8
	5/16"	NK1.1/4-5/16	9mm	NK1.1/4-9
	3/8"	NK1.1/4-3/8	10mm	NK1.1/4-10
	7/16"	NK1.1/4-7/16	12mm	NK1.1/4-12
	1/2"	NK1.1/4-1/2	14mm	NK1.1/4-14
	9/16"	NK1.1/4-9/16	16mm	NK1.1/4-16
	5/8"	NK1.1/4-5/8	20mm	NK1.1/4-20
	3/4"	NK1.1/4-3/4	25mm	NK1.1/4-25
	7/8"	NK1.1/4-7/8	-	-
	15/16"	NK1.1/4-15/16	-	-

Collet Series	Inch		Metric	
	Size	Part Number	Size	Part Number
2"	1"	NK2-1	21mm	NK32-21
	1-1/4"	NK2-1-1/4	22mm	NK32-22
	1-1/2"	NK2-1-1/2	23mm	NK32-23
	-	-	24mm	NK32-24
	-	-	25mm	NK32-25
	-	-	26mm	NK32-26
32mm	3/16"	NK32-3/16	1mm	NK32-1
	1/4"	NK32-1/4	3mm	NK32-3
	5/16"	NK32-5/16	4mm	NK32-4
	3/8"	NK32-3/8	5mm	NK32-5
	7/16"	NK32-7/16	6mm	NK32-6
	1/2"	NK32-1/2	7mm	NK32-7
	9/16"	NK32-9/16	8mm	NK32-8
	5/8"	NK32-5/8	9mm	NK32-9
	11/16"	NK32-11/16	10mm	NK32-10
	3/4"	NK32-3/4	11mm	NK32-11
	13/16"	NK32-13/16	12mm	NK32-12
	7/8"	NK32-7/8	13mm	NK32-13
	15/16"	NK32-15/16	14mm	NK32-14
	1"	NK32-1	15mm	NK32-15
	-	-	16mm	NK32-16
	-	-	17mm	NK32-17
-	-	18mm	NK32-18	
-	-	19mm	NK32-19	
-	-	20mm	NK32-20	

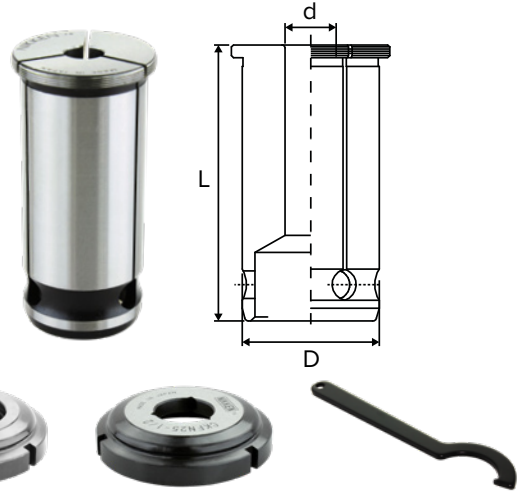
# MILLING CHUCKS

## CCK COOLANT COLLET SYSTEM



Collet Series	L	D	d = Collet Range
3/4"	2.086"	0.750"	1/8" - 5/8"
1"	2.320"	1.000"	1/8" - 7/8"
1.1/4"	2.539"	1.250"	3/16" - 1"
32mm	2.539"	1.259"	3/16" - 1"
2"	3.268"	2.000"	1" - 1.1/2"

Note: CCK Collets do not collapse.



Collet Series	Size	Coolant Collet	Coolant-Thru Nut	Slotted Nut	Disc Wrench
3/4"	1/8"	CCK3/4-1/8	CKFN20(3/4)-1/8C	CKFN20(3/4)-1/8	CCKL20
	3/16"	CCK3/4-3/16	CKFN20(3/4)-3/16C	CKFN20(3/4)-3/16	
	1/4"	CCK3/4-1/4	CKFN20(3/4)-1/4C	CKFN20(3/4)-1/4	
	5/16"	CCK3/4-5/16	CKFN20(3/4)-5/16C	CKFN20(3/4)-5/16	
	3/8"	CCK3/4-3/8	CKFN20(3/4)-3/8C	CKFN20(3/4)-3/8	
	7/16"	CCK3/4-7/16	CKFN20(3/4)-7/16C	CKFN20(3/4)-7/16	
	1/2"	CCK3/4-1/2	CKFN20(3/4)-1/2C	CKFN20(3/4)-1/2	
	9/16"	CCK3/4-9/16	CKFN20(3/4)-9/16C	CKFN20(3/4)-9/16	
	5/8"	CCK3/4-5/8	CKFN20(3/4)-5/8C	CKFN20(3/4)-5/8	
	3/4"	-	CKFN20(3/4)-3/4D	-	
	3/4"	-	CKFN20(3/4)-3/4DC	-	
	6mm	CCK3/4-6	CKFN20(3/4)-6C	CKFN20(3/4)-6	
	7mm	CCK3/4-7	CKFN20(3/4)-7C	CKFN20(3/4)-7	
	8mm	CCK3/4-8	CKFN20(3/4)-8C	CKFN20(3/4)-8	
	10mm	CCK3/4-10	CKFN20(3/4)-10C	CKFN20(3/4)-10	
	12mm	CCK3/4-12	CKFN20(3/4)-12C	CKFN20(3/4)-12	
	14mm	CCK3/4-14	CKFN20(3/4)-14C	CKFN20(3/4)-14	
	16mm	CCK3/4-16	CKFN20(3/4)-16C	CKFN20(3/4)-16	
	20mm	-	CKFN20(3/4)-20DC	-	
1"	1/8"	CCK1-1/8	CKFN25(1)-1/8C	CKFN25(1)-1/8	CCKL25
	3/16"	CCK1-3/16	CKFN25(1)-3/16C	CKFN25(1)-3/16	
	1/4"	CCK1-1/4	CKFN25(1)-1/4C	CKFN25(1)-1/4	
	5/16"	CCK1-5/16	CKFN25(1)-5/16C	CKFN25(1)-5/16	
	3/8"	CCK1-3/8	CKFN25(1)-3/8C	CKFN25(1)-3/8	
	7/16"	CCK1-7/16	CKFN25(1)-7/16C	CKFN25(1)-7/16	
	1/2"	CCK1-1/2	CKFN25(1)-1/2C	CKFN25(1)-1/2	
	9/16"	CCK1-9/16	CKFN25(1)-9/16C	CKFN25(1)-9/16	
	5/8"	CCK1-5/8	CKFN25(1)-5/8C	CKFN25(1)-5/8	
	3/4"	CCK1-3/4	CKFN25(1)-3/4C	CKFN25(1)-3/4	
	7/8"	CCK1-7/8	CKFN25(1)-7/8C	CKFN25(1)-7/8	
	1"	-	CKFN25(1)-1D	-	
	1"	-	CKFN25(1)-1DC	-	
	6mm	CCK1-6	CKFN25(1)-6C	CKFN25(1)-6	
	8mm	CCK1-8	CKFN25(1)-8C	CKFN25(1)-8	
	10mm	CCK1-10	CKFN25(1)-10C	CKFN25(1)-10	
	12mm	CCK1-12	CKFN25(1)-12C	CKFN25(1)-12	
	14mm	CCK1-14	CKFN25(1)-14C	CKFN25(1)-14	
	16mm	CCK1-16	CKFN25(1)-16C	CKFN25(1)-16	
	18mm	CCK1-18	CKFN25(1)-18C	CKFN25(1)-18	
	20mm	CCK1-20	CKFN25(1)-20C	CKFN25(1)-20	
	25mm	-	CKFN25(1)-25D	-	
	25mm	-	CKFN25(1)-25DC	-	

## CCK COOLANT COLLET SYSTEM (CONT.)



Collet Series	Size	Coolant Collet	Coolant-Thru Nut	Slotted Nut	Disc Wrench
1.1/4"	3/16"	CCK1.1/4-3/16	CKFN32(1.1/4)-3/16C	CKFN32(1.1/4)-3/16	CCKL32
	1/4"	CCK1.1/4-1/4	CKFN32(1.1/4)-1/4C	CKFN32(1.1/4)-1/4	
	5/16"	CCK1.1/4-5/16	CKFN32(1.1/4)-5/16C	CKFN32(1.1/4)-5/16	
	3/8"	CCK1.1/4-3/8	CKFN32(1.1/4)-3/8C	CKFN32(1.1/4)-3/8	
	7/16"	CCK1.1/4-7/16	CKFN32(1.1/4)-7/16C	CKFN32(1.1/4)-7/16	
	1/2"	CCK1.1/4-1/2	CKFN32(1.1/4)-1/2C	CKFN32(1.1/4)-1/2	
	9/16"	CCK1.1/4-9/16	CKFN32(1.1/4)-9/16C	CKFN32(1.1/4)-9/16	
	5/8"	CCK1.1/4-5/8	CKFN32(1.1/4)-5/8C	CKFN32(1.1/4)-5/8	
	3/4"	CCK1.1/4-3/4	CKFN32(1.1/4)-3/4C	CKFN32(1.1/4)-3/4	
	7/8"	CCK1.1/4-7/8	CKFN32(1.1/4)-7/8C	CKFN32(1.1/4)-7/8	
	1"	CCK1.1/4-1	CKFN32(1.1/4)-1C	CKFN32(1.1/4)-1	
	1-1/4"	-	CKFN32(1.1/4)-1.1/4D	-	
	1-1/4"	-	CKFN32(1.1/4)-1.1/4DC	-	
	6mm	CCK1.1/4-6	CKFN32(1.1/4)-6C	CKFN32(1.1/4)-6	
	8mm	CCK1.1/4-8	CKFN32(1.1/4)-8C	CKFN32(1.1/4)-8	
	10mm	CCK1.1/4-10	CKFN32(1.1/4)-10C	CKFN32(1.1/4)-10	
	12mm	CCK1.1/4-12	CKFN32(1.1/4)-12C	CKFN32(1.1/4)-12	
	14mm	CCK1.1/4-14	CKFN32(1.1/4)-14C	CKFN32(1.1/4)-14	
	16mm	CCK1.1/4-16	CKFN32(1.1/4)-16C	CKFN32(1.1/4)-16	
	20mm	CCK1.1/4-20	CKFN32(1.1/4)-20C	CKFN32(1.1/4)-20	
25mm	CCK1.1/4-25	CKFN32(1.1/4)-25C	CKFN32(1.1/4)-25		
32mm	-	CKFN32(1.1/4)-32D	-		
32mm	-	CKFN32(1.1/4)-32DC	-		
2"	1"	CCK2-1	CKFN50(2)-1C	CKFN50(2)-1	CCKL50
	1-1/4"	CCK2-1.1/4	CKFN50(2)-1.1/4C	CKFN50(2)-1.1/4	
	1-1/2"	CCK2-1.1/2	CKFN50(2)-1.1/2C	CKFN50(2)-1.1/2	
32mm	3/16"	CCK32-3/16	CKFN32(1.1/4)-3/16C	CKFN32(1.1/4)-3/16	CCKL32
	1/4"	CCK32-1/4	CKFN32(1.1/4)-1/4C	CKFN32(1.1/4)-1/4	
	5/16"	CCK32-5/16	CKFN32(1.1/4)-5/16C	CKFN32(1.1/4)-5/16	
	3/8"	CCK32-3/8	CKFN32(1.1/4)-3/8C	CKFN32(1.1/4)-3/8	
	7/16"	CCK32-7/16	CKFN32(1.1/4)-7/16C	CKFN32(1.1/4)-7/16	
	1/2"	CCK32-1/2	CKFN32(1.1/4)-1/2C	CKFN32(1.1/4)-1/2	
	9/16"	CCK32-9/16	CKFN32(1.1/4)-9/16C	CKFN32(1.1/4)-9/16	
	5/8"	CCK32-5/8	CKFN32(1.1/4)-5/8C	CKFN32(1.1/4)-5/8	
	3/4"	CCK32-3/4	CKFN32(1.1/4)-3/4C	CKFN32(1.1/4)-3/4	
	7/8"	CCK32-7/8	CKFN32(1.1/4)-7/8C	CKFN32(1.1/4)-7/8	
	1"	CCK32-1	CKFN32(1.1/4)-1C	CKFN32(1.1/4)-1	
	1-1/4"	-	CKFN32(1.1/4)-1.1/4D	-	
	1-1/4"	-	CKFN32(1.1/4)-1.1/4DC	-	
	6mm	CCK32-6	CKFN32(1.1/4)-6C	CKFN32(1.1/4)-6	
	8mm	CCK32-8	CKFN32(1.1/4)-8C	CKFN32(1.1/4)-8	
	10mm	CCK32-10	CKFN32(1.1/4)-10C	CKFN32(1.1/4)-10	
	11mm	CCK32-11	CKFN32(1.1/4)-11C	CKFN32(1.1/4)-11	
	12mm	CCK32-12	CKFN32(1.1/4)-12C	CKFN32(1.1/4)-12	
	14mm	CCK32-14	CKFN32(1.1/4)-14C	CKFN32(1.1/4)-14	
	15mm	CCK32-15	CKFN32(1.1/4)-15C	CKFN32(1.1/4)-15	
16mm	CCK32-16	CKFN32(1.1/4)-16C	CKFN32(1.1/4)-16		
18mm	CCK32-18	CKFN32(1.1/4)-18C	CKFN32(1.1/4)-18		
20mm	CCK32-20	CKFN32(1.1/4)-20C	CKFN32(1.1/4)-20		
24mm	CCK32-24	CKFN32(1.1/4)-24C	CKFN32(1.1/4)-24		
28mm	CCK32-28	CKFN32(1.1/4)-28C	CKFN32(1.1/4)-28		
32mm	-	CKFN32(1.1/4)-32D	-		
32mm	-	CKFN32(1.1/4)-32DC	-		

# MILLING CHUCKS

## MILLING CHUCK ACCESSORIES

### WRENCH

Standard Style Part Number	High Speed Style Part Number	Use With
9HC22	GH20	3/4" Milling Chuck
9HC25	GH25	1" Milling Chuck
9HC32	GH32 GH32S	1.1/4" and 32mm Milling Chuck - OD = 68mm 1.1/4" and 32mm Milling Chuck - OD = 62-64mm
9HC50	-	2" Milling Chuck
9HC50	-	2" Milling Chuck



Standard Wrench



High-Speed Wrench

### BACK-UP SCREW

Coolant-Thru	Use With
750TL-3(C)	3/4" Milling Chuck
1000TL-3(C)	1" Milling Chuck
1250TL-2(C)	1.1/4" Milling Chuck with ID depth of 77mm or less
1250TL-3(C)	1.1/4" Milling Chuck with ID depth of 105mm or more

Note: All back-up screws are 1000 PSI capable.



### COOLANT TUBE FOR HSK HOLDERS

Part Number	Description
HSK63-TUBE	Coolant Tube for HSK63 Holders
HSK100-TUBE	Coolant Tube for HSK100 Holders
HSK125A-TUBE	Coolant Tube for HSK125A Holders
C6-TUBE	Coolant Tube for C6 Holders
C8-TUBE	Coolant Tube for C8 Holders



### COOLANT TUBE WRENCH FOR HSK HOLDERS

Coolant tube wrenches are needed to remove or install coolant tubes in HSK toolholders.

Part Number	Description
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube
HSK125-WRENCH	Wrench for HSK125 Coolant Tube
C6-WRENCH	Wrench for C6 Coolant Tube
C8-WRENCH	Wrench for C8 Coolant Tube



# NIKKEN



## X-TREME MILLING CHUCK



### EXCELLENT RUNOUT AND POWERFUL GRIPPING

Exclusively developed for demanding applications and materials associated with the Aerospace and Energy industries.



Material: Ti6Al4V Titanium  
0.98", 6 teeth Carbide Roughing End Mill  
0.98" x 1.97" 1-Path Milling  
No Pull-Out



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lyndexnikken.com





## END MILL HOLDER FEATURES



### Extreme Rigidity

Featuring the highest taper contact and high quality steel, our End Mill Holders provide extreme rigidity for even the heaviest machining applications.

Shank style available from stock: CAT, BT, HSK, NMTB, and Straight, with inch or metric bores. High rigidity, stubby style, extended lengths and Aerospace whistle notch End Mill Holders can be supplied upon request.

ARE YOU LOOKING FOR A BETTER  
WAY TO HOLD END MILLS WITHOUT  
SACRIFICING ACCURACY?  
**USE A MILLING CHUCK!**



### WHAT MAKES OUR NIKKEN MILLING CHUCK THE BEST CHOICE FOR ANY MILLING APPLICATION?

- The most powerful collet chuck in the world with strongest grip in the world—up to 3,500 ft-lbs.!
- Symmetrical design—pre-balanced body and nut allow the milling chuck to operate beyond 20,000 RPM
- Outside bearing nut mechanically induces tight taper of the milling chuck to evenly collapse onto the cutting shank for high precision T.I.R.
- 6 angled coolant slots are standard, providing high pressure and high volume of coolant directed toward the periphery of the cutting tool

For more information on our Milling Chucks line, [go to page 133.](#)



# END MILL HOLDERS



## CAT END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- Through-spindle coolant capability
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore



**Coolant-Thru**



**Speed**  
Up to 25,000 RPM @ G2.5



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40 - INCH

Part Number	Ød	L	L1	L2	L3	D	D1	Set Screw Part Number	Max. RPM	Fig.
C4006-0125-1.38	1/8"	1.38"	0.63"	-	-	0.75"	-	S6-32X1/4	25K	1
C4006-0125-2.36	1/8"	2.36"	0.98"	1.38"	-	0.75"	1.75"	S6-32X1/4	25K	2
C4006-0125-4.00	1/8"	4.00"	2.62"	1.38"	-	0.75"	1.75"	S6-32X1/4	25K	2
C4006-0187-1.38	3/16"	1.38"	0.63"	-	-	0.75"	-	S8-32X1/4	25K	1
C4006-0187-2.50	3/16"	2.50"	1.12"	1.38"	-	0.75"	1.75"	S8-32X1/4	25K	2
C4006-0187-4.00	3/16"	4.00"	2.62"	1.38"	-	0.75"	1.75"	S8-32X1/4	25K	2
C4006-0250-1.38	1/4"	1.38"	0.63"	-	-	0.79"	-	S1/4-28X1/4	25K	1
C4006-0250-2.50	1/4"	2.50"	1.12"	1.38"	-	0.79"	1.75"	S1/4-28X1/4	25K	2
C4006-0250-4.00	1/4"	4.00"	2.62"	1.38"	-	0.79"	1.75"	S1/4-28X1/4	25K	2
C4006-0250-9.00	1/4"	9.00"	1.70"	5.69"	1.61"	0.79"	1.75"	S1/4-28X1/4	25K	3
C4006-0312-2.50	5/16"	2.50"	1.12"	1.38"	-	0.87"	1.75"	S5/16-24X1/4	25K	2
C4006-0312-4.00	5/16"	4.00"	2.67"	1.33"	-	0.87"	1.75"	S5/16-24X1/4	25K	2
C4006-0375-1.38	3/8"	1.38"	0.63"	-	-	1.00"	-	S3/8-24X5/16	25K	1
C4006-0375-2.50	3/8"	2.50"	1.12"	1.38"	-	1.00"	1.75"	S3/8-24X5/16	25K	2
C4006-0375-4.00	3/8"	4.00"	2.62"	1.38"	-	1.00"	1.75"	S3/8-24X5/16	25K	2
C4006-0375-5.00	3/8"	5.00"	3.62"	1.38"	-	1.00"	1.75"	S3/8-24X5/16	25K	2
C4006-0375-9.00	3/8"	9.00"	1.70"	5.72"	1.59"	1.00"	1.75"	S3/8-24X5/16	25K	3
C4006-0437-2.50	7/16"	2.50"	1.12"	1.38"	-	1.38"	1.75"	S7/16-20X3/8	25K	2
C4006-0437-4.00	7/16"	4.00"	2.65"	1.54"	-	1.38"	1.75"	S7/16-20X3/8	25K	2
C4006-0500-1.75	1/2"	1.75"	1.00"	-	-	1.38"	-	S7/16-20X3/8	25K	1
C4006-0500-2.50	1/2"	2.50"	1.12"	1.38"	-	1.38"	1.75"	S7/16-20X3/8	25K	2
C4006-0500-4.00	1/2"	4.00"	2.62"	1.38"	-	1.38"	1.75"	S7/16-20X3/8	25K	2
C4006-0500-5.00	1/2"	5.00"	3.62"	1.38"	-	1.38"	1.75"	S7/16-20X3/8	25K	2
C4006-0500-9.00	1/2"	9.00"	1.70"	5.72"	1.59"	1.38"	1.75"	S7/16-20X3/8	25K	3
C4006-0625-1.75	5/8"	1.75"	1.29"	-	-	1.65"	-	S9/16-18X1/2	25K	1
C4006-0625-3.00	5/8"	3.00"	1.62"	1.38"	-	1.65"	1.75"	S9/16-18X1/2	25K	2
C4006-0625-4.00	5/8"	4.00"	2.60"	1.40"	-	1.65"	1.75"	S9/16-18X1/2	25K	2
C4006-0625-5.50	5/8"	5.50"	4.12"	1.38"	-	1.65"	1.75"	S9/16-18X1/2	25K	2

**Note:**

- Set Screws are included.
- Extended Length End Mill Holders can be modified with DIN flange coolant ports.



Available in **TAPER PLUS**<sup>+</sup>  
Dual-taper and flange contact

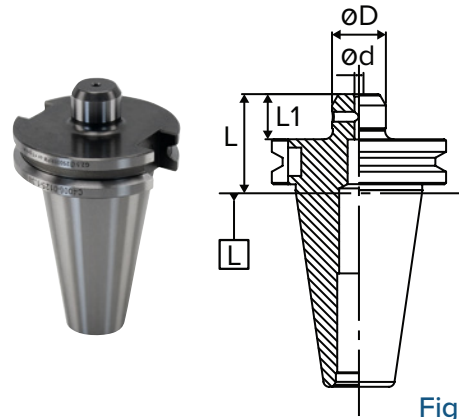


Fig. 1

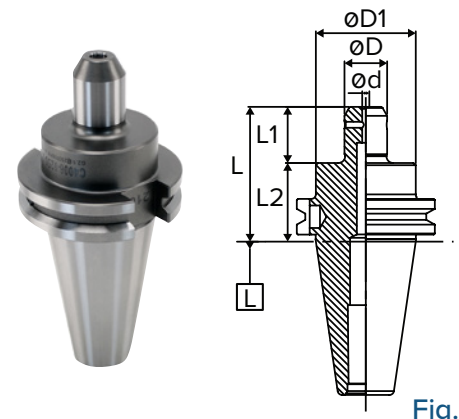


Fig. 2

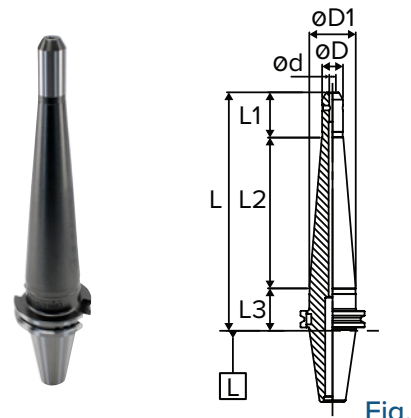


Fig. 3



Set Screws  
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Tool Clampers  
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## CAT END MILL HOLDERS

### CAT40 - INCH (CONT.)

Part Number	Ød	L	L1	L2	D	Set Screw Part Number	Max. RPM	Fig.
<b>C4006-0750-1.75</b>	3/4"	1.75"	1.00"	-	1.89"	S5/8-18X1/2	25K	1
<b>C4006-0750-3.00</b>	3/4"	3.00"	2.25"	-	1.75"	S5/8-18X1/2	25K	1
<b>C4006-0750-4.00</b>	3/4"	4.00"	3.25"	-	1.75"	S5/8-18X1/2	25K	1
<b>C4006-0750-5.50</b>	3/4"	5.50"	4.76"	-	1.75"	S5/8-18X1/2	25K	1
<b>C4006-0750-9.00</b>	3/4"	9.00"	8.25"	-	1.75"	S5/8-18X1/2	25K	1
<b>C4006-0875-1.75</b>	7/8"	1.75"	1.00"	-	1.94"	S5/8-18X1/2	25K	1
<b>C4006-0875-3.50</b>	7/8"	3.50"	2.12"	1.38"	2.00"	S5/8-18X1/2 (2)	25K	4
<b>C4006-1000-2.00</b>	1"	2.00"	1.25"	-	2.25"	S3/4-16X11/16	25K	1
<b>C4006-1000-4.00</b>	1"	4.00"	2.62"	1.38"	2.36"	S3/4-16X11/16 (2)	25K	4
<b>C4006-1000-6.00</b>	1"	6.00"	4.61"	1.39"	2.36"	S3/4-16X11/16 (2)	25K	4

Note:

- Set Screws are included.
- Extended Length End Mill Holders can be modified with DIN flange coolant ports.

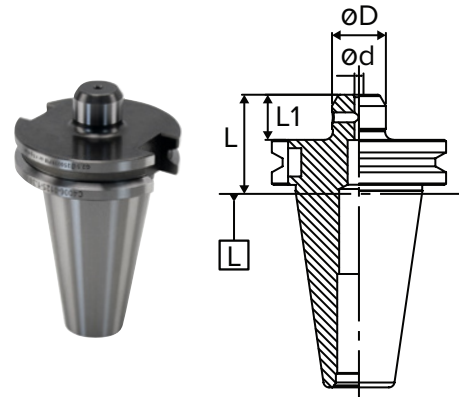


Fig. 1

### CAT40 - METRIC

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>C4006-6-2.50</b>	6mm	2.50"	1.12"	1.38"	0.79"	1.75"	S1/4-28X1/4	25K	2
<b>C4006-8-2.50</b>	8mm	2.50"	1.12"	1.38"	0.87"	1.75"	S5/16-24X1/4	25K	2
<b>C4006-10-2.50</b>	10mm	2.50"	1.12"	1.38"	1.00"	1.75"	S3/8-24X5/16	25K	2
<b>C4006-12-2.50</b>	12mm	2.50"	1.12"	1.38"	1.37"	1.74"	S7/16-20X3/8	25K	2
<b>C4006-14-3.00</b>	14mm	3.00"	1.62"	1.38"	1.65"	1.75"	S9/16-18X1/2	25K	2
<b>C4006-16-3.00</b>	16mm	3.00"	1.62"	1.38"	1.65"	1.75"	S9/16-18X1/2	25K	2
<b>C4006-20-3.00</b>	20mm	3.00"	2.25"	-	1.75"	-	S5/8-18X1/2	25K	1
<b>C4006-25-4.00</b>	25mm	4.00"	2.62"	1.38"	2.36"	-	S3/4-16X11/16 (2)	25K	4
<b>C4006-32-4.00</b>	32mm	4.00"	2.62"	1.38"	2.48"	-	S3/4-16X11/16 (2)	25K	4

Note: Set Screws are included.

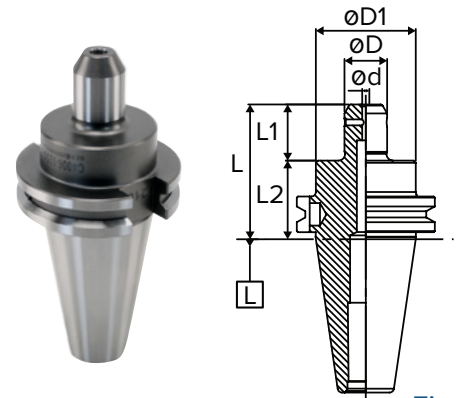


Fig. 2



Fig. 3



Available in  
**TAPER PLUS+**  
Dual-taper and flange contact  
See page 163



### TAPER PLUS+ COMBINING TAPER ACCURACY WITH FLANGE RIGIDITY!

- Outstanding Runout Accuracy for longer tool life
- Vibration Dampening for increased productivity
- High Rigidity for smooth and stable cutting



Set Screws  
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Retention  
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Tool  
Clampers  
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# END MILL HOLDERS



## CAT END MILL HOLDERS

### CAT50 - INCH

Part Number	Ød	L	L1	L2	L3	D	D1	Set Screw Part Number	Max. RPM	Fig.
C5006-0250-2.50	1/4"	2.50"	1.11"	1.39"	-	0.79"	2.75"	S1/4-28X1/4	25K	2
C5006-0250-4.00	1/4"	4.00"	2.62"	1.38"	-	0.79"	2.75"	S1/4-28X1/4	25K	2
C5006-0250-6.00	1/4"	6.00"	4.61"	1.39"	-	0.79"	2.75"	S1/4-28X1/4	25K	2
C5006-0250-8.00	1/4"	8.00"	1.49"	5.13"	1.38"	0.79"	2.75"	S1/4-28X1/4	25K	3
C5006-0312-2.50	5/16"	2.50"	1.11"	1.39"	-	0.87"	2.75"	S5/16-24X1/4	25K	2
C5006-0312-4.00	5/16"	4.00"	2.61"	1.39"	-	0.87"	2.75"	S5/16-24X1/4	25K	2
C5006-0312-6.00	5/16"	6.00"	4.61"	1.39"	-	0.87"	2.75"	S5/16-24X1/4	25K	2
C5006-0375-2.50	3/8"	2.50"	1.11"	1.39"	-	1.00"	2.75"	S3/8-24X5/16	25K	2
C5006-0375-4.00	3/8"	4.00"	2.61"	1.39"	-	1.00"	2.75"	S3/8-24X5/16	25K	2
C5006-0375-6.00	3/8"	6.00"	4.61"	1.39"	-	1.00"	2.75"	S3/8-24X5/16	25K	2
C5006-0375-8.00	3/8"	8.00"	1.50"	5.11"	1.39"	1.00"	2.75"	S3/8-24X5/16	25K	3
C5006-0437-2.50	7/16"	2.50"	1.11"	1.39"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0437-4.00	7/16"	4.00"	2.61"	1.39"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0437-6.00	7/16"	6.00"	4.61"	1.39"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0500-2.63	1/2"	2.63"	1.25"	1.38"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0500-4.00	1/2"	4.00"	2.61"	1.39"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0500-6.00	1/2"	6.00"	4.61"	1.39"	-	1.38"	2.75"	S7/16-20X3/8	25K	2
C5006-0500-8.00	1/2"	8.00"	1.50"	5.11"	1.39"	1.38"	2.75"	S7/16-20X3/8	25K	3
C5006-0625-3.00	5/8"	3.00"	1.62"	1.38"	-	1.65"	2.75"	S9/16-18X1/2	25K	2
C5006-0625-4.00	5/8"	4.00"	2.61"	1.39"	-	1.65"	2.75"	S9/16-18X1/2	25K	2
C5006-0625-6.00	5/8"	6.00"	4.61"	1.39"	-	1.65"	2.75"	S9/16-18X1/2	25K	2
C5006-0625-8.00	5/8"	8.00"	1.70"	4.95"	1.35"	1.65"	2.75"	S9/16-18X1/2	25K	3
C5006-0750-1.75	3/4"	1.75"	1.00"	0.75"	-	1.89"	-	S5/8-18X1/2	25K	1
C5006-0750-3.00	3/4"	3.00"	1.62"	1.38"	-	1.89"	2.75"	S5/8-18X1/2	25K	2
C5006-0750-4.00	3/4"	4.00"	2.62"	1.38"	-	1.89"	2.75"	S5/8-18X1/2	25K	2
C5006-0750-6.00	3/4"	6.00"	4.62"	1.38"	-	1.89"	2.75"	S5/8-18X1/2	25K	2
C5006-0750-8.00	3/4"	8.00"	1.70"	4.91"	1.39"	1.89"	2.75"	S5/8-18X1/2	25K	3
C5006-1000-2.00	1"	2.00"	1.25"	-	-	2.36"	-	S3/4-16X11/16	25K	1
C5006-1000-4.00	1"	4.00"	2.62"	1.38"	-	2.36"	2.75"	S3/4-16X11/16 (2)	25K	5
C5006-1000-6.00	1"	6.00"	4.62"	1.38"	-	2.36"	2.75"	S3/4-16X11/16 (2)	25K	5
C5006-1000-8.00	1"	8.00"	2.95"	3.66"	1.39"	2.36"	2.75"	S3/4-16X11/16 (2)	25K	6

**Note:**

- Set Screws are included.
- Extended Length End Mill Holders can be modified with DIN flange coolant ports.



Available in **TAPER PLUS**<sup>+</sup>  
Dual-taper and flange contact

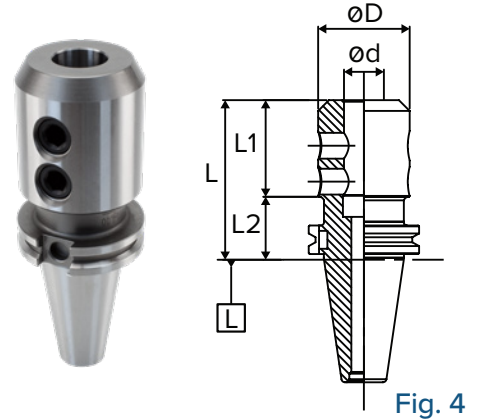


Fig. 4

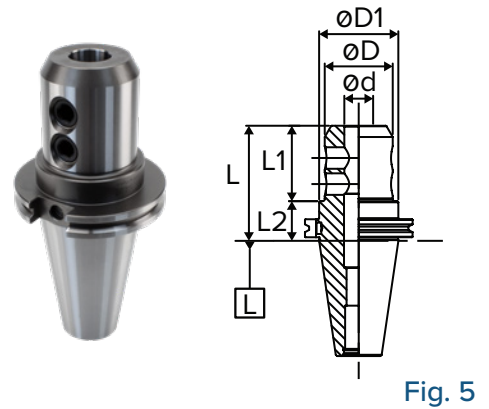


Fig. 5

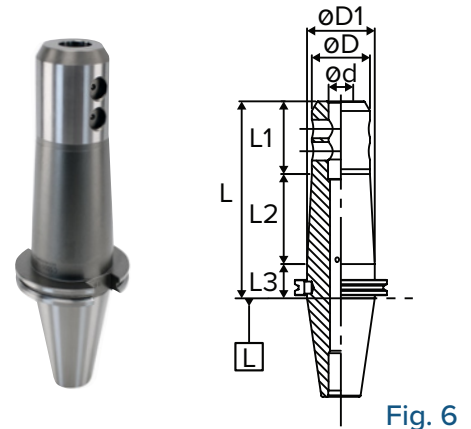


Fig. 6



Set Screws  
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Retention  
Knobs  
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Tool  
Clampers  
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## CAT END MILL HOLDERS

### CAT50 - INCH (CONT.)

Part Number	Ød	L	L1	L2	L3	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>C5006-1250-2.00</b>	1-1/4"	2.00"	1.25"	-	-	2.75"	-	S3/4-16X11/16	25K	1
<b>C5006-1250-4.00</b>	1-1/4"	4.00"	2.62"	1.38"	-	2.48"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-1250-6.00</b>	1-1/4"	6.00"	4.61"	1.39"	-	2.48"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-1250-8.00</b>	1-1/4"	8.00"	2.95"	3.66"	1.39"	2.48"	2.75"	S3/4-16X11/16 (2)	25K	6
<b>C5006-1500-2.25</b>	1-1/2"	2.25"	1.50"	-	-	2.75"	-	S3/4-16X11/16	25K	1
<b>C5006-1500-4.50</b>	1-1/2"	4.50"	3.00"	1.50"	-	2.99"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-1500-7.00</b>	1-1/2"	7.00"	5.61"	1.39"	-	2.99"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-2000-3.63</b>	2"	3.63"	2.88"	0.75"	-	3.74"	-	S1-14X7/8 (1) S1-14X7/16 (1)	25K	7
<b>C5006-2000-5.37</b>	2"	5.37"	3.99"	1.38"	-	3.74"	-	S1-14X7/8 (2)	25K	4
<b>C5006-2500-6.00</b>	2-1/2"	6.00"	4.62"	1.38"	-	4.25"	-	S1-14X7/8 (2)	25K	4

**Note:**

- Set Screws are included.
- Extended Length End Mill Holders can be modified with DIN flange coolant ports.

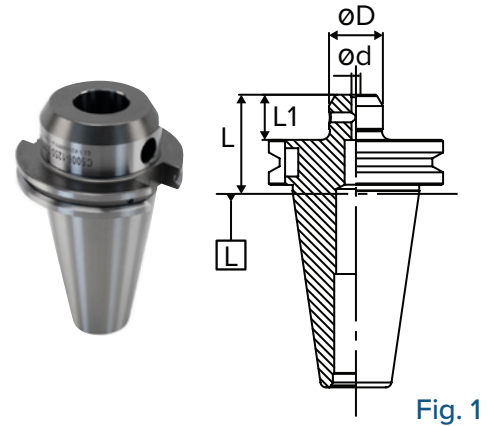


Fig. 1

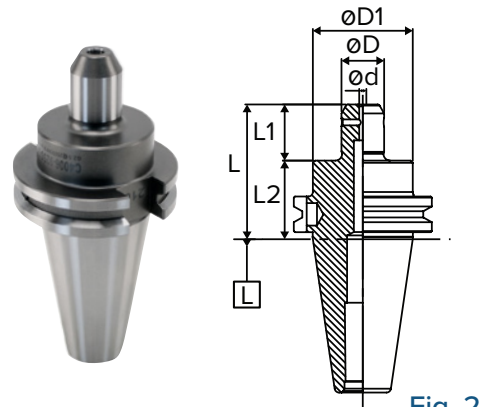


Fig. 2

### CAT50 - METRIC

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>C5006-6-2.50</b>	6mm	2.50"	1.11"	1.39"	0.79"	2.75"	S1/4-28X1/4	25K	2
<b>C5006-8-2.50</b>	8mm	2.50"	1.11"	1.39"	0.87"	2.75"	S5/16-24X1/4	25K	2
<b>C5006-10-2.50</b>	10mm	2.50"	1.11"	1.39"	1.00"	2.75"	S3/8-24X5/16	25K	2
<b>C5006-12-2.63</b>	12mm	2.63"	1.25"	1.38"	1.38"	2.75"	S7/16-20X3/8	25K	2
<b>C5006-14-3.00</b>	14mm	3.00"	1.62"	1.38"	1.65"	2.75"	S9/16-18X1/2	25K	2
<b>C5006-16-3.00</b>	16mm	3.00"	1.61"	1.39"	1.65"	2.75"	S9/16-18X1/2	25K	2
<b>C5006-18-3.00</b>	18mm	3.00"	1.61"	1.39"	1.89"	2.75"	S5/8-18X1/2	25K	2
<b>C5006-20-3.00</b>	20mm	3.00"	1.61"	1.39"	1.89"	2.75"	S5/8-18X1/2	25K	2
<b>C5006-25-4.00</b>	25mm	4.00"	2.61"	1.39"	2.36"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-32-4.00</b>	32mm	4.00"	2.61"	1.39"	2.48"	2.75"	S3/4-16X11/16 (2)	25K	5
<b>C5006-40-4.50</b>	40mm	4.50"	3.12"	1.38"	3.07"	-	S3/4-16X11/16 (2)	25K	4
<b>C5006-42-4.50</b>	42mm	4.50"	3.11"	1.39"	3.07"	-	S3/4-16X11/16 (2)	25K	4
<b>C5006-50-5.37</b>	50mm	5.31"	3.99"	1.32"	3.74"	-	S1-14X7/8 (2)	25K	4

**Note:** Set Screws are included.

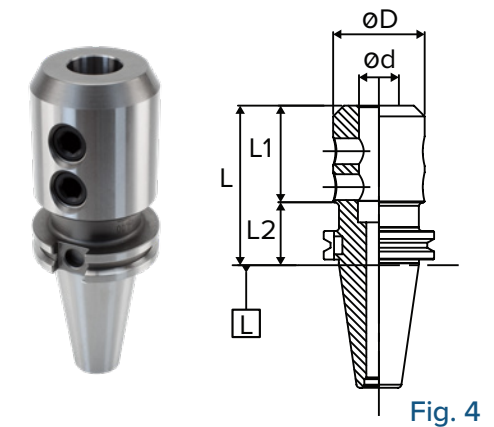


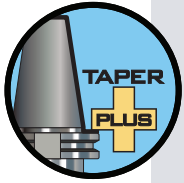
Fig. 4



# END MILL HOLDERS

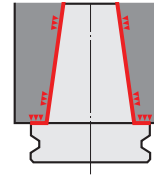


## TAPER PLUS CAT END MILL HOLDERS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT40

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
NC4006-0500-2.50CP	1/2"	2.50"	1.12"	1.38"	1.38"	1.75"	S7/16-20X3/8	25K	2
NC4006-0500-4.00CP	1/2"	4.00"	1.12"	2.88"	1.38"	1.75"	S7/16-20X3/8	25K	2
NC4006-0625-3.00CP	5/8"	3.00"	1.62"	1.38"	1.65"	1.75"	S9/16-18X1/2	25K	2
NC4006-0750-3.00CP	3/4"	3.00"	2.25"	0.75"	1.75"	-	S5/8-18X1/2	25K	1
NC4006-0750-4.00CP	3/4"	4.00"	3.25"	0.75"	1.75"	-	S5/8-18X1/2	25K	1
NC4006-1000-2.00	1"	2.00"	1.25"	0.75"	2.25"	-	S3/4-16X11/16	25K	1
NC4006-1000-4.00CP	1"	4.00"	2.62"	1.38"	2.36"	-	S3/4-16X11/16 (2)	25K	4
NC4006-1250-4.00CP	1-1/4"	4.00"	2.62"	1.38"	2.48"	-	S3/4-16X11/16 (2)	25K	4
NC4006-1500-4.50CP	1-1/2"	4.50"	3.12"	1.38"	2.99"	-	S3/4-16X11/16 (2)	25K	4

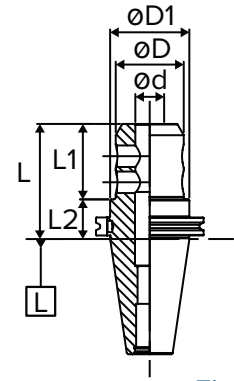


Fig. 5

### TAPER PLUS - CAT50

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
NC5006-0500-2.63CP	1/2"	2.63"	1.25"	1.38"	1.38"	2.75"	S7/16-20X3/8	25K	2
NC5006-0500-4.00CP	1/2"	4.00"	2.62"	1.38"	1.38"	2.75"	S7/16-20X3/8	25K	2
NC5006-0625-3.00CP	5/8"	3.00"	1.62"	1.38"	1.65"	2.75"	S9/16-18X1/2	25K	2
NC5006-0625-4.00CP	5/8"	4.00"	2.62"	1.38"	1.65"	2.75"	S9/16-18X1/2	25K	2
NC5006-0750-3.00CP	3/4"	3.00"	1.62"	1.38"	1.89"	2.75"	S5/8-18X1/2	25K	2
NC5006-0750-4.00CP	3/4"	4.00"	2.62"	1.38"	1.89"	2.75"	S5/8-18X1/2	25K	2
NC5006-0750-6.00CP	3/4"	6.00"	4.62"	1.38"	1.89"	2.75"	S5/8-18X1/2	25K	2
NC5006-1000-4.00CP	1"	4.00"	2.62"	1.38"	2.36"	2.75"	S3/4-16X11/16 (2)	25K	5
NC5006-1000-6.00CP	1"	6.00"	4.62"	1.38"	2.36"	2.75"	S3/4-16X11/16 (2)	25K	5
NC5006-1250-4.00CP	1-1/4"	4.00"	2.62"	1.38"	2.48"	2.75"	S3/4-16X11/16 (2)	25K	5
NC5006-1250-6.00CP	1-1/4"	6.00"	4.61"	1.39"	2.48"	2.75"	S3/4-16X11/16 (2)	25K	5
NC5006-1500-4.50CP	1-1/2"	4.50"	3.12"	1.38"	2.99"	-	S3/4-16X11/16 (2)	25K	4
NC5006-2000-5.37CP	2"	5.37"	3.99"	1.38"	3.74"	-	S1-14X7/8 (2)	25K	4

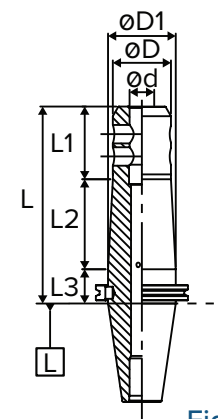


Fig. 6

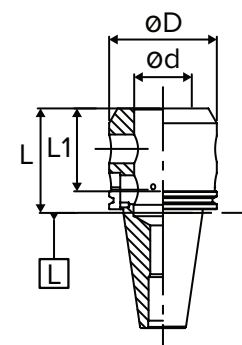
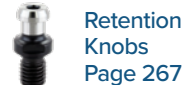


Fig. 7



## BT END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- Through-spindle coolant capability
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore



**Coolant-Thru**



**Speed**  
Up to 30,000 RPM @ G2.5



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30 - INCH

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>B3006-0125-2.36</b>	1/8"	2.36"	0.97"	1.39"	0.75"	1.18"	6-32X1/4	30K	8
<b>B3006-0187-2.36</b>	3/16"	2.36"	0.97"	1.39"	0.75"	1.26"	S8-32X1/4	30K	8
<b>B3006-0250-2.36</b>	1/4"	2.36"	0.99"	1.37"	0.79"	1.18"	S1/4-28X1/4	30K	8
<b>B3006-0312-2.36</b>	5/16"	2.36"	0.97"	1.39"	0.87"	1.38"	S5/16-24X1/4	30K	8
<b>B3006-0375-2.36</b>	3/8"	2.36"	0.97"	1.39"	1.00"	1.18"	S3/8-24X5/16	30K	8
<b>B3006-0437-2.36</b>	7/16"	2.36"	1.50"	0.86"	1.38"	-	S7/16-20X3/8	30K	9
<b>B3006-0500-2.36</b>	1/2"	2.36"	1.50"	0.86"	1.38"	-	S7/16-20X3/8	30K	9
<b>B3006-0625-2.50</b>	5/8"	2.50"	1.63"	0.87"	1.65"	-	S9/16-18X1/2	30K	9
<b>B3006-0750-3.00</b>	3/4"	3.00"	2.13"	0.87"	1.88"	-	S5/8-18X1/2 (2)	30K	10
<b>B3006-0875-3.54</b>	7/8"	3.54"	2.48"	1.06"	2.01"	-	S5/8-18X1/2 (2)	30K	11
<b>B3006-1000-3.54</b>	1"	3.54"	2.68"	0.86"	2.36"	-	S3/4-16X11/16 (2)	30K	11

Note: Set Screws are included.

### BT30 - METRIC

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>B3006-6-2.50</b>	6mm	2.50"	1.00"	1.50"	0.79"	1.18"	S1/4-28X1/4	30K	8
<b>B3006-10-2.50</b>	10mm	2.50"	1.00"	1.50"	1.00"	1.18"	S3/8-24X5/16	30K	8
<b>B3006-12-2.50</b>	12mm	2.50"	1.63"	0.87"	1.38"	-	S7/16-20X3/8	30K	9
<b>B3006-16-2.50</b>	16mm	2.50"	1.63"	0.87"	1.65"	-	S9/16-18X1/2	30K	9
<b>B3006-20-3.50</b>	20mm	3.50"	2.63"	0.87"	1.89"	-	S5/8-18X1/2	30K	9
<b>B3006-25-3.50</b>	25mm	3.50"	2.44"	1.06"	2.36"	-	S3/4-16X11/16 (2)	30K	11

Note: Set Screws are included.

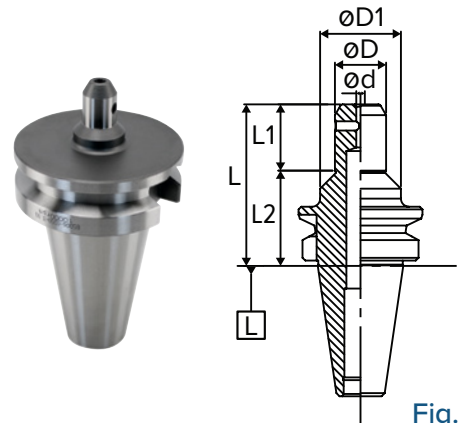


Fig. 8

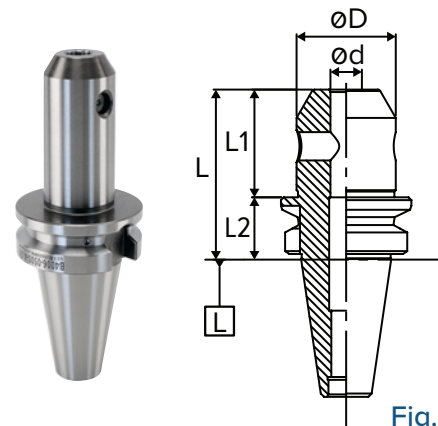


Fig. 9

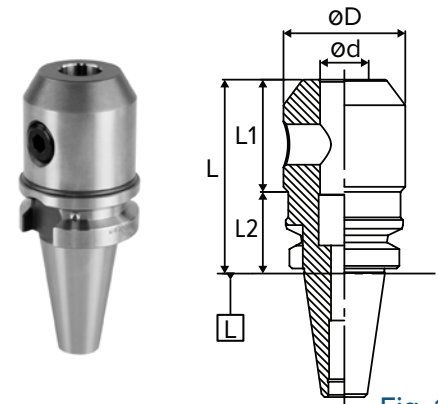


Fig. 10



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# END MILL HOLDERS



## BT END MILL HOLDERS

### BT40 - INCH

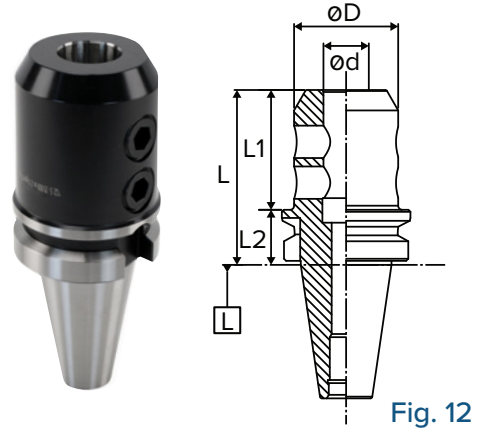
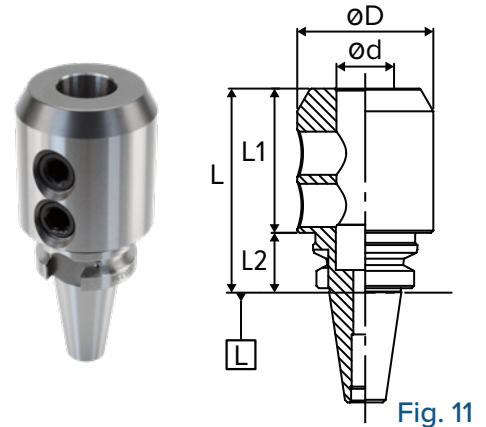
Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
B4006-0125-1.38	1/8"	1.38"	0.32"	1.07"	0.75"	-	S6-32X1/4	25K	9
B4006-0125-2.36	1/8"	2.36"	0.98"	1.38"	0.75"	1.75"	S6-32X1/4	25K	8
B4006-0125-4.00	1/8"	4.00"	2.94"	1.06"	0.75"	-	S6-32X1/4	25K	9
B4006-0187-2.50	3/16"	2.50"	1.12"	1.38"	0.75"	1.75"	S8-32X1/4	25K	8
B4006-0187-4.00	3/16"	4.00"	2.94"	1.06"	0.75"	-	S8-32X1/4	25K	9
B4006-0250-1.38	1/4"	1.38"	0.32"	1.07"	0.79"	-	S1/4-28X1/4	25K	9
B4006-0250-2.50	1/4"	2.50"	1.12"	1.38"	0.79"	1.75"	S1/4-28X1/4	25K	8
B4006-0250-4.00	1/4"	4.00"	2.62"	1.38"	0.79"	1.75"	S1/4-28X1/4	25K	8
B4006-0312-2.50	5/16"	2.50"	0.97"	1.53"	0.87"	1.18"	S5/16-24X1/4	25K	8
B4016-0312-4.00	5/16"	4.00"	2.94"	1.06"	0.87"	-	S5/16-24X1/4	25K	9
B4006-0375-2.50	3/8"	2.50"	1.12"	1.38"	1.00"	1.75"	S3/8-24x5/16	25K	8
B4006-0375-4.00	3/8"	4.00"	2.96"	1.04"	1.00"	-	S3/8-24x5/16	25K	9
B4006-0437-2.50	7/16"	2.50"	1.44"	1.06"	1.38"	-	S7/16-20X3/8	25K	9
B4006-0500-1.75	1/2"	1.75"	0.69"	1.06"	1.38"	-	S7/16-20X3/8	25K	9
B4006-0500-2.50	1/2"	2.50"	1.44"	1.06"	1.38"	-	S7/16-20X3/8	25K	9
B4006-0500-4.00	1/2"	4.00"	2.94"	1.06"	1.38"	-	S7/16-20X3/8	25K	9
B4006-0625-1.75	5/8"	1.75"	0.69"	1.06"	1.65"	-	S9/16-18X1/2	25K	9
B4006-0625-2.50	5/8"	2.50"	1.44"	1.06"	1.65"	-	S9/16-18X1/2	25K	9
B4006-0625-4.00	5/8"	4.00"	2.94"	1.06"	1.65"	-	S9/16-18X1/2	25K	9
B4006-0750-1.75	3/4"	1.75"	0.69"	1.06"	1.89"	-	S5/8-18X1/2	25K	9
B4006-0750-2.50	3/4"	2.50"	1.44"	1.06"	1.89"	-	S5/8-18X1/2	25K	9
B4006-0750-4.00	3/4"	4.00"	2.94"	1.06"	1.89"	-	S5/8-18X1/2	25K	9
B4006-0875-3.38	7/8"	3.38"	2.31"	1.07"	2.01"	-	S5/8-18X1/2 (2)	25K	12
B4006-1000-2.00	1"	2.00"	0.94"	1.06"	2.25"	-	S3/4-16X11/16	25K	9
B4006-1000-3.56	1"	3.54"	2.50"	1.04"	2.36"	-	S3/4-16X11/16 (2)	25K	12
B4006-1250-2.00	1-1/4"	2.00"	0.94"	1.06"	2.25"	-	S3/4-16X11/16	25K	9
B4006-1250-3.56	1-1/4"	3.54"	2.50"	1.04"	2.48"	-	S3/4-16X11/16 (2)	25K	12
B4006-1500-4.50	1-1/2"	4.50"	3.44"	1.06"	3.00"	-	S3/4-16X11/16 (2)	25K	12

Note: Set Screws are included.

### BT40 - METRIC

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
B4006-6-2.50	6mm	2.50"	1.00"	1.50"	0.79"	1.18"	S1/4-28X1/4	25K	8
B4006-8-2.50	8mm	2.50"	1.00"	1.50"	0.87"	1.18"	S5/16-24X1/4	25K	8
B4006-10-2.50	10mm	2.50"	1.00"	1.50"	1.00"	1.18"	S3/8-24x5/16	25K	8
B4006-12-2.50	12mm	2.50"	1.44"	1.06"	1.38"	-	S7/16-20X3/8	25K	9
B4006-14-2.50	14mm	2.50"	1.44"	1.06"	1.65"	-	S9/16-18X1/2	25K	9
B4006-16-2.50	16mm	2.50"	1.44"	1.06"	1.65"	-	S9/16-18X1/2	25K	9
B4006-18-2.50	18mm	2.50"	1.44"	1.06"	1.89"	-	S5/8-18X1/2	25K	9
B4006-20-2.50	20mm	2.50"	1.44"	1.06"	1.89"	-	S5/8-18X1/2	25K	9
B4006-25-3.56	25mm	3.56"	2.50"	1.06"	2.36"	-	S3/4-16X11/16 (2)	25K	12
B4006-32-3.56	32mm	3.56"	2.50"	1.06"	2.48"	-	S3/4-16X11/16 (2)	25K	12

Note: Set Screws are included.



## BT END MILL HOLDERS

### BT50 - INCH

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
<b>B5006-0250-3.00</b>	1/4"	3.00"	0.76"	2.24"	0.79"	1.18"	S1/4-28X1/4	25K	8
<b>B5006-0250-6.00</b>	1/4"	6.00"	1.21"	4.79"	0.79"	1.18"	S1/4-28X1/4	25K	8
<b>B5006-0375-2.75</b>	3/8"	2.75"	1.26"	1.49"	1.00"	-	S3/8-24X5/16	25K	9
<b>B5006-0375-6.00</b>	3/8"	6.00"	4.50"	1.50"	1.00"	-	S3/8-24X5/16	25K	9
<b>B5006-0500-3.00</b>	1/2"	3.00"	1.50"	1.50"	1.38"	-	S7/16-20X3/8	25K	9
<b>B5006-0500-6.00</b>	1/2"	6.00"	4.50"	1.50"	1.38"	-	S7/16-20X3/8	25K	9
<b>B5006-0625-3.00</b>	5/8"	3.00"	1.50"	1.50"	1.65"	-	S9/16-18X1/2	25K	9
<b>B5006-0750-3.00</b>	3/4"	3.00"	1.50"	1.50"	1.89"	-	S5/8-18X1/2	25K	9
<b>B5006-0750-6.00</b>	3/4"	6.00"	4.50"	1.50"	1.89"	-	S5/8-18X1/2	25K	9
<b>B5006-1000-4.00</b>	1"	4.00"	2.50"	1.50"	2.36"	-	S3/4-16X11/16 (2)	25K	12
<b>B5006-1000-6.00</b>	1"	6.00"	4.50"	1.50"	2.36"	-	S3/4-16X11/16 (2)	25K	12
<b>B5006-1250-4.00</b>	1-1/4"	4.00"	2.50"	1.50"	2.48"	-	S3/4-16X11/16 (2)	25K	12
<b>B5006-1250-6.00</b>	1-1/4"	6.00"	4.50"	1.50"	2.48"	-	S3/4-16X11/16 (2)	25K	12
<b>B5006-1500-4.50</b>	1-1/2"	4.50"	3.00"	1.50"	3.00"	-	S3/4-16X11/16 (2)	25K	12
<b>B5006-2000-5.00</b>	2"	5.00"	3.00"	2.00"	3.74"	-	S1-14X5/8 (2)	25K	12

Note: Set Screws are included.

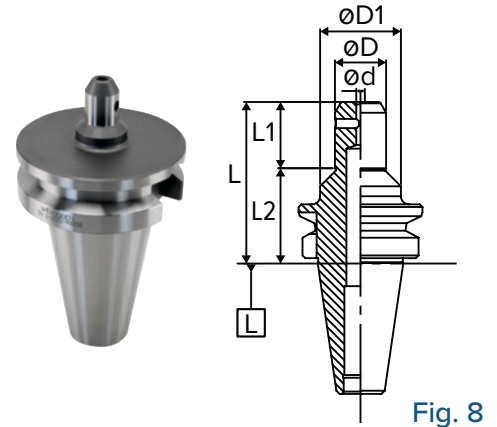


Fig. 8

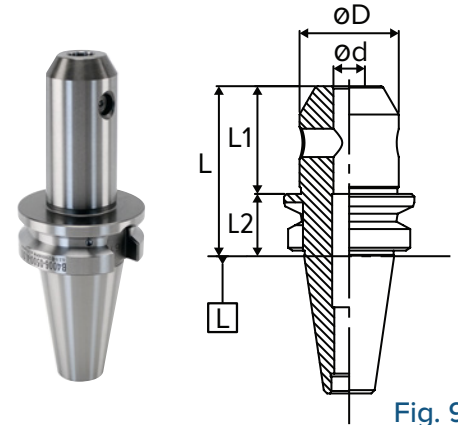


Fig. 9

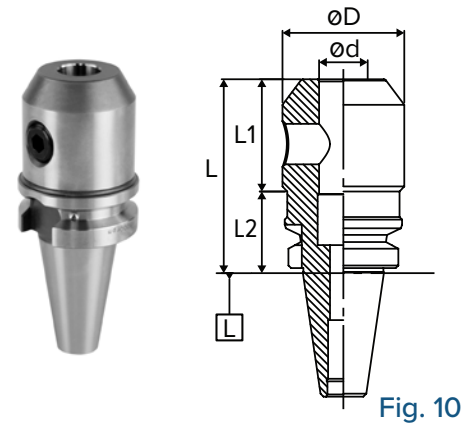


Fig. 10

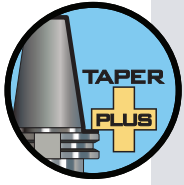




# END MILL HOLDERS

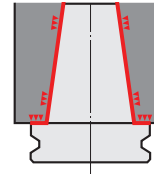


## TAPER PLUS BT END MILL HOLDERS



### Taper Plus (Dual Contact) Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - NBT30 - INCH

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
NB3006-0125-2.36CP	1/8"	2.36"	1.00"	1.36"	0.75"	1.18"	S6-32X1/4	30K	8
NB3006-0187-2.36CP	3/16"	2.36"	1.00"	1.36"	0.75"	1.26"	S8-32X1/4	30K	8
NB3006-0250-2.36CP	1/4"	2.36"	1.00"	1.36"	0.79"	1.18"	S1/4-28X1/4	30K	8
NB3006-0312-2.36CP	5/16"	2.36"	1.00"	1.36"	0.87"	1.38"	S5/16-24X1/4	30K	8
NB3006-0375-2.36CP	3/8"	2.36"	1.00"	1.36"	1.00"	1.18"	S3/8-24x5/16	30K	8
NB3006-0500-2.36CP	1/2"	2.36"	1.50"	0.86"	1.38"	-	S7/16-20x3/8	30K	9
NB3006-0625-2.50CP	5/8"	2.50"	1.63"	0.87"	1.65"	-	S9/16-18X1/2	30K	9
NB3006-0750-3.00CP	3/4"	3.00"	1.73"	1.27"	1.88"	-	S5/8-18x1/2	30K	10
NB3006-1000-3.54CP	1"	3.54"	2.44"	1.10"	2.36"	-	S3/4-16X11/16(2)	30K	11

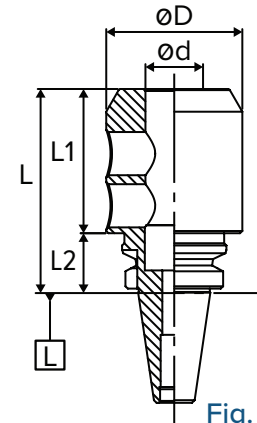


Fig. 11

### TAPER PLUS - NBT40 - INCH

Part Number	Ød	L	L1	L2	D	Set Screw Part Number	Max. RPM	Fig.
NB4006-0500-4.00CP	1/2"	4.00"	2.94"	1.06"	1.38"	S7/16-20x3/8	25K	9
NB4006-1250-3.56CP	1-1/4"	3.54"	2.50"	1.04"	2.48"	S3/4-16X11/16 (2)	25K	12

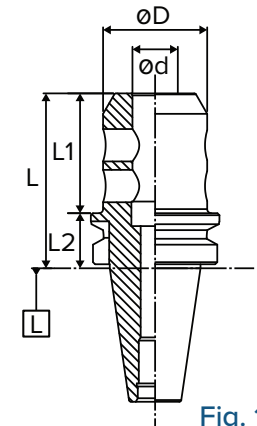


Fig. 12



Set Screws  
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Retention  
Knobs  
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Tool  
Clampers  
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## POLYGONAL TAPER END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- Through-spindle coolant capability
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore



**Coolant-Thru**



**Speed**  
Up to 30,000 RPM @ G2.5



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### C4/C5/C6/C8 - INCH

Part Number	Ød	L	L1	D	Set Screw Part Number	Max. RPM	Fig.
C4-EM0250-50	1/4"	1.97"	1.18"	0.79"	S1/4-28X1/4	25K	13
C4-EM0375-50	3/8"	1.97"	1.18"	1.00"	S3/8-24X5/16	25K	13
C4-EM0500-55	1/2"	2.17"	1.38"	1.38"	S7/16-20X3/8	25K	13
C4-EM0625-55	5/8"	2.17"	1.38"	1.65"	S9/16-18X1/2	25K	13
C5-EM0250-50	1/4"	1.97"	1.18"	0.79"	S1/4-28XS1/4	25K	13
C5-EM0375-55	3/8"	2.17"	1.38"	1.00"	S3/8-24X5/16	25K	13
C5-EM0500-60	1/2"	2.36"	1.58"	1.38"	S7/16-20X3/8	25K	13
C5-EM0625-60	5/8"	2.36"	1.58"	1.65"	S9/16-18X1/2	25K	13
C5-EM0750-60	3/4"	2.36"	1.57"	1.89"	S5/8-18X1/2	25K	13
C5-EM1000-80	1"	3.15"	2.36"	2.36"	S3/4-16X11/16(2)	25K	14
C6-EM0250-55	1/4"	2.17"	1.30"	0.79"	S1/4-28X1/4	25K	13
C6-EM0375-60	3/8"	2.36"	1.50"	1.00"	S3/8-24X5/16	25K	13
C6-EM0500-60	1/2"	2.36"	1.50"	1.38"	S7/16-20X3/8	25K	13
C6-EM0625-65	5/8"	2.56"	1.69"	1.65"	S9/16-18X1/2	25K	13
C6-EM0750-65	3/4"	2.56"	1.69"	1.89"	S5/8-18X1/2	25K	13
C6-EM1000-80	1"	3.15"	2.28"	2.36"	S3/4-16X11/16(2)	25K	14
C6-EM1250-90	1-1/4"	3.54"	-	2.48"	S3/4-16X11/16(2)	25K	15
C8-EM0250-70	1/4"	2.76"	1.58"	0.79"	S1/4-28X1/4	25K	13
C8-EM0375-70	3/8"	2.76"	1.58"	1.00"	S3/8-24X5/16	25K	13
C8-EM0500-70	1/2"	2.76"	1.58"	1.38"	S7/16-20X3/8	25K	13
C8-EM0625-70	5/8"	2.76"	1.58"	1.65"	S9/16-18X1/2	25K	13
C8-EM0750-70	3/4"	2.76"	1.58"	1.89"	S5/8-18X1/2	25K	13
C8-EM1000-80	1"	3.15"	1.97"	2.36"	S3/4-16X11/16	25K	13
C8-EM1250-80	1-1/4"	3.15"	1.97"	2.48"	S3/4-16X11/16	25K	13

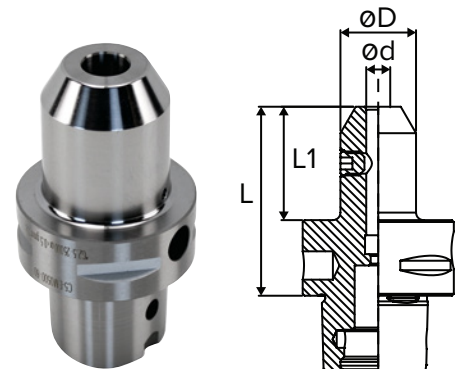


Fig. 13

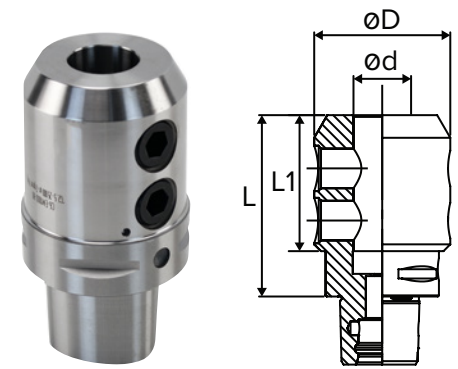


Fig. 14

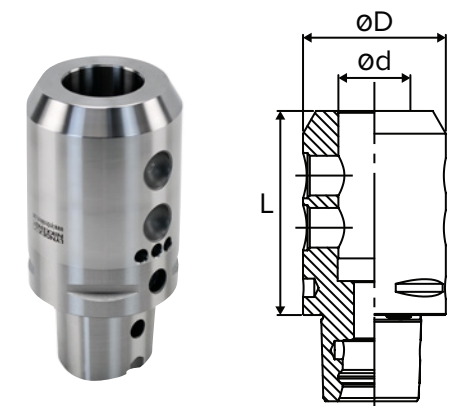


Fig. 15



Set Screws  
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# END MILL HOLDERS



## HSK END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- Through-spindle coolant capability
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore



**Coolant-Thru**



**Speed**  
Up to 25,000 RPM @ G2.5



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK63A

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
HSK63A-0187-3.00	3/16"	3.00"	1.58"	1.42"	0.75"	1.58"	S8-32X1/4	25K	16
HSK63A-0187-5.00	3/16"	5.00"	3.58"	1.42"	0.75"	1.58"	S8-32X1/4	25K	16
HSK63A-0250-3.00	1/4"	3.00"	1.58"	1.42"	0.79"	1.58"	S1/4-28X1/4	25K	16
HSK63A-0250-5.00	1/4"	5.00"	3.58"	1.42"	0.79"	1.58"	S1/4-28X1/4	25K	16
HSK63A-0312-3.00	5/16"	3.00"	1.98"	1.02"	0.87"	-	S5/16-24X1/4	25K	17
HSK63A-0312-5.00	5/16"	5.00"	3.98"	1.02"	0.87"	-	S5/16-24X1/4	25K	17
HSK63A-0375-3.50	3/8"	3.50"	2.48"	1.02"	1.00"	-	S3/8-24X5/16	25K	17
HSK63A-0375-5.00	3/8"	5.00"	3.98"	1.02"	1.00"	-	S3/8-24X5/16	25K	17
HSK63A-0437-4.00	7/16"	4.00"	2.98"	1.02"	1.38"	-	S7/16-20X3/8	25K	17
HSK63A-0437-5.00	7/16"	5.00"	3.98"	1.02"	1.38"	-	S7/16-20X3/8	25K	17
HSK63A-0500-4.00	1/2"	4.00"	2.98"	1.02"	1.38"	-	S7/16-20X3/8	25K	17
HSK63A-0500-5.00	1/2"	5.00"	3.98"	1.02"	1.38"	-	S7/16-20X3/8	25K	17
HSK63A-0625-4.00	5/8"	4.00"	2.98"	1.02"	1.65"	-	S9/16-18X1/2	25K	17
HSK63A-0625-5.00	5/8"	5.00"	3.98"	1.02"	1.65"	-	S9/16-18X1/2	25K	17
HSK63A-0750-4.50	3/4"	4.50"	3.48"	1.02"	1.89"	-	S5/8-18X1/2	25K	17
HSK63A-0750-6.00	3/4"	6.00"	4.98"	1.02"	1.89"	-	S5/8-18X1/2	25K	17
HSK63A-1000-4.50	1"	4.50"	2.85"	1.65"	2.36"	-	S3/4-16X11/16 (2)	25K	18
HSK63A-1000-6.00	1"	6.00"	4.35"	1.65"	2.36"	-	S3/4-16X11/16 (2)	25K	18
HSK63A-1250-4.50	1-1/4"	4.50"	2.85"	1.65"	2.48"	-	S3/4-16X11/16 (2)	25K	18
HSK63A-1250-6.00	1-1/4"	6.00"	4.35"	1.65"	2.48"	-	S3/4-16X11/16 (2)	25K	18

**Note:**

- Set Screws are included.
- Coolant tube and coolant tube wrench are sold separately.

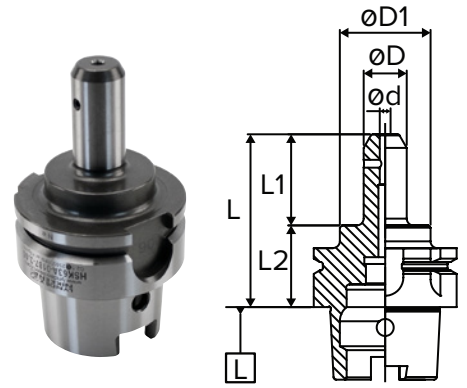


Fig. 16

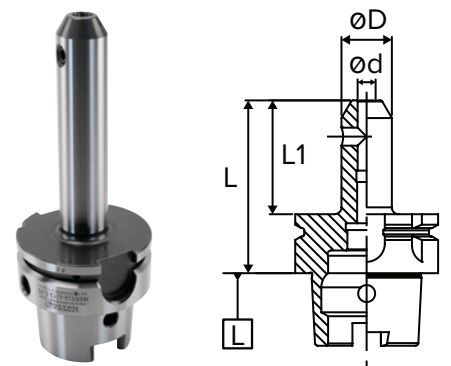


Fig. 17

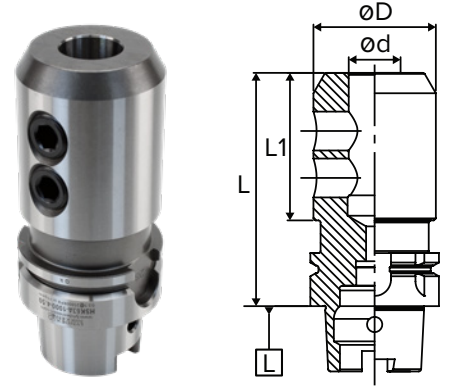
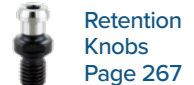


Fig. 18



## HSK END MILL HOLDERS

### HSK100A

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Max. RPM	Fig.
HSK100A-0250-4.00	1/4"	4.00"	2.47"	1.54"	0.79"	1.58"	S1/4-28X1/4	25K	19
HSK100A-0250-6.00	1/4"	6.00"	4.47"	1.54"	0.79"	1.58"	S1/4-28X1/4	25K	19
HSK100A-0312-4.00	5/16"	4.00"	2.47"	1.54"	0.87"	1.58"	S5/16-24X1/4	25K	19
HSK100A-0312-6.00	5/16"	6.00"	4.47"	1.54"	0.87"	1.58"	S5/16-24X1/4	25K	19
HSK100A-0375-4.00	3/8"	4.00"	2.47"	1.54"	1.00"	1.58"	S3/8-24X5/16	25K	19
HSK100A-0375-6.00	3/8"	6.00"	4.47"	1.54"	1.00"	1.58"	S3/8-24X5/16	25K	19
HSK100A-0437-4.00	7/16"	4.00"	1.38"	2.62"	1.38"	-	S7/16-20X3/8	25K	17
HSK100A-0437-6.00	7/16"	6.00"	4.86"	1.14"	1.38"	-	S7/16-20X3/8	25K	17
HSK100A-0500-4.00	1/2"	4.00"	2.86"	1.14"	1.38"	-	S7/16-20X3/8	25K	17
HSK100A-0500-6.00	1/2"	6.00"	4.86"	1.14"	1.38"	-	S7/16-20X3/8	25K	17
HSK100A-0625-4.00	5/8"	4.00"	2.86"	1.14"	1.65"	-	S9/16-18X1/2	25K	17
HSK100A-0625-6.00	5/8"	6.00"	4.86"	1.14"	1.65"	-	S9/16-18X1/2	25K	17
HSK100A-0750-4.00	3/4"	4.00"	2.86"	1.14"	1.89"	-	S5/8-18X1/2	25K	17
HSK100A-0750-6.00	3/4"	6.00"	4.86"	1.14"	1.89"	-	S5/8-18X1/2	25K	17
HSK100A-1000-4.00	1"	4.00"	2.86"	1.14"	2.36"	-	S3/4-16X11/16 (2)	25K	20
HSK100A-1000-6.00	1"	6.00"	4.86"	1.14"	2.36"	-	S3/4-16X11/16 (2)	25K	20
HSK100A-1250-4.00	1-1/4"	4.00"	2.86"	1.14"	2.48"	-	S3/4-16X11/16 (2)	25K	20
HSK100A-1250-6.00	1-1/4"	6.00"	4.86"	1.14"	2.48"	-	S3/4-16X11/16 (2)	25K	20
HSK100A-1500-4.00	1-1/2"	4.00"	2.86"	1.14"	2.99"	-	S3/4-16X11/16 (2)	25K	17
HSK100A-1500-6.00	1-1/2"	6.00"	4.86"	1.14"	2.99"	-	S3/4-16X11/16 (2)	25K	20

**Note:**

- Set Screws are included.
- Coolant tube and coolant tube wrench are sold separately.

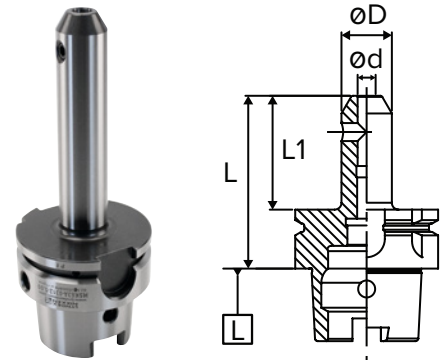


Fig. 17

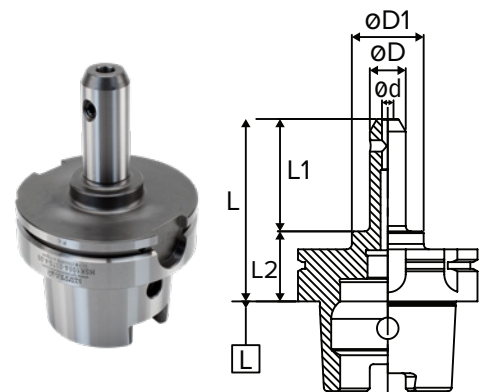


Fig. 19

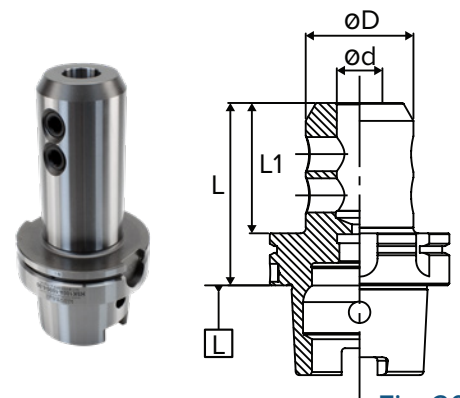


Fig. 20



# END MILL HOLDERS



## NMTB END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### NMTB30

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Fig.
N3006-0125-1.75	1/8"	1.75"	1.00"	0.75"	0.75"	1.18"	S6-32X1/4	21
N3006-0250-1.75	1/4"	1.75"	1.03"	0.72"	0.79"	1.18"	S1/4-28X1/4	21
N3006-0375-1.75	3/8"	1.75"	1.00"	0.75"	1.00"	1.18"	S3/8-24X5/16	21
N3006-0500-1.75	1/2"	1.75"	1.33"	0.42"	1.38"	-	S7/16-20X3/8	22
N3006-0625-1.75	5/8"	1.75"	1.33"	0.42"	1.44"	-	S9/16-18X1/2	22
N3006-0750-2.25	3/4"	2.25"	1.44"	0.82"	1.89"	-	S5/8-18X1/2	23
N3006-0875-2.50	7/8"	2.50"	1.69"	0.82"	2.01"	-	S5/8-18X1/2	23
N3006-1000-2.69	1"	2.63"	1.87"	0.76"	2.36"	-	S3/4-16X11/16	23
N3006-1250-3.62	1-1/4"	3.54"	2.81"	0.73"	2.48"	-	S3/4-16X11/16 (2)	24

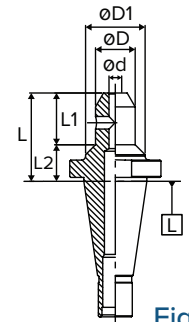


Fig. 21

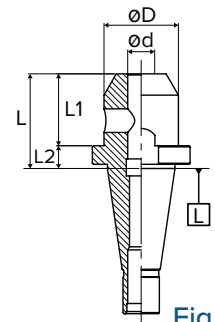


Fig. 22

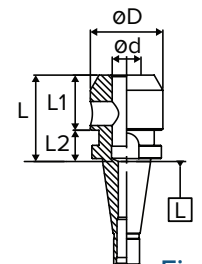


Fig. 23

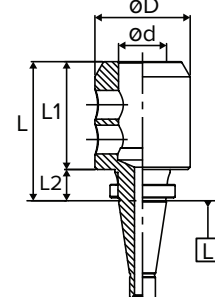


Fig. 24

### NMTB40

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Fig.
N4006-0125-2.31	1/8"	2.31"	1.00"	1.31"	0.75"	1.18"	S6-32X1/4	21
N4006-0187-2.31	1/8"	2.31"	1.00"	1.31"	0.75"	1.18"	S8-32X1/4	21
N4006-0250-2.31	1/4"	2.31"	1.00"	1.31"	0.79"	1.18"	S1/4-28X1/4	21
N4006-0312-2.31	5/16"	2.31"	1.00"	1.31"	0.87"	1.18"	S5/16-24X1/4	21
N4006-0375-2.31	3/8"	2.31"	1.00"	1.31"	1.00"	1.18"	S3/8-24X5/16	21
N4006-0437-2.31	7/16"	2.31"	1.92"	0.39"	1.38"	-	S7/16-20X3/8	22
N4006-0500-2.31	1/2"	2.31"	1.92"	0.39"	1.38"	-	S7/16-20X3/8	22
N4006-0625-2.31	5/8"	2.31"	1.92"	0.39"	1.65"	-	S9/16-18X1/2	22
N4006-0750-2.31	3/4"	2.31"	1.92"	0.39"	1.89"	-	S5/8-18X1/2	22
N4006-0875-2.94	7/8"	2.95"	2.13"	0.82"	2.01"	-	S5/8-18X1/2 (2)	24
N4006-1000-3.37	1"	3.37"	2.57"	0.80"	2.36"	-	S3/4-16X11/16 (2)	24
N4006-1250-3.69	1-1/4"	3.69"	2.89"	0.81"	2.48"	-	S3/4-16X11/16 (2)	24

**Note:**

- Set Screws are included.
- NMTB shanks are suitable for use with Erickson Quick Change spindles.



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## R8 & STRAIGHT SHANK END MILL HOLDERS

### FEATURES

- End mill ID bore T.I.R. < 0.0002"
- AT3 or better taper



**T.I.R.**  
< 0.0002" in ID bore

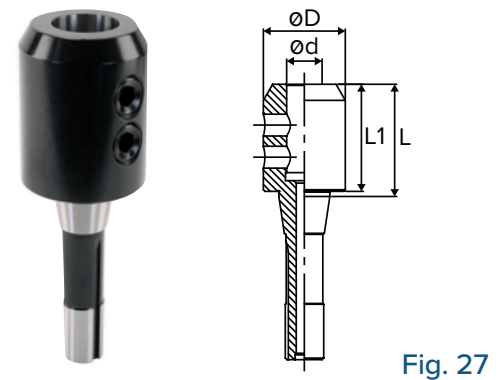
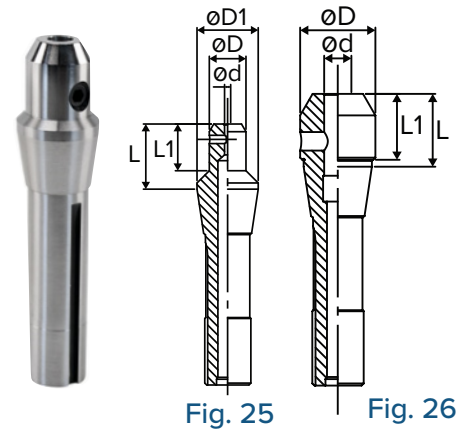


Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### R8

Part Number	Ød	L	L1	D	D1	Set Screw Part Number	Fig.
830-008-1.33	1/8"	1.33"	0.95"	0.75"	1.25"	S6-32X1/4	25
830-012-1.33	3/16"	1.33"	0.95"	0.75"	1.25"	S8-32X1/4	25
830-016-1.33	1/4"	1.33"	0.97"	0.79"	1.25"	S1/4-28X1/4	25
830-020-1.33	5/16"	1.33"	1.02"	0.87"	1.25"	S5/16-24X1/4	25
830-024-1.33	3/8"	1.33"	1.08"	1.00"	1.25"	S3/8-24X5/16	25
830-028-1.33	7/16"	1.33"	1.21"	1.38"	-	S7/16-20X3/8	26
830-032-1.33	1/2"	1.33"	1.21"	1.38"	-	S7/16-20X3/8	26
830-040-1.50	5/8"	1.50"	1.37"	1.65"	-	S9/16-18X1/2	26
830-048-2.37	3/4"	2.37"	2.24"	1.89"	-	S5/8-18X1/2	26
830-056-2.75	7/8"	2.75"	2.62"	2.01"	-	S5/8-18X1/2 (2)	27
830-064-3.25	1"	3.25"	3.12"	2.36"	-	S3/4-16X11/16 (2)	27
830-080-3.25	1-1/4"	3.25"	3.12"	2.48"	-	S3/4-16X11/16 (2)	27
830-096-3.75	1-1/2"	3.75"	3.62"	2.99"	-	S3/4-16X11/16 (2)	27

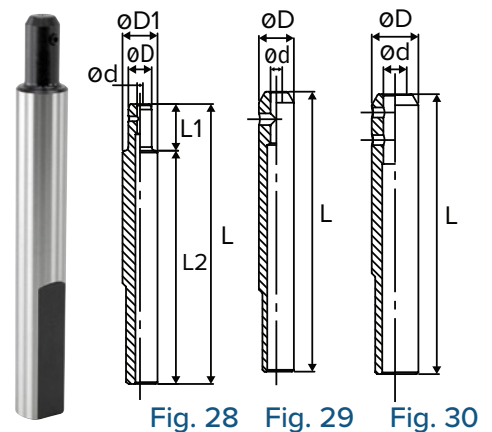
Note: Set Screws are included.



### STRAIGHT SHANK

Part Number	Ød	L	L1	L2	D	D1	Set Screw Part Number	Fig.
S7506-0125-6.00	1/8"	6.00"	1.00"	5.00"	0.50"	0.75"	S6-32X1/4	28
S7506-0187-6.00	3/16"	6.00"	-	-	0.75"	-	S8-32X1/4	29
S7506-0250-6.00	1/4"	6.00"	-	-	0.75"	-	S1/4-28X1/4	29
S7506-0312-6.00	5/16"	6.00"	-	-	0.75"	-	S5/16-24X1/4	29
S1006-0375-6.00	3/8"	6.00"	-	-	1.00"	-	S3/8-24X5/16	29
S1006-0500-6.00	1/2"	6.00"	-	-	1.00"	-	S1/4-28x1/4 (2)	30

Note: Set Screws are included.



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# END MILL HOLDERS



## END MILL HOLDER ACCESSORIES

### REPLACEMENT SET SCREWS FOR END MILL HOLDERS

Part Number	Size of Holder Internal Diameter
S6-32X1/4	1/8"
S8-32X1/4	3/16"
S1/4-28x1/4	1/4", 6mm
S5/16-24X1/4	5/16", 8mm
S3/8-24X5/16	3/8", 10mm
S7/16-20X3/8	7/16", 1/2", 12mm
S9/16-18X1/2	5/8", 14-16mm
S5/8-18X1/2	3/4", 7/8", 18-20mm
S3/4-16X11/16	1", 1-1/4", 1-1/2", 25-42mm
S1-14x7/8	2", 2-1/2"



### COOLANT TUBE FOR HSK HOLDERS

Part Number	Description
HSK40-TUBE	HSK40 Coolant Tube
HSK63-TUBE	HSK63 Coolant Tube
HSK100-TUBE	HSK100 Coolant Tube
C4-TUBE	C4 Coolant Tube
C5-TUBE	C5 Coolant Tube
C6-TUBE	C6 Coolant Tube
C8-TUBE	C8 Coolant Tube



### COOLANT TUBE WRENCH FOR HSK HOLDERS

Part Number	Description
HSK40-WRENCH	Wrench for HSK40 Coolant Tube
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube
C4-WRENCH	Wrench for C4 Coolant Tube
C5-WRENCH	Wrench for C5 Coolant Tube
C6-WRENCH	Wrench for C6 Coolant Tube
C8-WRENCH	Wrench for C8 Coolant Tube

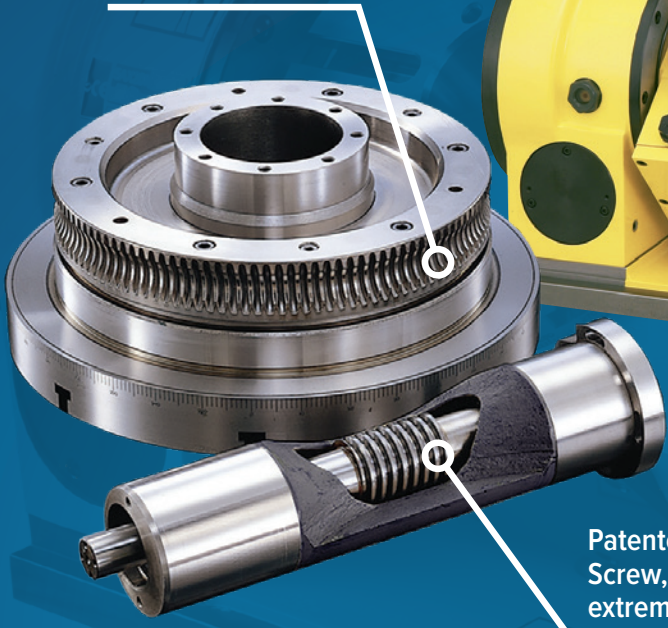


*Note: Coolant tube wrenches are needed to remove or install coolant tubes in HSK toolholders.*

# YOUR CNC ROTARY TABLE SOLUTION

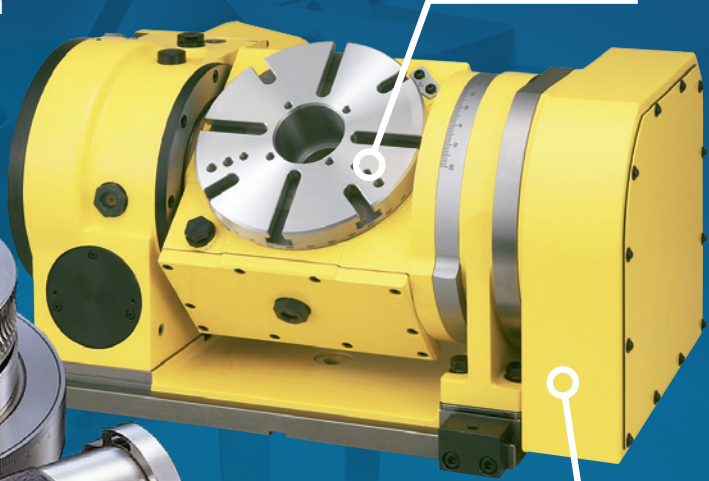
Heat Treated and Ion Nitrided Steel Worm Wheel greatly increases wear resistance and reduces backlash adjustment

Extreme rigidity, concentricity and precision with 4 arc second repeatability



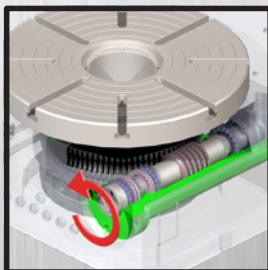
Patented Solid Carbide Worm Screw, thread ground for extreme accuracy and precision

Compact design to fit any CNC machining center



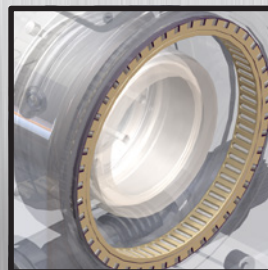
## REDUCED SETUPS, INCREASED PRODUCTIVITY, *PROFITS IN YOUR POCKET!*

### ROTARY TABLE FEATURES:



#### Unique Faceplate and Worm Wheel Assembly

- Unique shrunk fit worm wheel design onto solid faceplate and quill body for high precision concentricity
- Shorter distance from faceplate to gear allows for greater torsional forces to be sustained



#### Independent Tubular Thrust and Radial Bearings

- Custom paired and matched for every rotary table
- Provide vibration dampening and internal gear protection
- Extreme rigidity and concentric accuracy from needle roller bearings



# SHELL MILL HOLDERS



**SHELL MILL HOLDERS**



## SHELL MILL & FACE MILL HOLDER FEATURES

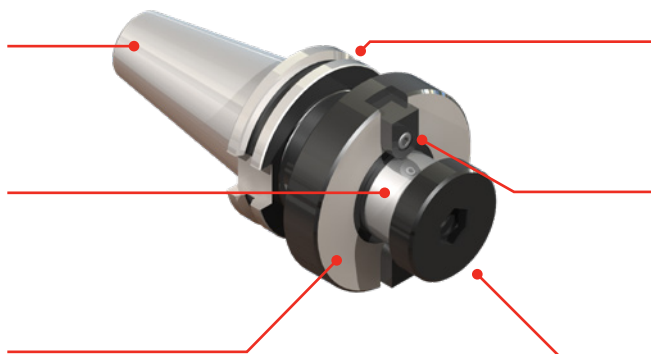
Our Shell Mill Holders are available in a wide variety of tapers and sizes, including CAT, BT, HSK, and R8. Both metric and inch sizes are available, accommodating face mills with pilot diameters ranging from 1/2" (12mm) to 2-1/2" (50mm).

### Shell Mill Holder

Taper ground to AT3 or better to ensure 80% taper contact

h6 precision ground pilot for concentric and repeatable mounting of shell mill

Surface ground to maintain .0002" perpendicularity to centerline ensuring flat engagement of shell mill

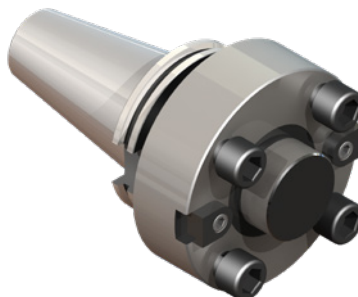


Made from low alloy steel SAE8620/20MnCr5

Keys included as standard for quick set up

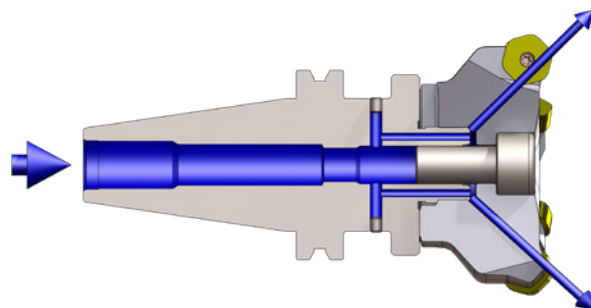
Heat-treated carbon steel nut prevents wear and increases clamping pressure

### Face Mill Holder



### Coolant-Thru Applications

#### For Coolant-Thru Shell Mills and Face Mills



Our shell mill and face mill holders come standard with coolant ports.

# SHELL MILL HOLDERS



## CAT SHELL MILL HOLDERS

- Accommodates face mills with pilot diameters ranging from 1/2" (12mm) to 2" (40mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper



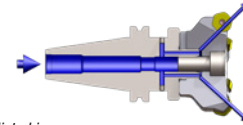
**T.I.R.**  
 <.0004" run out at pilot



**Coolant-Thru**  
 Thru-pilot (standard)



**Speed**  
 Up to 20,000 rpm



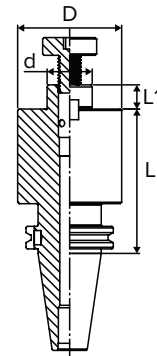
**MILLING**



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40 - INCH

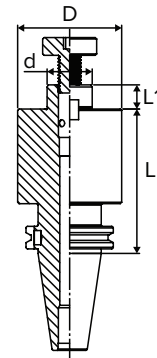
Part Number	d	L	D	L1	Key Size	Arbor Thread
C4001-0500-1.75CP	1/2"	1.75"	1.38"	0.57"	1/4"	1/4"-28
C4001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
C4001-0750-4.00CP	3/4"	4.00"	1.93"	0.67"	5/16"	3/8"-24
C4001-1000-1.75CP	1"	1.75"	2.38"	0.67"	3/8"	1/2"-20
C4001-1000-4.00CP	1"	4.00"	2.38"	0.67"	3/8"	1/2"-20
C4001-1250-2.00CP	1-1/4"	2.00"	2.88"	0.67"	1/2"	5/8"-18
C4001-1250-4.00CP	1-1/4"	4.00"	2.88"	0.67"	1/2"	5/8"-18
C4001-1500-2.00CP	1-1/2"	2.00"	2.88"	0.93"	5/8"	3/4"-16
C4001-1500-4.00CP	1-1/2"	4.00"	2.88"	0.93"	5/8"	3/4"-16



Available in **TAPER PLUS+**  
 Dual-taper and flange contact

### CAT50 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
C5001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
C5001-0750-4.00CP	3/4"	4.00"	1.93"	0.67"	5/16"	3/8"-24
C5001-0750-6.00CP	3/4"	6.00"	1.93"	0.67"	5/16"	3/8"-24
C5001-0750-8.00CP	3/4"	8.00"	1.93"	0.67"	5/16"	3/8"-24
C5001-1000-1.75CP	1"	1.75"	2.38"	0.69"	3/8"	1/2"-20
C5001-1000-4.00CP	1"	4.00"	2.38"	0.69"	3/8"	1/2"-20
C5001-1000-6.00CP	1"	6.00"	2.38"	0.69"	3/8"	1/2"-20
C5001-1000-8.00CP	1"	8.00"	2.38"	0.69"	3/8"	1/2"-20
C5001-1250-1.75CP	1-1/4"	1.75"	2.88"	0.69"	1/2"	5/8"-18
C5001-1250-4.00CP	1-1/4"	4.00"	2.88"	0.69"	1/2"	5/8"-18
C5001-1250-6.00CP	1-1/4"	6.00"	2.88"	0.69"	1/2"	5/8"-18
C5001-1250-8.00CP	1-1/4"	8.00"	2.88"	0.69"	1/2"	5/8"-18
C5001-1500-2.00CP	1-1/2"	2.00"	2.88"	0.93"	5/8"	3/4"-16
C5001-1500-4.00CP	1-1/2"	4.00"	2.88"	0.93"	5/8"	3/4"-16
C5001-1500-6.00CP	1-1/2"	6.00"	2.88"	0.93"	5/8"	3/4"-16
C5001-1500-8.00CP	1-1/2"	8.00"	2.88"	0.93"	5/8"	3/4"-16
C5001-2000-2.00CP	2"	2.00"	4.38"	0.93"	3/4"	1"-14
C5001-2000-4.00CP	2"	4.00"	4.38"	0.93"	3/4"	1"-14
C5001-2000-6.00CP	2"	6.00"	4.38"	0.93"	3/4"	1"-14



Available in **TAPER PLUS+**  
 Dual-taper and flange contact



Replacement Keys  
 Page 188

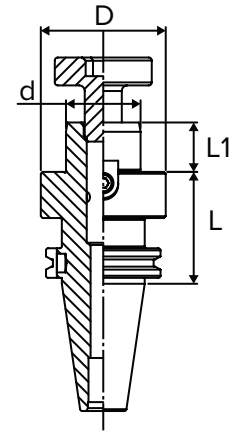


Replacement Arbor Screws  
 Page 188

## CAT SHELL/FACE MILL HOLDERS

### CAT40 - METRIC

Part Number	d	L	D	L1	Key Size	Arbor Thread
<b>C4001-22-50CP</b>	22mm	50mm	40mm	19mm	10mm	M10
<b>C4001-27-50CP</b>	27mm	50mm	48mm	21mm	12mm	M12
<b>C4001-32-50CP</b>	32mm	50mm	58mm	24mm	14mm	M16
<b>C4001-40-60CP</b>	40mm	60mm	67mm	27mm	16mm	M20



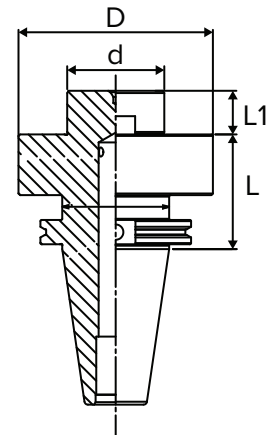
### CAT50 - METRIC

Part Number	d	L	D	L1	Key Size	Arbor Thread
<b>C5001-22-60CP</b>	22mm	60mm	40mm	19mm	10mm	M10
<b>C5001-27-60CP</b>	27mm	60mm	48mm	21mm	12mm	M12
<b>C5001-32-60CP</b>	32mm	60mm	58mm	24mm	14mm	M16
<b>C5001-40-60CP</b>	40mm	60mm	67mm	27mm	16mm	M20

### CAT50 - INCH FACE MILL HOLDERS

Part Number	d	L	D	L1	Key Size
<b>C50F1-2000-2.95CP</b>	2"	2.95"	5.06"	0.86"	3/4"
<b>C50F1-2500-2.95CP</b>	2-1/2"	2.95"	5.00"	1.14"	1"

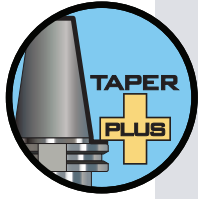
*Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".*



# SHELL MILL HOLDERS

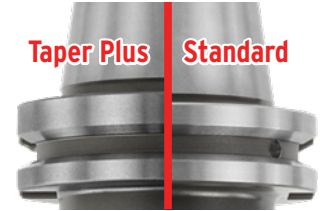
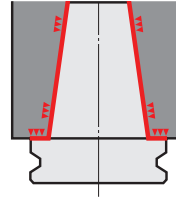


## TAPER PLUS CAT - SHELL MILL HOLDERS



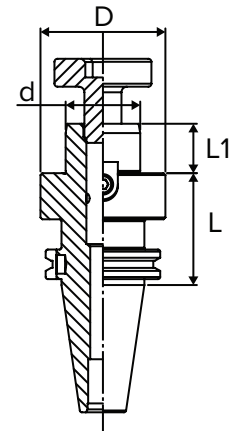
### Taper Plus Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



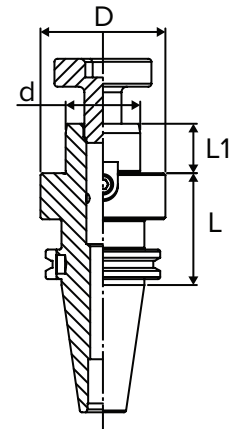
### TAPER PLUS - CAT40 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
NC4001-0500-1.75CP	1/2"	1.75"	1.38"	0.57"	1/4"	1/4"-28
NC4001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
NC4001-0750-4.00CP	3/4"	4.00"	1.93"	0.67"	5/16"	3/8"-24
NC4001-1000-1.75CP	1"	1.75"	2.39"	0.67"	3/8"	1/2"-20
NC4001-1000-4.00CP	1"	4.00"	2.39"	0.67"	3/8"	1/2"-20
NC4001-1250-2.00CP	1-1/4"	2.00"	2.89"	0.67"	1/2"	5/8"-18
NC4001-1250-4.00CP	1-1/4"	4.00"	2.89"	0.67"	1/2"	5/8"-18
NC4001-1500-2.00CP	1-1/2"	2.00"	3.80"	0.93"	5/8"	3/4"-16



### TAPER PLUS - CAT50 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
NC5001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
NC5001-0750-4.00CP	3/4"	4.00"	1.93"	0.67"	5/16"	3/8"-24
NC5001-0750-6.00CP	3/4"	6.00"	1.93"	0.67"	5/16"	3/8"-24
NC5001-0750-8.00CP	3/4"	8.00"	1.93"	0.67"	5/16"	3/8"-24
NC5001-1000-1.75CP	1"	1.75"	2.39"	0.69"	3/8"	1/2"-20
NC5001-1000-4.00CP	1"	4.00"	2.39"	0.69"	3/8"	1/2"-20
NC5001-1000-6.00CP	1"	6.00"	2.39"	0.69"	3/8"	1/2"-20
NC5001-1000-8.00CP	1"	8.00"	2.39"	0.69"	3/8"	1/2"-20
NC5001-1250-1.75CP	1-1/4"	1.75"	2.89"	0.69"	1/2"	5/8"-18
NC5001-1250-6.00CP	1-1/4"	6.00"	3.80"	0.69"	1/2"	5/8"-18
NC5001-1250-8.00CP	1-1/4"	8.00"	3.80"	0.69"	1/2"	5/8"-18
NC5001-1500-2.00CP	1-1/2"	2.00"	3.80"	0.93"	5/8"	3/4"-16
NC5001-1500-4.00CP	1-1/2"	4.00"	3.80"	0.93"	5/8"	3/4"-16
NC5001-1500-6.00CP	1-1/2"	6.00"	3.80"	0.93"	5/8"	3/4"-16
NC5001-1500-8.00CP	1-1/2"	8.00"	3.80"	0.93"	5/8"	3/4"-16
NC5001-2000-2.00CP	2"	2.00"	4.39"	0.93"	3/4"	1"-14

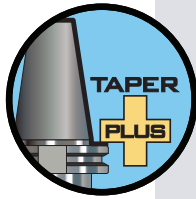


Replacement Keys  
Page 188



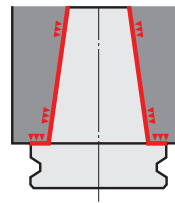
Replacement Arbor Screws  
Page 188

## TAPER PLUS CAT - FACE/SHELL MILL HOLDERS



### Taper Plus Advantages

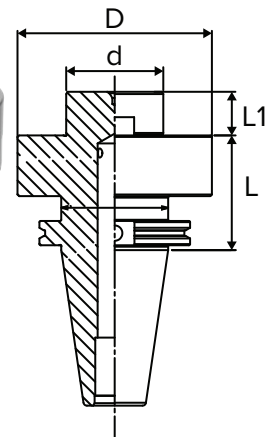
- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - CAT50 - INCH FACE MILL HOLDERS

Part Number	d	L	D	Key Size
NC50F1-2000-4.00CP	2"	4.00"	5.06"	3/4"
NC50F1-2500-2.95CP	2-1/2"	2.95"	5.00"	1"

Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



### TAPER PLUS - CAT50 - METRIC

Part Number	d	L	D	L1	Key Size	Arbor Thread
NC5001-22-60CP	22mm	60mm	40mm	19mm	10mm	M10
NC5001-27-60CP	27mm	60mm	48mm	21mm	12mm	M12
NC5001-32-60CP	32mm	60mm	58mm	24mm	14mm	M16
NC5001-40-60CP	40mm	60mm	67mm	27mm	16mm	M20



# SHELL MILL HOLDERS



## BT SHELL MILL HOLDERS

- Accommodates face mills with pilot diameters ranging from 1/2" (12mm) to 1-1/2" (40mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper



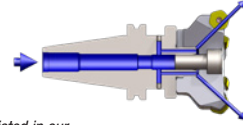
**T.I.R.**  
<.0004" run out at pilot



**Coolant-Thru**  
Thru-pilot (standard)



**Speed**  
Up to 20,000 rpm



**MILLING**



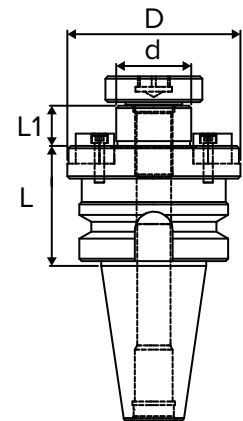
Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
B3001-0500-1.19CP	1/2"	1.19"	1.38"	0.57"	1/4"	1/4"-28
B3001-0750-1.19CP	3/4"	1.19"	2.00"	0.67"	5/16"	3/8"-24
B3001-1000-1.19CP	1"	1.19"	2.38"	0.67"	3/8"	1/2"-20



Available in **TAPER PLUS+**  
Dual-taper and flange contact



### BT40 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
B4001-0500-1.75CP	1/2"	1.75"	1.38"	0.57"	1/4"	1/4"-28
B4001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
B4001-1000-1.75CP	1"	1.75"	2.38"	0.67"	3/8"	1/2"-20
B4001-1500-2.00CP	1-1/2"	2.00"	3.80"	0.92"	5/8"	3/4"-16

### BT40 - METRIC

Part Number	d	L	D	L1	Key Size	Arbor Thread
B4001-22-50	22mm	50mm	40mm	19mm	10mm	M10
B4001-27-50	27mm	50mm	48mm	21mm	12mm	M12
B4001-32-50	32mm	50mm	58mm	24mm	14mm	M16
B4001-40-60	40mm	60mm	67mm	27mm	16mm	M20



Replacement Keys  
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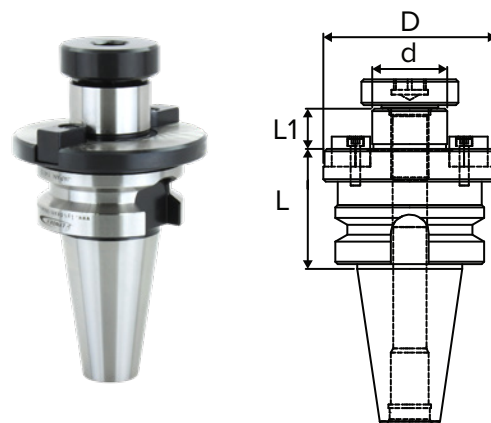


Replacement Arbor Screws  
Page 188

## BT SHELL/FACE MILL HOLDERS

### BT50 - INCH

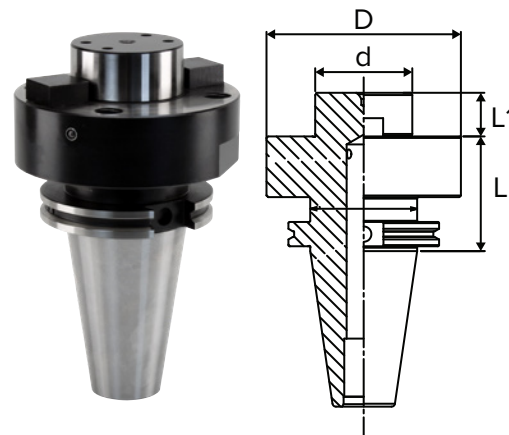
Part Number	d	L	D	L1	Key Size	Arbor Thread
B5001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
B5001-1000-1.75CP	1"	1.75"	2.38"	0.68"	3/8"	1/2"-20
B5001-1000-4.00CP	1"	4.00"	2.38"	0.69"	3/8"	1/2"-20
B5001-1000-6.00CP	1"	6.00"	2.38"	0.69"	3/8"	1/2"-20
B5001-1250-2.00CP	1-1/4"	2.00"	2.38"	0.68"	1/2"	5/8"-18
B5001-1500-2.00CP	1-1/2"	2.00"	2.38"	0.68"	5/8"	3/4"-16
B5001-1500-6.00CP	1-1/2"	6.00"	3.80"	0.94"	5/8"	3/4"-16
B5001-2000-2.00CP	2"	2.00"	3.80"	0.92"	3/4"	1"-14



### BT50 - INCH FACE MILL HOLDERS

Part Number	d	L	D	L1	Key Size
B50F1-2500-3.00	2-1/2"	3.00"	5.00"	1.18"	1"

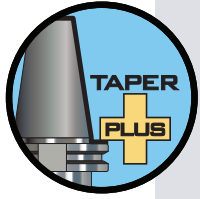
Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".





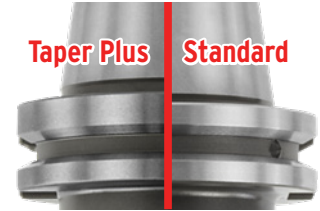
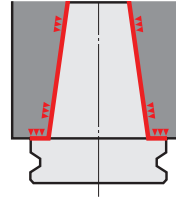
# SHELL MILL HOLDERS

## TAPER PLUS BT - SHELL MILL HOLDERS



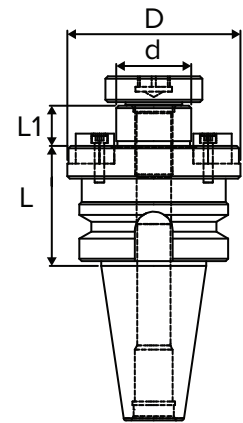
### Taper Plus Advantages

- Outstanding runout accuracy for longer tool life
- Vibration dampening for increased productivity
- High rigidity for smooth and stable cutting
- Interchangeable between standard and dual face contact spindles
- 53% more surface area contact than just the taper alone



### TAPER PLUS - BT30

Part Number	d	L	D	L1	Key Size	Arbor Thread
NB3001-0750-1.19CP	3/4"	1.19"	1.93"	0.67"	5/16"	3/8"-24
NB3001-1000-1.19CP	1"	1.19"	2.39"	0.67"	3/8"	1/2"-20



### TAPER PLUS - BT40

Part Number	d	L	D	L1	Key Size	Arbor Thread
NB4001-0750-1.75CP	3/4"	1.75"	1.93"	0.67"	5/16"	3/8"-24
NB4001-1000-1.75CP	1"	1.75"	2.39"	0.67"	3/8"	1/2"-20
NB4001-1250-2.00CP	1-1/4"	2.00"	2.88"	0.67"	1/2"	5/8"-18
NB4001-1500-2.00CP	1-1/2"	2.00"	3.80"	0.92"	5/8"	3/4"-16



Replacement Keys  
Page 188



Replacement Arbor Screws  
Page 188

## HSK SHELL MILL HOLDERS

- Accommodates face mills with pilot diameters ranging from 3/4" to 1-1/2"
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper



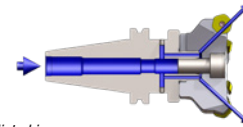
**T.I.R.**  
<.0004" run out at pilot



**Coolant-Thru**  
Thru-pilot (standard)



**Speed**  
Up to 20,000 rpm



**MILLING**

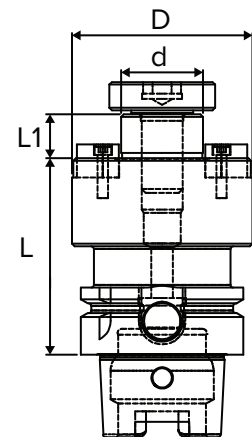


Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### HSK40A/63A

Part Number	d	L	D	L1	Key Size	Arbor Thread
HSK40A-SM0750-60CP	3/4"	2.36"	2.17"	0.67"	5/16"	3/8"-24
HSK40A-SM1000-60CP	1"	2.36"	2.75"	0.67"	3/8"	1/2"-20
HSK63A-SM0750-3.00CP	3/4"	3.00"	1.69"	0.67"	5/16"	3/8"-24
HSK63A-SM0750-5.00CP	3/4"	5.00"	1.69"	0.67"	5/16"	3/8"-24
HSK63A-SM1000-3.00CP	1"	3.00"	2.17"	0.67"	3/8"	1/2"-20
HSK63A-SM1000-5.00CP	1"	5.00"	2.17"	0.67"	3/8"	1/2"-20
HSK63A-SM1250-3.00CP	1-1/4"	3.00"	2.88"	0.67"	1/2"	5/8"-18
HSK63A-SM1250-5.00CP	1-1/4"	5.00"	3.80"	0.67"	1/2"	5/8"-18

Note: Coolant tube and coolant tube wrench are not included. See page 188 for more details.



### HSK100A

Part Number	d	L	D	L1	Key Size	Arbor Thread
HSK100A-SM0750-4.00CP	3/4"	4.00"	1.93"	0.67"	5/16"	3/8"-24
HSK100A-SM0750-6.00CP	3/4"	6.00"	1.93"	0.67"	5/16"	3/8"-24
HSK100A-SM0750-8.00CP	3/4"	8.00"	1.93"	0.67"	5/16"	1/2"-20
HSK100A-SM1000-4.00CP	1"	4.00"	2.17"	0.67"	3/8"	1/2"-20
HSK100A-SM1000-6.00CP	1"	6.00"	2.17"	0.67"	3/8"	1/2"-20
HSK100A-SM1000-8.00CP	1"	8.00"	2.17"	0.67"	3/8"	1/2"-20
HSK100A-SM1250-4.00CP	1-1/4"	4.00"	2.88"	0.67"	1/2"	5/8"-18
HSK100A-SM1250-6.00CP	1-1/4"	6.00"	2.88"	0.67"	1/2"	5/8"-18
HSK100A-SM1250-8.00CP	1-1/4"	8.00"	2.88"	0.67"	1/2"	5/8"-18
HSK100A-SM1500-4.00CP	1-1/2"	4.00"	3.50"	0.91"	5/8"	3/4"-16
HSK100A-SM1500-6.00CP	1-1/2"	6.00"	3.50"	0.91"	5/8"	3/4"-16
HSK100A-SM2000-4.00CP	2"	4.00"	5.00"	0.91"	3/4"	1"-14
HSK100A-SM2000-6.00CP	2"	6.00"	5.00"	0.91"	3/4"	1"-14

Note: Coolant tube and coolant tube wrench are not included. See page 188 for more details.



Replacement Keys  
Page 188



Replacement Arbor Screws  
Page 188

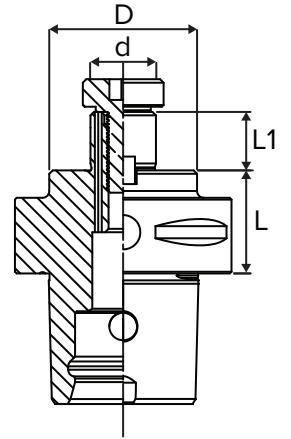
# SHELL MILL HOLDERS



## POLYGONAL TAPER SHELL MILL HOLDERS

### C4/C5/C6/C8 - INCH

Part Number	d	L	D	L1	Key Size	Arbor Thread
C4-SM0750-30CP	3/4"	1.18"	1.69"	0.67"	5/16"	3/8"-24
C4-SM1000-30CP	1"	1.18"	2.17"	0.67"	3/8"	1/2"-20
C5-SM0750-25CP	3/4"	0.98"	1.69"	0.67"	5/16"	3/8"-24
C5-SM1000-25CP	1"	0.98"	2.17"	0.67"	3/8"	3/8"-24
C5-SM1250-40CP	1-1/4"	1.57"	2.76"	0.67"	1/2"	1/2"-20
C6-SM0750-100CP	3/4"	3.94"	1.69"	0.67"	5/16"	5/8"-18
C6-SM0750-30CP	3/4"	1.18"	1.69"	0.67"	5/16"	5/8"-18
C6-SM1000-100CP	1"	3.94"	2.17"	0.67"	3/8"	5/8"-18
C6-SM1000-30CP	1"	1.18"	2.17"	0.67"	3/8"	5/8"-18
C6-SM1250-30CP	1-1/4"	1.18"	2.76"	0.67"	1/2"	5/8"-18
C8-SM0750-30CP	3/4"	1.18"	3.15"	0.67"	5/16"	5/8"-18
C8-SM1000-30CP	1"	1.18"	3.15"	0.67"	3/8"	5/8"-18
C8-SM1250-30CP	1-1/4"	1.18"	3.15"	0.67"	1/2"	5/8"-18



Replacement Keys  
Page 188



Replacement Arbor Screws  
Page 188

## NMTB SHELL MILL HOLDERS

- Accommodates face mills with pilot diameters ranging from 3/4" to 1"
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper



**T.I.R.**  
 <.0004" run out at pilot

### MILLING

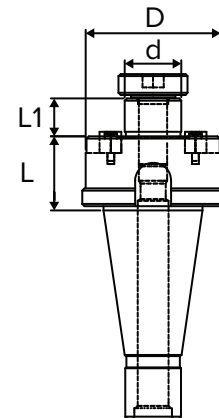


Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### NMTB30

Part Number	Taper	d	L	D	L1	Key Size	Arbor Thread
<b>N3001-0750-1.31</b>	NMTB30	3/4"	1.31"	2.00"	0.67"	5/16"	3/8"-24
<b>N3001-1000-1.31</b>	NMTB30	1"	1.31"	2.38"	0.67"	3/8"	1/2"-20

Note: NMTB shanks are suitable for use with Erickson Quick Change spindles.



# SHELL MILL HOLDERS



## R8 SHELL MILL HOLDERS

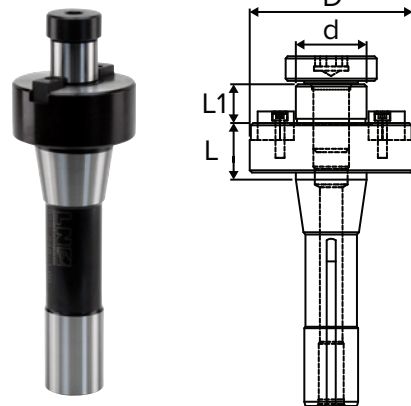
- Accommodates face mills with pilot diameters ranging from 1/2" (12mm) to 1.5" (38.1mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included



**T.I.R.**  
 <.0004" run out at pilot

### R8

Part Number	Taper	d	L	D	L1	Key Size	Arbor Thread
850-032-1.00	R8	1/2"	0.98"	1.38"	0.57"	1/4"	1/4"-28
850-048-1.00	R8	3/4"	0.98"	2.00"	0.69"	5/16"	3/8"-24
850-064-1.00	R8	1"	0.98"	2.38"	0.69"	3/8"	1/2"-20
850-080-1.00	R8	1-1/4"	0.98"	2.88"	0.69"	1/2"	5/8"-18
850-096-1.75	R8	1-1/2"	1.75"	3.50"	0.94"	5/8"	3/4"-16



### Lyndex-Nikken Offers Single and Dual Plane Balancing for Large Diameter or Long Tooling Assemblies

#### Benefits of Shell Mill Holder Balancing:

- Balanced assemblies can reduce spindle vibration— prolonging the life of your cutting tools and spindle.
- Increase the quality and consistency of machined surface finishes.
- Achieves greater machined surface flatness.
- Balancing service is only required once during initial set up. Assembly balance is maintained until shell mill/face mill is removed.



Contact Lyndex-Nikken for more information



Replacement Keys  
 Page 188



Replacement Arbor Screws  
 Page 188

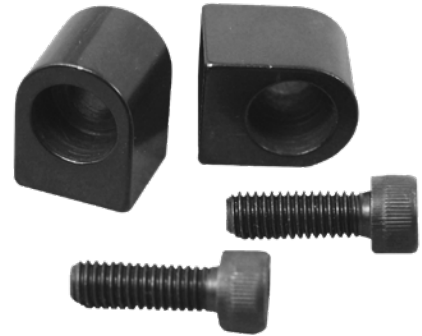
# SHELL MILL HOLDERS



## SHELL MILL HOLDER ACCESSORIES

### REPLACEMENT KEYS

Part Number	Description	To Use with Holder Size
1/2-KEYSET	1/4" rotating pins (2 Pcs.)	1/2"
3/4-KEYSET	5/16" keys with screws (2 Pcs.)	3/4"
1-KEYSET	3/8" keys with screws (2 Pcs.)	1"
1-1/4-KEYSET	1/2" keys with screws (2 Pcs.)	1-1/4"
1-1/2-KEYSET	5/8" keys with screws (2 Pcs.)	1-1/2"
2-KEYSET	3/4" keys with screws (2 Pcs.)	2"
2-1/2-KEYSET	1" keys with screws (2 Pcs.)	2-1/2"
22-KEYSET	10mm keys with screws (2 Pcs.)	22mm
27-KEYSET	12mm keys with screws (2 Pcs.)	27mm
32-KEYSET	14mm keys with screws (2 Pcs.)	32mm
40-KEYSET	16mm keys with screws (2 Pcs.)	40mm



### REPLACEMENT ARBOR SCREWS

Part Number	Head Diameter	Head Thickness	For the Following Shell/ Face Mill Sizes
A5/8-11	23.65mm (0.931")	15.7mm (0.618")	Face Mill Mounting Bolt
A1/4-28	17mm (0.669")	6mm (0.236")	1/2"
A3/8-24	23.5mm (0.925")	8mm (0.315")	3/4"
A1/2-20	31mm (1.220")	9.5mm (0.374")	1"
A5/8-18	41mm (1.614")	11mm (0.433")	1-1/4"
A3/4-16	49mm (1.929")	12.7mm (0.500")	1-1/2"
A1-14	68mm (2.677")	18mm (0.709")	2"
FM10	28mm (1.102")	9mm (0.354")	22mm
FM12	35mm (1.378")	9mm (0.354")	27mm
FM16	42mm (1.653")	12mm (0.472")	32mm
FM20	52mm (2.047")	15mm (0.590")	40mm



### COOLANT TUBE WRENCHES FOR HSK HOLDERS/ POLYGON SHELL MILL HOLDERS

Part Number	Description
HSK40-WRENCH	Wrench for HSK40 Coolant Tube
HSK63-WRENCH	Wrench for HSK63 Coolant Tube
HSK100-WRENCH	Wrench for HSK100 Coolant Tube
C4-WRENCH	Wrench for C4 Coolant Tube
C5-WRENCH	Wrench for C5 Coolant Tube
C6-WRENCH	Wrench for C6 Coolant Tube
C8-WRENCH	Wrench for C8 Coolant Tube



Coolant tube wrenches are needed to remove or install coolant tubes in HSK/Polygon Shell toolholders.

### COOLANT TUBES FOR HSK HOLDERS/ POLYGON SHELL MILL HOLDERS

Part Number	Description
HSK40-TUBE	HSK40 Coolant Tube
HSK63-TUBE	HSK63 Coolant Tube
HSK100-TUBE	HSK100 Coolant Tube
C4-TUBE	C4 Coolant Tube
C5-TUBE	C5 Coolant Tube
C6-TUBE	C6 Coolant Tube
C8-TUBE	C8 Coolant Tube



# DRILL CHUCKS & MORSE TAPER HOLDERS



DRILL/MORSE



DRILL CHUCKS &  
MORSE TAPER HOLDERS

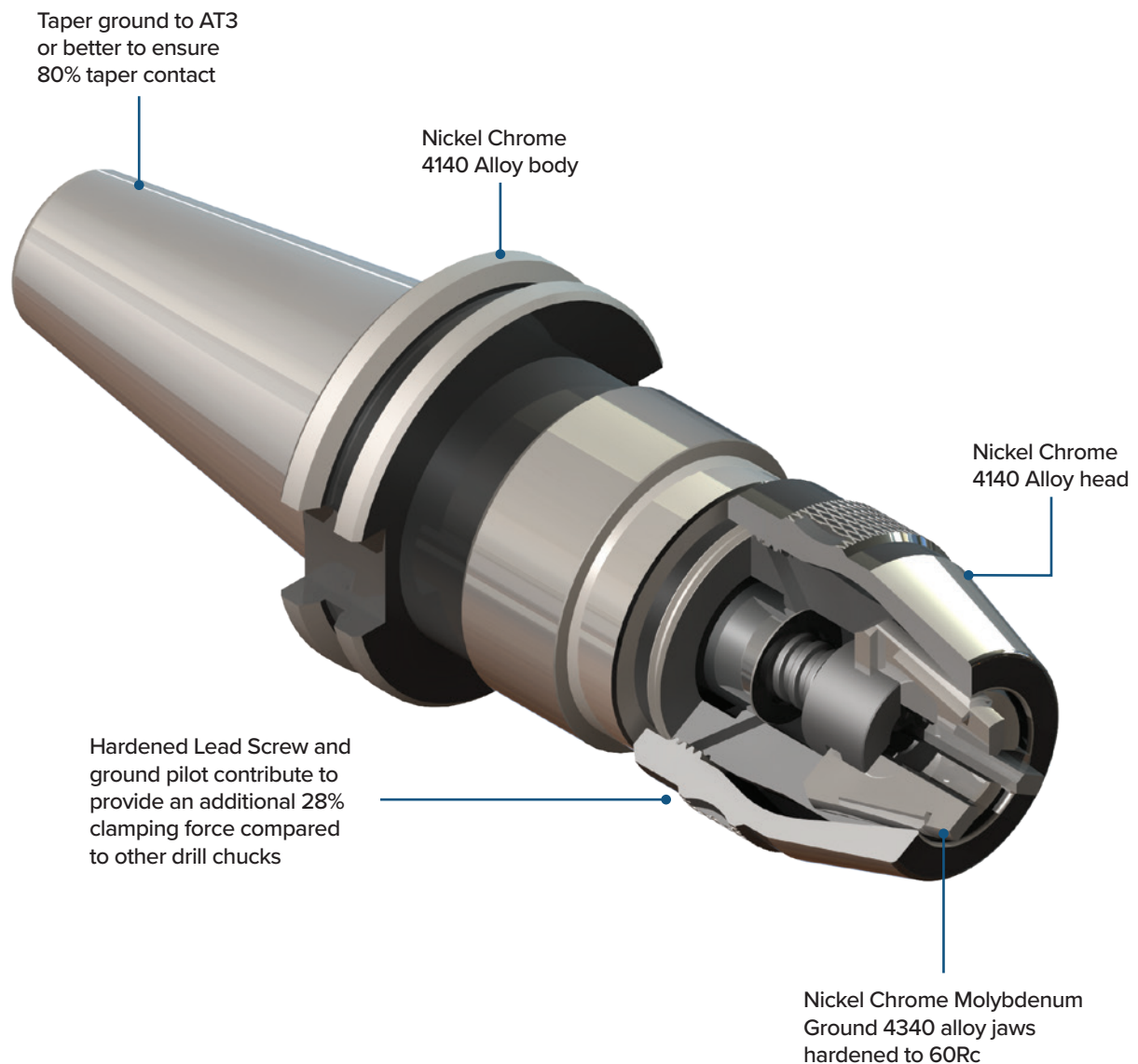


## DRILL CHUCKS FEATURES

### High-Precision, High-Rigidity, Compact Design

Our Drill Chucks feature a unique compact design and small head which prevent the drill from slipping during drilling operations.

- NPU8 is balanced to G6.3 @ 7,000 RPM
- NPU13 is balanced to G6.3 @ 5,000 RPM
- Short compact two-pieces design for flexible replacement of head only
- Maintenance free





# DRILL CHUCKS & MORSE TAPER HOLDERS

## CAT & BT INTEGRAL KEYLESS DRILL CHUCKS

### FEATURES

- Compact design and small head prevent drill slippage during operation



### Speed

NPU8 is balanced to G6.3 @ 7,000 RPM  
NPU13 is balanced to G6.3 @ 5,000 RPM

### REAMING

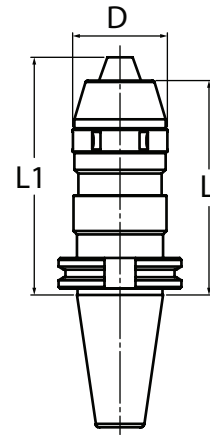


### DRILLING



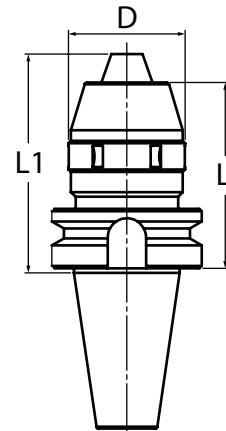
### CAT40/50 TAPER

Part Number	Capacity	L	L1	D
CAT40-NPU8-80U-IDU	5/16" (8.0mm)	3.31"	3.58"	1.52"
CAT40-NPU8-110U-IDU	5/16" (8.0mm)	4.53"	4.80"	1.52"
CAT40-NPU13-105U-IDU	1/2" (13.0mm)	4.35"	4.82"	1.93"
CAT40-NPU13-130U-IDU	1/2" (13.0mm)	5.41"	5.88"	1.93"
CAT50-NPU8-80U-IDU	5/16" (8.0mm)	3.37"	3.76"	1.52"
CAT50-NPU13-90U-IDU	1/2" (13.0mm)	3.71"	4.19"	1.93"



### BT30/40/50 TAPER

Part Number	Capacity	L	L1	D
BT30-NPU8-70	5/16" (8.0mm)	2.99"	3.27"	1.52"
BT30-NPU13-95	1/2" (13.0mm)	4.03"	4.50"	1.93"
BT40-NPU8-70	5/16" (8.0mm)	2.99"	3.27"	1.52"
BT40-NPU8-110	5/16" (8.0mm)	4.53"	4.80"	1.52"
BT40-NPU13-80	1/2" (13.0mm)	3.40"	3.87"	1.93"
BT40-NPU13-130	1/2" (13.0mm)	5.41"	5.88"	1.93"
BT50-NPU13-90	1/2" (13.0mm)	3.83"	4.30"	1.93"
BT50-NPU13-130	1/2" (13.0mm)	5.41"	5.88"	1.93"
BT50-NPU13-190	1/2" (13.0mm)	7.77"	8.24"	1.93"



Drill Chuck Wrench  
Page 193



Replacement Drill Chuck  
Page 193

## NMTB & HSK DRILL CHUCKS

### FEATURES

- Compact design and small head prevent drill slippage during operation



#### Speed

NPU8 is balanced to G6.3 @ 7,000 RPM  
NPU13 is balanced to G6.3 @ 5,000 RPM

#### REAMING



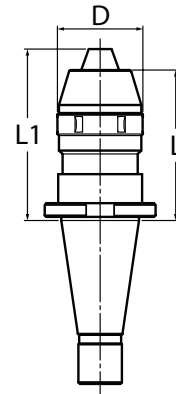
#### DRILLING



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### NMTB40/50

Part Number	Capacity	L	L1	D
NMTB40-NPU8-76	5/16" (8.0mm)	2.99"	3.27"	1.52"
NMTB40-NPU13-86	1/2" (13.0mm)	3.40"	3.87"	1.93"
NMTB50-NPU13-86	1/2" (13.0mm)	3.39"	3.86"	1.93"

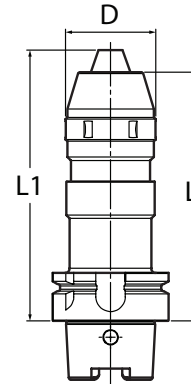


### HSK63A/100A

Part Number	Capacity	L	L1	D
HSK63A-NPU8-120	5/16" (8.0mm)	4.73"	5.00"	1.52"
HSK63A-NPU13C-135-IDU**	1/2" (13.0mm)	5.36"	5.83"	1.93"
HSK100A-NPU13C-145-IDU**	1/2" (13.0mm)	5.71"	6.18"	1.93"

#### Note:

- Coolant Tubes and Coolant Tube Wrenches are sold separately. See page 153 for more details.
- \*\*Coolant-thru capable





## DRILL CHUCK ACCESSORIES

### REPLACEMENT WRENCH FOR DRILL CHUCK

Part Number	Description
<b>NPU8-SPAN</b>	Fits 5/16" (8.0mm) Chucks
<b>NPU13-SPAN</b>	Fits 1/2" (13.0mm) Chucks



### REPLACEMENT DRILL CHUCK

Part Number	Description
<b>9NPU-8</b>	Replacement 1/4" Chuck
<b>9NPU-13</b>	Replacement 1/2" Chuck



### COOLANT TUBE WRENCH FOR HSK HOLDERS

Part Number	Description
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube



### COOLANT TUBE FOR HSK HOLDERS

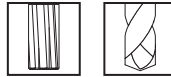
Part Number	Description
<b>HSK63-TUBE</b>	Coolant Tube for HSK63 Holders
<b>HSK100-TUBE</b>	Coolant Tube for HSK100 Holders





**T.I.R.**  
0.0002" at JT pilot

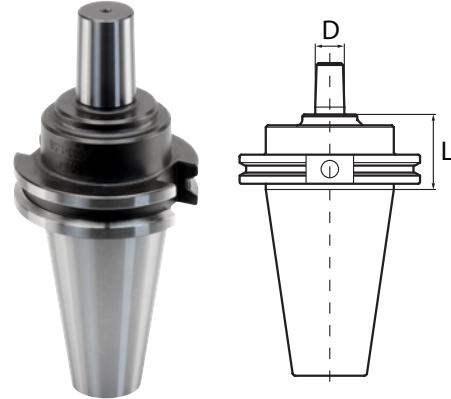
REAMING DRILLING



## CAT & BT JACOBS® TAPER HOLDERS

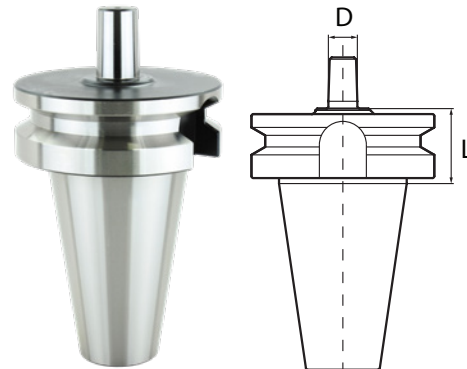
### CAT40/50

Part Number	JT Size	L	D
C4003-0002-1.61	JT#2	1.61"	0.56"
C4003-0003-1.58	JT#3	1.58"	0.81"
C4003-0004-1.49	JT#4	1.49"	1.12"
C4003-0006-1.61	JT#6	1.61"	0.68"
C4003-0033-1.61	JT#33	1.61"	0.63"
C5003-0002-1.61	JT#2	1.61"	0.56"
C5003-0003-1.75	JT#3	1.75"	0.81"
C5003-0004-1.49	JT#4	1.49"	1.12"
C5003-0006-1.61	JT#6	1.61"	0.68"
C5003-0033-1.61	JT#33	1.61"	0.63"



### BT30

Part Number	JT Size	L	D
B3003-0001-1.06	JT#1	1.06"	0.38"
B3003-0002-1.02	JT#2	1.02"	0.56"
B3003-0003-0.98	JT#3	0.98"	0.81"
B3003-0006-1.02	JT#6	1.02"	0.68"
B3003-0033-1.02	JT#33	1.02"	0.63"



### BT40

Part Number	JT Size	L	D
B4003-0002-1.61	JT#2	1.61"	0.56"
B4003-0003-1.75	JT#3	1.75"	0.81"
B4003-0006-1.61	JT#6	1.61"	0.68"
B4003-0033-1.61	JT#33	1.61"	0.63"

### BT50

Part Number	JT Size	L	D
B5003-0002-1.61	JT#2	1.61"	0.56"
B5003-0003-1.57	JT#3	1.57"	0.81"
B5003-0004-1.49	JT#4	1.49"	1.12"
B5003-0006-1.61	JT#6	1.61"	0.68"
B5003-0033-1.61	JT#33	1.61"	0.68"



# DRILL CHUCKS & MORSE TAPER HOLDERS

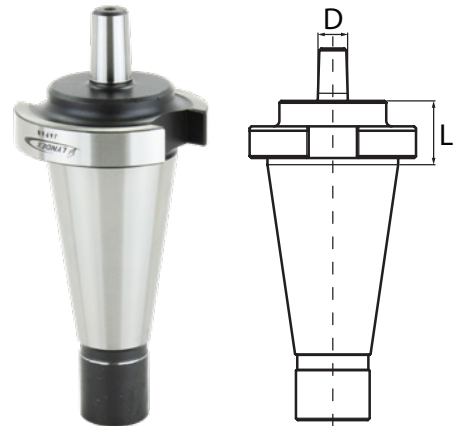
## NMTB & R8 JACOBS® TAPER HOLDERS

### NMTB30

Part Number	JT Size	L	D
N3003-0002-0.59	JT#3	0.59"	0.81"
N3003-0003-0.55	JT#3	0.55"	0.81"
N3003-0006-0.59	JT#6	0.59"	0.68"
N3003-0033-0.59	JT#33	0.59"	0.63"

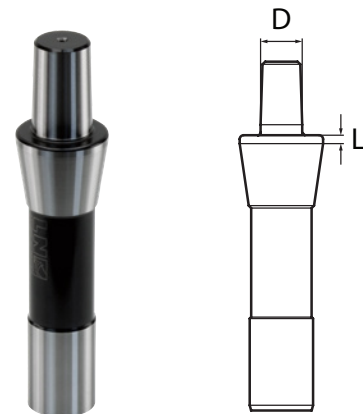
### NMTB40

Part Number	JT Size	L	D
N4003-0001-0.69	JT#1	0.69"	0.38"
N4003-0002-0.65	JT#2	0.65"	0.56"
N4003-0003-0.61	JT#3	0.61"	0.81"
N4003-0006-0.65	JT#6	0.65"	0.68"
N4003-0033-0.65	JT#33	0.65"	0.63"



### NMTB50

Part Number	JT Size	L	D
N5003-0002-1.34	JT#2	1.34"	0.56"
N5003-0003-1.30	JT#3	1.30"	0.56"
N5003-0004-1.22	JT#4	1.22"	1.12"
N5003-0006-1.34	JT#6	1.34"	0.68"
N5003-0033-1.34	JT#33	1.34"	0.63"



### R8

Part Number	JT Size	L	D
870-001-0.13	JT#1	0.13"	0.38"
870-002-0.13	JT#2	0.13"	0.56"
870-003-0.13	JT#3	0.13"	0.81"
870-006-0.13	JT#6	0.13"	0.68"
870-033-0.13	JT#33	0.13"	0.63"



## JACOBS® DRILL CHUCK ACCESSORIES

### JACOBS® BRAND DRILL CHUCK

Part Number	Style	Jacobs® Taper Size	Description
8-1/2N	0 - 1/4"	JT#2	Heavy Duty Ball Bearing Chuck
100-J2	0 - 3/8"	JT#2	High Precision Keyless Chuck
100-J33	0 - 3/8"	JT#33	High Precision Keyless Chuck
11N	0 - 3/8"	JT#2	Heavy Duty Ball Bearing Chuck
130-JT33	1/32 - 1/2"	JT#33	High Precision High Torque Keyless Chuck
14N	0 - 1/2"	JT#3	Heavy Duty Ball Bearing Chuck
160-J6	1/8 - 5/8"	JT#6	High Precision Keyless Chuck
16N	1/8 - 5/8"	JT#3	Heavy Duty Ball Bearing Chuck
18N	1/8 - 3/4"	JT#4	Heavy Duty Ball Bearing Chuck
34-02	0 - 1/2"	JT#2	Heavy Duty Plain Bearing Chuck
34-06	0 - 1/2"	JT#6	Heavy Duty Plain Bearing Chuck
34-33	0 - 1/2"	JT#33	Heavy Duty Plain Bearing Chuck



### REPLACEMENT KEY

Part Number	Description
K-3	Key for Plain Bearing Chuck



# DRILL CHUCKS & MORSE TAPER HOLDERS



**T.I.R.**  
0.0002" at ID bore

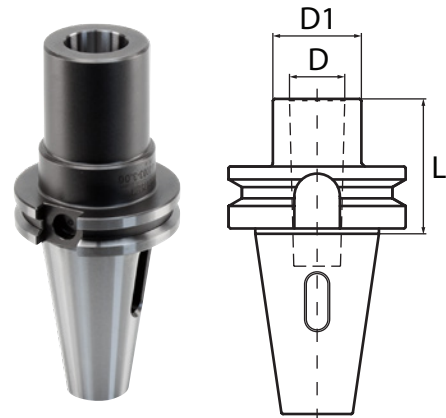
REAMING DRILLING



## CAT & BT MORSE TAPER HOLDERS

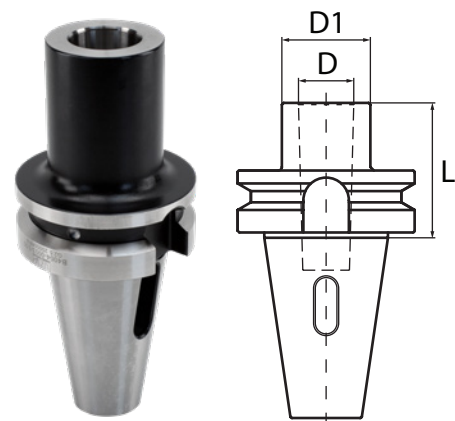
### CAT40/50

Part Number	Size	L	D	D1
C4004-0001-1.75	MT#1	1.75"	0.48"	0.99"
C4004-0002-2.36	MT#2	2.36"	0.70"	1.26"
C4004-0003-3.00	MT#3	3.00"	0.94"	1.57"
C4004-0004-3.54	MT#4	3.54"	1.23"	1.97"
C5004-0002-1.75	MT#2	1.75"	0.70"	1.26"
C5004-0003-1.75	MT#3	1.75"	0.94"	1.57"
C5004-0004-3.00	MT#4	3.00"	1.23"	1.97"
C5004-0005-4.13	MT#5	4.13"	1.75"	2.75"



### BT30/40/50

Part Number	Size	L	D	D1
B3004-0001-1.75	MT#1	1.75"	0.48"	0.99"
B3004-0002-2.36	MT#2	2.36"	0.70"	1.26"
B4004-0001-1.75	MT#1	1.75"	0.48"	0.99"
B4004-0002-2.36	MT#2	2.36"	0.70"	1.26"
B4004-0003-3.00	MT#3	3.00"	0.94"	1.57"
B4004-0004-3.54	MT#4	3.54"	1.97"	1.97"
B5004-0002-1.75	MT#2	1.75"	0.70"	1.26"
B5004-0003-1.75	MT#3	1.75"	0.94"	1.57"
B5004-0004-3.00	MT#4	3.00"	1.57"	1.97"
B5004-0005-4.13	MT#5	4.13"	1.75"	2.75"



## R8 MORSE TAPER HOLDERS



**T.I.R.**  
0.0002" at ID bore

REAMING

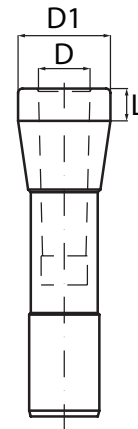


DRILLING



### R8

Part Number	Size	L	D	D1
840-002-0.44	MT#2	0.44"	0.70"	1.26"
840-003-2.56	MT#3	2.13"	0.94"	1.57"





# TAP HOLDERS



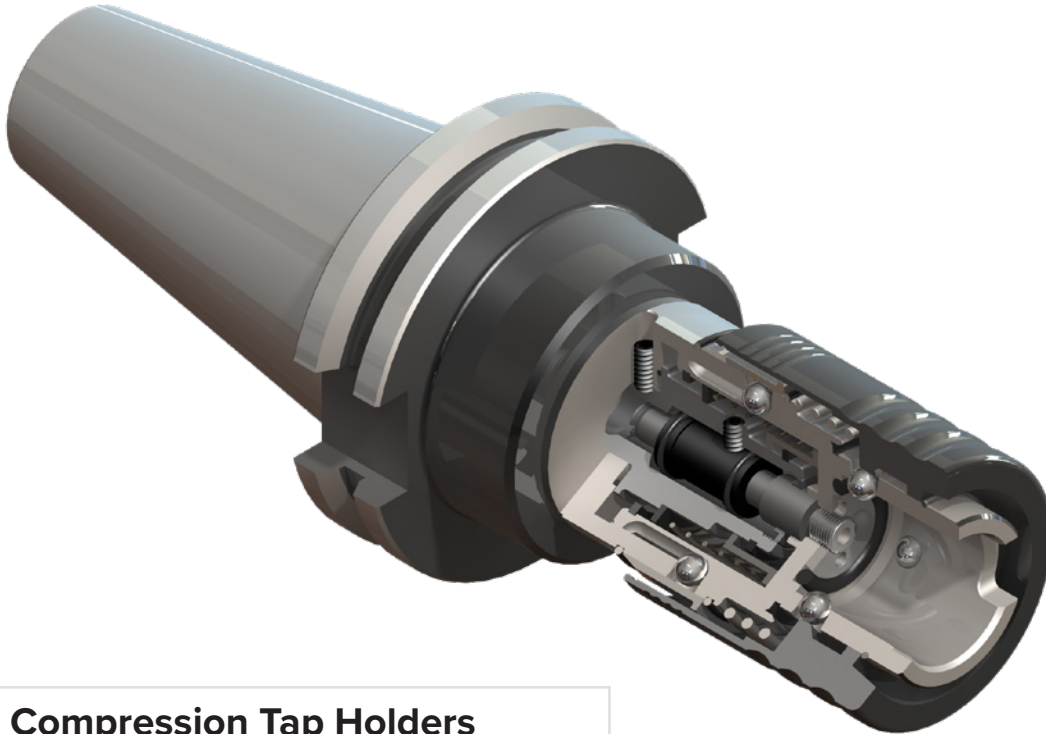
TAP HOLDERS

TAP HOLDERS



## TAP HOLDER FEATURES

Our Tapping systems include tension-compression and rigid holders in all tapers and shanks. Coolant-thru available for both tension-compression and rigid style holders.



### Tension Compression Tap Holders

- Interchangeable with all Bilz tap system sizes.
- Will compensate for the machine spindle over rotating, tap elongation or minor mismatching between rotation and feed.
- Spring tension (outward pressure) will help lead and engage the tap for consistent and on size tapped holes.
- Tension Compression holders assure accuracy and control to make sure the hole is tapped exactly on the pitch of the tap. This is extremely beneficial when tapping critical hole threads with 2B and 3B dimensional call outs.
- Quick and easy interchangeability of tap collets, repeatable within .008" positioning accuracy.
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force reducing the possibility of tap slippage.

### Coolant-Thru Type

- Sealed internal mechanism allows high pressure center thru coolant to flow without contaminating the internal components.
- Chambered design also prevents back-flow of coolant into the spindle at higher pressures.
- Maximum pressure is 725 psi.

### Rigid Tap Holders

- Excellent for fast tapping on synchronous cycles.
- Interchangeable with all Bilz tap system sizes.
- Quick and easy interchangeability of tap collets.
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage.

### Coolant-Thru Type

- Sealed internal mechanism allows high pressure center thru coolant to flow without contaminating the internal components.
- Chambered design also prevents back-flow of coolant back into the spindle at higher pressures.
- Maximum pressure is 725 psi.

# TAP HOLDERS

## CAT TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



Utilizes quick change tap collets



T.I.R. Minimal



Tension / Compression



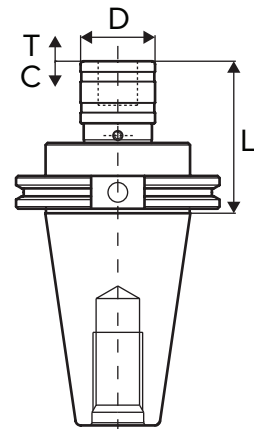
Set-Up Quick and easy



Coolant-Thru Thru-tap coolant

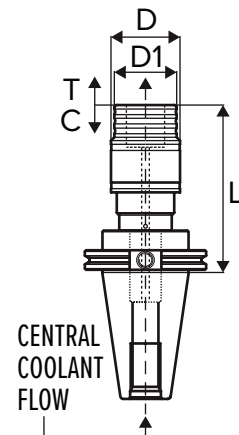
### CAT40/50 TENSION/COMPRESSION TAP HOLDERS

Part Number	Taper	Tap Range		System	L	D	T	C
		Hand	Pipe					
<b>C4005-0562-2.91</b>	CT40	#0-9/16"	1/8"	#1	2.91"	1.43"	0.29"	0.29"
<b>C4005-0875-3.86</b>	CT40	5/16-7/8"	1/4-1/2"	#2	3.86"	2.09"	0.49"	0.49"
<b>C4005-1375-7.97</b>	CT40	13/16-1-3/8"	1/2-1"	#3	7.97"	3.07"	0.79"	0.79"
<b>C5005-0562-2.91</b>	CT50	#0-9/16"	1/8"	#1	2.91"	1.42"	0.29"	0.29"
<b>C5005-0875-3.86</b>	CT50	5/16-7/8"	1/4-1/2"	#2	3.86"	2.09"	0.49"	0.49"
<b>C5005-1375-6.77</b>	CT50	13/16-1-3/8"	1/2-1"	#3	6.77"	3.07"	0.79"	0.79"



### CAT40/50 TENSION/COMPRESSION TAP HOLDERS - COOLANT-THRU

Part Number	Taper	Tap Range		System	L	D	D1	T	C
		Hand	Pipe						
<b>C4005-0562-3.98(C)</b>	CT40	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
<b>C4005-0875-5.40(C)</b>	CT40	5/16-7/8"	1/4-1/2"	#2	5.40"	2.20"	1.99"	0.39"	0.20"
<b>C4005-1375-9.54(C)</b>	CT40	13/16-1-3/8"	1/2-1"	#3	9.54"	2.95"	2.76"	0.71"	0.51"
<b>C5005-0562-3.98(C)</b>	CT50	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
<b>C5005-0875-5.40(C)</b>	CT50	5/16-7/8"	1/4-1/2"	#2	5.40"	2.20"	1.99"	0.39"	0.20"
<b>C5005-1375-8.34(C)</b>	CT50	13/16-1-3/8"	1/2-1"	#3	8.34"	2.95"	2.76"	0.71"	0.51"



Note: Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

## CAT TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**Set-Up**  
Quick and easy



**T.I.R.**  
Minimal



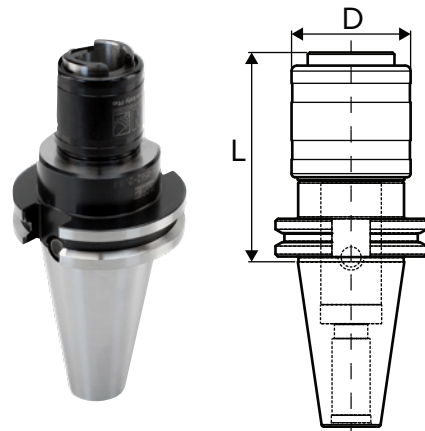
**Coolant-Thru**  
Thru-tap coolant

### CAT40/50 RIGID TAP HOLDERS

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
<b>C40R5-0562-2.84</b>	CT40	#0-9/16"	1/8"	#1	2.84"	1.26"
<b>C40R5-0875-3.50</b>	CT40	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
<b>C40R5-1375-6.24</b>	CT40	13/16-1-3/8"	1/2-1"	#3	6.24"	2.83"
<b>C50R5-0562-2.84</b>	CT50	#0-9/16"	1/8"	#1	2.84"	1.26"
<b>C50R5-0875-3.50</b>	CT50	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
<b>C50R5-1375-5.04</b>	CT50	13/16-1-3/8"	1/2-1"	#3	5.04"	2.83"

**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.

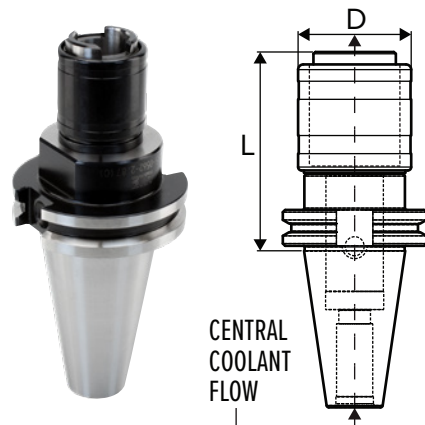


### CAT40/50 RIGID TAP HOLDERS COOLANT-THRU

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
<b>C40R5-0562-2.87(C)</b>	CT40	#0-9/16"	1/8"	#1	2.87"	1.26"
<b>C40R5-0875-3.50(C)</b>	CT40	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
<b>C40R5-1375-6.24(C)</b>	CT40	13/16-1-3/8"	1/2-1"	#3	6.24"	2.83"
<b>C50R5-0562-2.87(C)</b>	CT50	#0-9/16"	1/8"	#1	2.87"	1.26"
<b>C50R5-0875-3.50(C)</b>	CT50	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
<b>C50R5-1375-5.04(C)</b>	CT50	13/16-1-3/8"	1/2-1"	#3	5.04"	2.83"

**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.
- Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

# TAP HOLDERS

## BT TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



Utilizes quick change tap collets



T.I.R. Minimal



Tension / Compression



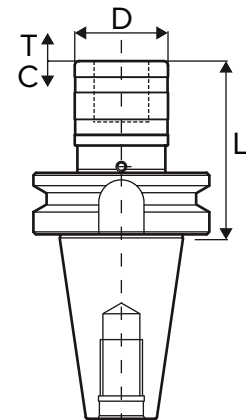
Set-Up Quick and easy



Coolant-Thru Thru-tap coolant

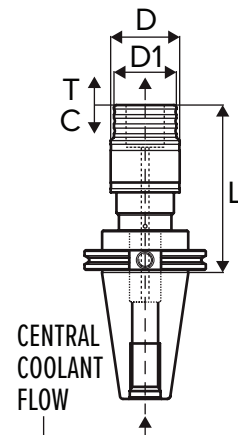
### BT30/40/50 TENSION/COMPRESSION TAP HOLDERS

Part Number	Taper	Tap Range		System	L	D	T	C
		Hand	Pipe					
<b>B3005-0562-2.40</b>	BT30	#0-9/16"	1/8"	#1	2.40"	1.42"	0.295"	0.295"
<b>B4005-0562-2.91</b>	BT40	#0-9/16"	1/8"	#1	2.91"	1.43"	0.29"	0.29"
<b>B4005-0875-3.86</b>	BT40	5/16-7/8"	1/4-1/2"	#2	3.86"	2.09"	0.49"	0.49"
<b>B4005-1375-7.64</b>	BT40	13/16-1-3/8"	1/2-1"	#3	7.64"	3.07"	0.79"	0.79"
<b>B5005-0562-3.26</b>	BT50	#0-9/16"	1/8"	#1	3.26"	1.43"	0.29"	0.29"
<b>B5005-0875-4.21</b>	BT50	5/16-7/8"	1/4-1/2"	#2	4.21"	2.09"	0.49"	0.49"
<b>B5005-1375-6.73</b>	BT50	13/16-1-3/8"	1/2-1"	#3	6.73"	3.07"	0.79"	0.79"



### BT30/40/50 TENSION/COMPRESSION TAP HOLDERS - COOLANT-THRU

Part Number	Taper	Tap Range		System	L	D	D1	T	C
		Hand	Pipe						
<b>B3005-0562-4.37(C)</b>	BT30	#0-9/16"	1/8"	#1	4.37"	1.57"	1.34"	0.27"	0.12"
<b>B4005-0562-3.98(C)</b>	BT40	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
<b>B4005-0875-5.36(C)</b>	BT40	5/16-7/8"	1/4-1/2"	#2	5.36"	2.20"	1.99"	0.39"	0.20"
<b>B4005-1375-9.21(C)</b>	BT40	13/16-1-3/8"	1/2-1"	#3	9.21"	2.95"	2.76"	0.71"	0.51"
<b>B5005-0562-4.33(C)</b>	BT50	#0-9/16"	1/8"	#1	4.33"	1.57"	1.28"	0.27"	0.12"
<b>B5005-0875-5.75(C)</b>	BT50	5/16-7/8"	1/4-1/2"	#2	5.75"	2.20"	1.99"	0.39"	0.20"
<b>B5005-1375-8.30(C)</b>	BT50	13/16-1-3/8"	1/2-1"	#3	8.30"	2.95"	2.76"	0.71"	0.51"



Note: Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

## BT TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**Set-Up**  
Quick and easy



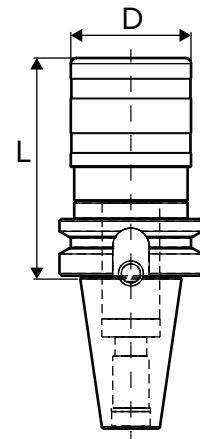
**T.I.R.**  
Minimal



**Coolant-Thru**  
Thru-tap coolant

### BT30/40/50 RIGID TAP HOLDERS

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
<b>B30R5-0562-2.36</b>	BT30	#0-9/16"	1/8"	#1	2.36"	1.26"
<b>B40R5-0562-2.84</b>	BT40	#0-9/16"	1/8"	#1	2.84"	1.26"
<b>B40R5-0875-3.50</b>	BT40	#0-9/16"	1/8"	#1	3.50"	1.98"
<b>B40R5-1375-5.91</b>	BT40	#0-9/16"	1/8"	#1	5.91"	2.83"
<b>B50R5-0562-3.19</b>	BT50	#0-9/16"	1/8"	#1	3.19"	1.26"
<b>B50R5-0875-3.85</b>	BT50	#0-9/16"	1/8"	#1	3.85"	1.97"
<b>B50R5-1375-5.00</b>	BT50	#0-9/16"	1/8"	#1	5.00"	2.83"

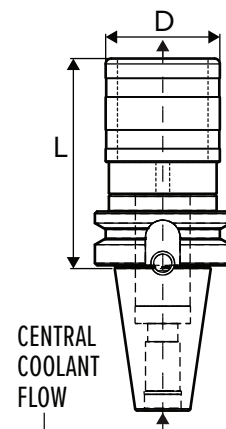


**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.

### BT30/40/50 RIGID TAP HOLDERS COOLANT-THRU

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
<b>B30R5-0562-2.28(C)</b>	BT30	#0-9/16"	1/8"	#1	2.28"	1.26"
<b>B40R5-0562-2.87(C)</b>	BT40	#0-9/16"	1/8"	#1	2.87"	1.26"
<b>B40R5-0875-3.50(C)</b>	BT40	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
<b>B40R5-1375-5.91(C)</b>	BT40	13/16-1-3/8"	1/2-1"	#3	5.91"	2.83"
<b>B50R5-0562-3.22(C)</b>	BT30	#0-9/16"	1/8"	#1	3.22"	1.26"
<b>B50R5-0875-3.85(C)</b>	BT30	5/16-7/8"	1/4-1/2"	#2	3.85"	1.97"
<b>B50R5-1375-5.00(C)</b>	BT30	13/16-1-3/8"	1/2-1"	#3	5.00"	2.83"



**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.
- Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

# TAP HOLDERS

## HSK TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



Utilizes quick change tap collets



T.I.R. Minimal



Tension / Compression



Set-Up Quick and easy

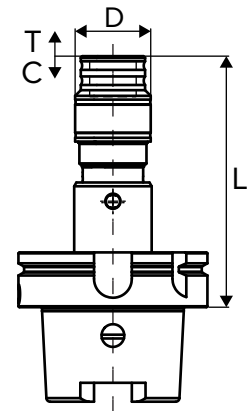


Coolant-Thru Thru-tap coolant

### HSK63/100A TENSION/COMPRESSION TAP HOLDERS

Part Number	Tap Range		System	L	D	T	C
	Hand	Pipe					
<a href="#">HSK63A-TC0562-3.15</a>	#0-9/16"	1/8"	#1	3.15"	1.42"	0.29"	0.29"
<a href="#">HSK63A-TC0875-4.72</a>	5/16-7/8"	1/4-1/2"	#2	4.72"	2.09"	0.49"	0.49"
<a href="#">HSK63A-TC1375-7.72</a>	13/16-1-3/8"	1/2-1"	#3	7.72"	3.07"	0.68"	0.68"
<a href="#">HSK100A-TC0562-3.23</a>	#0-9/16"	1/8"	#1	3.23"	1.42"	0.29"	0.29"
<a href="#">HSK100A-TC0875-4.41</a>	5/16-7/8"	1/4-1/2"	#2	4.41"	2.09"	0.49"	0.49"
<a href="#">HSK100A-TC1375-7.95</a>	13/16-1-3/8"	1/2-1"	#3	7.95"	3.07"	0.68"	0.68"

Note: Coolant tube and coolant tube wrench are not included. See Page 222 for more details.

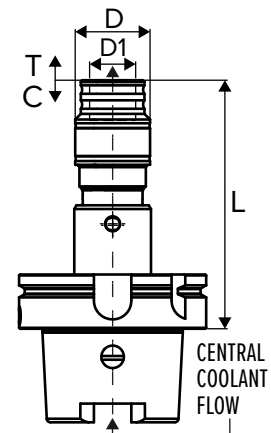


### HSK63/100A TENSION/COMPRESSION TAP HOLDERS - COOLANT-THRU

Part Number	Tap Range		System	L	D	D1	T	C
	Hand	Pipe						
<a href="#">HSK63A-TC0562-4.92(C)</a>	#0-9/16"	1/8"	#1	4.92"	1.57"	1.34"	0.29"	0.29"
<a href="#">HSK63A-TC0875-6.38(C)</a>	5/16-7/8"	1/4-1/2"	#2	6.38"	2.21"	1.97"	0.27"	0.12"
<a href="#">HSK63A-TC1375-9.41(C)</a>	13/16-1-3/8"	1/2-1"	#3	9.41"	3.07"	2.84"	0.68"	0.68"
<a href="#">HSK100A-TC0562-5.20(C)</a>	#0-9/16"	1/8"	#1	5.20"	1.57"	1.34"	0.29"	0.29"
<a href="#">HSK100A-TC0875-6.62(C)</a>	5/16-7/8"	1/4-1/2"	#2	6.62"	1.57"	1.28"	0.27"	0.12"

Note:

- Coolant tube and coolant tube wrench are not included. See Page 222 for more details.
- Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner  
Wrench  
Page 222



HSK  
Coolant Tube  
Page 222



HSK Coolant  
Tube Wrench  
Page 222

## HSK TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**Set-Up**  
Quick and easy



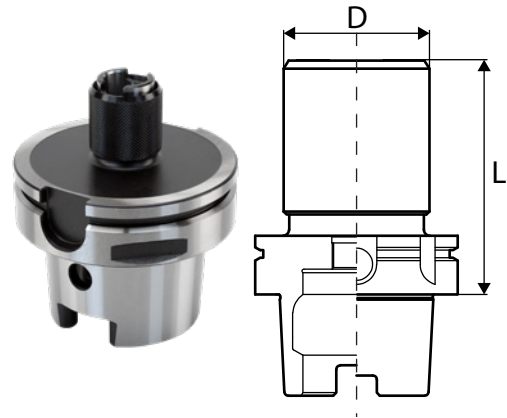
**T.I.R.**  
Minimal



**Coolant-Thru**  
Thru-tap coolant

### HSK40/63/100 RIGID TAP HOLDERS

Part Number	Tap Range		System	L	D
	Hand	Pipe			
<b>HSK40A-R0562-3.15</b>	#0-9/16"	1/8"	#1	3.15"	1.26"
<b>HSK63A-R0562-2.48</b>	#0-9/16"	1/8"	#1	2.48"	1.26"
<b>HSK63A-R0875-3.31</b>	5/16-7/8"	1/4-1/2"	#2	3.31"	1.97"
<b>HSK63A-R1375-5.12</b>	13/16-1-3/8"	1/2-1"	#3	5.12"	2.83"
<b>HSK100A-R0562-2.59</b>	#0-9/16"	1/8"	#1	2.59"	1.26"
<b>HSK100A-R0875-3.42</b>	5/16-7/8"	1/4-1/2"	#2	3.42"	1.97"
<b>HSK100A-R1375-4.57</b>	13/16-1-3/8"	1/2-1"	#3	4.57"	2.83"

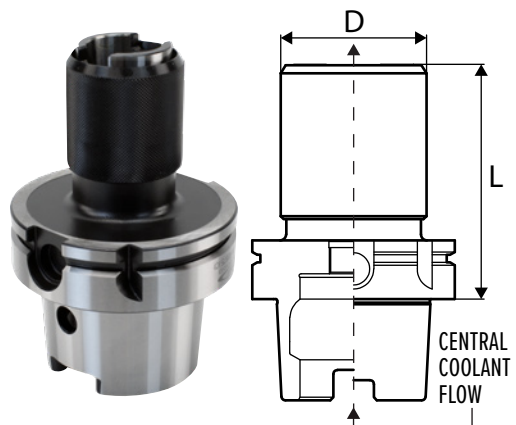


**Note:**

- Coolant tube and coolant tube wrench are not included. See Page 222 for more details.
- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.

### HSK40/63/100 RIGID TAP HOLDERS COOLANT-THRU

Part Number	Tap Range		System	L	D
	Hand	Pipe			
<b>HSK40A-R0562-2.97(C)</b>	#0-9/16"	1/8"	#1	2.97"	1.26"
<b>HSK63A-R0562-2.76(C)</b>	#0-9/16"	1/8"	#1	2.76"	1.26"
<b>HSK63A-R0875-3.70(C)</b>	5/16-7/8"	1/4-1/2"	#2	3.70"	1.97"
<b>HSK100A-R0562-3.09(C)</b>	#0-9/16"	1/8"	#1	3.09"	1.26"
<b>HSK100A-R0875-3.94(C)</b>	5/16-7/8"	1/4-1/2"	#2	3.94"	1.97"
<b>HSK100A-R1375-5.32(C)</b>	13/16-1-3/8"	1/2-1"	#3	5.32"	2.84"



**Note:**

- Coolant tube and coolant tube wrench are not included. See Page 222 for more details.
- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.
- Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner  
Wrench  
Page 222



HSK  
Coolant Tube  
Page 222



HSK Coolant  
Tube Wrench  
Page 222



# TAP HOLDERS



TAP HOLDERS

## WELDON TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**T.I.R. Minimal**



**Tension / Compression**



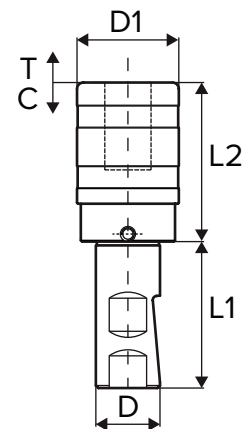
**Set-Up Quick and easy**



**Coolant-Thru Thru-tap coolant**

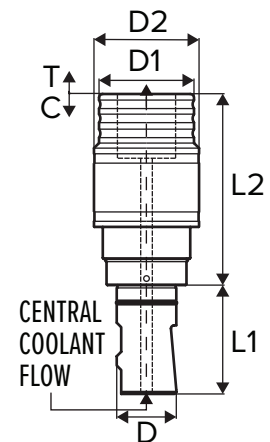
### WELDON SHANK TENSION/COMPRESSION TAP HOLDERS

Part Number	Tap Range		System	D	D1	L1	L2	T	C
	Hand	Pipe							
<b>W7505-0562-1.53</b>	#0-9/16"	1/8"	#1	3/4"	1.43"	2.00"	1.53"	0.29"	0.29"
<b>W1005-0562-1.53</b>	#0-9/16"	1/8"	#1	1"	1.43"	2.28"	1.53"	0.29"	0.29"
<b>W1205-0562-1.61</b>	#0-9/16"	1/8"	#1	1-1/4"	1.43"	2.28"	1.61"	0.29"	0.29"
<b>W1005-0875-2.48</b>	5/16-7/8"	1/4-1/2"	#2	1"	2.09"	2.28"	2.48"	0.49"	0.49"
<b>W1205-0875-2.48</b>	5/16-7/8"	1/4-1/2"	#2	1-1/4"	2.09"	2.28"	2.48"	0.49"	0.49"
<b>W1205-1375-5.00</b>	13/16-1-3/8"	1/2-1"	#3	1-1/4"	3.07"	2.28"	5.00"	0.79"	0.79"
<b>W1505-1375-4.65</b>	13/16-1-3/8"	1/2-1"	#3	1-1/2"	3.07"	2.69"	4.65"	0.79"	0.79"



### WELDON SHANK TENSION/COMPRESSION TAP HOLDERS - COOLANT-THRU

Part Number	Tap Range		System	D	D1	D2	L1	L2	T	C
	Hand	Pipe								
<b>W25MR5-0562-38(C)</b>	#0-9/16"	1/8"	#1	0.984"	1.29"	1.57"	2.28"	2.60"	0.27"	0.12"
<b>W25MR5-0875-54(C)</b>	5/16-7/8"	1/8"	#1	1"	1.29"	1.57"	2.28"	2.60"	0.27"	0.12"
<b>W1000-TC1-2.60(C)</b>	#0-9/16"	1/8"	#1	1"	1.29"	1.57"	2.28"	2.60"	0.27"	0.12"
<b>W1000-TC2-4.02(C)</b>	5/16-7/8"	1/4-1/2"	#2	1"	1.99"	2.20"	2.28"	4.02"	0.39"	0.20"
<b>W1205-0562-2.60(C)</b>	#0-9/16"	1/8"	#1	1-1/4"	1.29"	1.28"	2.28"	2.60"	0.27"	0.12"
<b>W1205-0875-4.02(C)</b>	5/16-7/8"	1/4-1/2"	#2	1-1/4"	1.99"	2.20"	2.28"	4.02"	0.39"	0.20"
<b>W1205-1375-6.57(C)</b>	13/16-1-3/8"	1/2-1"	#3	1-1/4"	2.75"	2.95"	2.28"	6.57"	0.71"	0.51"
<b>W1500-TC3-6.57(C)</b>	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.75"	2.95"	2.69"	6.57"	0.71"	0.51"



Note: Maximum pressure is 725 psi.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

## WELDON TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**Set-Up**  
Quick and easy



**T.I.R.**  
Minimal



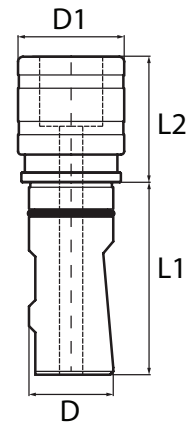
**Coolant-Thru**  
Thru-tap coolant

### WELDON SHANK RIGID TAP HOLDERS

Part Number	Tap Range		System	D	D1	L1	L2
	Hand	Pipe					
<b>W25MR5-0562-37</b>	#0-9/16"	1/8"	#1	0.984"	1.26"	2.08"	1.46"
<b>W25MR5-0875-56</b>	5/16-7/8"	1/4-1/2"	#2	0.984"	1.97"	2.08"	2.12"
<b>W10R5-0562-1.46</b>	#0-9/16"	1/8"	#1	1"	1.26"	2.28"	1.46"
<b>W10R5-0875-2.12</b>	5/16-7/8"	1/4-1/2"	#2	1"	1.97"	2.28"	2.12"
<b>W12R5-1375-3.27</b>	13/16-1-3/8"	1/2-1"	#3	1-1/4"	2.83"	2.28"	3.27"
<b>W15R5-1375-5.96</b>	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.83"	2.70"	3.28"

**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.

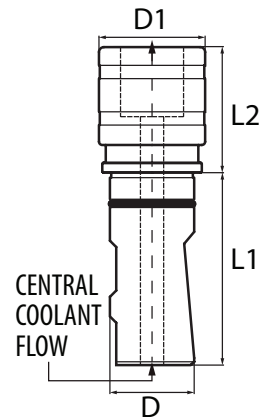


### WELDON SHANK RIGID TAP HOLDERS COOLANT-THRU

Part Number	Tap Range		System	D	D1	L1	L2
	Hand	Pipe					
<b>W75R5-0562-1.46(C)</b>	#0-9/16"	1/8"	#1	3/4"	1.26"	2.03"	1.49"
<b>W25MR5-0562-38(C)</b>	#0-9/16"	1/8"	#1	0.984"	1.26"	2.08"	1.49"
<b>W25MR5-0875-54(C)</b>	5/16-7/8"	1/4-1/2"	#2	0.984"	1.97"	2.08"	2.12"
<b>W12R5-0562-1.65(C)</b>	#0-9/16"	1/8"	#1	1-1/4"	1.26"	2.28"	1.65"
<b>W12R5-0875-2.12(C)</b>	5/16-7/8"	1/4-1/2"	#2	1-1/4"	1.97"	2.28"	2.12"
<b>W1250-RT3-3.27(C)</b>	13/16-1-3/8"	1/2-1"	#3	1-1/4"	2.83"	2.28"	3.27"

**Note:**

- These holders are designed for use with synchronized machining centers.
- These holders have no tension or compression.
- Maximum pressure is 725 psi.



# TAP HOLDERS



TAP HOLDERS

## STRAIGHT SHANK TAP HOLDERS

### FEATURES

- Made to fit all Bilz standard style tap collets
- Quick and easy interchangeability of tap collets
- Retention balls and drive keys provide higher positioning accuracy and stronger gripping force, reducing the possibility of tap slippage



**Utilizes quick change tap collets**



**T.I.R. Minimal**



**Tension / Compression**



**Set-Up Quick and easy**



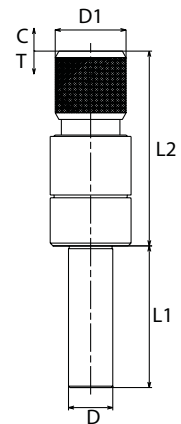
**Coolant-Thru Thru-tap coolant**

### STRAIGHT SHANK TENSION/COMPRESSION TAP HOLDERS

Part Number	Tap Range		System	D	D1	L1	L2	T	C
	Hand	Pipe							
<b>S1005-0562-4.17</b>	#0-9/16"	1/8"	#1	1"	1.26"	3.50"	4.17"	0.79"	0.39"
<b>S1005-0875-5.61</b>	5/16-7/8"	1/4-1/2"	#2	1"	1.96"	3.50"	5.61"	0.85"	0.49"
<b>S1205-0875-5.61</b>	5/16-7/8"	1/4-1/2"	#2	1-1/4"	1.96"	4.00"	5.61"	0.85"	0.49"

**Note:**

- Straight Shank tooling may be used to extend tooling reach for extended length operations.
- This option is less costly than extended length integral shank tooling.
- Can be used on machining centers or lathes.



Tap Collets  
Pages 210-221



Tap Spanner Wrench  
Page 222

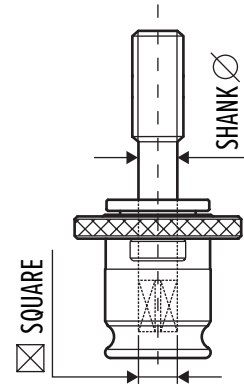
## TAP COLLETS

### POSITIVE DRIVE TAP COLLETS - ANSI STANDARD

Standard collets are used for standard and coolant-thru tap holders.

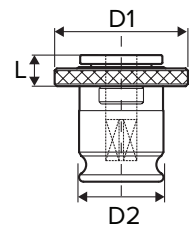
Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
NT05-006	#1	#0-6	0.141"	0.110"
NT05-008	#1	#8	0.168"	0.131"
NT05-010	#1	#10, 3/16"	0.194"	0.152"
NT05-012	#1	#12	0.220"	0.165"
NT05-016	#1	1/4"	0.255"	0.191"
NT05-020	#1	5/16"	0.318"	0.238"
NT05-024	#1	3/8"	0.381"	0.286"
NT05-028	#1	7/16"	0.323"	0.242"
NT05-032	#1	1/2"	0.367"	0.275"
NT05-036	#1	9/16"	0.429"	0.322"
NT10-020	#2	5/16"	0.318"	0.238"
NT10-024	#2	3/8"	0.381"	0.286"
NT10-028	#2	7/16"	0.323"	0.242"
NT10-032	#2	1/2"	0.367"	0.275"
NT10-036	#2	9/16"	0.429"	0.322"
NT10-040	#2	5/8"	0.480"	0.360"
NT10-044	#2	11/16"	0.542"	0.406"
NT10-048	#2	3/4"	0.590"	0.442"
NT10-052	#2	13/16"	0.652"	0.489"
NT10-056	#2	7/8"	0.697"	0.523"
NT15-052	#3	13/16"	0.652"	0.489"
NT15-056	#3	7/8"	0.697"	0.523"
NT15-060	#3	15/16"	0.760"	0.570"
NT15-064	#3	1"	0.800"	0.600"
NT15-072	#3	1-1/8"	0.896"	0.672"
NT15-080	#3	1-1/4"	1.021"	0.766"
NT15-088	#3	1-3/8"	1.108"	0.831"

Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"



### POSITIVE DRIVE TAP COLLET SETS

Part Number	Description
NT05-SET-10	10 Piece System #1 Positive Drive Tap Collet Set: 0-9/16" hand
NT10-SET-10	10 Piece System #2 Positive Drive Tap Collet Set: 5/16" - 7/8" hand
NT15-SET-07	7 Piece System #3 Positive Drive Tap Collet Set: 13/16" - 1-3/8" hand

# TAP HOLDERS



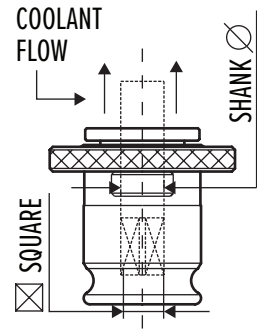
## TAP COLLETS

### POSITIVE DRIVE TAP COLLETS - ANSI STANDARD - SLOTTED

Slotted collets are designed for use with standard taps for coolant along the flute.

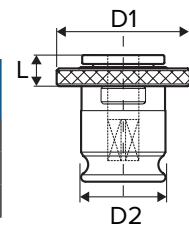
Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
NT05-006(S)	#1	#0-6	0.141"	0.110"
NT05-008(S)	#1	#8	0.168"	0.131"
NT05-010(S)	#1	#10, 3/16"	0.194"	0.152"
NT05-012(S)	#1	#12	0.220"	0.165"
NT05-016(S)	#1	1/4"	0.255"	0.191"
NT05-020(S)	#1	5/16"	0.318"	0.238"
NT05-024(S)	#1	3/8"	0.381"	0.286"
NT05-028(S)	#1	7/16"	0.323"	0.242"
NT05-032(S)	#1	1/2"	0.367"	0.275"
NT05-036(S)	#1	9/16"	0.429"	0.322"
NT10-020(S)	#2	5/16"	0.318"	0.238"
NT10-024(S)	#2	3/8"	0.381"	0.286"
NT10-028(S)	#2	7/16"	0.323"	0.242"
NT10-032(S)	#2	1/2"	0.367"	0.275"
NT10-036(S)	#2	9/16"	0.429"	0.322"
NT10-040(S)	#2	5/8"	0.480"	0.360"
NT10-044(S)	#2	11/16"	0.542"	0.406"
NT10-048(S)	#2	3/4"	0.590"	0.442"
NT10-052(S)	#2	13/16"	0.652"	0.489"
NT10-056(S)	#2	7/8"	0.697"	0.523"
NT15-052(S)	#3	13/16"	0.652"	0.489"
NT15-056(S)	#3	7/8"	0.697"	0.523"
NT15-060(S)	#3	15/16"	0.760"	0.570"
NT15-064(S)	#3	1"	0.800"	0.600"
NT15-072(S)	#3	1-1/8"	0.896"	0.672"
NT15-080(S)	#3	1-1/4"	1.021"	0.766"
NT15-088(S)	#3	1-3/8"	1.108"	0.831"

Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

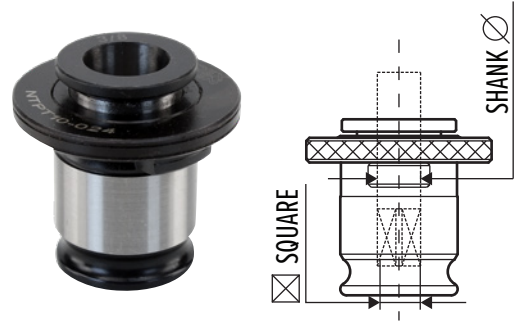
System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"



## TAP COLLETS

### POSITIVE DRIVE PIPE TAP COLLETS - ANSI STANDARD

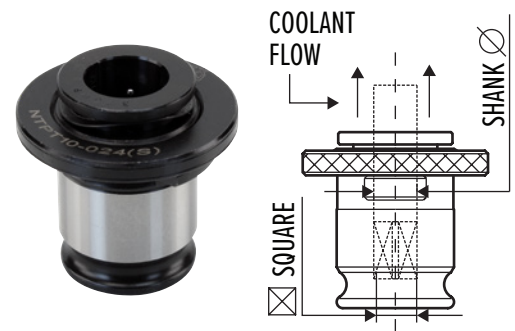
Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
NTPT05-008S	#1	1/8"S	0.313"	0.234"
NTPT05-008L	#1	1/8"L	0.437"	0.328"
NTPT10-016	#2	1/4"	0.562"	0.421"
NTPT10-024	#2	3/8"	0.700"	0.531"
NTPT10-032	#2	1/2"	0.687"	0.515"
NTPT15-032	#3	1/2"	0.687"	0.515"
NTPT15-048	#3	3/4"	0.906"	0.679"
NTPT15-064	#3	1"	1.125"	0.843"



### POSITIVE DRIVE PIPE TAP COLLETS - ANSI STANDARD - SLOTTED

Slotted collets are designed for use with standard taps for coolant along the flute.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
NTPT05-008S(S)	#1	1/8"S	0.313"	0.234"
NTPT05-008L(S)	#1	1/8"L	0.437"	0.328"
NTPT10-016(S)	#2	1/4"	0.562"	0.421"
NTPT10-024(S)	#2	3/8"	0.700"	0.531"
NTPT10-032(S)	#2	1/2"	0.687"	0.515"
NTPT15-032(S)	#3	1/2"	0.687"	0.515"
NTPT15-048(S)	#3	3/4"	0.906"	0.679"
NTPT15-064(S)	#3	1/2"	1.125"	0.843"



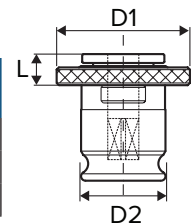
### POSITIVE DRIVE PIPE TAP COLLET SETS

Part Number	Description
NTP05-SET-12	12 Piece System #1 Positive Drive Tap Collet Set: 0 - 9/16" hand and 1/8" pipe large & small
NTP10-SET-13	13 Piece System #2 Positive Drive Tap Collet Set: 5/16" - 7/8" hand and 1/4" - 1/2" pipe
NTP15-SET-10	10 Piece System #3 Positive Drive Tap Collet Set: 13/16" - 1-3/8" hand and 1/2" - 1" pipe

Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

### DIMENSIONAL DATA

System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"



# TAP HOLDERS

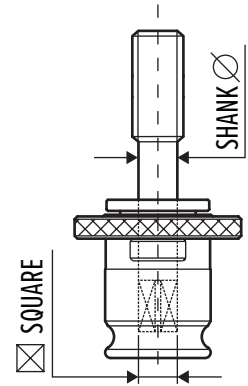
## TAP COLLETS

### POSITIVE DRIVE TAP COLLETS - ISO 529 STANDARD

Standard collets are used for standard and coolant-thru tap holders.

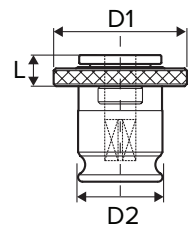
Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SE1-2.24X1.8	#1	M3	2.24mm	1.80mm
SE1-2.50X2.0	#1	M3.5, M2	2.50mm	2.00mm
SE1-2.80X2.24	#1	M2.5, M2.2	2.80mm	2.24mm
SE1-3.15X2.50	#1	M4, M3	3.15mm	2.50mm
SE1-3.55X2.80	#1	M4.5, M3.5	3.55mm	2.80mm
SE1-4.0X3.15	#1	M5, M4	4.00mm	3.15mm
SE1-4.5X3.55	#1	M6	4.50mm	3.55mm
SE1-5.0X4.0	#1	M5	5.00mm	4.00mm
SE1-5.6X4.5	#1	M5	5.60mm	4.50mm
SE1-6.3X5.0	#1	M8, M6	6.30mm	5.00mm
SE1-7.1X5.6	#1	M7	7.10mm	5.60mm
SE1-8.0X6.3	#1	M11, M10, M8	8.00mm	6.30mm
SE1-9.0X7.1	#1	M12, M9	9.00mm	7.10mm
SE1-10.0X8.0	#1	M10	10.0mm	8.00mm
SE1-11.2X9.0	#1	M14	11.2mm	9.00mm
SE2-4.0X3.15	#2	M5, M4	4.00mm	3.15mm
SE2-4.5X3.55	#2	M6	4.50mm	3.55mm
SE2-5.0X4.0	#2	M5	5.00mm	4.00mm
SE2-5.6X4.5	#2	M5	5.60mm	4.50mm
SE2-6.3X5.0	#2	M8, M6	6.30mm	5.00mm
SE2-7.1X5.6	#2	M7	7.10mm	5.60mm
SE2-8.0X6.3	#2	M11, M10, M8	8.00mm	6.30mm
SE2-9.0X7.1	#2	M12, M9	9.00mm	7.10mm
SE2-10.0X8.0	#2	M10	10.0mm	8.00mm
SE2-11.2X9.0	#2	M14	11.2mm	9.00mm
SE2-12.5X10.0	#2	M16	12.5mm	10.0mm
SE2-14.0X11.2	#2	M20, M18	14.0mm	11.2mm
SE2-16.0X12.5	#2	M22	16.0mm	12.5mm
SE2-18.0X14.0	#2	M24	18.0mm	14.0mm
SE3-9.0X7.1	#3	M12, M9	9.00mm	7.10mm
SE3-10.0X8.0	#3	M10	10.0mm	8.00mm
SE3-11.2X9.0	#3	M14	11.2mm	9.00mm
SE3-12.5X10.0	#3	M16	12.5mm	10.0mm
SE3-14.0X11.2	#3	M20, M18	14.0mm	11.2mm
SE3-16.0X12.5	#3	M22	16.0mm	12.5mm
SE3-18.0X14.0	#3	M24	18.0mm	14.0mm
SE3-20.0X16.0	#3	M30, M27	20.0mm	16.0mm
SE3-22.4X18.0	#3	M33	22.4mm	18.0mm
SE3-25.0X20.0	#3	M36, M33	25.0mm	20.0mm
SE3-28.0X22.4	#3	M39, M40, M42	28.0mm	22.4mm

Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"

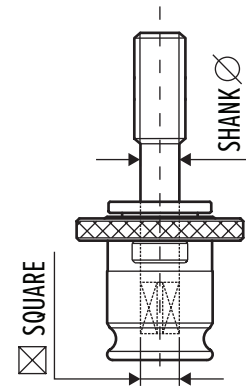


## TAP COLLETS

### POSITIVE DRIVE TAP COLLETS - DIN 371/376 STANDARD

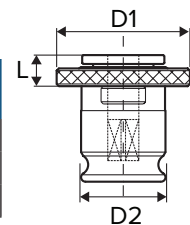
Standard collets are used for standard and coolant-thru tap holders.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SE1-2.5X2.1	#1	M1.4, M1.8, M3	2.50mm	2.10mm
SE1-2.8X2.1	#1	M2, M2.2, M2.5, M4	2.80mm	2.10mm
SE1-3.5X2.7	#1	M3, M5	3.50mm	2.70mm
SE1-4.0X3.0	#1	M3.5	4.00mm	3.00mm
SE1-4.5X3.4	#1	M4, M6	4.50mm	3.40mm
SE1-6.0X4.9	#1	M5, M6, M8	6.00mm	4.90mm
SE1-7.0X5.5	#1	M10	7.00mm	5.50mm
SE1-8.0X6.2	#1	M8, M10	8.00mm	6.20mm
SE1-9.0X7.0	#1	M12	9.00mm	7.00mm
SE1-10.0X8.0	#1	M10	10.0mm	8.00mm
SE1-11.0X9.0	#1	M14	11.0mm	9.00mm
SE2-2.8X2.1	#2	M2, M2.2, M2.5, M4	2.80mm	2.10mm
SE2-3.5X2.7	#2	M3, M5	3.50mm	2.70mm
SE2-4.0X3.0	#2	M3.5	4.00mm	3.00mm
SE2-6.0X4.9	#2	M5, M6, M8	6.00mm	4.90mm
SE2-7.0X5.5	#2	M10	7.00mm	5.50mm
SE2-8.0X6.2	#2	M8, M10	8.00mm	6.20mm
SE2-9.0X7.0	#2	M12	9.00mm	7.00mm
SE2-10.0X8.0	#2	M10	10.00mm	8.00mm
SE2-11.0X9.0	#2	M14	11.0mm	9.00mm
SE2-12.0X9.0	#2	M16	12.0mm	9.00mm
SE2-14.0X11.0	#2	M18	14.0mm	11.00mm
SE2-16.0X12.0	#2	M20	16.0mm	12.00mm
SE2-18.0X14.5	#2	M22, M24	18.0mm	14.50mm
SE3-9.0X7.0	#3	M12	9.00mm	7.00mm
SE3-10.0X8.0	#3	M10	10.00mm	8.00mm
SE3-11.0X9.0	#3	M14	11.0mm	9.00mm
SE3-12.0X9.0	#3	M16	12.0mm	9.00mm
SE3-14.0X11.0	#3	M18	14.0mm	11.0mm
SE3-16.0X12.0	#3	M20	16.0mm	12.0mm
SE3-18.0X14.5	#3	M22, M24	18.0mm	14.5mm
SE3-20.0X16.0	#3	M27, M30	20.0mm	16.0mm
SE3-22.0X18.0	#3	M30	22.0mm	18.0mm
SE3-25.0X20.0	#3	M33, M36	25.0mm	20.0mm
SE3-28.0X22.0	#3	M36	28.0mm	22.0mm



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"



Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.





# TAP HOLDERS



TAP HOLDERS

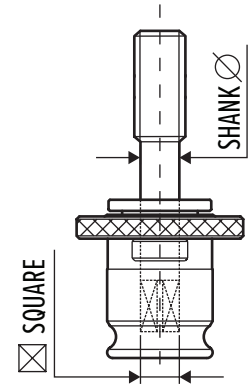
## TAP COLLETS

### POSITIVE DRIVE TAP COLLETS - JIS STANDARD

Standard collets are used for standard and coolant-thru tap holders..

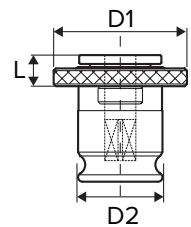
Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SE1-3.0X2.5	#1	M2	3.00mm	2.50mm
SE1-4.0X3.2	#1	M3	4.00mm	3.20mm
SE1-5.0X4.0	#1	M4, M4.5	5.00mm	4.00mm
SE1-5.5X4.5	#1	M5, M5.5	5.50mm	4.50mm
SE1-6.0X4.5	#1	M6	6.00mm	4.50mm
SE1-6.2X5.0	#1	M7, M8	6.20mm	5.00mm
SE1-7.0X5.5	#1	M9, M10	7.00mm	5.50mm
SE1-8.0X6.0	#1	M11	8.00mm	6.00mm
SE1-8.5X6.5	#1	M12	8.50mm	6.50mm
SE1-9.5X7.0	#1	M13	9.50mm	7.00mm
SE1-10.5X8.0	#1	M14, M15	10.5mm	8.00mm
SE2-6.0X4.5	#2	M6	6.00mm	4.50mm
SE2-6.2X5.0	#2	M7, M8	6.20mm	5.00mm
SE2-7.0X5.5	#2	M9, M10	7.00mm	5.50mm
SE2-8.0X6.0	#2	M11	8.00mm	6.00mm
SE2-8.5X6.5	#2	M12	8.50mm	6.50mm
SE2-9.5X7.0	#2	M13	9.50mm	7.00mm
SE2-10.5X8.0	#2	M14, M15	10.5mm	8.00mm
SE2-12.5X10.0	#2	M16	12.5mm	10.0mm
SE2-13.0X10.0	#2	M17	13.0mm	10.0mm
SE2-14.0X11.0	#2	M18	14.0mm	11.0mm
SE2-15.0X12.0	#2	M20	15.0mm	12.0mm
SE2-17.0X13.0	#2	M22	17.0mm	13.0mm
SE3-10.5X8.0	#3	M14, M15	10.5mm	8.00mm
SE3-12.5X10.0	#3	M16	12.5mm	10.0mm
SE3-13.0X10.0	#3	M17	13.0mm	10.0mm
SE3-14.0X11.0	#3	M18	14.0mm	11.0mm
SE3-15.0X12.0	#3	M20	15.0mm	12.0mm
SE3-17.0X13.0	#3	M22	17.0mm	13.0mm
SE3-19.0X15.0	#3	M24, M25	19.0mm	15.0mm
SE3-20.0X15.0	#3	M26, M27	20.0mm	15.0mm
SE3-21.0X17.0	#3	M28	21.0mm	17.0mm
SE3-23.0X17.0	#3	M30	23.0mm	17.0mm
SE3-24.0X19.0	#3	M32	24.0mm	19.0mm
SE3-25.0X19.0	#3	M33	25.0mm	19.0mm
SE3-26.0X21.0	#3	M34, M35	26.0mm	21.0mm
SE3-28.0X21.0	#3	M36, M38	28.0mm	21.0mm

Note: See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.89"	1.22"
#3	0.55"	2.76"	1.89"



Tap Spanner Wrench  
Page 222

## TAP COLLETS

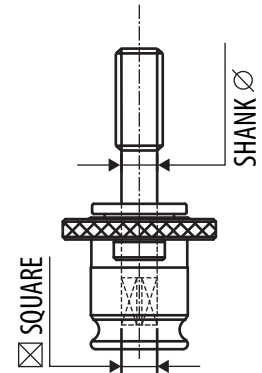
### TORQUE CONTROL TAP COLLETS - ANSI STANDARD

Standard collets are used for standard and coolant-thru tap holders.  
Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
T05-006	#1	#0-6	0.141"	0.110"
T05-008	#1	#8	0.168"	0.131"
T05-010	#1	#10	0.194"	0.152"
T05-012	#1	#12	0.220"	0.165"
T05-016	#1	1/4"	0.255"	0.191"
T05-020	#1	5/16"	0.318"	0.238"
T05-024	#1	3/8"	0.381"	0.286"
T05-028	#1	7/16"	0.323"	0.242"
T05-032	#1	1/2"	0.367"	0.275"
T05-036	#1	9/16"	0.429"	0.322"
T10-020	#2	5/16"	0.318"	0.238"
T10-024	#2	3/8"	0.381"	0.286"
T10-028	#2	7/16"	0.323"	0.242"
T10-032	#2	1/2"	0.367"	0.275"
T10-036	#2	9/16"	0.429"	0.322"
T10-040	#2	5/8"	0.480"	0.360"
T10-044	#2	11/16"	0.542"	0.406"
T10-048	#2	3/4"	0.590"	0.442"
T10-052	#2	13/16"	0.652"	0.489"
T10-056	#2	7/8"	0.697"	0.523"
T10-064*	#2	1"	0.800"	0.600"
T15-052	#3	13/16"	0.652"	0.489"
T15-056	#3	7/8"	0.697"	0.523"
T15-060	#3	15/16"	0.760"	0.570"
T15-064	#3	1"	0.800"	0.600"
T15-072	#3	1-1/8"	0.896"	0.672"
T15-080	#3	1-1/4"	1.021"	0.766"
T15-088	#3	1-3/8"	1.108"	0.831"

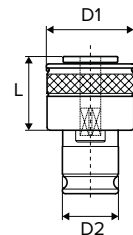
Note:

- \*The tap is held with set screws.
- See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"



### TORQUE CONTROL TAP COLLET SETS

Part Number	Description
T05-SET-10	10 Piece System #1 Torque Control Tap Collet Set: #0 - 9/16" hand
T10-SET-10	10 Piece System #2 Torque Control Tap Collet Set: 5/16" - 7/8" hand
T15-SET-07	7 Piece System #3 Torque Control Tap Collet Set: 13/16" - 1-3/8" hand



# TAP HOLDERS



## TAP COLLETS

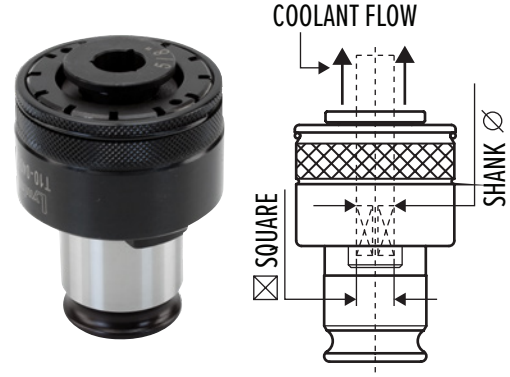
### TORQUE CONTROL TAP COLLETS - ANSI STANDARD -SLOTTED

Slotted collets are designed for use with standard taps for coolant along the flute. Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
T05-006(S)	#1	#0-6	0.141"	0.110"
T05-008(S)	#1	#8	0.168"	0.131"
T05-010(S)	#1	#10	0.194"	0.152"
T05-012(S)	#1	#12	0.220"	0.165"
T05-016(S)	#1	1/4"	0.255"	0.191"
T05-020(S)	#1	5/16"	0.318"	0.238"
T05-024(S)	#1	3/8"	0.381"	0.286"
T05-028(S)	#1	7/16"	0.323"	0.242"
T05-032(S)	#1	1/2"	0.367"	0.275"
T05-036(S)	#1	9/16"	0.429"	0.322"
<hr/>				
T10-020(S)	#2	5/16"	0.318"	0.238"
T10-024(S)	#2	3/8"	0.381"	0.286"
T10-028(S)	#2	7/16"	0.323"	0.242"
T10-032(S)	#2	1/2"	0.367"	0.275"
T10-036(S)	#2	9/16"	0.429"	0.322"
T10-040(S)	#2	5/8"	0.480"	0.360"
T10-044(S)	#2	11/16"	0.542"	0.406"
T10-048(S)	#2	3/4"	0.590"	0.442"
T10-052(S)	#2	13/16"	0.652"	0.489"
T10-056(S)	#2	7/8"	0.697"	0.523"
T10-064(S)*	#2	1"	0.800"	0.600"
<hr/>				
T15-052(S)	#3	13/16"	0.652"	0.489"
T15-056(S)	#3	7/8"	0.697"	0.523"
T15-060(S)	#3	15/16"	0.760"	0.570"
T15-064(S)	#3	1"	0.800"	0.600"
T15-072(S)	#3	1-1/8"	0.896"	0.672"
T15-080(S)	#3	1-1/4"	1.021"	0.766"
T15-088(S)	#3	1-3/8"	1.108"	0.831"

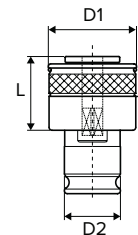
Note:

- \*The tap is held with set screws.
- See pages 224-225 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"

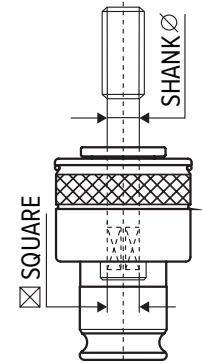


## TAP COLLETS

### TORQUE CONTROL PIPE TAP COLLETS - ANSI STANDARD

Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
TPT05-008S	#1	1/8"S	0.313"	0.234"
TPT05-008L	#1	1/8"L	0.437"	0.328"
TPT10-016	#2	1/4"	0.562"	0.421"
TPT10-024	#2	3/8"	0.700"	0.531"
TPT10-032	#2	1/2"	0.687"	0.515"
TPT15-032	#3	1/2"	0.687"	0.515"
TPT15-048	#3	3/4"	0.906"	0.679"
TPT15-064	#3	1"	1.125"	0.843"

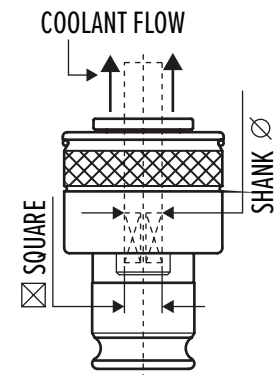


### TORQUE CONTROL PIPE TAP COLLETS - ANSI STANDARD - SLOTTED

Slotted collets are designed for use with standard taps for coolant along the flute.

Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
TPT05-008S(S)	#1	1/8"S	0.313"	0.234"
TPT05-008L(S)	#1	1/8"L	0.437"	0.328"
TPT10-016(S)	#2	1/4"	0.562"	0.421"
TPT10-024(S)	#2	3/8"	0.700"	0.531"
TPT10-032(S)	#2	1/2"	0.687"	0.515"
TPT15-032(S)	#3	1/2"	0.687"	0.515"
TPT15-048(S)	#3	3/4"	0.906"	0.679"
TPT15-064(S)	#3	1"	1.125"	0.843"

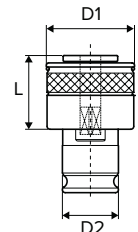


### TORQUE CONTROL PIPE TAP COLLET SETS

Part Number	Description
TPO5-SET-12	12 Piece System #1 Torque Control Tap Collet Set: #0-9/16" hand and 1/8" pipe large & small
TP10-SET-13	13 Piece System #2 Torque Control Tap Collet Set: 5/16" - 7/8" hand and 1/4" - 1/2" pipe
TP15-SET-10	10 Piece System #3 Torque Control Tap Collet Set: 13/16" - 1-3/8" hand and 1/2" - 1" pipe

### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"



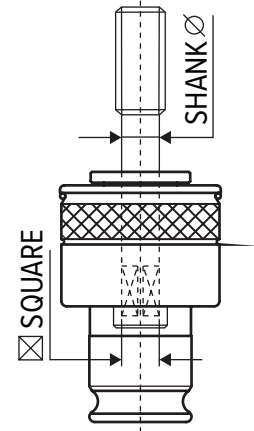
# TAP HOLDERS

## TAP COLLETS

### TORQUE CONTROL TAP COLLETS - ISO 529 STANDARD

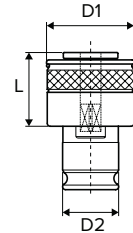
Standard collets are used for standard and coolant-thru tap holders.  
Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SES1-2.50X2.0	#1	M3.5, M2	2.50mm	2.00mm
SES1-2.80X2.24	#1	M2.2, M2.5	2.80mm	2.24mm
SES1-3.15X2.50	#1	M4, M3	3.15mm	2.50mm
SES1-3.55X2.80	#1	M4.5, M3.5	3.55mm	2.80mm
SES1-4.0X3.15	#1	M5, M4	4.00mm	3.15mm
SES1-4.5X3.55	#1	M6	4.50mm	3.55mm
SES1-5.0X4.0	#1	M5	5.00mm	4.00mm
SES1-5.6X4.5	#1	M5.5, M7	5.60mm	4.50mm
SES1-6.3X5.0	#1	M8, M6	6.30mm	5.00mm
SES1-7.1X5.6	#1	M7	7.10mm	5.60mm
SES1-8.0X6.3	#1	M11, M10, M8	8.00mm	6.30mm
SES1-9.0X7.1	#1	M12, M9	9.00mm	7.10mm
SES1-10.0X8.0	#1	M10	10.0mm	8.00mm
SES1-11.2X9.0	#1	M14	11.2mm	9.00mm
SES2-4.0X3.15	#2	M4, M5	4.00mm	3.15mm
SES2-4.5X3.55	#2	M6	4.50mm	3.55mm
SES2-5.0X4.0	#2	M5	5.00mm	4.00mm
SES2-5.6X4.5	#2	M5.5, M7	5.60mm	4.50mm
SES2-6.3X5.0	#2	M8, M6	6.30mm	5.00mm
SES2-7.1X5.6	#2	M7	7.10mm	5.60mm
SES2-8.0X6.3	#2	M11, M10, M8	8.00mm	6.30mm
SES2-9.0X7.1	#2	M12, M9	9.00mm	7.10mm
SES2-10.0X8.0	#2	M10	10.0mm	8.00mm
SES2-11.2X9.0	#2	M14	11.2mm	9.00mm
SES2-12.5X10.0	#2	M16	12.5mm	10.0mm
SES2-13.0X10.0	#2	M17	13.0mm	10.0mm
SES2-14.0X11.2	#2	M20, M18	14.0mm	11.2mm
SES2-16.0X12.5	#2	M22	16.0mm	12.5mm
SES2-18.0X14.0	#2	M24	18.0mm	14.0mm
SES2-19.0X15.0	#2	M24, M25	19.0mm	15.0mm
SES3-9.0X7.1	#3	M9, M12	9.0mm	7.10mm
SES3-10.0X8.0	#3	M10	10.0mm	8.00mm
SES3-11.2X9.0	#3	M14	11.2mm	9.00mm
SES3-12.5X10.0	#3	M16	12.5mm	10.0mm
SES3-14.0X11.2	#3	M18, M20	14.0mm	11.2mm
SES3-18.0X14.0	#3	M24	18.0mm	14.0mm
SES3-20.0X16.0	#3	M30, M27	20.0mm	16.0mm
SES3-22.4X18.0	#3	M33	22.4mm	18.0mm
SES3-25.0X20.0	#3	M36, M33	25.0mm	20.0mm
SES3-28.0X22.4	#3	M42, M39	28.0mm	22.4mm



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"

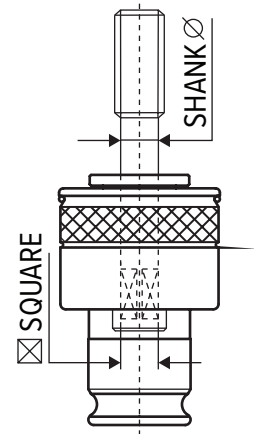


## TAP COLLETS

### TORQUE CONTROL TAP COLLETS - DIN 371/376 STANDARD

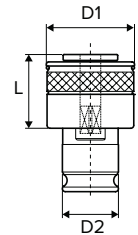
Standard collets are used for standard and coolant-thru tap holders.  
Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SES1-2.5X2.1	#1	M1.4, M1.8, M3	2.50mm	2.10mm
SES1-2.8X2.1	#1	M2, M2.2, M2.5, M4	2.80mm	2.10mm
SES1-3.5X2.7	#1	M3, M5	3.50mm	2.70mm
SES1-4.0X3.0	#1	M3.5	4.00mm	3.00mm
SES1-4.5X3.4	#1	M4, M6	4.50mm	3.40mm
SES1-6.0X4.9	#1	M5, M6, M8	6.00mm	4.90mm
SES1-7.0X5.5	#1	M10	7.00mm	5.50mm
SES1-8.0X6.2	#1	M8, M10	8.00mm	6.20mm
SES1-9.0X7.0	#1	M12	9.00mm	7.00mm
SES1-10.0X8.0	#1	M10	10.0mm	8.00mm
SES1-11.0X9.0	#1	M14	11.0mm	9.00mm
SES2-3.5X2.7	#2	M3, M5	3.50mm	2.70mm
SES2-4.0X3.0	#2	M3.5	4.00mm	3.00mm
SES2-4.5X3.4	#2	M4, M6	4.50mm	3.40mm
SES2-6.0X4.9	#2	M5, M6, M8	6.00mm	4.90mm
SES2-7.0X5.5	#2	M10	7.00mm	5.50mm
SES2-8.0X6.2	#2	M8, M10	8.00mm	6.20mm
SES2-9.0X7.0	#2	M12	9.00mm	7.00mm
SES2-10.0X8.0	#2	M10	10.0mm	8.00mm
SES2-11.0X9.0	#2	M14	11.0mm	9.00mm
SES2-12.0X9.0	#2	M16	12.0mm	9.00mm
SES2-14.0X11.0	#2	M18	14.0mm	11.0mm
SES2-16.0X12.0	#2	M20	16.0mm	12.0mm
SES2-18.0X14.5	#2	M22, M24	18.0mm	14.5mm
SES3-8.0X6.2	#2	M8, M10	8.00mm	6.20mm
SES3-9.0X7.0	#3	M12	9.00mm	7.00mm
SES3-10.0X8.0	#3	M10	10.0mm	8.00mm
SES3-11.0X9.0	#3	M14	11.0mm	9.00mm
SES3-12.0X9.0	#3	M16	12.0mm	9.00mm
SES3-14.0X11.0	#3	M18	14.0mm	11.0mm
SES3-16.0X12.0	#3	M20	16.0mm	12.0mm
SES3-18.0X14.5	#3	M22, M24	18.0mm	14.5mm
SES3-20.0X16.0	#3	M27, M30	20.0mm	16.0mm
SES3-22.0X18.0	#3	M30	22.0mm	18.0mm
SES3-25.0X20.0	#3	M33, M36	25.0mm	20.0mm
SES3-28.0X22.0	#3	M36	28.0mm	22.0mm



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"



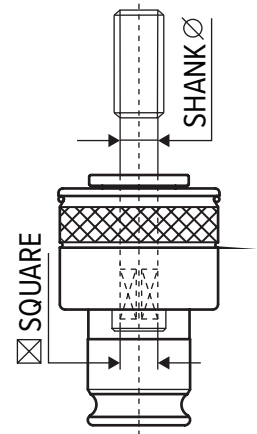
# TAP HOLDERS

## TAP COLLETS

### TORQUE CONTROL TAP COLLETS - JIS STANDARD

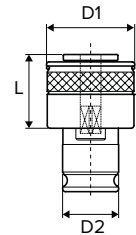
Standard collets are used for standard and coolant-thru tap holders.  
Adjustable torque - see preset torque tables on page 226.

Part Number	System	Tap Size	Tap Shank $\phi$	Drive Square $\boxtimes$
SES1-3.0X2.5	#1	M2	3.00mm	2.50mm
SES1-4.0X3.2	#1	M3	4.00mm	3.20mm
SES1-5.0X4.0	#1	M4, M4.5	5.00mm	4.00mm
SES1-5.5X4.5	#1	M5, M5.5	5.50mm	4.50mm
SES1-6.0X4.5	#1	M6	6.00mm	4.50mm
SES1-6.2X5.0	#1	M7, M8	6.20mm	5.00mm
SES1-7.0X5.5	#1	M9, M10	7.00mm	5.50mm
SES1-8.0X6.0	#1	M11	8.00mm	6.00mm
SES1-8.5X6.5	#1	M12	8.50mm	6.50mm
SES1-10.5X8.0	#1	M14, M15	10.5mm	8.00mm
SES2-6.0X4.5	#2	M6	6.00mm	4.50mm
SES2-6.2X5.0	#2	M7, M8	6.20mm	5.00mm
SES2-7.0X5.5	#2	M9, M10	7.00mm	5.50mm
SES2-8.0X6.0	#2	M11	8.00mm	6.00mm
SES2-8.5X6.5	#2	M12	8.50mm	6.50mm
SES2-9.5X7.0	#2	M13	9.50mm	7.00mm
SES2-10.5X8.0	#2	M14, M15	10.5mm	8.00mm
SES2-12.5X10.0	#2	M16	12.5mm	10.0mm
SES3-13.0X10.0	#2	M16	13.0mm	10.0mm
SES2-14.0X11.0	#2	M18	14.0mm	11.0mm
SES2-15.0X12.0	#2	M20	15.0mm	12.0mm
SES2-17.0X13.0	#2	M22	17.0mm	13.0mm
SES3-10.5X8.0	#3	M14, M15	10.5mm	8.00mm
SES3-12.5X10.0	#3	M16	12.5mm	10.0mm
SES3-13.0X10.0	#3	M17	13.0mm	10.0mm
SES3-14.0X11.0	#3	M18	14.0mm	11.0mm
SES3-15.0X12.0	#3	M20	15.0mm	12.0mm
SES3-17.0X13.0	#3	M22	17.0mm	13.0mm
SES3-19.0X15.0	#3	M24, M25	19.0mm	15.0mm
SES3-20.0X15.0	#3	M26, M27	20.0mm	15.0mm
SES3-21.0X17.0	#3	M28	21.0mm	17.0mm
SES3-23.0X17.0	#3	M30	23.0mm	17.0mm
SES3-23.0X17.0	#3	M30	23.0mm	17.0mm
SES3-24.0X19.0	#3	M32	24.0mm	19.0mm
SES3-25.0X19.0	#3	M33	25.0mm	19.0mm
SES3-26.0X21.0	#3	M34, M35	26.0mm	21.0mm
SES3-28.0X21.0	#3	M36, M38	28.0mm	21.0mm



### DIMENSIONAL DATA

System	L	D1	D2
#1	0.98"	1.28"	0.75"
#2	1.34"	1.99"	1.22"
#3	1.77"	2.83"	1.89"



## TAP HOLDER ACCESSORIES

### TAP COLLET REDUCERS

Part Number	Description
<b>CRE-2/1</b>	System #2 Reduction Adapter to System #1
<b>CRE-3/2</b>	System #3 Reduction Adapter to System #2



### TAP COLLET RACKS

Part Number	Description
<b>RACK-ER20/1TAP</b>	System #1 Tap Collet Rack, 24 piece capacity
<b>RACK-ER32/2TAP</b>	System #2 Tap Collet Rack, 32 piece capacity



### SPANNER WRENCH FOR TAP HOLDERS

Part Number	Description
<b>T05-SPAN</b>	Fits System #1 Torque Control Tap Collets
<b>T10-SPAN</b>	Fits System #2 Torque Control Tap Collets
<b>T15-SPAN</b>	Fits System #3 Torque Control Tap Collets



### COOLANT TUBE WRENCH FOR HSK HOLDERS

Part Number	Description
<b>HSK40-WRENCH</b>	Wrench for HSK40 Coolant Tube
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube



### COOLANT TUBE FOR HSK HOLDERS

Part Number	Description
<b>HSK40-TUBE</b>	Coolant Tube for HSK40 holder
<b>HSK63-TUBE</b>	Coolant Tube for HSK63 holder
<b>HSK100-TUBE</b>	Coolant Tube for HSK100 holder



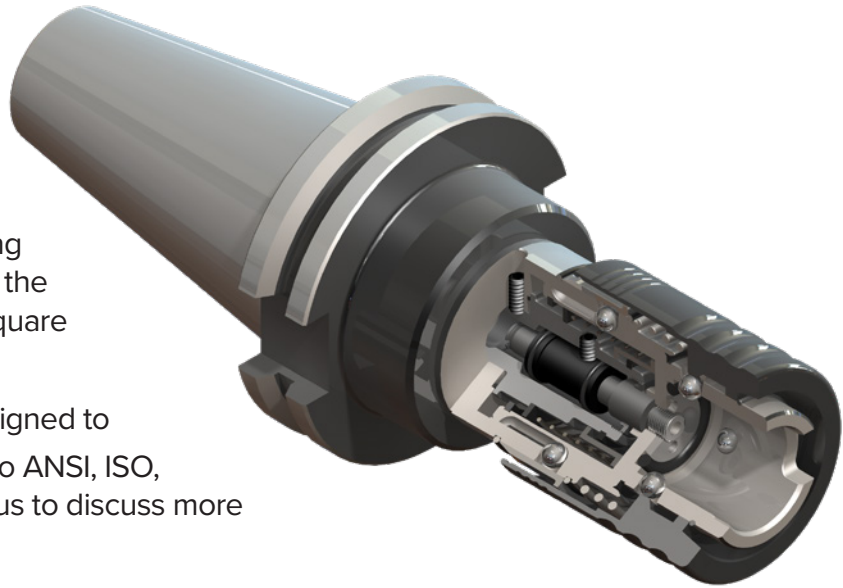




## TAPPING - TECHNICAL DETAILS

### Tap Shank Standards

- Tap shanks are manufactured to many international standards, each specified by their country of origin. Although most taps sold in North America comply with the ANSI B94.9 standard, we appreciate your assistance to help further qualify the matching tap collet necessary by providing the round shank size and the drive square dimensions.
- Please note not all taps were designed to be held in a tap collet compliant to ANSI, ISO, DIN or JIS standards. Please call us to discuss more alternatives for tapping.



### Tap Collet Systems

- All Lyndex-Nikken tap collets are based on the “Bilz” standard quick-change system and will interchange with other manufacturers compliant to the same standard.
- Lyndex-Nikken does not offer tap collets for the Intertap system.
- Please take into consideration the nature of each application before determining which system (system 1,2 or 3) suits your needs. If the same tap collet size is offered within two different systems, we recommend that harder materials should utilize a larger tap collet series to help sustain the required torque capacity and rigidity for the operation.

### Rigid Tap Holders

- Rigid Tap Holders should only be used on equipment that have the ability to synchronize spindle rotation and spindle feed, commonly referred to as “Direct Tapping”, “Rigid Tapping” or “Electronic Lead Screw Tapping”.
- Rigid Tap Holders do not have the tension and compression ability as a traditional float mechanism and therefore offer no protection from overloads such as under-sized holes, wornout taps or misplaced cored holes in castings.
- The use of Rigid Tap Holders on non-synchronized machinery will result in poor threads and/or damage to tapping holder or collets.

## TAP DIMENSIONAL DATA

TAP HOLDERS

Shank Diameter		Square Diameter		U.S.		JIS	DIN 371	DIN 376	ISO
Inch	Metric	Inch	Metric	Metric	Inch	Metric	Metric	Metric	Metric
0.088	2.2	0.070	1.8				M3		
0.098	2.5	0.078	2.0				M3.5, M2		
0.098	2.5	0.083	2.1						M1 - M1.8
0.109	2.8	0.088	2.2				M2.5, M2.2		
0.110	2.8	0.083	2.1						M2 - M2.5
0.123	3.2	0.098	2.5				M4, M3		
0.138	3.5	0.106	2.7						M3
0.139	3.6	0.109	2.8				M4.5, M3.5		
0.141	3.6	0.110	2.8	M1.6 - M3.5	#0 - #6				
0.156	4.0	0.123	3.2				M5, M4		
0.157	4.0	0.118	3.0						M3.5
0.168	4.3	0.131	3.3	M4	#8				
0.176	4.5	0.139	3.6				M6		
0.177	4.5	0.134	3.4						M4
0.194	4.9	0.152	3.9	M5	#10				
0.196	5.0	0.156	4.0				M5		
0.197	5.0	0.157	4.0			M4			
0.217	5.5	0.177	4.5			M5			
0.219	5.6	0.176	4.5				M5		
0.220	5.6	0.165	4.2	M6	#12				
0.225	5.7	0.191	4.9		1/4"				
0.236	6.0	0.193	4.9					M8	
0.236	6.0	0.177	4.5			M6			
0.236	6.0	0.193	4.9						M5, M6
0.244	6.2	0.197	5.0			M7, M8			
0.246	6.3	0.196	5.0				M8, M6		
0.276	7.0	0.217	5.5			M9, M10		M10	
0.278	7.1	0.219	5.6				M7		
0.313	8.0	0.246	6.3				M11, M10, M8		
0.315	8.0	0.236	6.0			M11			
0.315	8.0	0.244	6.2						M8
0.318	8.1	0.238	6.0	M7, M8	5/16"				
0.323	8.2	0.242	6.1		7/16"				
0.335	8.5	0.256	6.5			M12			
0.352	9.0	0.278	7.1				M12, M9		
0.354	9.0	0.276	7.0					M12	
0.367	9.3	0.275	7.0	M12	1/2"				
0.381	9.7	0.286	7.3	M10	3/8"				
0.391	10.0	0.313	8.0				M10		
0.394	10.0	0.315	8.0						M10
0.413	10.5	0.315	8.0			M14, M15			
0.429	10.9	0.322	8.2	M14	9/16"				
0.433	11.0	0.354	9.0					M14	
0.438	11.2	0.352	9.0				M14		
0.451	11.5	0.406	10.3	M18	11/16"				
0.472	12.0	0.354	9.0					M16	
0.480	12.2	0.360	9.1	M16	5/8"				
0.489	12.5	0.391	10.0				M16		
0.492	12.5	0.394	10.0			M16			

# TAP HOLDERS



## TAP DIMENSIONAL DATA

Shank Diameter		Square Diameter		U.S.		JIS	DIN 371	DIN 376	ISO
Inch	Metric	Inch	Metric	Metric	Inch	Metric	Metric	Metric	Metric
0.512	13.0	0.394	10.0			M17			
0.547	14.0	0.438	11.2				M20, M18		
0.551	14.0	0.433	11.0			M18		M18	
0.590	15.0	0.442	11.2		3/4"				
0.591	15.0	0.472	12.0			M20			
0.626	16.0	0.489	12.5				M22		
0.630	16.0	0.472	12.0					M20	
0.652	16.6	0.489	12.4	M20	13/16"				
0.669	17.0	0.512	13.0			M22			
0.697	17.7	0.523	13.3	M22	7/8"				
0.704	18.0	0.547	14.0				M24		
0.709	18.0	0.571	14.5					M22, M24	
0.748	19.0	0.591	15.0			M25			
0.760	19.3	0.570	14.5	M24	15/16"				
0.782	20.0	0.626	16.0				M30, M27		
0.787	20.0	0.630	16.0					M27	
0.787	20.0	0.591	15.0			M26, M27			
0.800	20.3	0.600	15.2	M25	1"				
0.827	21.0	0.669	17.0			M28			
0.866	22.0	0.709	18.0					M30	
0.876	22.4	0.704	18.0				M33		
0.896	22.8	0.672	17.1	M27	1-1/16"				
0.906	23.0	0.669	17.0			M30			
0.945	24.0	0.748	19.0			M32			
0.978	25.0	0.782	20.0				M36, M33		
0.984	25.0	0.787	20.0					M33	
0.984	25.0	0.748	19.0			M33			
1.021	25.9	0.766	19.5	M30	1-3/16"				
1.024	26.0	0.827	21.0			M34, M35			
1.095	28.0	0.876	22.4				M42, M39		
1.102	28.0	0.866	22.0					M36	
1.102	28.0	0.827	21.0			M36, M38			
1.108	28.1	0.831	21.1	M33	1-5/16"				
1.181	30.0	0.906	23.0			M39, M40			
1.260	32.0	0.945	24.0					M39, M42	
1.260	32.0	1.024	26.0			M42			
1.417	36.0	1.142	29.0					M45, M48	
1.575	40.0	1.260	32.0					M52	

## TORQUE CONTROL TAP COLLET TORQUE SPECIFICATIONS

### PRESET TORQUE FOR TAP COLLETS - ANSI

Tap Size	Torque Setting (ft./lbs.)
#0-1	0.14
#2	0.22
#3	0.29
#4	0.36
#5	0.58
#6	0.72
#8	1
#10	2
#12	3

Tap Size	Torque Setting (ft./lbs.)
1/4"	4
5/16"	7
3/8"	12
7/16"	16
1/2"	24
9/16"	29
5/8"	36
11/16"	44
3/4"	51

Tap Size	Torque Setting (ft./lbs.)
13/16"	57
7/8"	72
15/16"	77
1"	101
1-1/8"	145

### PRESET TORQUE FOR TAP COLLETS - ISO

Tap Shank x Square	Tap Size	Torque Setting (N.m)	
2.24 x 1.8	M 3	0.5	○
2.5 x 2	M 2	0.3	■
	M 3.5	0.8	○
2.8 x 2.24	M 2.2	0.35	■
	M 2.5	0.4	○
3.15 x 2.5	M 3	0.5	■
	M 4	1.2	○
3.55 x 2.8	M 3.5	0.8	■
	M 4.5	1.6	○
4 x 3.15	M 4	1.2	■
	M 5	2	○
4.5 x 3.55	M 4.5	1.6	■
	M 6	4	○
5 x 4	M 5	2	○
	M 7	6	○
5.6 x 4.5	M 6	4	■
	M 8	8	○
7.1 x 5.6	M 7	6	○
	M 10	16	■
8 x 6.3	M 8	8	○
	M 10	16	■
	M 11	18	■
	M 12	22	○
10 x 8	M 10	16	○
	M 14	36	○
11.2 x 9	M 16	40	○
	M 20	70	■
14 x 11.2	M 18	63	○
	M 22	80	○
16 x 12.5	M 24	125	○
	M 30	220	○
22.4 x 18	M 33	240	○
	M 36	280	■
25 x 20	M 36	280	■
	M 39	320	○
28 x 22.4	M 39	320	○
	M 42	420	■

### PRESET TORQUE FOR TAP COLLETS - DIN

Tap Shank x Square	Tap Size	Torque Setting (N.m)	
2.5 x 2.1	M 1.8	0.3	○
	M 3	0.5	■
2.8 x 2.1	M 2	0.3	■
	M 2.2	0.35	■
	M 2.5	0.4	○
	M 4	1.2	■
3.5 x 2.7	M 3	0.5	○
	M 5	2	■
4 x 3	M 3.5	0.8	○
	M 4	1.2	○
4.5 x 3.4	M 6	4	■
	M 5	2	■
6 x 4.9	M 6	4	■
	M 8	8	○
7 x 5.5	M 10	16	○
	M 8	8	○
8 x 6.2	M 8	8	○
	M 11	18	■
9 x 7	M 12	22	○
	M 10	16	○
10 x 8	M 14	36	○
	M 16	40	○
11 x 9	M 16	40	■
	M 18	63	○
12 x 9	M 16	40	○
	M 18	63	○
14 x 11	M 16	40	■
	M 18	63	○
16 x 12	M 20	70	○
	M 22	80	■
18 x 14.5	M 24	125	○
	M 27	140	○
20 x 16	M 27	140	○
	M 30	220	○
22 x 18	M 30	220	○
	M 33	240	○
25 x 20	M 33	240	○
	M 36	280	■
28 x 22	M 36	280	○

Note:  
 ○ - Standard setting  
 ■ - Setting on request

### PRESET TORQUE FOR TAP COLLETS - JIS

Tap Shank x Square	Tap Size	Torque Setting (N.m)
3 x 2.5	M 2	0.6
4 x 3.2	M 3	1
5 x 4	M 4	2.3
5.5 x 4.5	M 5	3.6
6 x 4.5	M 6	5.9
6.2 x 5	M 8	12
7 x 5.5	M 10	22
8 x 6	M 11	25
8.5 x 6.5	M 12	31
9.5 x 7	M 13	39
10.5 x 8	M 14	46
12.5 x 10	M 16	51
13 x 10	M 17	67
14 x 11	M 18	80
15 x 12	M 20	88
17 x 13	M 22	98
19 x 15	M 24	132
20 x 15	M 27	157
21 x 17	M 28	175
23 x 17	M 30	225
24 x 19	M 32	235
25 x 19	M 33	245
26 x 21	M 34	265
28 x 21	M 36	304



# TG/DA COLLET CHUCKS



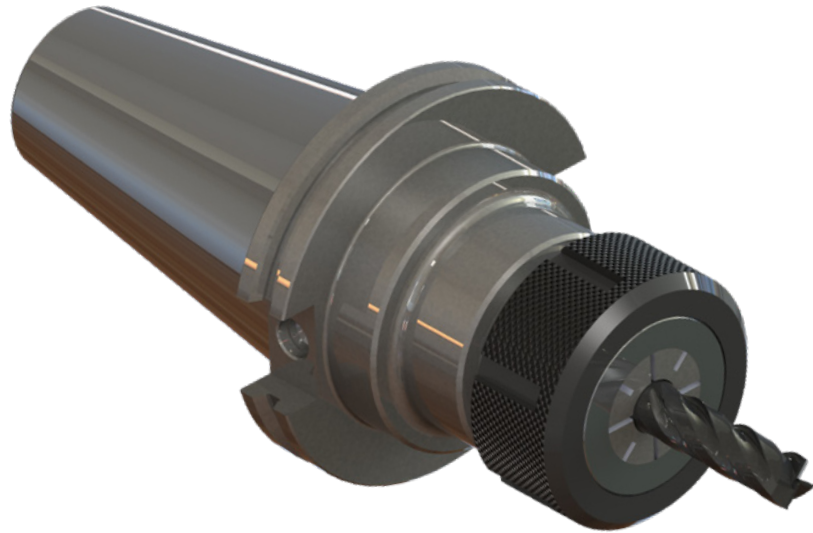
TG/DA COLLET CHUCKS

## TG/DA COLLET CHUCKS



## TG COLLET CHUCK FEATURES

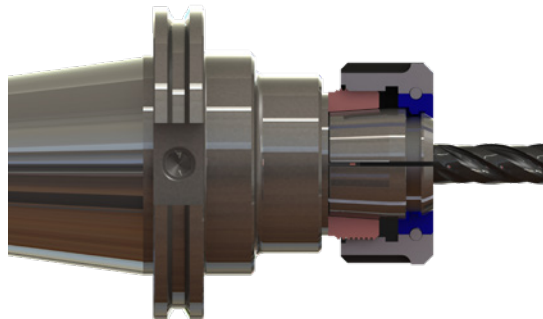
- Made from low-alloy steel SAE8620/20MnCr5
- Heat treated to 56-60 HRc
- Lyndex-Nikken TG holders provide great rigidity
- Tapers are ground to AT3 standards or better



- All Lyndex-Nikken TG Collet Chucks come standard with bearing nuts
- Bearing Nuts reduce collet twisting, maintaining repeatability of accuracy
- Improves T.I.R. to wear cutting tools evenly



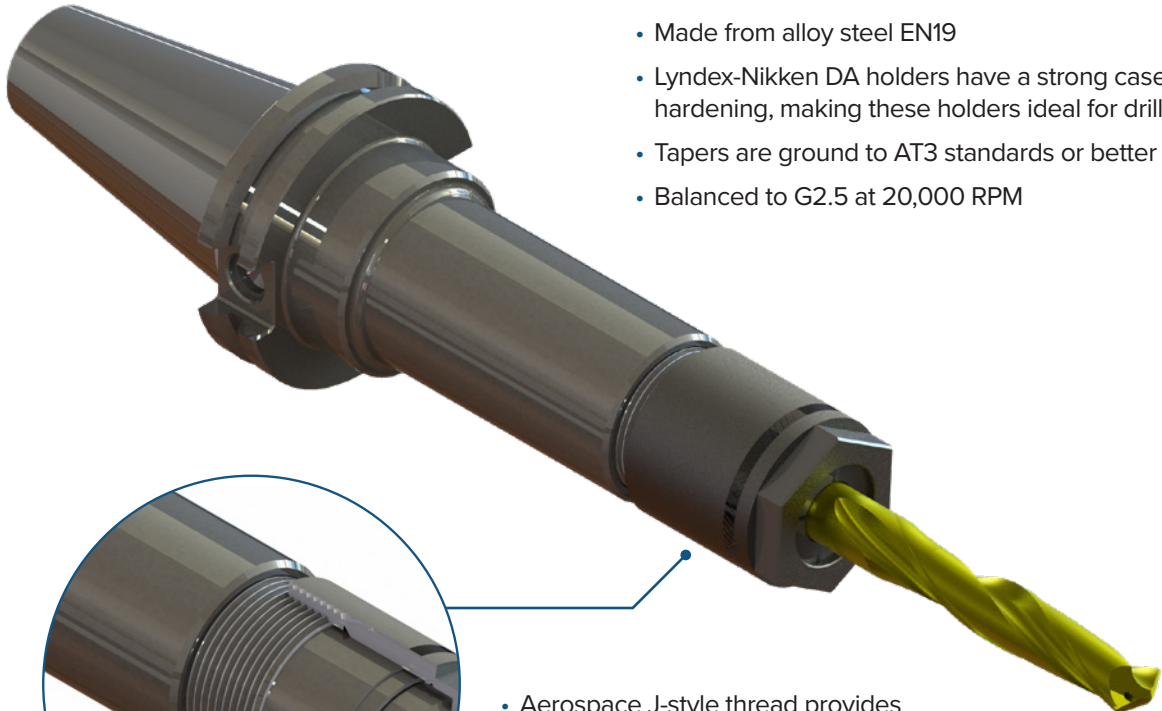
- Made from Spring Steel, heat treated and CNC slotted to maintain precision ID bore cylindricity
- Available in standard and high pressure coolant-thru capable style collets. Coolant collets are steel sealed and mechanically sealed by design.



- 8 degree included collet angle allows high precision and greater clamping torque than 16 degree ER collet chucks

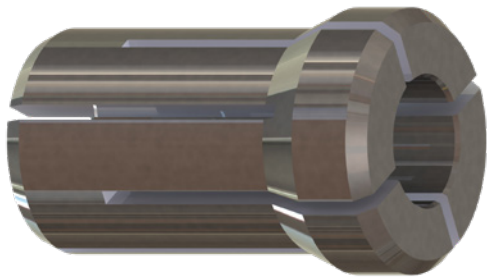


## DA COLLET CHUCK FEATURES

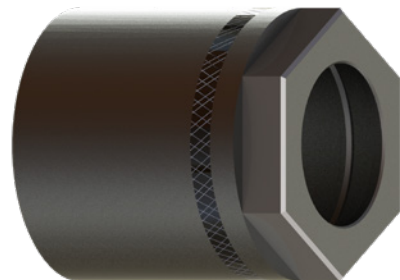


- Made from alloy steel EN19
- Lyndex-Nikken DA holders have a strong case hardening, making these holders ideal for drilling
- Tapers are ground to AT3 standards or better
- Balanced to G2.5 at 20,000 RPM

- Aerospace J-style thread provides smooth torque transmission between the nut and the holder, giving Lyndex-Nikken DA Collet Chucks high clamping torque.



- Made from Spring Steel
- Heat treated and stress relieved for optimal hardness and flexibility
- Precision ground and slotted



- Made from Spring Steel
- Ground mating surface to collet assures maximum clamping torque to the cutting tool

## CAT TG COLLET CHUCKS

### FEATURES

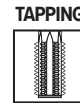
- Perpendicular contact between retention knob and holder
- AT3 or better taper



**T.I.R.**  
<.0002" at collet face



**Speed**  
Up to 20,000 rpm

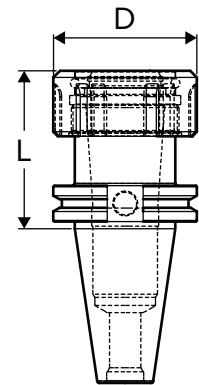


Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### CAT40

Part Number	Style	Collet Series	Collet Range	Nut Wrench	L	L2	Max. RPM
<b>C4007-0750-3.00</b>	Stubby	75TG	3/64-3/4"	75TG-SPAN	3.00"	1.89"	20K
<b>C4007-1000-2.75</b>	Stubby	100TG	3/64-1"	100TG-SPAN	2.76"	2.50"	20K
<b>C4007-1000-3.50</b>	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.50"	20K
<b>C4007-1000-5.50</b>	Standard	100TG	3/64-1"	100TG-SPAN	5.51"	2.50"	20K

TG Collet Chucks come with back-up screw.

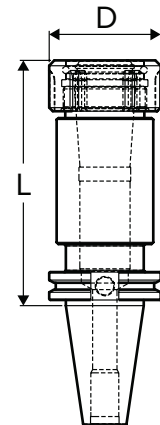


Stubby

### CAT50

Part Number	Style	Collet Series	Collet Range	Nut Wrench	L	D	Max. RPM
<b>C5007-1000-3.50</b>	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.50"	20K
<b>C5007-1000-5.50</b>	Standard	100TG	3/64-1"	100TG-SPAN	5.50"	2.50"	20K
<b>C5007-1000-7.50</b>	Standard	100TG	3/64-1"	100TG-SPAN	7.50"	2.50"	20K
<b>C5007-1000-10.00</b>	Standard	100TG	3/64-1"	100TG-SPAN	10.00"	2.50"	20K

TG Collet Chucks come with back-up screw.



Standard

### Toolholder Assembly Procedure

To use: first insert the collet into the chuck nut by squeezing the collet and pressing its face into the chuck nut's retaining ring until the collet's collar is fully seated. Then load the assembly into the chuck, insert a cutting tool, and tighten with the appropriate nut wrench to the recommended tightening torque.

To remove: simply squeeze the collet while pulling it from the chuck nut at an angle.

When removing the back-up screw, TG Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See TG Coolant Collets on pages 233-235.





# TG/DA COLLET CHUCKS



## BT TG COLLET CHUCKS

### FEATURES

- Perpendicular contact between retention knob and holder
- AT3 or better taper



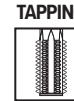
**T.I.R.**  
<.0002" at collet face



**Speed**  
Up to 20,000 rpm



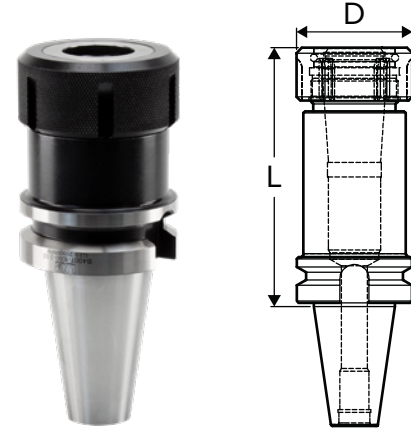
**Coolant-Thru**  
Thru-tool coolant



Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

### BT30/40/50

Part Number	Style	Collet Series	Collet Range	Nut Wrench	L	D	Max. RPM
<b>B3007-0750-2.50</b>	BT30	75TG	3/64-3/4"	75TG-SPAN	2.50"	1.89"	20K
<b>B3007-1000-3.94</b>	BT30	100TG	3/64-1"	100TG-SPAN	3.94"	2.50"	20K
<b>B4007-0750-3.00</b>	BT40	75TG	3/64-3/4"	75TG-SPAN	3.00"	1.89"	20K
<b>B4007-1000-3.50</b>	BT40	100TG	3/64-1"	100TG-SPAN	3.50"	2.50"	20K
<b>B5007-1000-3.50</b>	BT50	100TG	3/64-1"	100TG-SPAN	3.50"	2.50"	20K
<b>B4017-1000-5.50</b>	BT50	100TG	3/64-1"	100TG-SPAN	5.50"	2.50"	20K



TG Collet Chucks come with back-up screw.

TG/DA COLLET CHUCKS

### Toolholder Assembly Procedure

To use: first insert the collet into the chuck nut by squeezing the collet and pressing its face into the chuck nut's retaining ring until the collet's collar is fully seated. Then load the assembly into the chuck, insert a cutting tool, and tighten with the appropriate nut wrench to the recommended tightening torque.

To remove: simply squeeze the collet while pulling it from the chuck nut at an angle.

When removing the back-up screw, TG Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!

See TG Coolant Collets on pages 233-235



TG Collets  
Pages 233-235



TG Torque Wrench  
Page 236



TG Back Up Screw  
Page 236



TG Nut  
Page 236

## STRAIGHT SHANK TG COLLET CHUCKS



**T.I.R.**  
<.0002" at collet face



**Coolant-Thru**  
Thru-tool coolant



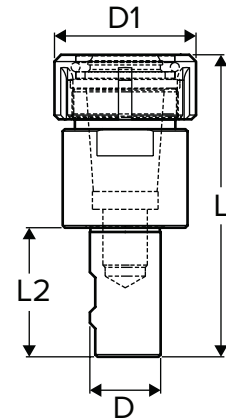
### Features of Straight Shank Tooling

- Straight shank tooling may be used to extend tooling reach for extended length operations
- This option is less costly than extended length integral shank tooling
- Can be used on machining centers or lathes
- When loaded into larger holders, their reduced O.D. permits drilling operations within large holes or whenever tight clearances are encountered

### STRAIGHT SHANK

Part Number	Collet Series	Collet Range	Nut Wrench	D	L	L2	D1
<b>S1507-1000-9.00</b>	100TG	3/64-1"	100TG-SPAN	2.50"	9.00"	6.00"	2.50"

TG Collet Chucks come with back-up screw.



### Toolholder Assembly Procedure

To use: first insert the collet into the chuck nut by squeezing the collet and pressing its face into the chuck nut's retaining ring until the collet's collar is fully seated. Then load the assembly into the chuck, insert a cutting tool, and tighten with the appropriate nut wrench to the recommended tightening torque.

To remove: simply squeeze the collet while pulling it from the chuck nut at an angle.

# TG/DA COLLET CHUCKS



TG/DA COLLET CHUCKS

## 75TG COLLETS

TG standard collets collapse approximately 1/64"

### INCH

Size Range: 3/64" - 3/4"

Part Number	Size
075-003	3/64"
075-004	1/16"
075-005	5/64"
075-006	3/32"
075-007	7/64"
075-008	1/8"
075-009	9/64"
075-010	5/32"
075-011	11/64"
075-012	3/16"
075-013	13/64"
075-014	7/32"
075-015	15/64"
075-016	1/4"
075-017	17/64"
075-018	9/32"
075-019	19/64"
075-020	5/16"
075-021	21/64"
075-022	11/32"
075-023	23/64"
075-024	3/8"
075-025	25/64"
075-026	13/32"
075-027	27/64"
075-028	7/16"
075-029	29/64"
075-030	15/32"
075-031	31/64"
075-032	1/2"
075-033	33/64"
075-034	17/32"
075-035	35/64"
075-036	9/16"
075-037	37/64"
075-038	19/32"
075-039	39/64"
075-040	5/8"
075-041	41/64"
075-042	21/32"
075-043	43/64"
075-044	11/16"
075-045	45/64"
075-046	23/32"
075-047	47/64"
075-048	3/4"

### INCH - COOLANT-THRU

Size Range: 1/8" - 3/4"

Part Number	Size
-	3/64"
-	1/16"
-	5/64"
-	3/32"
-	7/64"
075-008(C)	1/8"
075-009(C)	9/64"
075-010(C)	5/32"
075-011(C)	11/64"
075-012(C)	3/16"
075-013(C)	13/64"
075-014(C)	7/32"
075-015(C)	15/64"
075-016(C)	1/4"
075-017(C)	17/64"
075-018(C)	9/32"
075-019(C)	19/64"
075-020(C)	5/16"
075-021(C)	21/64"
075-022(C)	11/32"
075-023(C)	23/64"
075-024(C)	3/8"
075-025(C)	25/64"
075-026(C)	13/32"
075-027(C)	27/64"
075-028(C)	7/16"
075-029(C)	29/64"
075-030(C)	15/32"
075-031(C)	31/64"
075-032(C)	1/2"
075-033(C)	33/64"
075-034(C)	17/32"
075-035(C)	35/64"
075-036(C)	9/16"
075-037(C)	37/64"
075-038(C)	19/32"
075-039(C)	39/64"
075-040(C)	5/8"
075-041(C)	41/64"
075-042(C)	21/32"
075-043(C)	43/64"
075-044(C)	11/16"
075-045(C)	45/64"
075-046(C)	23/32"
075-047(C)	47/64"
075-048(C)	3/4"



75TG Collet



75TG Collet - Coolant-Thru

### 75TG COLLETS SETS

075-SET-12	12 Piece 75TG Collet Set: 1/16" - 3/4" by 1/16ths
075-SET-17	17 Piece 75TG Collet Set: 1/8" - 3/8" by 1/64ths
075-SET-23	23 Piece 75TG Collet Set: 1/16" - 3/4" by 1/32nds
075-SET-27	27 Piece 75TG Collet Set: 3/32" - 1/2" by 1/64ths
075-SET-45	45 Piece 75TG Collet Set: 1/16" - 3/4" by 1/64ths

**Notes:**

- Our coolant collets seal up to a maximum coolant pressure of 1000 psi.
- Range collapsibility is 0.004 - 0.006" for coolant collet.
- See dimensional data for TG Collets on page 235.

Our coolant collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage will result. Coolant collets are steel sealed and mechanically sealed by design.

Notes: Cutter must be inserted the full length of the collet.

## 100TG COLLETS

TG standard collets collapse approximately 1/64"

### INCH

Size Range: 3/64" - 1"

Part Number	Size
100-003	3/64"
100-004	1/16"
100-005	5/64"
100-006	3/32"
100-007	7/64"
100-008	1/8"
100-009	9/64"
100-010	5/32"
100-011	11/64"
100-012	3/16"
100-013	13/64"
100-014	7/32"
100-015	15/64"
100-016	1/4"
100-017	17/64"
100-018	9/32"
100-019	19/64"
100-020	5/16"
100-021	21/64"
100-022	11/32"
100-023	23/64"
100-024	3/8"
100-025	25/64"
100-026	13/32"
100-027	27/64"
100-028	7/16"
100-029	29/64"
100-030	15/32"
100-031	31/64"
100-032	1/2"
100-033	33/64"
100-034	17/32"
100-035	35/64"
100-036	9/16"
100-037	37/64"
100-038	19/32"
100-039	39/64"
100-040	5/8"
100-041	41/64"
100-042	21/32"
100-043	43/64"
100-044	11/16"
100-045	45/64"
100-046	23/32"
100-047	47/64"
100-048	3/4"
100-049	49/64"
100-050	25/32"
100-051	51/64"
100-052	13/16"
100-053	53/64"
100-054	27/32"
100-055	55/64"
100-056	7/8"
100-057	57/64"
100-058	29/32"
100-059	59/64"
100-060	15/16"
100-061	61/64"
100-062	31/32"
100-063	63/64"
100-064	1"

### INCH - COOLANT-THRU

Size Range: 1/4" - 1"

Part Number	Size
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
100-016(C)	1/4"
100-017(C)	17/64"
100-018(C)	9/32"
100-019(C)	19/64"
100-020(C)	5/16"
100-021(C)	21/64"
100-022(C)	11/32"
100-023(C)	23/64"
100-024(C)	3/8"
100-025(C)	25/64"
100-026(C)	13/32"
100-027(C)	27/64"
100-028(C)	7/16"
100-029(C)	29/64"
100-030(C)	15/32"
100-031(C)	31/64"
100-032(C)	1/2"
100-033(C)	33/64"
100-034(C)	17/32"
100-035(C)	35/64"
100-036(C)	9/16"
100-037(C)	37/64"
100-038(C)	19/32"
100-039(C)	39/64"
100-040(C)	5/8"
100-041(C)	41/64"
100-042(C)	21/32"
100-043(C)	43/64"
100-044(C)	11/16"
100-045(C)	45/64"
100-046(C)	23/32"
100-047(C)	47/64"
100-048(C)	3/4"
100-049(C)	49/64"
100-050(C)	25/32"
100-051(C)	51/64"
100-052(C)	13/16"
100-053(C)	53/64"
100-054(C)	27/32"
100-055(C)	55/64"
100-056(C)	7/8"
100-057(C)	57/64"
100-058(C)	29/32"
100-059(C)	59/64"
100-060(C)	15/16"
100-061(C)	61/64"
100-062(C)	31/32"
100-063(C)	63/64"
100-064(C)	1"



### 100TG COOLANT COLLETS SETS

<b>100-SET-11(C)</b>	11 Piece 100TG Coolant Collet Set: 3/8" - 1" by 1/16ths
<b>100-SET-21(C)</b>	21 Piece 100TG Coolant Collet Set: 3/8" - 1" by 1/32nds
<b>100-SET-41(C)</b>	41 Piece 100TG Coolant Collet Set: 3/8" - 1" by 1/64ths

• Notes: Cutter must be inserted the full length of collet.

### 100TG COLLET SETS

<b>100-SET-08</b>	8 Piece 100TG Collet Set: 1/8" - 1" by 1/8ths
<b>100-SET-11</b>	11 Piece 100TG Collet Set: 3/8" - 1" by 1/16ths
<b>100-SET-13-MM</b>	13 Piece 100TG Collet Set: 4mm - 26mm
<b>100-SET-15</b>	15 Piece 100TG Collet Set: 1/8" - 1" by 1/16ths
<b>100-SET-21</b>	21 Piece 100TG Collet Set: 3/8" - 1" by 1/32nds
<b>100-SET-23</b>	23 Piece 100TG Collet Set: 1/16" - 3/4" by 1/32nds
<b>100-SET-30</b>	30 Piece 100TG Collet Set: 3/32" - 1" by 1/32nds
<b>100-SET-41</b>	41 Piece 100TG Collet Set: 3/8" - 1" by 1/64ths
<b>100-SET-45</b>	45 Piece 100TG Collet Set: 1/16" - 3/4" by 1/64ths
<b>100-SET-59</b>	59 Piece 100TG Collet Set: 3/32" - 1" by 1/64ths

Notes:

- Our TG coolant collets seal up to maximum coolant pressure of 1000 psi.
- Range collapsibility is 0.004 - 0.006" for coolant collet.
- See dimensional data for TG Collets on page 235.

Our coolant collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage will result. Coolant collets are steel sealed and mechanically sealed by design.

# TG/DA COLLET CHUCKS



TG/DA COLLET CHUCKS

## 100TG COLLETS

TG standard collets collapse approximately 1/64"

### METRIC

Size Range: 3mm - 26mm

Part Number	Size
100-203	3mm
100-204	4mm
100-205	5mm
100-206	6mm
100-207	7mm
100-208	8mm
100-210	10mm
100-211	11mm
100-212	12mm
100-213	13mm
100-214	14mm
100-216	16mm
100-218	18mm
100-219	19mm
100-220	20mm
100-222	22mm
100-224	24mm
100-225	25mm
100-226	26mm

### METRIC - COOLANT-THRU

Size Range: 6mm - 26mm

Part Number	Size
-	-
-	-
-	-
100-206(C)	6mm
100-208(C)	8mm
100-210(C)	10mm
100-212(C)	12mm
100-214(C)	14mm
100-216(C)	16mm
100-218(C)	18mm
100-220(C)	20mm
100-222(C)	22mm
100-224(C)	24mm
100-225(C)	25mm
100-226(C)	26mm



**Notes:**

- Cutter must be inserted the full length of the collet.
- Our coolant collets seal up to a maximum coolant pressure of 1000 psi.
- Range collapsibility is 0.004 - 0.006" for coolant collet.
- See dimensional data for TG Collets on page 235.

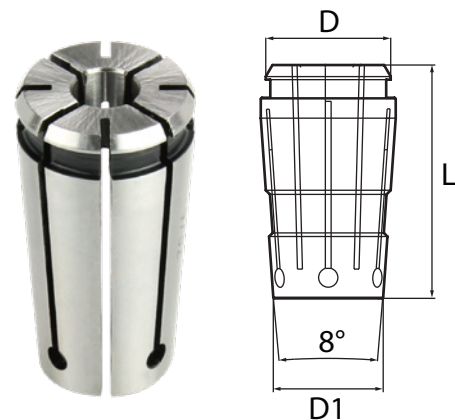
Our coolant collets are designed for use with cylindrical shank tools (no flats). Cutting tool should be inserted the full length of the collet. If these conditions are not met, coolant leakage will result. Coolant collets are steel sealed and mechanically sealed by design.

### DIMENSIONAL DATA

Style	D	D1	L	Collet Range	Nut Tightening Torque
75TG	1.063"	0.871"	1.844"	3/64-3/4"	55 ft.lbs
100TG	1.278"	1.121"	2.386"	3/64-1"	75 ft.lbs

**Notes:**

- Tolerance: Guaranteed to be within 0.0002" at the collet nose.
- Accuracy: Less than 0.0005" at 4 x D.



## TG ACCESSORIES

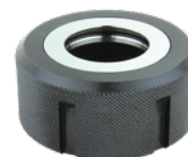
### 100TG COLLET RACK

Part Number	Description
<b>RACK-5C/100TG/SK25</b>	100TG Collet Rack, 30 piece capacity



### REPLACEMENT NUT FOR TG COLLET CHUCK

Part Number	Description
<b>75TG-NUT</b>	75TG Nut
<b>100TG-NUT</b>	100TG Nut



### SPANNER WRENCH FOR TG COLLET CHUCK

Part Number	Description
<b>100TG-SPAN</b>	Fits 100TG Collet Chuck Nut



### TORQUE WRENCH AND ATTACHMENTS FOR TG COLLET CHUCK

Part Number	Description
<b>TQW-200</b>	Torque Wrench "Handle"
<b>TQW-ER32/SK20/TG75(50)</b>	TG75 Attachment for TQW-200 Torque Wrench
<b>TQW-TG100(65)</b>	100TG Attachment for TQW-200 Torque Wrench



# TG/DA COLLET CHUCKS



## CAT, BT & NMTB DA COLLET CHUCKS



**T.I.R.**  
Minimal



**Speed**  
Up to 20,000 rpm

REAMING

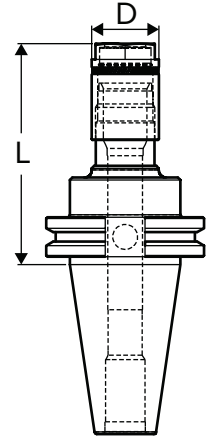


DRILLING



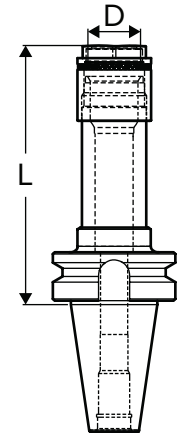
### CAT40/50

Part Number	Taper	Collet Series	Collet Range	L	D	Max. RPM
<b>C4007-0100-3.50</b>	CAT40	100DA	3/64 - 9/16"	3.50"	1.06"	20K
<b>C4007-0180-4.00</b>	CAT40	180DA	3/64 - 3/4"	4.00"	1.44"	20K
<b>C4007-0200-3.00</b>	CAT40	200DA	3/64 - 3/8"	3.00"	0.86"	20K
<b>C4007-0300-3.00</b>	CAT40	300DA	3/64 - 1/4"	3.00"	0.55"	20K
<b>C4017-0100-6.00</b>	CAT40	100DA	3/64 - 9/16"	6.00"	1.06"	20K
<b>C4017-0180-6.00</b>	CAT40	180DA	3/64 - 3/4"	6.00"	1.44"	20K
<b>C5017-0180-6.00</b>	CAT50	180DA	3/64 - 3/4"	6.00"	1.44"	20K



### BT30/40

Part Number	Taper	Collet Series	Collet Range	L	D	Max. RPM
<b>B3007-0100-3.00</b>	BT30	100DA	3/64 - 9/16"	3.00"	1.06"	20K
<b>B3007-0180-3.00</b>	BT30	180DA	3/64 - 3/4"	3.00"	1.44"	20K
<b>B3007-0200-3.00</b>	BT30	200DA	3/64 - 3/8"	3.00"	0.86"	20K
<b>B3007-0300-3.00</b>	BT30	300DA	3/64 - 1/4"	3.00"	0.55"	20K
<b>B4007-0100-3.50</b>	BT40	100DA	3/64 - 9/16"	3.50"	1.06"	20K
<b>B4007-0180-4.00</b>	BT40	180DA	3/64 - 3/4"	4.00"	1.44"	20K
<b>B4007-0200-3.00</b>	BT40	200DA	3/64 - 3/8"	3.00"	0.86"	20K
<b>B4007-0300-3.00</b>	BT40	300DA	3/64 - 1/4"	3.00"	0.55"	20K
<b>B4017-0100-6.00</b>	BT40	100DA	3/64 - 9/16"	6.00"	1.06"	20K
<b>B4017-0180-6.00</b>	BT40	180DA	3/64 - 3/4"	6.00"	1.44"	20K

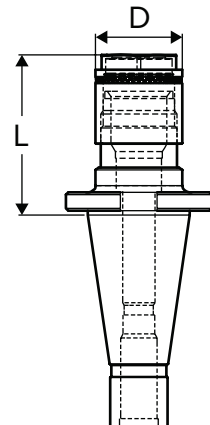


*Note: For light or medium milling, we recommend using ER or TG Collet Chucks. DA Collet Chucks are not designed for milling and can crack at the nose when overtightened or radial load is applied. Product warranty does not apply against cracking of collet, toolholder, or collet nut.*

### NMTB30

Part Number	Taper	Collet Series	Collet Range	L	D	Max. RPM
<b>N3007-0100-2.75</b>	NMTB30	100DA	3/64-9/16"	2.75"	1.06"	20K
<b>N3007-0200-2.50</b>	NMTB30	200DA	3/64-3/8"	2.50"	0.86"	20K

*NMTB shanks are suitable for use with Erickson Quick Change spindles.*



DA Collets  
Pages 239-40

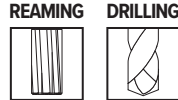


DA Back Up Screw  
Page 241



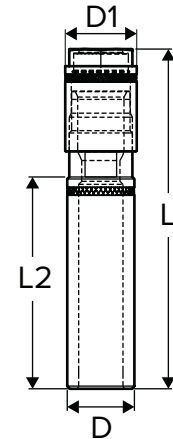
DA Nut  
Page 241

## DA COLLET CHUCK EXTENSION



### DA COLLET CHUCK EXTENSIONS

Part Number	Collet Series	Collet Range	L	L1	L2	D	D1
010-EXT-100S	100DA	1/64-9/16"	4.92"	1.66"	3.00"	1"	1.06"
010-EXT-100	100DA	1/64-9/16"	7.48"	1.66"	5.50"	1"	1.06"
018-EXT-125S	180DA	3/64-3/4"	4.92"	1.83"	3.00"	1-1/4"	1.44"
018-EXT-125	180DA	3/64-3/4"	7.48"	1.83"	5.50"	1-1/4"	1.44"
020-EXT-750S	200DA	3/64-3/8"	4.72"	1.34"	3.00"	3/4"	0.86"
020-EXT-750	200DA	3/64-3/8"	7.09"	1.34"	5.50"	3/4"	0.86"
030-EXT-500S	300DA	3/64-1/4"	4.50"	1.18"	3.00"	1/2"	0.55"
030-EXT-500	300DA	3/64-1/4"	6.92"	1.18"	5.50"	1/2"	0.55"



*Note: For light or medium milling, we recommend using ER or TG Collet Chucks. DA Collet Chucks are not designed for milling and can crack at the nose when overtightened or radial load is applied. Product warranty does not apply against cracking of collet, toolholder, or collet nut.*





# TG/DA COLLET CHUCKS

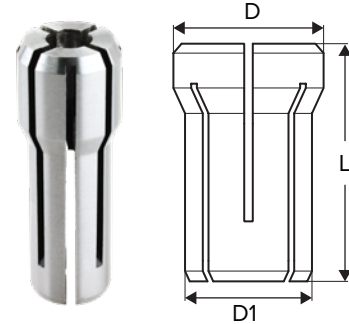


## 300DA & 200DA COLLETS

DA Collets collapse approximately 1/32"

### DA COLLET DIMENSIONAL DATA

Style	D	D1	L	Collet Range	Nut Tightening Torque
300DA	0.375"	0.300"	1.000"	3/64-1/4"	18 ft.lbs
200DA	0.539"	0.453"	1.193"	3/64-3/8"	25 ft.lbs
100DA	0.769"	0.653"	1.441"	3/64-9/16"	35 ft.lbs
180DA	1.035"	0.873"	1.637"	3/64-3/4"	40 ft.lbs



### 300DA COLLETS

Size Range: 3/64" - 1/4"

Part Number	Size
030-003	3/64"
030-004	1/16"
030-005	5/64"
030-006	3/32"
030-007	7/64"
030-008	1/8"
030-009	9/64"
030-010	5/32"
030-011	11/64"
030-012	3/16"
030-013	13/64"
030-014	7/32"
030-015	15/64"
030-016	1/4"

### 200DA COLLETS

Size Range: 3/64" - 3/8"

Part Number	Size
020-003	3/64"
020-004	1/16"
020-005	5/64"
020-006	3/32"
020-007	7/64"
020-008	1/8"
020-009	9/64"
020-010	5/32"
020-011	11/64"
020-012	3/16"
020-013	13/64"
020-014	7/32"
020-015	15/64"
020-016	1/4"
020-017	17/64"
020-018	9/32"
020-019	19/64"
020-020	5/16"
020-021	21/64"
020-022	11/32"
020-023	23/64"
020-024	3/8"



TG/DA COLLET CHUCKS

### 300DA COLLETS SETS

Part Number	Size
030-SET-07	7 Piece 300DA Collet Set: 1/16 - 1/4" by 1/32nds
030-SET-09	9 Piece 300DA Collet Set: 1/8 - 1/4" by 1/64ths
030-SET-13	13 Piece 300DA Collet Set: 1/16 - 1/4" by 1/64ths
030-SET-14	14 Piece 300DA Collet Set: 3/64 - 1/4" by 1/64ths

### 200DA COLLETS SETS

Part Number	Size
020-SET-09	9 Piece 200DA Collet Set: 1/8 - 3/8" by 1/32nds
020-SET-11	11 Piece 200DA Collet Set: 1/16 - 3/8" by 1/32nds
020-SET-17	17 Piece 200DA Collet Set: 1/8 - 3/8" by 1/64ths
020-SET-21	21 Piece 200DA Collet Set: 1/16 - 3/8" by 1/64ths

## 100DA & 180DA COLLETS

DA collets collapse approximately 1/32"

### 100DA COLLETS

Size Range: 3/64" - 9/16"

Part Number	Size
010-003	3/64"
010-004	1/16"
010-005	5/64"
010-006	3/32"
010-007	7/64"
010-008	1/8"
010-009	9/64"
010-010	5/32"
010-011	11/64"
010-012	3/16"
010-013	13/64"
010-014	7/32"
010-015	15/64"
010-016	1/4"
010-017	17/64"
010-018	9/32"
010-019	19/64"
010-020	5/16"
010-021	21/64"
010-022	11/32"
010-023	23/64"
010-024	3/8"
010-025	25/64"
010-026	13/32"
010-027	27/64"
010-028	7/16"
010-029	29/64"
010-030	15/32"
010-031	31/64"
010-032	1/2"
010-033	33/64"
010-034	17/32"
010-035	35/64"
010-036	9/16"

Note: See dimensional data for DA collets on page 239.

### 180DA COLLETS

Size Range: 3/64" - 3/4"

Part Number	Size
018-003	3/64"
018-004	1/16"
018-005	5/64"
018-006	3/32"
018-007	7/64"
018-008	1/8"
018-009	9/64"
018-010	5/32"
018-011	11/64"
018-012	3/16"
018-013	13/64"
018-014	7/32"
018-015	15/64"
018-016	1/4"
018-017	17/64"
018-018	9/32"
018-019	19/64"
018-020	5/16"
018-021	21/64"
018-022	11/32"
018-023	23/64"
018-024	3/8"
018-025	25/64"
018-026	13/32"
018-027	27/64"
018-028	7/16"
018-029	29/64"
018-030	15/32"
018-031	31/64"
018-032	1/2"
018-033	33/64"
018-034	17/32"
018-035	35/64"
018-036	9/16"
018-037	37/64"
018-038	19/32"
018-039	39/64"
018-040	5/8"
018-041	41/64"
018-042	21/32"
018-043	43/64"
018-044	11/16"
018-045	45/64"
018-046	23/32"
018-047	47/64"
018-048	3/4"



100DA Collet

### 100DA COLLET SETS

010-SET-08	8 Piece 100DA Collet Set: 1/8 - 9/16" by 1/16ths
010-SET-11	11 Piece 100DA Collet Set: 1/4 - 9/16" by 1/32nds
010-SET-15	15 Piece 100DA Collet Set: 1/8 - 9/16" by 1/32nds
010-SET-17	17 Piece 100DA Collet Set: 1/16 - 9/16" by 1/32nds
010-SET-21	21 Piece 100DA Collet Sets: 1/4 - 9/16" by 1/64ths
010-SET-29	29 Piece 100DA Collet Set: 1/8 - 9/16" by 1/64ths
010-SET-33	33 Piece 100DA Collet Set: 1/16 - 9/16" by 1/64ths



180DA Collet

### 180DA COLLET SETS

018-SET-09	9 Piece 180DA Collet Set: 1/4 - 3/4" by 1/16ths
018-SET-17	17 Piece 180DA Collet Set: 1/4 - 3/4" by 1/32nds
018-SET-21	21 Piece 180DA Collet Set: 1/8 - 3/4" by 1/32nds
018-SET-33	33 Piece 180DA Collet Set: 1/4 - 3/4" by 1/64ths
018-SET-41	41 Piece 180DA Collet Set: 1/8 - 3/4" by 1/64ths



## DA ACCESSORIES

### REPLACEMENT NUT FOR DA COLLET CHUCK

Part Number	Description
100DA-NUT	100DA Nut
180DA-NUT	180DA Nut
200DA-NUT	200DA Nut
300DA-NUT	300DA Nut



### REPLACEMENT BACK-UP SCREWS FOR DA COLLET CHUCK

Part Number	Description
100DA-3	Back-up screw for all CT, BT, NMTB 100DA Chucks
100DA-4	Back-up screw for 100DA Collet Chuck Extensions
180DA-3	Back-up screw for all CT, BT, 180DA Chucks
180DA-4	Back-up screw for 180DA Collet Chuck Extensions
200DA-3	Back-up screw for all CT, BT, NMTB 200DA Collet Chucks
200DA-4	Back-up screw for 200DA Collet Chuck Extensions
300DA-3	Back-up screw for all CT, BT, 300DA Collet Chucks
300DA-4	Back-up screw for 300DA Collet Chuck Extensions



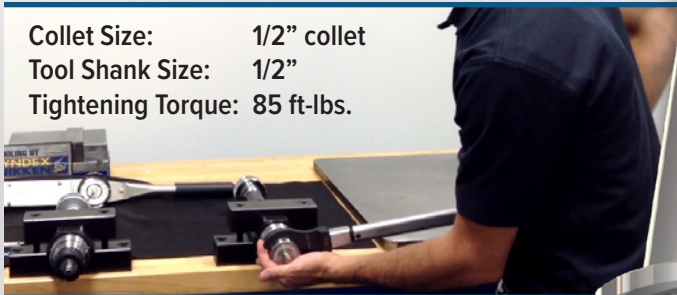
# TORQUE TEST DEMOS

## SEE THE DIFFERENCE IN TORQUE IN UNDER 10 MINUTES!

### LYNDEX-NIKKEN

CAT40 ER32 High Torque Collet Chuck

Collet Size: 1/2" collet  
Tool Shank Size: 1/2"  
Tightening Torque: 85 ft-lbs.



Cutting tool GRIPS at 75 ft-lbs.

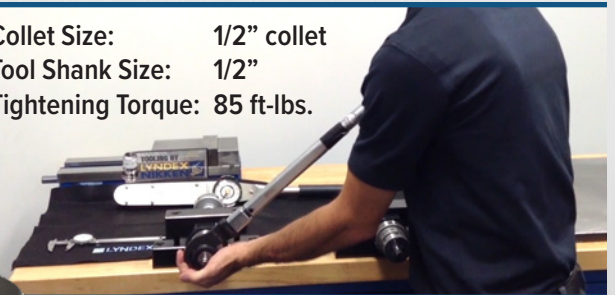


214% higher gripping force  
than other brands!

### OTHER BRANDS

CAT40 ER32 Collet Chuck

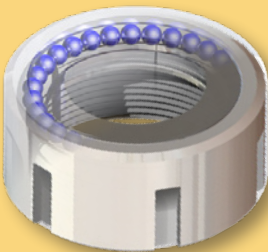
Collet Size: 1/2" collet  
Tool Shank Size: 1/2"  
Tightening Torque: 85 ft-lbs.



Cutting tool SLIPS at 35 ft-lbs.



View our ER Torque test by viewing on our YouTube channel. Not convinced? Contact us for a live demo!



### BENEFITS OF HIGHER GRIPPING FORCE

- Precision ground bearing nut for additional gripping force\* (\*nut included as standard)
- Machine with higher chip load and reduce cycle time
- Reduction in end mill pulling reduces scrapping parts
- Eliminate over tightening that can lead to collet damage and excessive run-out
- Better overall cutting condition

To schedule a demo, contact your Lyndex-Nikken Regional Sales Manager OR send an e-mail to: [solutionselling@lyndexnikken.com](mailto:solutionselling@lyndexnikken.com)



847-367-4800 | [sales@lyndexnikken.com](mailto:sales@lyndexnikken.com)  
[lyndexnikken.com](http://lyndexnikken.com)

Connect With Us!



# ANGLE HEADS/SPINDLE SPEEDER

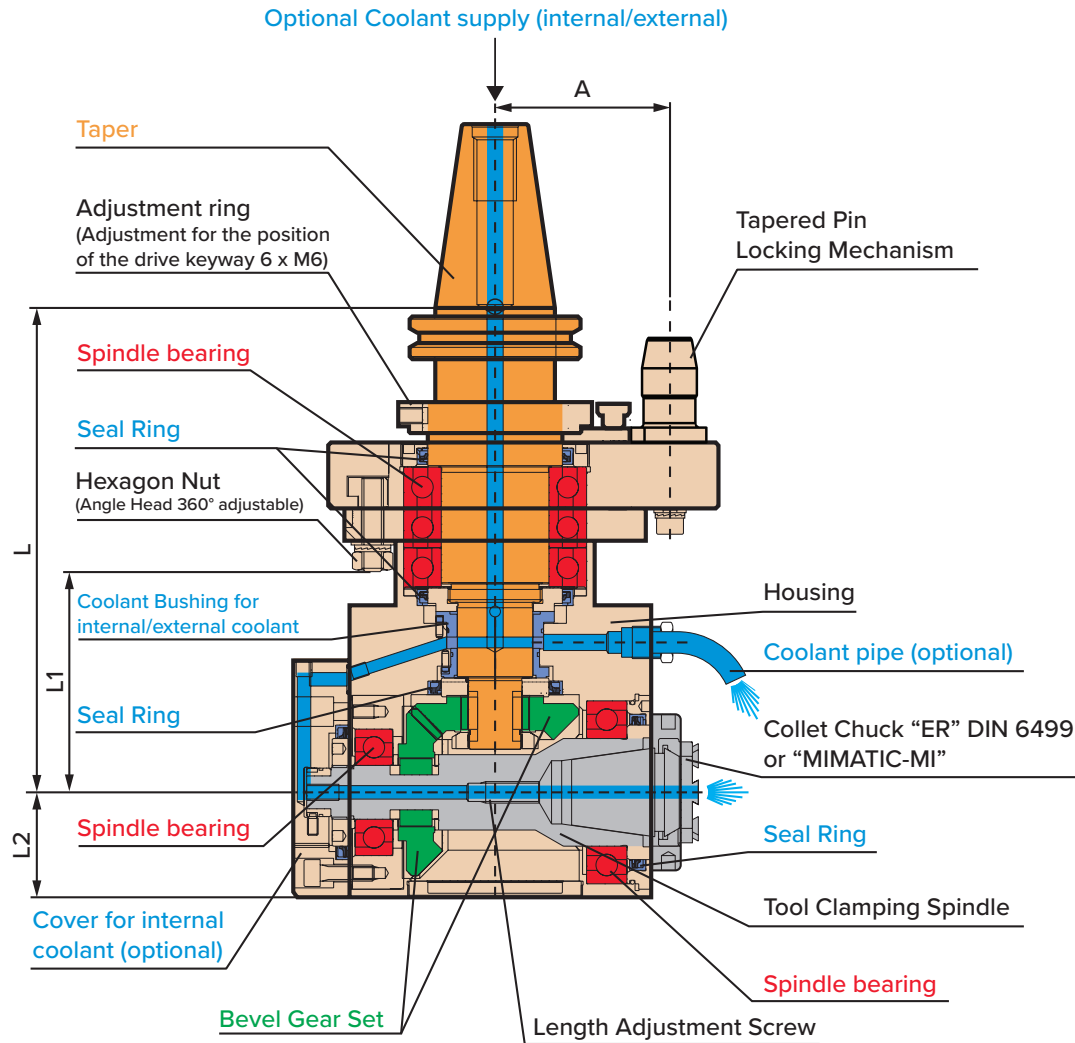


ANGLE HEADS/SPINDLE SPEEDER

## ANGLE HEADS/ SPINDLE SPEEDER



## TECHNICAL FEATURES



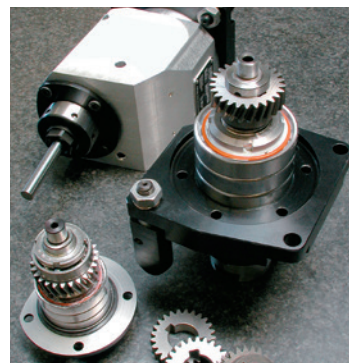
Our Angle Heads are equipped with hardened and ground gears and collet shafts. Units are also fitted with high-precision angular contact bearings, assuring extreme rigidity and accuracy. Compact designs maintain accurate spindle and tool centerline alignment while minimizing tool overhang - accuracy is maintained throughout the machining process from plane to plane.

### Recessed Collet Seat



With our collet seat recessed into the body of the Angle Head, rigidity is optimized while maintaining a compact design.

### High Precision Assembly



Our Angle Heads are assembled with high precision, P4 quality spindle bearings that are stabilized for high speeds up to 15,000 RPM and high torques up to 110 ft-lbs. The spiral beveled gears allow for high rigidity and smooth machining operations.

# ANGLE HEADS/SPINDLE SPEEDER

## TYPES OF FIXED ANGLE HEADS & SPINDLE SPEEDER



Standard Right Angle Heads



Offset Type Right Angle Heads



Economy 40 Taper Right Angle Heads



Slim Type Right Angle Heads



Twin Spindle Angle Heads



Universal Flexheads Internal Coolant



Quick Change Right Angle Heads  
*(Attachments sold separately)*



Nikken Spindle Speeder  
*(Up to 20,000 RPM)*



Check out the product catalog section on our website for more information and additional specifications on our Angle Heads and Spindle Speeder.



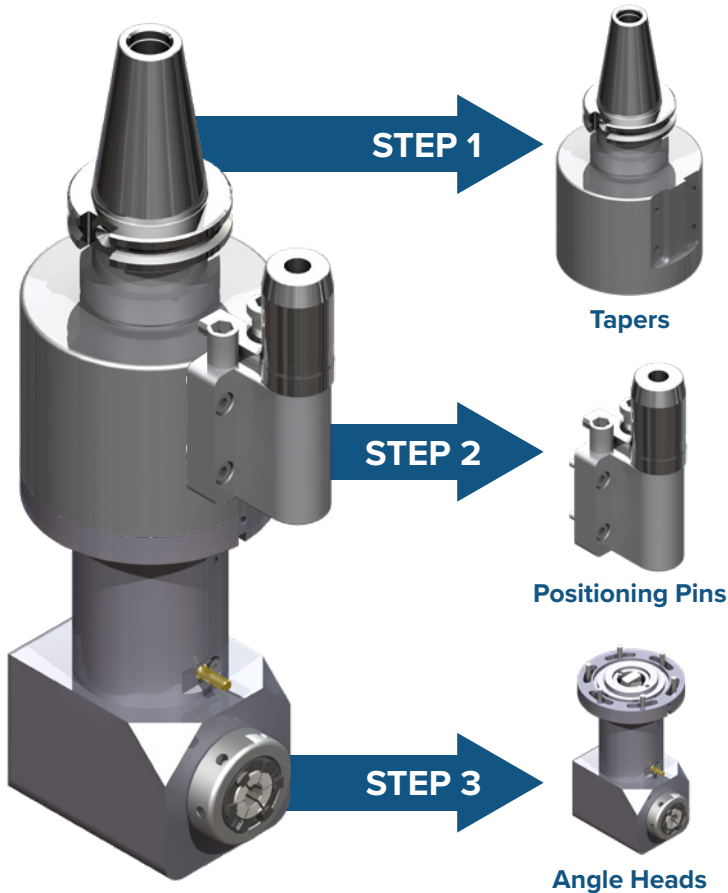
All Angle Heads come with a tapered positioning pin as standard



A flat pin can be made available upon request

## MODULAR ANGLE HEAD ASSEMBLY

Construct a Modular Angle Head in 3 Easy Steps!



### Modular Angle Head System Features

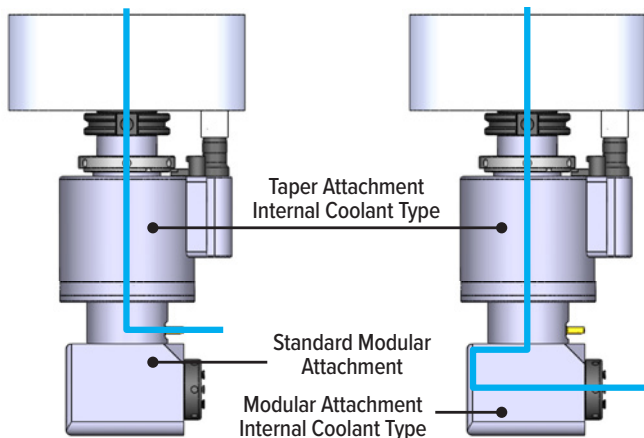
- Flexibility for a multitude of applications
- Adaptable with a wide variety of machine tapers
- Bolt style mounting system between taper and modular attachment for added rigidity
- Cost effective solution when Angle Heads are required on machines with different tapers
- 360 degree body and head rotation
- Tapered positioning pin for alignment accuracy

### Modular Attachment Features

- Slim styles for inner bore work
- Stubby styles for added milling rigidity
- Extended Length styles for added reach
- Quick Change system for operations involving multiple tools
- Double output styles eliminate the necessity for two heads
- NSK output styles for small internal engraving and light duty drilling

## COOLANT CONFIGURATIONS

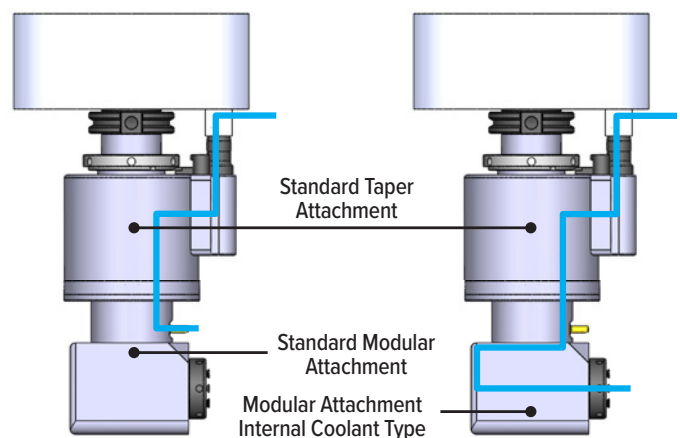
### Coolant Supply Through The Spindle



External Coolant

Internal Coolant

### Coolant Supply Through The Positioning Block



External Coolant

Internal Coolant



# ANGLE HEADS/SPINDLE SPEEDER



## MODULAR ANGLE HEAD SYSTEM

Flexibility for Any Application!

### TAPERS



### TAPER EXTENSION



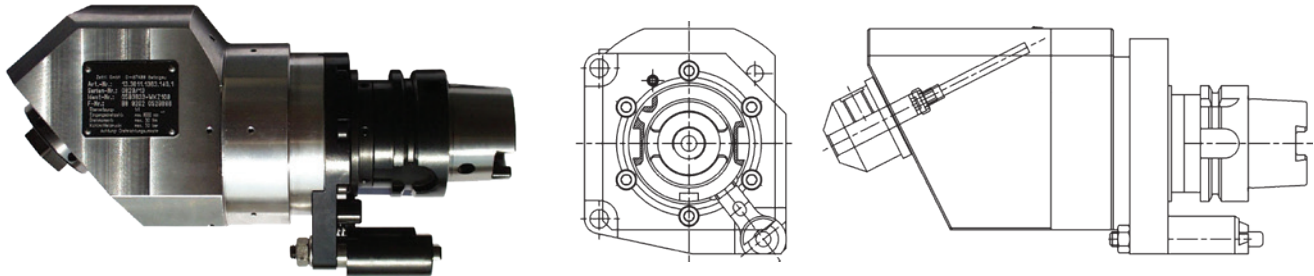
### MODULAR ATTACHMENTS



## HIGH PRODUCTIVITY ANGLE HEADS

### Fixed Angle Heads

Fixed Angle Heads ensures an accurate angle without the need to adjust or verify the cutting angle. Ideal for families of parts with a common fixed angle or for high production where optimized rigidity is required to reduce cycle times.



### Multi-Spindle Drill Heads

Ideal for high production operations where drilling speed and accuracy must be optimized; Lyndex-Nikken Multi-Spindle units can be designed for all materials, multiple drill sizes, and a varying number of output spindles to match your application.



### Special Angle Heads

From Gear Hobbing, Deep Bore Milling, High Torque Shell Mill Angle Heads, to High Speed Spindle Multiplier Angle Heads, we have your applications covered. Contact us for more details!



Saw Blade/Arbor Milling Head with additional support pins



Heavy Duty Offset Arbor Milling Head for diesel engine blocks



ER32 1-meter Extended Length Modular Tool with internal coolant



ER11 Extended Length Slim Line Angle Head for ID pocket milling

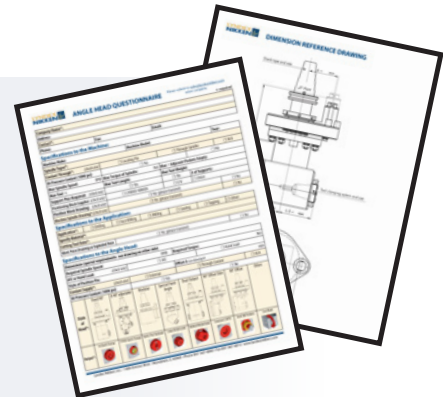
## ENGINEERING SUPPORT

Complete Engineering Support from Start to Finish!

1

### Selecting the Best Angle Head

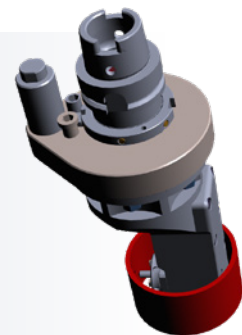
- Fill out our Angle Head Questionnaire.
- Provide dimensional and material information about your part via 3D model and/or CAD drawing.
- Additional information about the machine, current processes and cycle times are gathered.



2

### Verification of Clearance and Application

- 3D models of Angle Heads are used to verify internal motion in space-critical locations.
- Applications are qualified by determining torque calculations of the machining operation, and is verified again that the Angle Head can sustain the desired process.



3

### Automatic Tool Change and Weight Confirmation

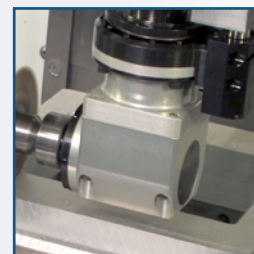
- ATC and weight clearances are confirmed.
- 3D printed Angle Heads and positioning blocks are available to ensure 100% dimensional accuracy and guarantees clearance while reducing cost and risk to the customer.



4

### Selecting the Best Angle Head

- Additional support for positioning block design and integration of the unit are also available.
- Positioning blocks are made to specifications, ensuring that the Angle Head is positioned and locked into place during final installation.



SPECIAL CUSTOM POSITIONING BLOCK

**WHY RISK YOUR INVESTMENT?  
WE HAVE YOU COVERED FROM DESIGN TO INSTALLATION!**

# PRODUCT TRAINING SEMINARS

Receive in-depth training on the cutting edge solutions of our products to help maximize your profits and increase productivity.



**SHRINK FIT UNITS & HOLDERS**



**ADVANCED TOOLHOLDERS**



**POWER CHUCKS & QUICK CHANGE FLEX COLLETS**



**LIVE TOOLING**

**IN-DEPTH TRAINING AND LIVE DEMOS**



**ANGLE HEADS**

To schedule a demo, contact your Lyndex-Nikken Regional Sales Manager or send an e-mail to: [solutionselling@lyndexnikken.com](mailto:solutionselling@lyndexnikken.com)



847-367-4800 | [sales@lyndexnikken.com](mailto:sales@lyndexnikken.com)  
[lyndexnikken.com](http://lyndexnikken.com)

Connect With Us!



# STUB MILL HOLDERS & BLANK BARS



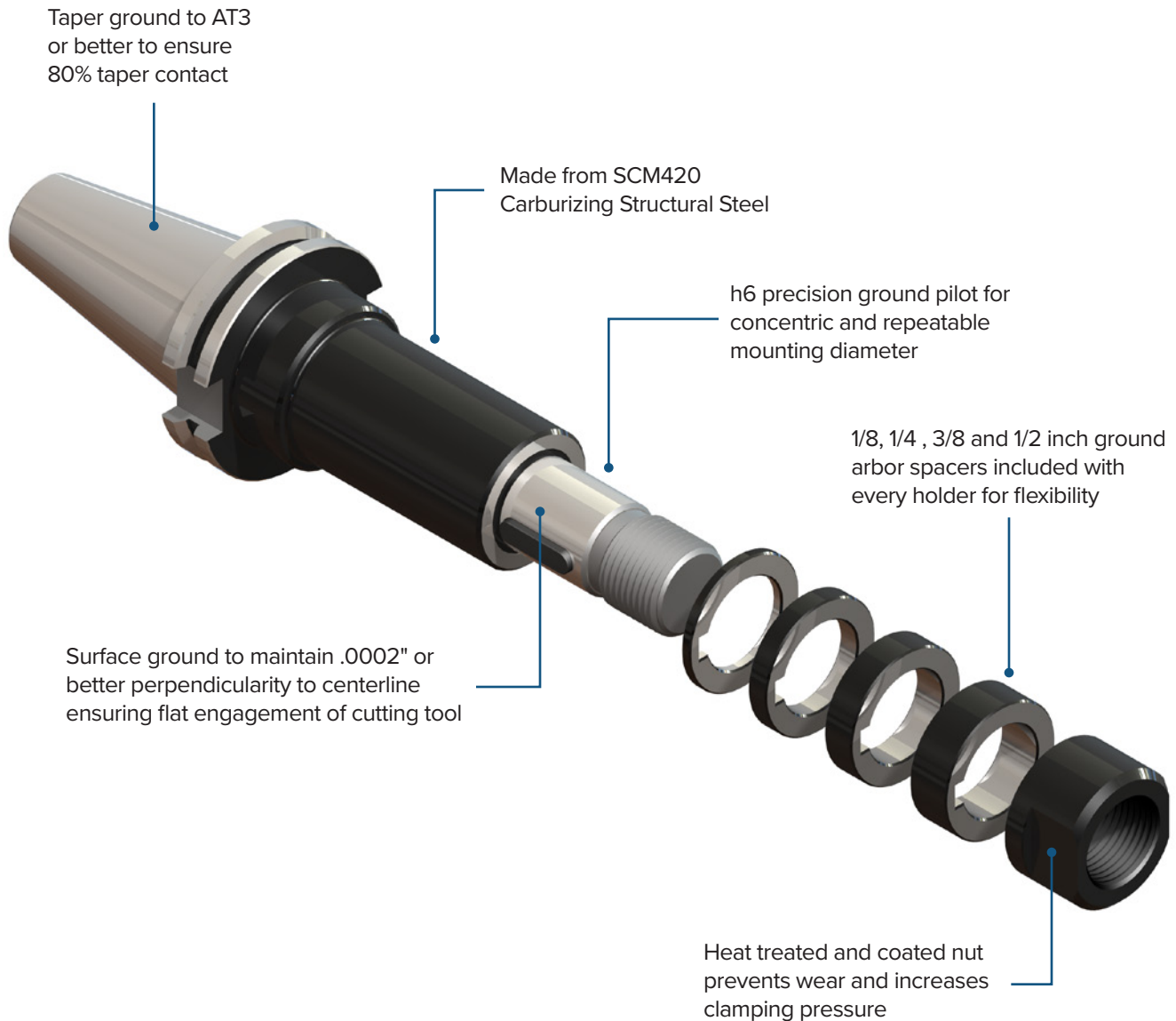
STUB & BLANK

**STUB MILL HOLDERS  
& BLANK BARS**



## STUB MILL HOLDER FEATURES

Our Stub Mill Holders feature hardened and ground tapers, location shafts and arbor spacers to ensure clamping of cutting tools and rigid machining capability.



STUB & BLANK

# STUB MILL HOLDERS



## CAT & BT STUB MILL HOLDERS

### FEATURES

- Taper ground to AT3 or better to ensure 80% taper contact
- 1/8", 1/4", 3/8" and 1/2" ground arbor spacers included with every holder
- h6 precision ground pilot for concentric and repeatable mounting diameter



**T.I.R.**  
< 0.0002" run out at pilot



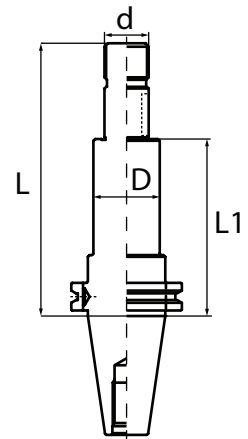
**Set-Up**  
Quick and easy

### CAT40/50

Part Number	Taper	d	L	D	L1	Key Size
<b>C4002-1000-6.17</b>	CT40	1"	6.17"	1.50"	4.00"	1/4"
<b>C4002-1250-6.29</b>	CT40	1-1/4"	6.29"	1.77"	4.00"	5/16"
<b>C4002-1500-6.60</b>	CT40	1-1/2"	6.60"	2.17"	4.00"	3/8"
<b>C5002-1000-6.17</b>	CT50	1"	6.17"	1.50"	4.00"	1/4"
<b>C5002-1250-6.28</b>	CT50	1-1/4"	6.28"	1.77"	4.00"	5/16"
<b>C5002-1500-6.60</b>	CT50	1-1/2"	6.60"	2.17"	4.00"	3/8"

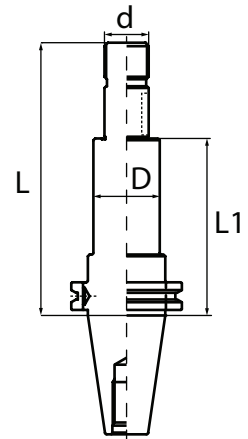
**Notes:**

- 1 pcs. each: 1/8", 1/4", 3/8" and 1/2" arbor spacers and securing nut included as standard with all listed toolholders.



### BT30/40

Part Number	Taper	d	L	D	L1	Key Size
<b>B3002-0750-4.97</b>	BT30	3/4"	4.97"	1.26"	3.00"	1/4"
<b>B3002-1000-5.17</b>	BT30	1"	5.17"	1.50"	3.00"	1/4"
<b>B4002-1000-5.18</b>	BT40	1"	5.18"	1.50"	3.00"	1/4"
<b>B4002-1250-5.32</b>	BT40	1-1/4"	5.32"	1.77"	3.00"	1/4"
<b>B4002-1500-5.60</b>	BT40	1-1/2"	5.60"	2.17"	3.00"	1/4"



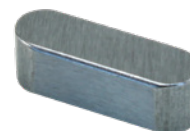
### NCAT40/50

Part Number	Taper	d	L	D	L1	Key Size
<b>NC4002-1000-6.17</b>	NCAT40	1"	6.17"	1.50"	4.00"	1/4"
<b>NC4002-1250-6.29</b>	NCAT40	1-1/4"	6.29"	1.77"	4.00"	5/16"
<b>NC5002-1000-6.17</b>	NCAT50	1"	6.17"	1.50"	4.00"	1/4"

## CAT & BT STUB MILL HOLDER ACCESSORIES

### REPLACEMENT KEY FOR STUB MILL HOLDERS

Part Number	Description
3/4-STUBKEY	3/4"
1-STUBKEY	1"
1-1/4-STUBKEY	1-1/4"
1-1/2-STUBKEY	1-1/2"



### REPLACEMENT NUT FOR STUB MILL HOLDERS

Part Number	Description	Length of Nut
3/4-STUBNUT	3/4"	18mm (0.70")
1-STUBNUT	1"	22.5mm (0.88")
1-1/4-STUBNUT	1-1/4"	22.5mm (0.88")
1-1/2-STUBNUT	1-1/2"	33.5mm (1.31")



### REPLACEMENT SPACER FOR STUB MILL HOLDERS

Part Number	Description
SP3/4-1/8	1/8" Thick Spacer for 3/4" OD Holder
SP3/4-1/4	1/4" Thick Spacer for 3/4" OD Holder
SP3/4-3/8	3/8" Thick Spacer for 3/4" OD Holder
SP3/4-1/2	1/2" Thick Spacer for 3/4" OD Holder
SP1-1/8	1/8" Thick Spacer for 1" OD Holder
SP1-1/4	1/4" Thick Spacer for 1" OD Holder
SP1-3/8	3/8" Thick Spacer for 1" OD Holder
SP1-1/2	1/2" Thick Spacer for 1" OD Holder
SP1-1/4-1/8	1/8" Thick Spacer for 1-1/4" OD Holder
SP1-1/4-1/4	1/4" Thick Spacer for 1-1/4" OD Holder
SP1-1/4-3/8	3/8" Thick Spacer for 1-1/4" OD Holder
SP1-1/4-1/2	1/2" Thick Spacer for 1-1/4" OD Holder
SP1-1/2-1/8	1/8" Thick Spacer for 1-1/2" OD Holder
SP1-1/2-1/4	1/4" Thick Spacer for 1-1/2" OD Holder
SP1-1/2-3/8	3/8" Thick Spacer for 1-1/2" OD Holder
SP1-1/2-1/2	1/2" Thick Spacer for 1-1/2" OD Holder





# BLANK BARS



## CAT & BT BLANK BARS

### FEATURES

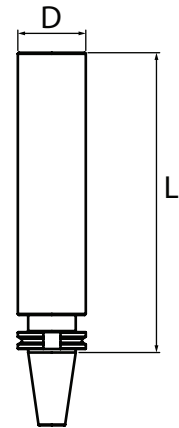
- Taper ground to AT3 or better to ensure 80% taper contact
- Suitable for all applications – even deep boring
- Ground and hardened surfaces except projection of the toolholder



**Coolant-Thru**  
Opt. modification

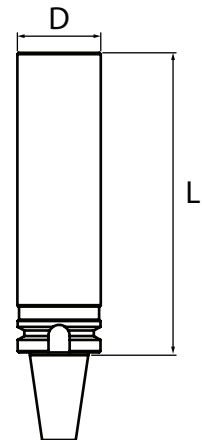
### CAT40/50

Part Number	Taper	L	D
<b>C4008-0013</b>	CAT40	13.00"	2.50"
<b>C5008-0013</b>	CAT50	13.00"	3.88"



### BT30/40/50

Part Number	Taper	L	D
<b>B3008-0008</b>	BT30	8.00"	2.25"
<b>B4008-0013</b>	BT40	13.00"	2.50"
<b>B5008-0013</b>	BT50	13.00"	3.88"



STUB & BLANK

## TAPER PLUS CAT BLANK BARS

### TAPER PLUS - NCAT40/50

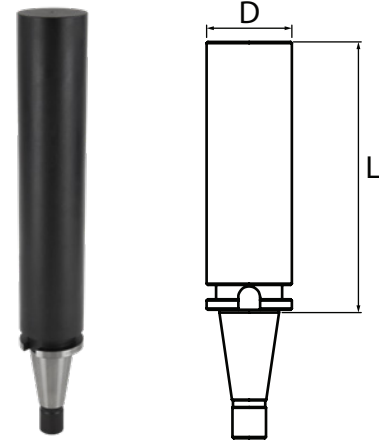
Part Number	Taper	L	D
<b>NC4008-0013</b>	NCAT40	13.00"	2.50"
<b>NC5008-0013</b>	NCAT50	13.00"	3.88"

## NMTB & HSK BLANK BARS

### NMTB40/50

Part Number	Taper	L	D
<b>N4008-0013</b>	NMTB40	13.00"	2.50"
<b>N5008-0013</b>	NMTB50	13.00"	3.88"

NMTB shanks are suitable for use with Erickson Quick Change spindles.

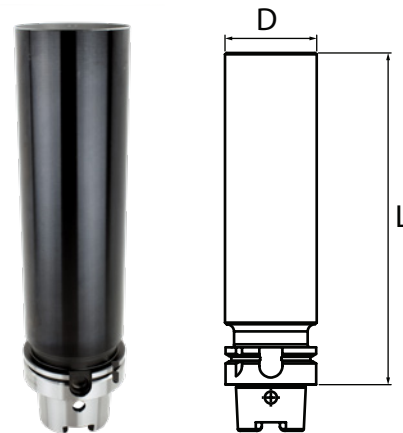


### HSK63A/100A

Part Number	Taper	L	D
<b>HSK63A-BLANK-13.00</b>	HSK63A	13.00"	2.50"
<b>HSK100A-BLANK-13.00</b>	HSK100A	13.00"	3.76"

Note:

- Coolant tube and coolant tube wrench are not included.
- Other HSK sizes are available as specials. Please contact us for more information.



STUB & BLANK

### COOLANT TUBE WRENCH FOR HSK HOLDERS

Part Number	Description
<b>HSK63-WRENCH</b>	Wrench for HSK63 Coolant Tube
<b>HSK100-WRENCH</b>	Wrench for HSK100 Coolant Tube

Note:

- Coolant tube wrenches are needed to remove or install coolant tubes in HSK toolholders.



### COOLANT TUBE FOR HSK HOLDERS

Part Number	Description
<b>HSK63-TUBE</b>	Coolant Tube for HSK63 Holders
<b>HSK100-TUBE</b>	Coolant Tube for HSK100 Holders



# R8/5C/3J/16C COLLETS



R8/5C/3J/16C

## R8/5C/3J/16C COLLETS



## R8 COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size	Part Number (Inch)	Size
800-004	1/16"	800-024	3/8"	800-044	11/16"
800-006	3/32"	800-026	13/32"	800-046	23/32"
800-008	1/8"	800-028	7/16"	800-048	3/4"
800-010	5/32"	800-030	15/32"	800-050*	25/32"
800-012	3/16"	800-032	1/2"	800-052*	13/16"
800-014	7/32"	800-034	17/32"	800-054*	27/32"
800-016	1/4"	800-036	9/16"	800-056*	7/8"
800-018	9/32"	800-038	19/32"	800-064*	1"
800-020	5/16"	800-040	5/8"		
800-022	11/32"	800-042	21/32"		

**Note:**

- \*Cannot be used with cutting tools that have notches, flats, or Weldon Shank. We recommend using End Mill Holders.
- Limited cutting tool shank insertion depth. See drawings on website.

Part Number (Metric)	Size	Part Number (Metric)	Size	Part Number (Metric)	Size
820-003	3mm	820-009	9mm	820-015	15mm
820-004	4mm	820-010	10mm	820-016	16mm
820-005	5mm	820-011	11mm	820-017	17mm
820-006	6mm	820-012	12mm	820-018	18mm
820-007	7mm	820-013	13mm	820-019	19mm
820-008	8mm	820-014	14mm	820-020*	20mm

Note: \*Limited cutting tool shank insertion depth. See drawing for depth.

## R8 COLLET SETS

Part Number	Description	Size Range
810-SET-06	6 Piece R8 Collet Set	1/8" - 3/4" by 1/8ths
810-SET-08	8 Piece R8 Collet Set	1/8" - 1" by 1/8ths
810-SET-11	11 Piece R8 Collet Set	1/8" - 3/4" by 1/16ths
810-SET-12	12 Piece R8 Collet Set	1/8" - 3/4" by 1/16ths + 7/8"
810-SET-13	13 Piece R8 Collet Set	1/8" - 7/8" by 1/16ths
810-SET-14	14 Piece R8 Collet Set	1/16"-7/8" by 1/16ths
810-SET-21	21 Piece R8 Collet Set	1/8" - 3/4" by 1/32nds
810-SET-23	23 Piece R8 Collet Set	1/16" - 3/4" by 1/32nds
810-SET-25	25 Piece R8 Collet Set	1/8" - 7/8" by 1/32nds
810-SET-27	27 Piece R8 Collet Set	1/16" - 7/8" by 1/32nds
820-SET-18-MM	18 Piece R8 Metric Collet Set	3 - 20mm by 1mm

## R8 COLLET RACK

Part Number	Description
RACK-R8/SK20	Metal Rack, holds 24 piece R8 Collets or R8 Chucks



## ACCURACY

Size Range (Inch)	T.I.R.
1/16" - 3/8"	0.0007
13/32" - 1"	0.0011

Size Range (Metric)	T.I.R.
3 - 10 mm	0.0007
11 - 20mm	0.0011

## CUTTING TOOL SHANK TOLERANCE

Collet Series	Gripping Range
R8 Collets	+0/- .004"

## EMERGENCY COLLETS

Part Number (Inch)	Size
860-001S	R8 Steel Emergency Collet: 1/16" pilot hole



# R8/5C/3J/16C COLLETS

## 5C COLLETS

### 5C ROUND COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size	Part Number (Inch)	Size
500-003	3/64"	500-027	27/64"	500-051	51/64"
500-004	1/16"	500-028	7/16"	500-052	13/16"
500-005	5/64"	500-029	29/64"	500-053	53/64"
500-006	3/32"	500-030	15/32"	500-054	27/32"
500-007	7/64"	500-031	31/64"	500-055	55/64"
500-008	1/8"	500-032	1/2"	500-056	7/8"
500-009	9/64"	500-033	33/64"	500-057	57/64"
500-010	5/32"	500-034	17/32"	500-058	29/32"
500-011	11/64"	500-035	35/64"	500-059	59/64"
500-012	3/16"	500-036	9/16"	500-060	15/16"
500-013	13/64"	500-037	37/64"	500-061	61/64"
500-014	7/32"	500-038	19/32"	500-062	31/32"
500-015	15/64"	500-039	39/64"	500-063	63/64"
500-016	1/4"	500-040	5/8"	500-064	1"
500-017	17/64"	500-041	41/64"	500-065*	1-1/64"
500-018	9/32"	500-042	21/32"	500-066*	1-1/32"
500-019	19/64"	500-043	43/64"	500-067*	1-3/64"
500-020	5/16"	500-044	11/16"	500-068*	1-1/16"
500-021	21/64"	500-045	45/64"	500-069*	1-5/64"
500-022	11/32"	500-046	23/32"	500-070*	1-3/32"
500-023	23/64"	500-047	47/64"	500-071*	1-7/64"
500-024	3/8"	500-048	3/4"	500-072*	1-1/8"
500-025	25/64"	500-049	49/64"		
500-026	13/32"	500-050	25/32"		

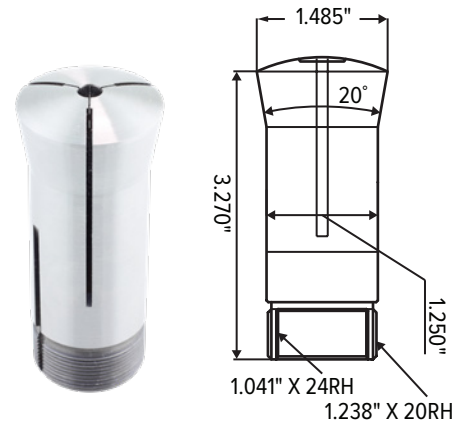
Note:

- \*Collet has stepped internal diameter and cannot be used for bar feed work. Step depth approximately 40mm.

Part Number (Metric)	Size	Part Number (Metric)	Size	Part Number (Metric)	Size
520-003	3mm	520-011	11mm	520-019	19mm
520-004	4mm	520-012	12mm	520-020	20mm
520-005	5mm	520-013	13mm	520-021	21mm
520-006	6mm	520-014	14mm	520-022	22mm
520-007	7mm	520-015	15mm	520-023	23mm
520-008	8mm	520-016	16mm	520-024	24mm
520-009	9mm	520-017	17mm	520-025	25mm
520-010	10mm	520-018	18mm	520-026*	26mm

Note:

- \*Collet has stepped internal diameter and cannot be used for bar feed work. Step depth approximately 40mm.



### ACCURACY

Size Range (Inch)	T.I.R
3/64" - 25/64"	0.0008
13/32" - 45/64"	0.0011
23/32" - 1.1/8"	0.0015

Size Range (Metric)	T.I.R
3 - 10mm	0.0008
11 - 18mm	0.0011
19 - 26mm	0.0015

### WORKPIECE TOLERANCE

Collet Series	Gripping Range
5C Collets	+0/-0.004"

### EMERGENCY COLLETS

Part Number (Inch)	Size
560-001B	5C Brass collet has 1/16" pilot hole
560-001S	5C Steel emergency collet has 1/16" pilot hole and hardened threads



5C Collet Stops  
Page 261



5C Collet Blocks  
Page 261



5C Collet Rack  
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5C Collet Wrench  
Page 261

## 5C COLLETS

### 5C COLLET SETS

Part Number	Description	Size Range
510-SET-08	8 Piece 5C Collet Set	1/8" - 1" by 1/8ths
510-SET-09	9 Piece 5C Collet Set	1/8" - 1-1/8" by 1/8ths
510-SET-09S	9 Piece 5C Collet Set	1/16" + 1/8" - 1" by 1/8ths
510-SET-15	15 Piece 5C Collet Set	1/8" - 1" by 1/16ths
510-SET-16	16 Piece 5C Collet Set	1/8" - 1-1/16" by 1/16ths
510-SET-16S	16 Piece 5C Collet Set	1/16" - 1" by 1/16ths
510-SET-17	17 Piece 5C Collet Set	1/16" - 1-1/16" by 1/16ths
510-SET-18	18 Piece 5C Collet Set	1/16" - 1-1/8" by 1/16ths
510-SET-24-MM	24 Piece 5C Collet Set, Metric	3.0 - 26.0mm x 1.0mm
510-SET-29	29 Piece 5C Collet Set	1/8" - 1" by 1/32nds
510-SET-31	31 Piece 5C Collet Set	1/8" - 1-1/16" by 1/32nds
510-SET-31S	31 Piece 5C Collet Set	1/16" - 1" by 1/32nds
510-SET-33	33 Piece 5C Collet Set	1/16" - 1-1/16" by 1/32nds
510-SET-35	35 Piece 5C Collet Set	1/16" - 1-1/8" by 1/32nds
510-SET-61	61 Piece 5C Collet Set	1/8" - 1-1/16" by 64ths
510-SET-61S	61 Piece 5C Collet Set	1/16" - 1" by 64ths
510-SET-65	65 Piece 5C Collet Set	1/8" - 1-1/8" by 64ths
510-SET-65S	65 Piece 5C Collet Set	1/16" - 1-1/16" by 64ths
510-SET-69	69 Piece 5C Collet Set	1/16" - 1-1/8" by 64ths
580-SET-07-HEX	7 Piece 5C Hex Collet Set	1/8" - 7/8" by 1/8ths
580-SET-13-HEX	13 Piece 5C Hex Collet Set	1/8" - 7/8" by 1/16ths
580-SET-06-SQ	6 Piece 5C Square Collet Set	1/8" - 3/4" by 1/8ths
580-SET-11-SQ	11 Piece 5C Square Collet Set	1/8" - 3/4" by 1/16ths

### 5C HEX COLLETS

Part Number (Inch)	Size
530-008	1/8"
530-012	3/16"
530-016	1/4"
530-020	5/16"
530-024	3/8"
530-028	7/16"
530-032	1/2"
530-036	9/16"
530-040	5/8"
530-044	11/16"
530-048	3/4"
530-052	13/16"
530-056*	7/8"



Note: \*Does not have ID threads.

### 5C SQUARE COLLETS

Part Number (Inch)	Size
540-008	1/8"
540-012	3/16"
540-016	1/4"
540-020	5/16"
540-024	3/8"
540-028	7/16"
540-032	1/2"
540-036	9/16"
540-040	5/8"
540-044	11/16"
540-048*	3/4"



Note: \*Does not have ID threads.

### ACCURACY (FOR 5C HEX & SQUARE)

Size Range	T.I.R
1/8" - 11/16"	0.0025
3/4" - 7/8"	0.0031

### 5C STEP COLLETS

Part Number (Inch)	Size
550-002	2"
550-003	3"
550-004	4"
550-005	5"
550-006	6"



Steps Collets have a soft face for easy machining while the 5C collet portion is hardened. 5C collet portion has external threads only to engage into the collet draw bar (no ID threads).



# R8/5C/3J/16C COLLETS



## 5C COLLET ACCESSORIES

### 5C COLLET STOPS

Part Number	Description
570-ADJ	Adjustable Threaded Collet Stop
570-USA	Non-Threaded Depth Retainer 5C Collet Stop



570-ADJ



570-USA

### 5C COLLET BLOCKS

Part Number	Description
570-HEX	Hex Block with Tightening Ring
570-SQUARE	Square Block with Tightening Ring
570-CLOSE	Quick Closer
570-RING	Replacement Tightening Ring (ring only)
570-BLOCK	Complete Set (all of the above)



570-HEX



570-SQUARE



570-CLOSE

### 5C COLLET RACK

Part Number	Description
RACK-5C/100TG/SK25	Metal Rack holds 30x 5C, 100TG or SK25 Collets



### 5C COLLET WRENCH

Part Number	Description
5C-WRENCH	5C Collet Wrench

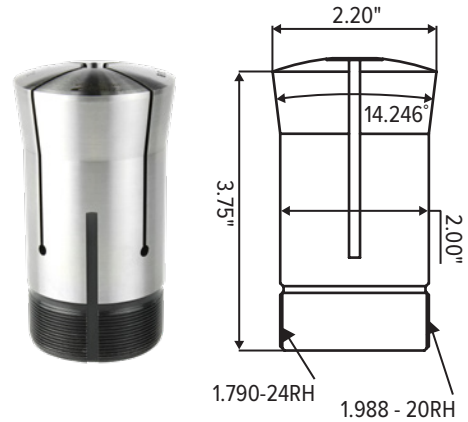


## 3J COLLETS

### 3J ROUND COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
300-004	1/16"	300-041	41/64"
300-005	5/64"	300-042	21/32"
300-006	3/32"	300-043	43/64"
300-007	7/64"	300-044	11/16"
300-008	1/8"	300-045	45/64"
300-009	9/64"	300-046	23/32"
300-010	5/32"	300-047	47/64"
300-011	11/64"	300-048	3/4"
300-012	3/16"	300-049	49/64"
300-013	13/64"	300-050	25/32"
300-014	7/32"	300-051	51/64"
300-015	15/64"	300-052	13/16"
300-016	1/4"	300-053	53/64"
300-017	17/64"	300-054	27/32"
300-018	9/32"	300-055	55/64"
300-019	19/64"	300-056	7/8"
300-020	5/16"	300-057	57/64"
300-021	21/64"	300-058	29/32"
300-022	11/32"	300-059	59/64"
300-023	23/64"	300-060	15/16"
300-024	3/8"	300-061	61/64"
300-025	25/64"	300-062	31/32"
300-026	13/32"	300-063	63/64"
300-027	27/64"	300-064	1"
300-028	7/16"	300-068	1-1/16"
300-029	29/64"	300-072	1-1/8"
300-030	15/32"	300-076	1-3/16"
300-031	31/64"	300-080	1-1/4"
300-032	1/2"	300-084	1-5/16"
300-033	33/64"	300-088	1-3/8"
300-034	17/32"	300-092	1-7/16"
300-035	35/64"	300-096	1-1/2"
300-036	9/16"	300-100	1-9/16"
300-037	37/64"	300-104	1-5/8"
300-038	19/32"	300-108	1-11/16"
300-039	39/64"	300-112	1-3/4"
300-040	5/8"		

Note: All 3J Collets will have ID threads except Part Number 300-112.



### ACCURACY

Size Range	T.I.R
1/16" - 25/64"	0.0008
13/32" - 45/64"	0.0011
23/32" - 1-3/4"	0.0015

### WORKPIECE TOLERANCE

Collet Series	Gripping Range
3J Collets	+0/-0.004"

### EMERGENCY COLLETS

Part Number (Inch)	Size
360-001S*	Steel Emergency Collet has 1/16" pilot



\* Max Material Size: Round: 1.3/4"  
 Square: 1.1/2"  
 Hex: 1.1/4"

### 3J COLLET SETS

Part Number	Description	Size Range
300-SET-08	8 Piece 3J Collet Set	1/8" - 1" by 1/8ths
300-SET-18	18 Piece 3J Collet Set	1/16" - 1.1/8" by 1/16ths
300-SET-29	29 Piece 3J Collet Set	1/8" - 1" by 1/32nds
300-SET-32	32 Piece 3J Collet Set	1/16" - 1.1/16" by 1/32nds



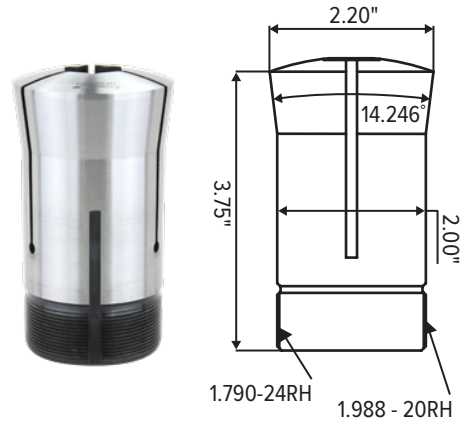
# R8/5C/3J/16C COLLETS



## 3J COLLETS

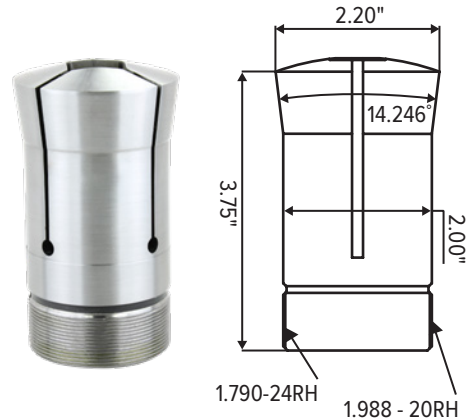
### 3J HEX COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
330-016	1/4"	330-060	15/16"
330-020	5/16"	330-064	1"
330-024	3/8"	330-068	1-1/16"
330-028	7/16"	330-072	1-1/8"
330-032	1/2"	330-076	1-3/16"
330-036	9/16"	330-080	1-1/4"
330-040	5/8"	330-084	1-5/16"
330-044	11/16"	330-088	1-3/8"
330-048	3/4"	330-092	1-7/16"
330-052	13/16"	330-096	1-1/2"
330-056	7/8"		



### 3J SQUARE COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
340-016	1/4"	340-052	13/16"
340-020	5/16"	340-056	7/8"
340-024	3/8"	340-060	15/16"
340-028	7/16"	340-064	1"
340-032	1/2"	340-068	1-1/16"
340-036	9/16"	340-072	1-1/8"
340-040	5/8"	340-076	1-3/16"
340-044	11/16"	340-080	1-1/4"
340-048	3/4"		



### ACCURACY (FOR 3J HEX & SQUARE)

Size Range	T.I.R
1/4" - 11/16"	0.0025
3/4" - 1-1/2"	0.0031

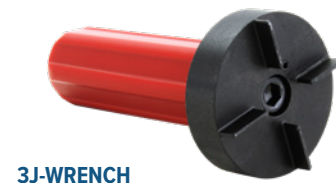
### 3J COLLET STOP

Part Number	Description
370-USA	Non-Threaded Depth Retainer 3J Collet Stop
370-ADJ	3J Collet Stop (for use with Collets with Internal Threads)



### 3J COLLET WRENCH

Part Number	Description
3J-WRENCH	4 Prong - to be used with 3J Round, 3J Square, 16C Square
16C-WRENCH	3 Prong - to be used with 16C Round, 16C Hex and 3J Hex



R8/5C/3J/16C

## 16C COLLETS

### 16C ROUND COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
160-004	1/16"	160-040	5/8"
160-005	5/64"	160-041	41/64"
160-006	3/32"	160-042	21/32"
160-007	7/64"	160-043	43/64"
160-008	1/8"	160-044	11/16"
160-009	9/64"	160-045	45/64"
160-010	5/32"	160-046	23/32"
160-011	11/64"	160-047	47/64"
160-012	3/16"	160-048	3/4"
160-013	13/64"	160-049	49/64"
160-014	7/32"	160-050	25/32"
160-015	15/64"	160-051	51/64"
160-016	1/4"	160-052	13/16"
160-017	17/64"	160-053	53/64"
160-018	9/32"	160-054	27/32"
160-019	19/64"	160-055	55/64"
160-020	5/16"	160-056	7/8"
160-021	21/64"	160-057	57/64"
160-022	11/32"	160-058	29/32"
160-023	23/64"	160-059	59/64"
160-024	3/8"	160-060	15/16"
160-025	25/64"	160-061	61/64"
160-026	13/32"	160-062	31/32"
160-027	27/64"	160-063	63/64"
160-028	7/16"	160-064	1"
160-029	29/64"	160-066	1-1/32"
160-030	15/32"	160-068	1-1/16"
160-031	31/64"	160-072	1-1/8"
160-032	1/2"	160-076	1-3/16"
160-033	33/64"	160-080	1-1/4"
160-034	17/32"	160-084	1-5/16"
160-035	35/64"	160-088	1-3/8"
160-036	9/16"	160-092	1-7/16"
160-037	37/64"	160-096	1-1/2"
160-038	19/32"	160-100	1-9/16"
160-039	39/64"	160-104	1-5/8"



### ACCURACY

Size Range	T.I.R
1/16" - 25/64"	0.0008
13/32" - 45/64"	0.0011
23/32" - 1-5/8"	0.0015

### WORKPIECE TOLERANCE

Collet Series	Gripping Range
16C Collets	+0/-0.004"

### EMERGENCY COLLETS

Part Number (Inch)	Size
166-001S*	Steel Emergency Collet has 1/16" pilot hole and hardened threads.



\* Max Material Size: Round: 1.5/8"  
 Square: 1.3/8"  
 Hex: 1.3/16"

### 16C COLLET SETS

Part Number	Description	Size Range
160-SET-08	8 Piece 16C Collet Set	1/8" - 1" by 1/8ths
160-SET-18	18 Piece 16C Collet Set	1/16" - 1.1/16" by 1/16ths
160-SET-29	29 Piece 16C Collet Set	1/8" - 1" by 1/32nds

# R8/5C/3J/16C COLLETS



## 16C COLLETS

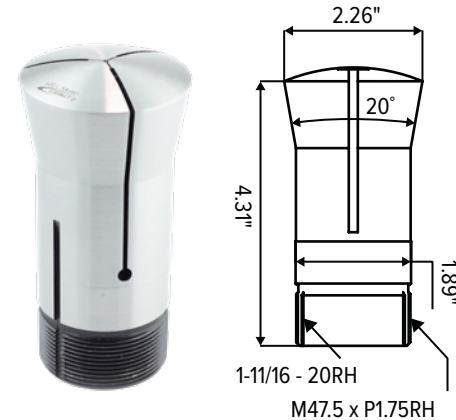
### 16C HEX COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
163-008	1/8"	163-052	13/16"
163-012	3/16"	163-056	7/8"
163-016	1/4"	163-060	15/16"
163-020	5/16"	163-064	1"
163-024	3/8"	163-068	1-1/16"
163-028	7/16"	163-072	1-1/8"
163-032	1/2"	163-076	1-3/16"
163-036	9/16"	163-080	1-1/4"
163-040	5/8"	163-084	1-5/16"
163-044	11/16"	163-088	1-3/8"
163-048	3/4"		



### 16C SQUARE COLLETS

Part Number (Inch)	Size	Part Number (Inch)	Size
164-008	1/8"	164-044	11/16"
164-012	3/16"	164-048	3/4"
164-016	1/4"	164-052	13/16"
164-020	5/16"	164-056	7/8"
164-024	3/8"	164-060	15/16"
164-028	7/16"	164-064	1"
164-032	1/2"	164-068	1-1/16"
164-036	9/16"	164-072	1-1/8"
164-040	5/8"	164-076*	1-3/16"



Note: \*Does not have ID threads.

### ACCURACY (FOR 16C HEX & SQUARE)

Size Range	T.I.R
1/8" - 11/16"	0.0025
3/4" - 1-3/8"	0.0031

### 16C COLLET STOP

Part Number	Description
160-USA	Non-Threaded Depth Retainer 16C Collet Stop
160-ADJ	Threaded Depth Retainer 16C Collet Stop



### 16C COLLET WRENCH

Part Number	Description
16C-WRENCH	3 Prong - to be used with 16C Round, 16C Hex and 3J Hex



R8/5C/3J/16C



# QUICK CHANGE FLEX COLLETS

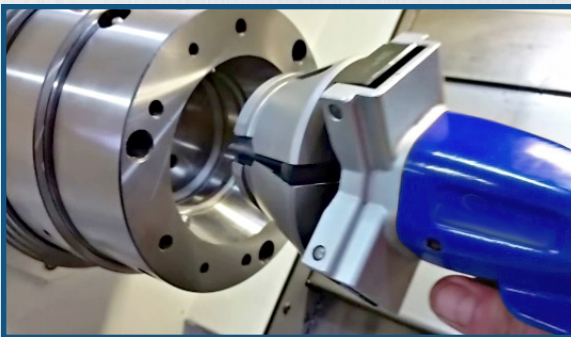
AVAILABLE NOW!



**COLLET CHANGE  
IN 10 SECONDS!**



- **QUICK SET-UP TIME** - Collet can be switched to any size within seconds, not minutes
- **INCREASED PRECISION** - Collet accuracy is .0004" or better
- **INCREASED GRIP FORCE** - Collet collapses parallel to work piece, not angular
- **INCREASED CLAMPING RANGE** - Quick Change Flex collets allow work pieces to be up to +/- .0156" from nominal diameter



For more information and to download our QCFC Product Catalog, please visit:  
[lyndexnikken.com/online-catalogs](http://lyndexnikken.com/online-catalogs)



847-367-4800 | [sales@lyndexnikken.com](mailto:sales@lyndexnikken.com)  
[lyndexnikken.com](http://lyndexnikken.com)

Connect With Us!



# RETENTION KNOBS



# RETENTION KNOBS



RETENTION KNOBS

## RETENTION KNOB FEATURES

Retention knobs come in many shapes and sizes. Many machining center manufacturers use different configurations on each of their models. Please provide us with the following information when ordering retention knobs:

- Machining Center Taper Size (40, 50 taper etc.) and flange type (CAT or BT)
- Brand and model of machining center
- Drawing of retention knob (if available)



### CAT RETENTION KNOBS

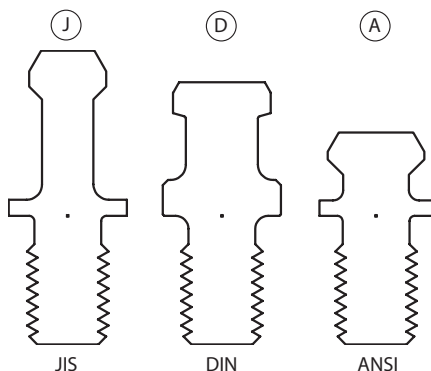
- Class 3A UNC Thread
- Magnetic particle crack tested
- Tensile and shear requirements per ISO and JIS standard
- All locations that make contact with ground spindle mechanism components are ground or hard turned
- Base of retention knob flange is ground to assure perpendicular alignment between retention knob and taper of toolholder
- Tight pitch diameter tolerance helps maintain accurate concentricity between threads and retention knob limiting the expansion or flaring of the small end of the taper



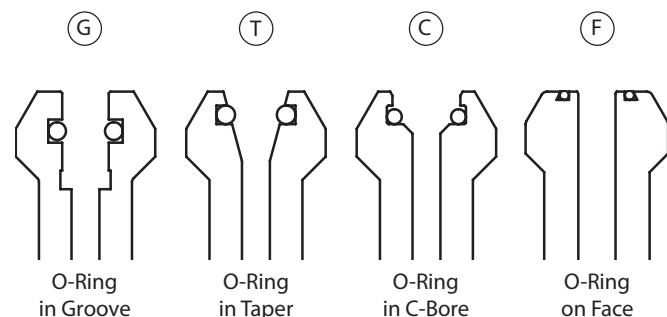
### BT RETENTION KNOBS

- Class 4g6g metric thread
- Magnetic particle crack tested
- Tensile and shear requirements per JIS 6339
- All locations of the retention knob that make contact with ground spindle mechanism components are ground or hard turned
- Base of retention knob flange is ground to assure perpendicular alignment between retention knob and taper of toolholder
- Ground Pilot and tight pitch diameter tolerance help maintain accurate concentricity between threads and retention knob limiting the expansion or flaring of the small end of the taper

### Retention Knob Style



### O-Ring Type



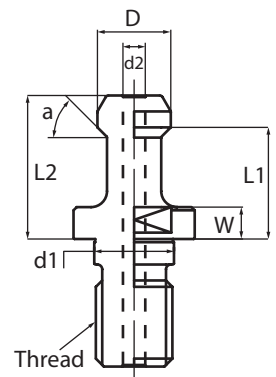
# RETENTION KNOBS

## CAT RETENTION KNOBS

Part Number	D	d1	d2	L1	L2	Angle Degree	W	Thread (UNC)	O-Ring	Torque Range (Ft-lbs)	Torque Wrench Attachment*	Style
<b>C40-1500(R)-EU</b>	0.748	0.641	0.276	0.793	1.030	15	0.276	5/8"-11	S-15	65-85	TQW-PS(19)	D
<b>C40-1500-EU</b>	0.748	0.512	0.276	0.793	1.030	15	0.276	5/8"-11	—	65-85	TQW-PS(19)	D
<b>C40-1500-MATS-EU</b>	0.748	0.512	0.276	0.787	1.024	15	0.157	5/8"-11	—	65-85	TQW-PS(19)	D
<b>C40-1500-MORI-EU</b>	0.748	0.641	0.276	0.793	1.030	15	0.236	5/8"-11	S-15, P-9	65-85	TQW-PS(19)	D
<b>C40-1500-SOLID</b>	0.748	0.512	—	0.793	1.030	15	0.276	5/8"-11	—	65-85	TQW-PS(19)	—
<b>C40-4500(H)GFAC-EU</b>	0.591	0.641	0.177	0.984	1.260	45	0.124	5/8"-11	S-15	65-85	TQW-PS(19)	—
<b>C40-6000(H)-EU</b>	0.591	0.512	0.177	0.990	1.266	30	0.124	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40-9000(H)-EU</b>	0.591	0.512	0.177	0.990	1.266	90	0.124	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40-9000-EU</b>	0.591	0.512	—	0.990	1.266	90	0.124	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40S-4500(H)-EU</b>	0.591	0.512	0.177	0.990	1.266	45	0.236	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40S-4500-EU</b>	0.591	0.512	—	0.990	1.266	45	0.236	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40S-6000-EU</b>	0.591	0.512	—	0.990	1.266	30	0.236	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40S-9000-EU</b>	0.591	0.512	—	0.990	1.266	90	0.236	5/8"-11	—	65-85	TQW-PS(19)	J
<b>C40-STD-EU</b>	0.740	0.512	0.276	0.433	0.640	45	0.118	5/8"-11	—	65-85	TQW-PS(19)	A
<b>C40-STD-SOLID</b>	0.740	0.512	—	0.433	0.640	45	0.118	5/8"-11	—	65-85	TQW-PS(19)	—
<b>C50-1500(ISO)-EU</b>	1.102	0.827	0.433	0.984	1.339	15	0.197	1"-8	—	85-110	TQW-PS(30)/ER20	D
<b>C50-1500-EU</b>	1.102	0.827	0.394	0.992	1.346	15	0.276	1"-8	—	85-110	TQW-PS(30)/ER20	D
<b>C50-4500(H)-EU</b>	0.906	0.827	0.236	1.386	1.780	45	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	J
<b>C50-4500-EU</b>	0.906	0.827	—	1.386	1.780	45	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	—
<b>C50-6000(H)-EU</b>	0.906	0.827	0.236	1.386	1.780	30	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	J
<b>C50-6000-EU</b>	0.906	0.827	—	1.386	1.780	30	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	J
<b>C50-9000(H)-EU</b>	0.906	0.827	0.236	1.386	1.780	90	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	J
<b>C50-9000-EU</b>	0.906	0.827	—	1.386	1.780	90	0.394	1"-8	—	85-110	TQW-PS(30)/ER20	J
<b>C50-9000-MORI-EU</b>	0.906	1.031	0.315	1.386	1.780	90	0.394	1"-8	P-9, S-24	85-110	TQW-PS(30)/ER20	J, G
<b>C50-MAKINO-EU</b>	0.906	0.984	0.236	1.378	1.772	45	0.394	1"-8	P-22	85-110	TQW-PS(30)/ER20	J, L
<b>C50-OKUMA(OH)-EU</b>	0.906	1.024	0.236	1.378	1.772	30	0.394	1"-8	P-22	85-110	TQW-PS(30)/ER20	—
<b>C50-STD-EU</b>	1.142	0.768	0.461	0.701	1.004	45	0.197	1"-8	—	85-110	TQW-PS(32)	A
<b>PS-874-EU</b>	0.748	0.669	0.236	0.906	1.142	15	0.276	M16 P2	—	65-85	TQW-PS(19)	J
<b>PS-B61-EU</b>	0.906	1.024	0.236	1.378	1.772	30	0.394	1"-8	N-24	85-110	TQW-PS(30)/ER20	J, L
<b>PS-B64-1-EU</b>	0.740	0.641	0.157	0.440	0.640	45	0.118	5/8"-11	S-15	65-85	TQW-PS(19)	A
<b>PS-037-1G</b>	0.591	0.641	—	0.990	1.266	90	0.236	5/8"-11	S-15	65-85	TQW-PS(19)	J

Note:

- \*Torque Wrench sold separately from Torque Wrench Attachments. See pages 41 and 88 for more details.



The drawing above details the seven critical dimensions needed to determine which retention stud is required.

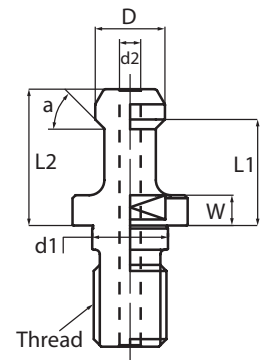
Please have these dimensions ready when you place your order, so that we may easily and quickly determine which retention stud is needed for your machining center.

## BT RETENTION KNOBS

Part Number	D	d1	d2	L1	L2	Angle Degree	W	Thread	O-Ring	Torque Range (Ft-lbs)	Torque Wrench Attachment*	Style
PS-16	0.433	0.492	—	0.709	0.906	45	0.197	M12 P1.75	—	30-40	TQW-PS(13)	J
PS-17	0.433	0.492	—	0.709	0.906	30	0.197	M12 P1.75	—	30-40	TQW-PS(13)	J
PS-130E	0.433	0.492	0.098	0.709	0.906	30	0.197	M12 P1.75	—	30-40	TQW-PS(13)	J, L
PS-132	0.433	0.492	0.157	0.709	0.906	45	0.197	M12 P1.75	P-9	30-40	TQW-PS(13)	J
B30-4500-EU	0.433	0.492	—	0.709	0.906	45	0.197	M12 P1.75	—	30-40	TQW-PS(13)	J
B30-6000-EU	0.433	0.492	—	0.709	0.906	30	0.197	M12 P1.75	—	30-40	TQW-PS(13)	J
B40-1500(R)-EU	0.748	0.669	0.276	0.906	1.142	15	0.276	M16 P2	AS568-015	65-85	TQW-PS(19)	D
B40-1500-EU	0.748	0.669	0.276	0.906	1.142	15	0.276	M16 P2	—	65-85	TQW-PS(19)	D
B40-1500-MORI-EU	0.748	0.669	0.276	0.906	1.142	15	0.335	M16 P2	S-15, P-9	65-85	TQW-PS(19)	D, T
B40-4500(H)-EU	0.591	0.669	0.181	1.102	1.378	45	0.236	M16 P2	—	65-85	TQW-PS(19)	J
B40-4500-EU	0.591	0.669	—	1.102	1.378	45	0.236	M16 P2	—	65-85	TQW-PS(19)	J
B40-6000	0.591	0.669	—	1.102	1.378	30	0.236	M16 P2	—	65-85	TQW-PS(19)	J
B40-6000(H)	0.591	0.669	0.181	1.102	1.378	30	0.236	M16 P2	—	65-85	TQW-PS(19)	J
B40-9000-EU	0.591	0.669	—	1.102	1.378	90	0.236	M16 P2	—	65-85	TQW-PS(19)	J
B40-FADAL	0.740	0.669	—	0.552	0.752	45	0.236	M16 P2	—	65-85	TQW-PS(19)	A
B40-STD	0.740	0.669	0.276	0.433	0.640	45	0.118	M16 P2	—	65-85	TQW-PS(19)	A
PS-805	0.748	0.669	—	0.906	1.142	15	0.276	M16 P2	—	65-85	TQW-PS(19)	J
B50-4500(H)-EU	0.906	0.984	0.276	1.378	1.772	45	0.394	M24 P3	—	85-110	TQW-PS(30)/ER20	J
B50-4500-EU	0.906	0.984	—	1.378	1.772	45	0.394	M24 P3	—	85-110	TQW-PS(30)/ER20	J
B50-6000(H)-EU	0.906	0.984	0.276	1.378	1.772	30	0.394	M24 P3	—	85-110	TQW-PS(30)/ER20	J
B50-9000(H)	0.906	0.984	0.276	1.378	1.772	90	0.394	M24 P3	—	85-110	TQW-PS(30)/ER20	D
B50-9000-EU	0.906	0.984	—	1.378	1.772	90	0.394	M24 P3	—	85-110	TQW-PS(30)/ER20	D

Note:

- \*Torque Wrench sold separately from Torque Wrench Attachments. See pages 41 and 88 for more details.





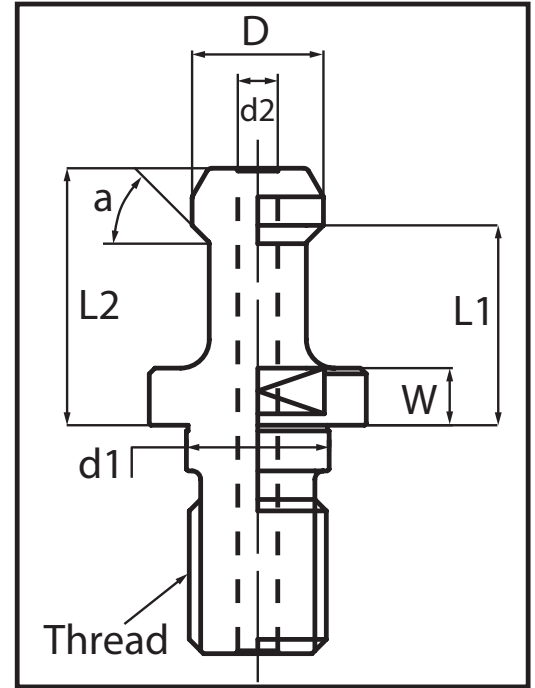
# RETENTION KNOBS



## RETENTION KNOB INQUIRY FORM

Please complete form with as much information as possible and return to [sales@lyndexnikken.com](mailto:sales@lyndexnikken.com).

CUSTOMER NAME:	
ADDRESS:	
CITY / STATE / ZIP:	
CONTACT:	
PHONE:	
EMAIL:	



Machine Information			Required Dimensions						Coolant Through		
Machine Make	Machine Model	Machine Taper	D	L1	L2	W	a	Thread	d1	d2	O-Ring (Y/N)

RETENTION KNOBS

# THE GLOBAL LEADER IN MANUFACTURING INNOVATION



LYNDEX-NIKKEN

## NIKKEN X-TREME CHUCKS



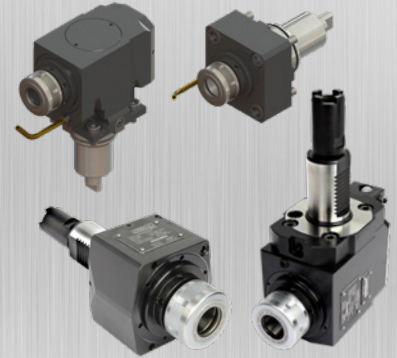
Industry proven to eliminate pull-out. Developed exclusively for demanding applications in Aerospace and Energy.

## QUICK CHANGE FLEX COLLETS



A wide selection of Quick Change Flex Collets & Chucks to handle any work-holding challenge. Can be switched within 10 seconds.

## SK LIVE TOOLS



3x the gripping power of ER! Machine with higher chip load and reduced cycle time. New design allows for all internal coolant tools to be run dry continuously!

## DIRECT DRIVE ROTARY TABLES



High speed, high accuracy rotary tables for high production needs.

## ANGLE HEADS



A low investment to help obtain high productivity on machining centers.

## SHRINK FIT



Combining narrow, precise and rigid shrink fit holders with an easy-to-use shrink machine.



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[lyndexnikken.com](http://lyndexnikken.com)

Connect With Us!





## TOOL CLAMPERS



Lyndex-Nikken Tool Clampers are machinists' favorite tooling setup fixtures because they are so handy and practical. You'll gain immediate access to both the working end and the taper end and your toolholder will be secured by a vise-tight grip.

Easy to use, just place or mount your Tool Clamper in a convenient spot and slip a holder into its cradle. Raise the flange lock and secure it with an easy-to-grip thumb screw.

Tool Clamper provides maximum toolholder accessibility with minimum handling. Less handling means fewer chances of costly toolholders being dropped or damaged. Save the time and the hassles of using yesterday's toolholder loading and unloading techniques, and save the money you would spend on replacing damaged toolholders.

### FEATURES

- Access both ends of your toolholders simultaneously
- Minimize toolholder handling
- Speed up your setup
- Convenient and practical
- Easy to use

### UNIVERSAL TOOL CLAMPER

Part Number	Description
<b>TCLA-30/50A/C5</b>	Tool Clamper - BT30 / HSK50A / PSC C5 Adjustable
<b>TCLA-40/63A/C6</b>	Tool Clamper - BT40 / CAT40 / HSK63A / PSC C6 Adjustable
<b>TCLA-50/100A/C10</b>	Tool Clamper - BT50 / CAT50 / HSK100A / C10 Adjustable

### NIKKEN TOOL CLAMPER

Part Number	Description
<b>NCL-BT30</b>	NIKKEN Tool Clamper - on size BT30 Taper
<b>NCL-BT40</b>	NIKKEN Tool Clamper - on size BT40 Taper
<b>NCL-BT50</b>	NIKKEN Tool Clamper - on size BT50 Taper
<b>NCL-ICAT40</b>	NIKKEN Tool Clamper - on size CAT40 / IT40 / SK40 Tapers
<b>NCL-ICAT50</b>	NIKKEN Tool Clamper - on size CAT50 / IT50 / SK50 Tapers



## NIKKEN TOOL CLAMPER FOR HSK & ATC ALIGNMENT KIT

Nikken Tool clamper is designed for symmetrical holders without drive key slots or U-groove. By changing the clamper head to the suitable size, the same base can be used for the other taper sizes.

**Changeable Lever**  
Clamp/Neutral/Unclamp



TCL-40GH

Clamper Head TCL-...HD



Clamper Base TCL-BD

### NIKKEN TOOL CLAMPER FOR HSK TOOLING

Taper	Tool Clamper Complete Unit	Base Part Number	Head Part Number
HSK32E	TCL-32GH	TCL-BD	TCL-32HD
HSK40A, 40E	TCL-40GH		TCL-40HD
HSK50A, 50E	TCL-50GH		TCL-50HD
HSK63A, 63E, 63F	TCL-63GH		TCL-63HD
HSK100A	TCL-100GH		TCL-100HD

### ATC ALIGNMENT KIT

The Automatic Tool Changer (ATC) allows for service on your machine to check alignment of the ATC arm with the spindle and magazine.

Part Number	Taper
ATC-ALIGN-BT30	#30
ATC-ALIGN-BT40	#40
ATC-ALIGN-BT50	#50
ATC-ALIGN-CAT40	CAT40
ATC-ALIGN-CAT40-MZ	CAT40 (Mazak)
ATC-ALIGN-CAT50	CAT50
ATC-ALIGN-CAT50-MZ	CAT50 (Mazak)
ATC-ALIGN-HSK63A	HSK63A
ATC-ALIGN-HSK100A	HSK100A

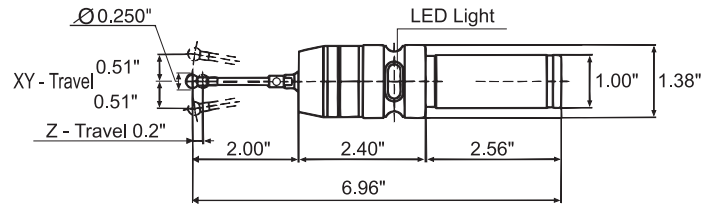


The ATC Alignment Kit consists of:

- Taper adapter
- Flange adapter
- Centering pin

## POINTFINDER™

Locate the precise relative positioning of the workpiece to the spindle



PointFinder™ is an all-in-one replacement for primary axis setters, calipers, and depth and centering gauges. Not only is it quick and easy to use, its accuracy is beyond compare.

Simply load it into a toolholder and mount it into the machine's spindle. Gauge length pre-setting is unnecessary for X- or Y-axis coordinate determination. Move PointFinder slowly along either the X- or Y-axis toward the workpiece. Its bright LED flashes at the exact point where its 1/4" diameter probe touches the workpiece's surface. That point is exactly 1/8" away from spindle center. Z-axis coordinate determination requires pre-setting, and the point of probe contact marks the exact Z-axis coordinate.

With the workpiece locked into position, your other measurements are performed with the same ease and speed.

Part Number	Description
PF-2	PointFinder™ with 2" Stylus
PF-STYLUS-2	Replacement Stylus for PointFinder™ PF-2

## FEATURES

### Advanced Conductive Detection System

- Instant LED response
- Direct action—no relays
- Works with all metals
- Unaffected by cutting oil

### Precise

- Position detection accuracy: +/- 0.0008"
- Stylus recovery accuracy: +/- 0.0008"
- Stylus to shank concentricity: +/- 0.0004"

### Overrun Protected

- X-axis and Y-axis: 0.400"
- Z-axis: 0.200"

### Versatile Design

- Convenient 1" straight shank configuration
- Projects 4.40" from holder when fully loaded

### Hardened, Precision Ground Steel Construction

### Easy to Use

- Measure without calipers
- Set depths, find centers without gauges
- Position your workpiece without primary axis setters

### Time Saver

- Turn expensive setup time into profit-making production time

# ACCESSORIES

## ZEROSETTER™

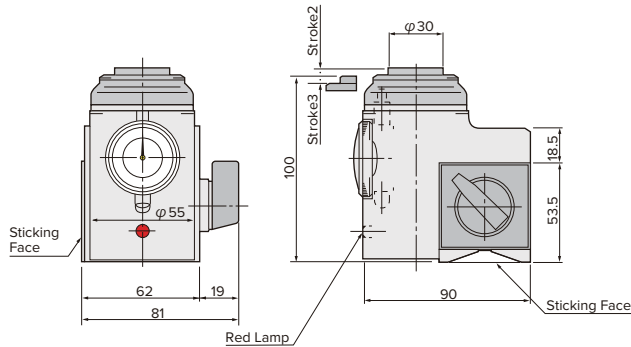
Quick, simple, precise Z-axis off setting

ZeroSetter™ assures fast reliable results every time you off-set your Z-axis. Your setup time will be reduced, so you'll gain valuable production time. Made of hardened tool steel, each setter is meticulously ground for top precision. ZeroSetter establishes an absolute gauge length of 4" or 6" that serves as your primary reference point. Its dial indicator is graduated in thousandths (0.001").

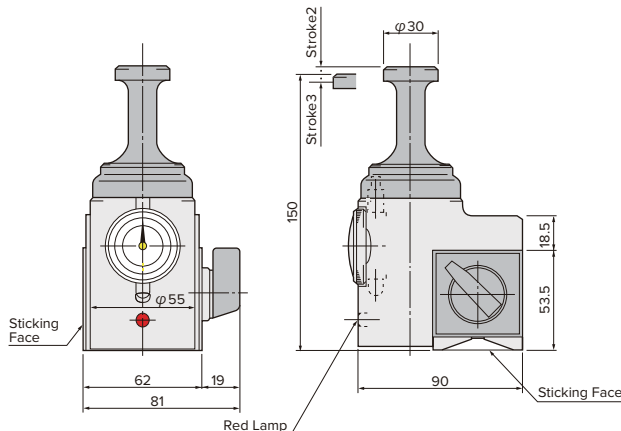


Part Number	Description
<b>ZERO-SET2/50</b>	2" / 50mm Gauge Length Zero Setter
<b>HP-100WP</b>	100mm Gauge Length Height Presetter - Rust and Dust Proof
<b>HP-150WP</b>	150mm Gauge Length Height Presetter - Rust and Dust Proof
<b>HP-4WP</b>	4" Gauge Length Height Presetter - Rust and Dust Proof
<b>HP-6WP</b>	6" Gauge Length Height Presetter - Rust and Dust Proof

**HP-100WP**  
(Dimensions in mm)

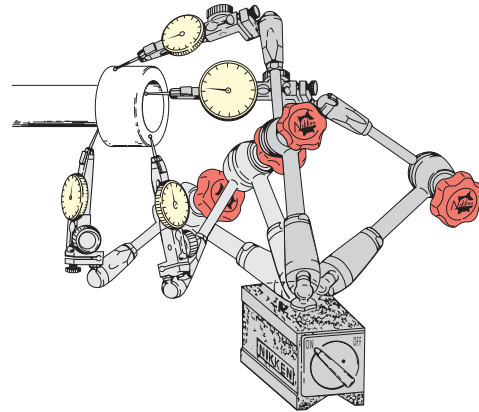
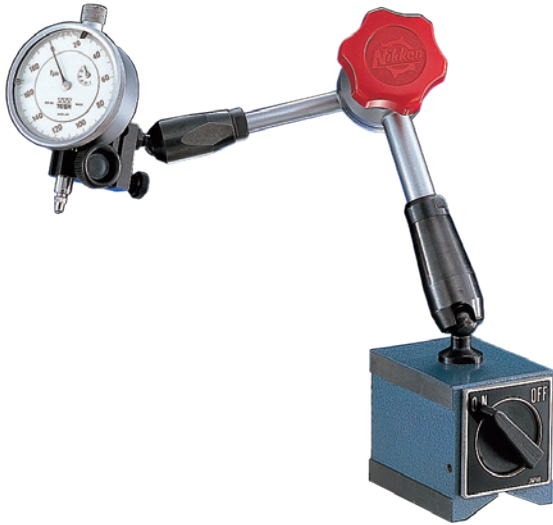


**HP-150WP**  
(Dimensions in mm)



## UNIVERSAL MICRO STAND

Our Micro stand is the ideal base to mount your dial test indicator for clocking or aligning your parts or equipment.



### FEATURES

#### Long Reach

- 11.8" (300mm) max. (straight horizontal)
- Free flexing in any direction: vertical, lateral, longitudinal, rotational, etc.
- Can measure inside and outside diameters, end and back faces

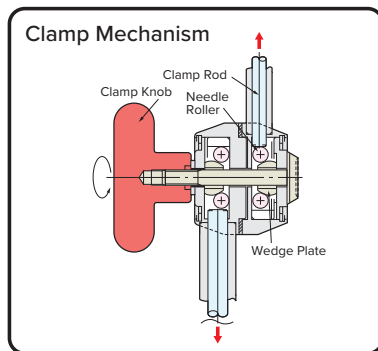
#### Clamp Mechanism

- Clamp knob prevents looseness due to machine vibration
- Articulated joints lock firmly and no fine (micron) movement will occur - even after being in the same position for 100 hours

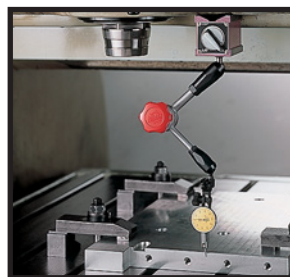
#### Strong Magnet

- Adapt to most surfaces including vertical, angular, uneven surfaces and more

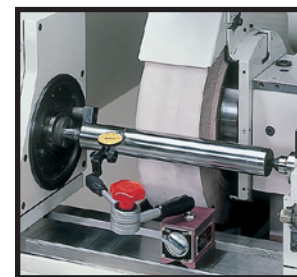
Part Number	Description
UDS-1	Universal Micro Stand with magnetic base



On Machining Center



On NC Lathe



On Grinding Machine



## SPINDLE WIPES

These handy wipes quick-clean your spindles, assuring that your toolholder tapers make continuous positive contact with them for repeatable on-center performance. They're also perfect for cleaning the bores of your collet chucks.



### FOR MACHINE SPINDLES

Part Number	Description
<b>SPINDLE-WIPE-#30</b>	Spindle Wipe 30 Taper
<b>SPINDLE-WIPE-#40</b>	Spindle Wipe 40 Taper
<b>SPINDLE-WIPE-#50</b>	Spindle Wipe 50 Taper
<b>SPINDLE-WIPE-H100/125</b>	Spindle Wipe HSK100A/C/E, HSK125B/D/F
<b>SPINDLE-WIPE-H125/160</b>	Spindle Wipe HSK125A/C, HSK160
<b>SPINDLE-WIPE-H25/32</b>	Spindle Wipe HSK25A/C/E, HSK32B/D/F
<b>SPINDLE-WIPE-H32/40</b>	Spindle Wipe HSK32A/C/E, HSK40B/D/F
<b>SPINDLE-WIPE-H40/50</b>	Spindle Wipe HSK32A/C/E, HSK40B/D/F
<b>SPINDLE-WIPE-H50/63</b>	Spindle Wipe HSK50A/C/E, HSK63B/D/F
<b>SPINDLE-WIPE-H63/80</b>	Spindle Wipe HSK50A/C/E, HSK63B/D/F
<b>SPINDLE-WIPE-H80/100</b>	Spindle Wipe HSK50A/C/E, HSK63B/D/F



### SILICONE SPINDLE WIPE

Part Number	Description
<b>CLEH-NT30-R</b>	Silicone Spindle Wipe 30 Taper
<b>CLEH-NT40-R</b>	Silicone Spindle Wipe 40 Taper
<b>CLEH-NT50-R</b>	Silicone Spindle Wipe 50 Taper
<b>CLEH-HSK63-R</b>	Silicone Spindle Wipe HSK63A Taper
<b>CLEH-HSK100-R</b>	Silicone Spindle Wipe HSK100A Taper



## TEST BARS

- Precision ground
- Maximum T.I.R. of 0.0002"
- Excellent for gauging spindle runout
- Packaged in wooden carry case



### CAT40/50

Part Number	Taper	L	D
CAT40-TB1.3/4-14.00NF	CT40	14.00"	1.75"
CAT50-TB2.1/2-14.00NF	CT50	14.00"	2.50"

### BT30/40/50

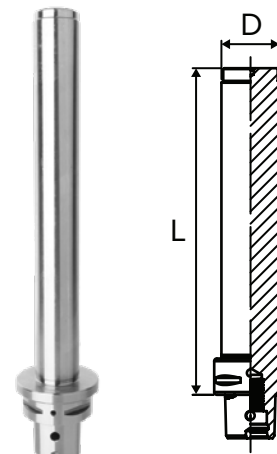
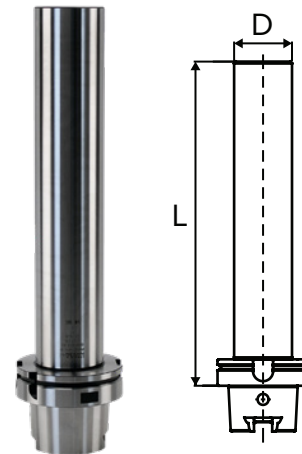
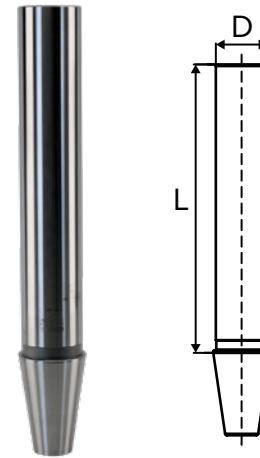
Part Number	Taper	L	D
BT30-TB1.1/4-10.00NF	BT30	10.00"	1.25"
BT40-TB1.3/4-14.00NF	BT40	14.00"	1.75"
BT50-TB2.1/2-14.00NF	BT50	14.00"	2.50"

### HSK63A/100A

Part Number	Taper	L	D
HSK63A-TB1.3/4-14.00	HSK63A	14.00"	1.75"
HSK100A-TB2.1/2-14.00	HSK100A	14.00"	2.50"

### C4/C5/C6

Part Number	Taper	L	D
C4-TB32-180	C4	180mm	32mm
C5-TB40-280	C5	280mm	40mm
C6-TB40-352	C6	352mm	40mm



## MOMIMEN CARBIDE INDEXABLE CHAMFERING & CENTER-DRILLING TOOLS

Achieve super long life and ultra fast cutting performance



**Momimen SC1630C**



**Momimen SC1645C**



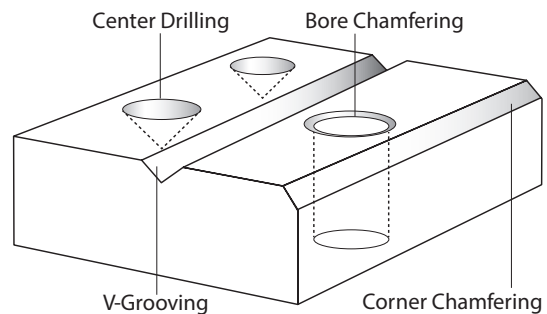
**Momimen SC1660D (insert not included)**

### FEATURES

- Our CNC multi-purpose tool's patented inserts are specifically designed to eliminate the problems of chipping at the center point associated with conventional center drills
- Our unique tool holding system assures high accuracy and saves time when replacing inserts
- Our single blade system eliminates cutting vibration
- Momimen is durable (even for high speed cutting) which greatly improves productivity
- Momimen enables centering and chamfering work to be done on the same center

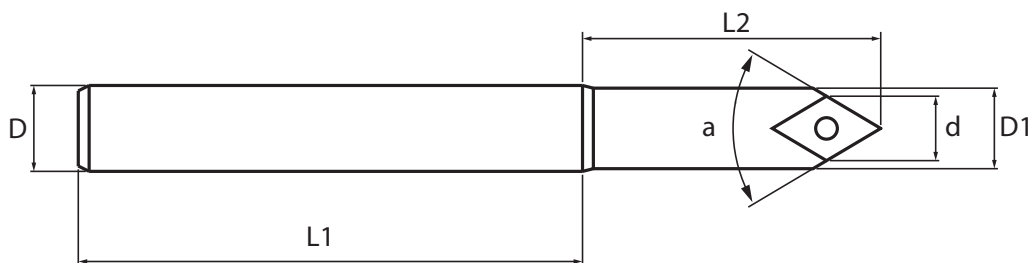
### APPLICATIONS

- Center Drilling
- Corner Chamfering
- Bore Chamfering
- V-Groove Cutting



## MOMIMEN CARBIDE INDEXABLE CHAMFERING & CENTER-DRILLING TOOLS

Indexable carbide tools for chamfering, center-drilling and v-grooving with one tool



### MOMIMEN CHAMFER/CENTER DRILL

Part Number	L1	L2	D	d	a	D1	Insert Nose Radius (mm)
SC1630C	3.27"	1.23"	5/8"	0.625"	118°	0.650"	0.6
SC1645C	3.35"	1.15"	5/8"	0.500"	90°	0.551"	0.6
SC1660D*	3.75"	2.05"	5/8"	0.472"	60°	0.472"	0.4

\*Insert for SC1660D not included.

### INSERTS

Part Number	Grade	Application
C32GUX-NK1010	NK1010	Aluminum Cast Iron (Momimen 1630 and 1645)
C32GUX-NK2020	NK2020	Steel (Momimen 1630 and 1645)
D43GUX-NK1010	NK1010	Aluminum Cast Iron (Momimen 1660)
D43GUX-NK5050	NK5050	Steel (Momimen 1660)

Note: Insert package quantity is 12 pieces.

### RECOMMENDED SPEEDS & FEEDS

Materials	For Center Drilling & V-Grooving			For Chamfer Milling (down cut)		
	RPM	IPM	Grade	RPM	IPM	Grade
Mild Steels	3000	3.2	NK2020	3000	8	NK2020
Stainless Steels	2000	2	NK2020	2500	6	NK2020
Die Steels	3000	2	NK2020	3000	6	NK2020
Cast Iron	3200	8	NK1010	3000	8	NK1010
Aluminum	4000	6	NK1010	4000	12	NK1010

## CHIBIMOMI CARBIDE INDEXABLE CHAMFERING & CENTER-DRILLING TOOLS

Achieve super long life and ultra fast cutting performance



**Chibimomi SCM1045C**



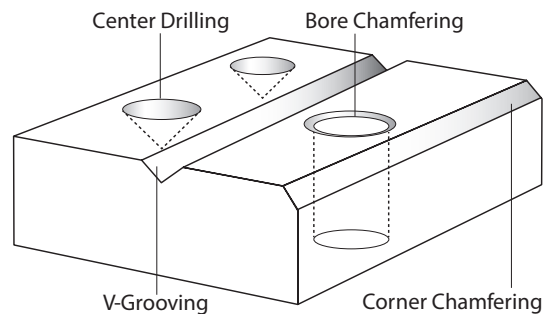
**Chibimomi SCM1045CL**

### FEATURES

- 3/8" shank and 5/16" lip assure highly accurate machining in narrow and limited space points.
- Our patented insert eliminates cutting vibration and cracking.
- Our patented insert assures problem-free secondary deburring.
- Save time when replacing inserts because no tool compensation is needed.
- Number of toolholders in the ATC can be reduced because this can be used for multiple applications such as: spot drilling, countersinking and chamfering, bore chamfering, edge chamfering, and v-grooving.
- Greatly improves productivity due to high-speed cutting.

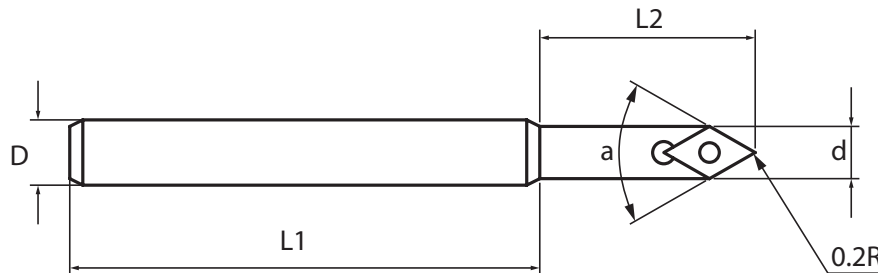
### APPLICATIONS

- Center Drilling
- Corner Chamfering
- Bore Chamfering
- V-Groove Cutting



## CHIBIMOMI CARBIDE INDEXABLE CHAMFERING & CENTER-DRILLING TOOLS

Indexable carbide tools for chamfering, center-drilling and v-grooving with one tool



### CHIBIMOMI CHAMFER/CENTER DRILL

Part Number	L1	L2	D	d	a
SCM1045C	2.68"	1.37"	0.393"	0.315"	90°
SCM1045CL	5.14"	1.37"	3/8"	0.315"	90°

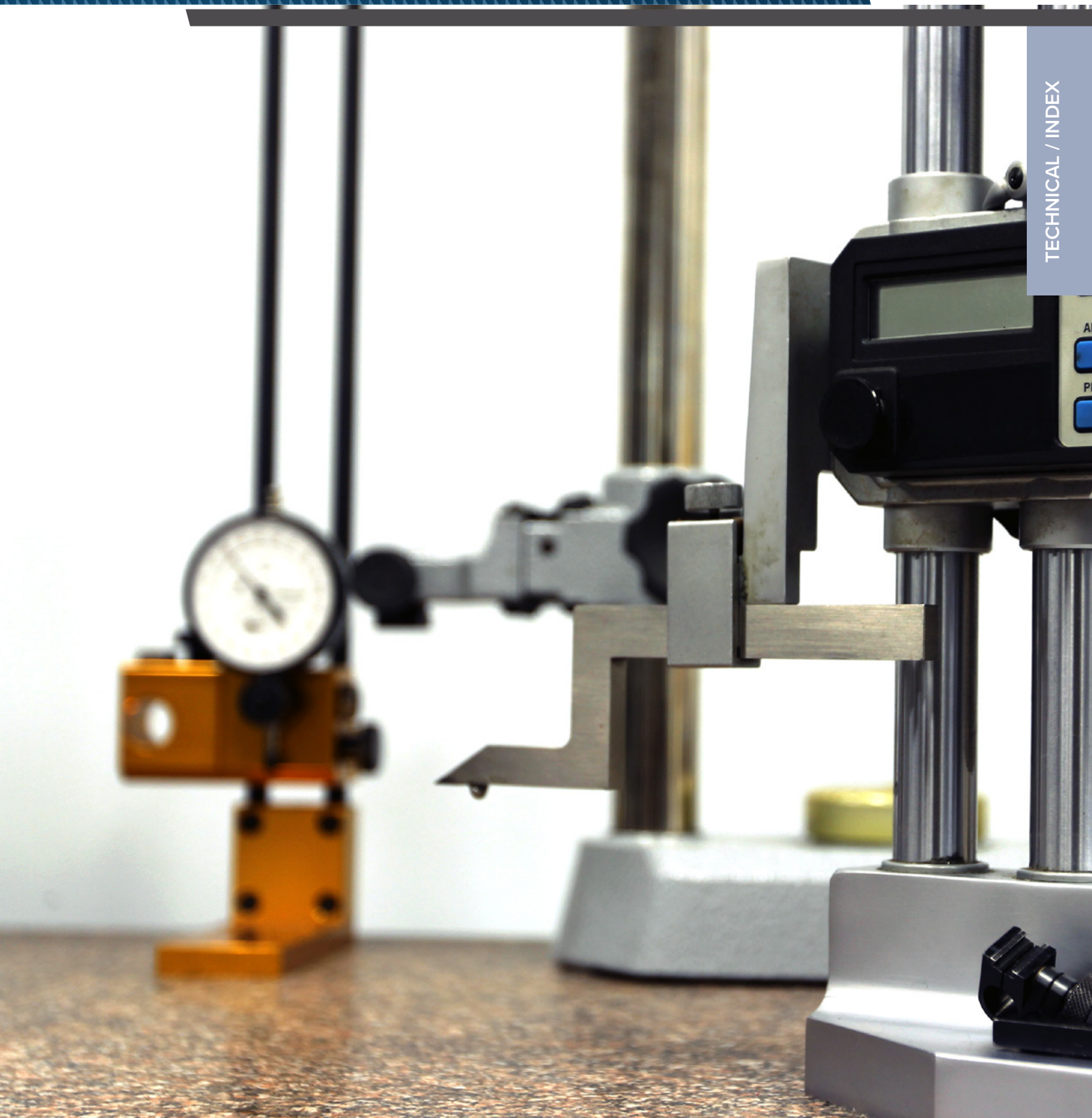
### INSERTS

Part Number	Grade	Application
C22GUX-NK1010	NK1010	Steel
C22GUX-NK5050	NK5050	Steel

Note: Insert package quantity: 12 pieces.

### RECOMMENDED SPEEDS & FEEDS

Materials	For Center Drilling & V-Grooving			For Chamfer Milling (down cut)		
	RPM	IPM	Grade	RPM	IPM	Grade
Mild Steels	3000	2	NK5050	3500	19	NK5050
Stainless Steels	2800	2	NK5050	3000	13	NK5050
Aluminum	4000	4	NK1010	5000	39	NK1010



## LYNDEX-NIKKEN PRODUCT WARRANTY

### TOOLHOLDER WARRANTY

- All standard tooling and collets from Lyndex-Nikken have a 1 year warranty against manufacturer defects and workmanship.
- Warranty is void if physical harm is done to the tool or misused outside of its intended purpose.



### SHRINK FIT UNIT WARRANTY

- All shrink fit units have a 1 year warranty against manufacturer defects and workmanship.
- Proper installation is required to maintain the 1 year manufacturing warranty.
- 200V Units – MUST be on dedicated protected network with 3 Phase 200-240V 50-60Hz with a 32A circuit breaker with a 30mA differential.
- 400V Units – MUST be on dedicated protected network with 3 Phase 400-480V 50-60Hz with a 32A circuit breaker with a 30mA differential.
- Cooling Towers requires dry filtered air at 85-125psi and be securely mounted.
- Warranty is void if physical harm is done to the unit or used outside of its intended purpose.



### ANGLE HEADS WARRANTY

- All angle heads come with a 1 year warranty against manufacturing defects and workmanship.
- All L/N angle heads need to be application approved in order for the warranty to be valid.
- Warranty becomes void if customer disassembles tool or if customer physically damages the tool.
- On repairs, there is a 6 month warranty on replacement parts and workmanship.
- Preventative Maintenance packages are available by request.
- Warranty DOES NOT apply for NSK attachments on Modular Angle Heads.
- Angle Heads should be checked periodically for heat generation / T.I.R. / noise generation and sent in accordingly.
- Internal coolant tools should be sent in every 6 months to 1 year based on usage.





## LYNDEX-NIKKEN PRODUCT WARRANTY

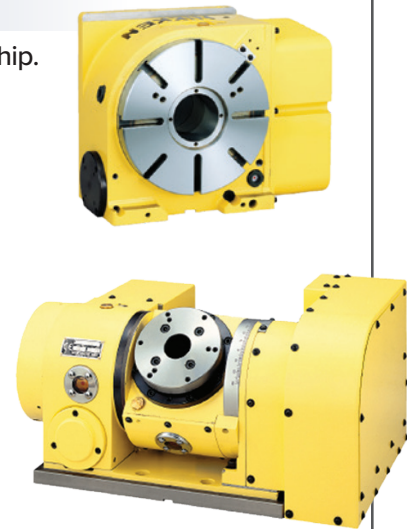
### LIVE TOOLS WARRANTY

- All live tooling comes with a 1 year warranty against manufacturing defects and workmanship.
- Warranty becomes void if customer disassembles tool or if customer physically damages the tool.
- On repairs, there is a 6 month warranty on replacement parts and workmanship.
- Preventative Maintenance packages are available by request.
- Live tools should be checked periodically for heat generation / T.I.R. / noise generation and sent in accordingly.
- Internal coolant tools should be sent in every 6 months to 1 year based on usage.



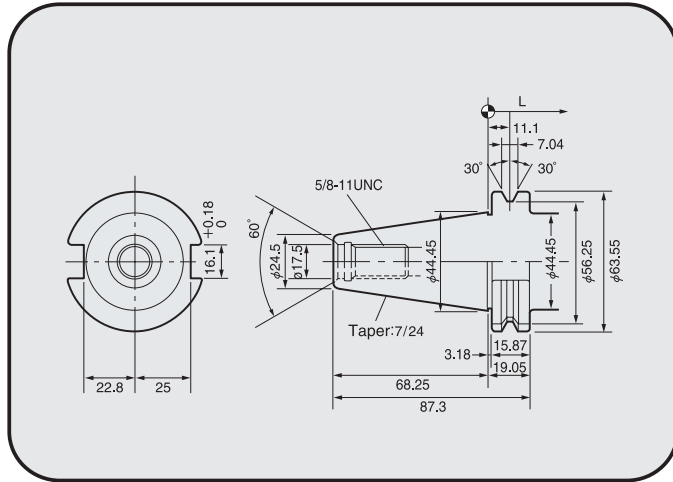
### ROTARY TABLES WARRANTY

- Warranty of table is 1 year against manufacturer defects and workmanship.
- If customer has table repaired by Lyndex-Nikken, warranty on repair is 3 months against manufacturer defects and workmanship.
- Preventative Maintenance packages available by request.
- Warranty also covers all support tables, tailstocks, chucks and collet fixture assemblies as well.
- Warranty will also be void if installation of table is not by a certified technician from Lyndex-Nikken or other machine tool dealer.
- Failure to do so could result in damaged electrical components that Lyndex-Nikken will not be responsible for.
- Warranty is void if customer disassembles table or causes physical harm to the rotary table.

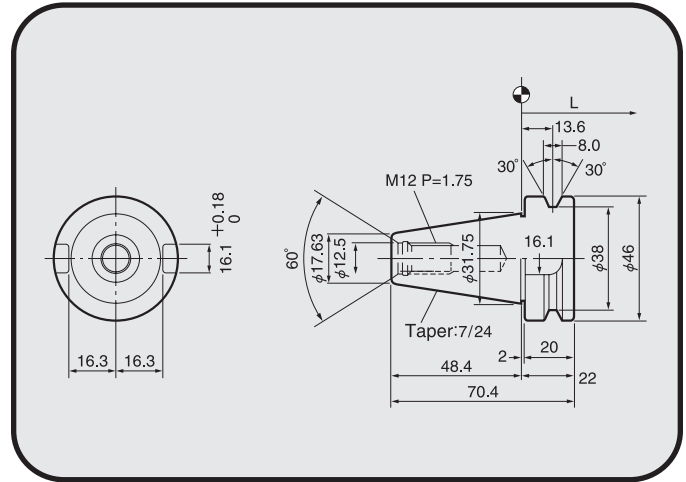


## TAPER SPECIFICATIONS

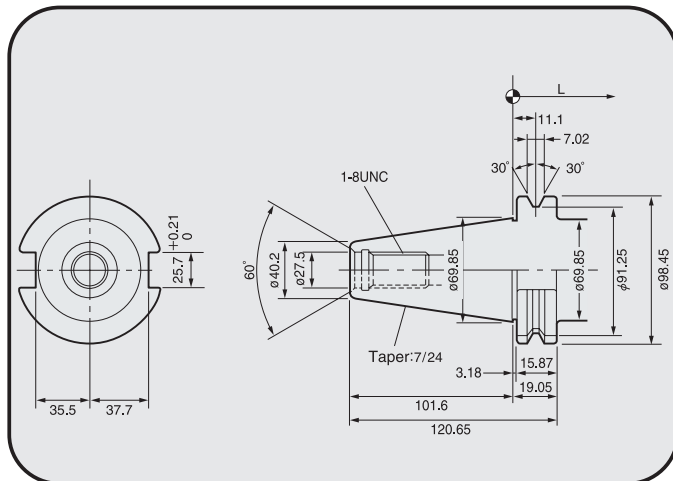
### CAT40



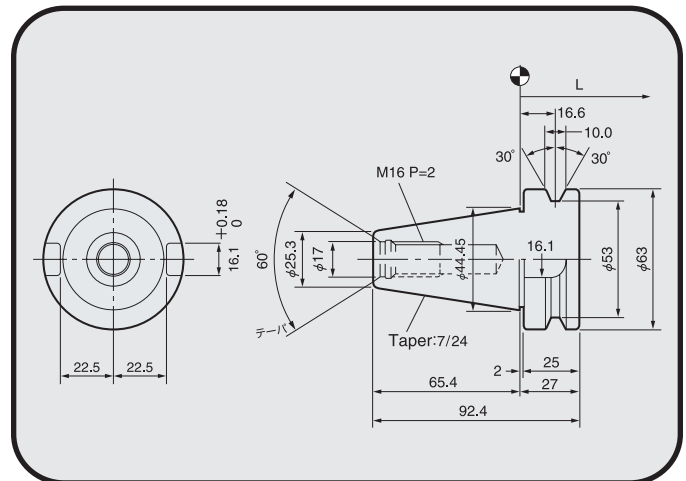
### BT30



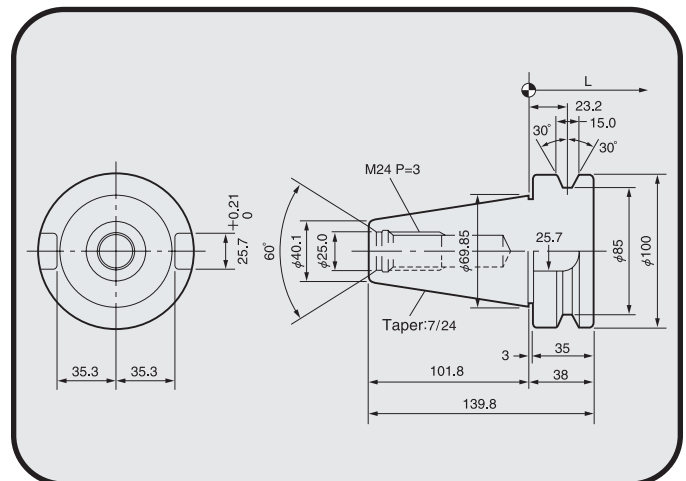
### CAT50



### BT40

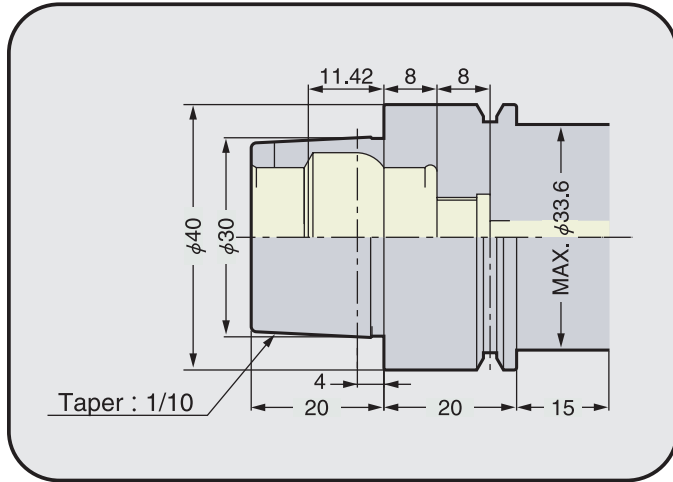


### BT50

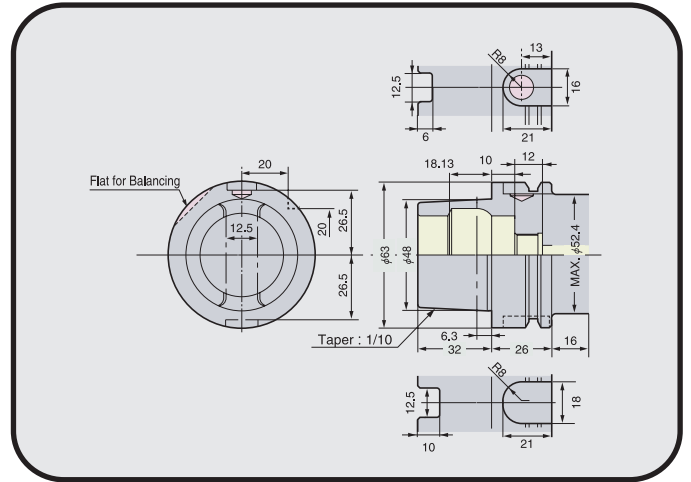


## TAPER SPECIFICATIONS

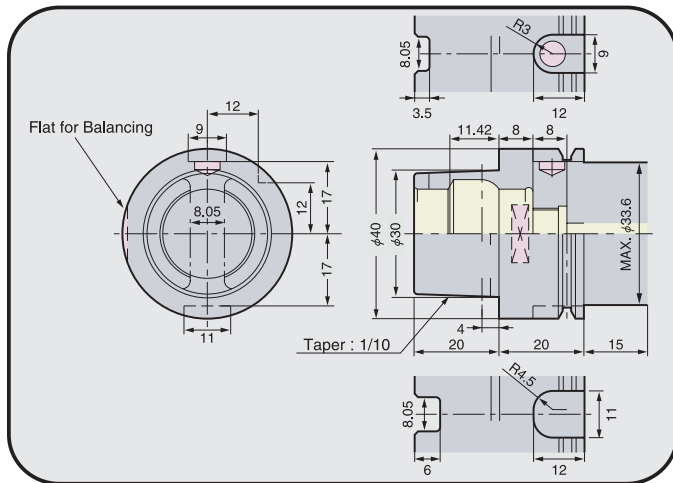
HSK40E



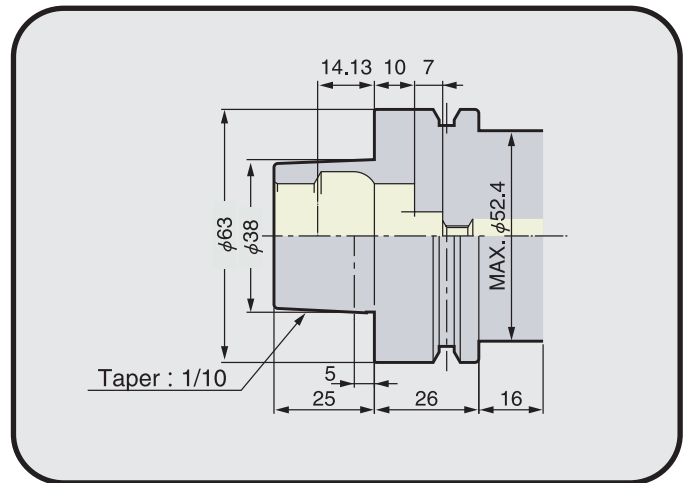
HSK63A



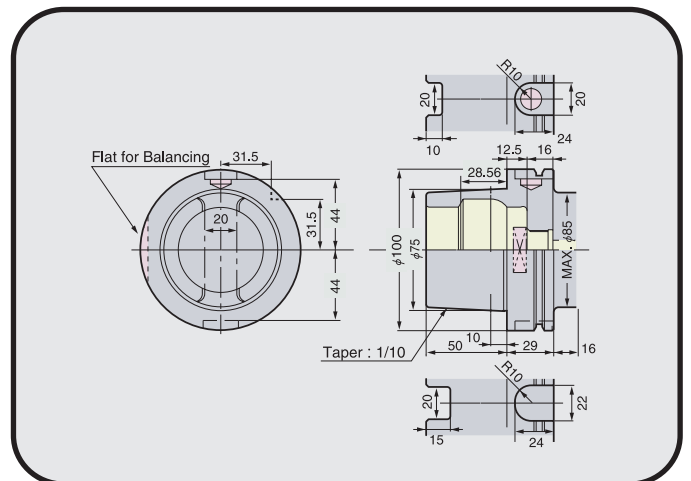
HSK40A



HSK63F

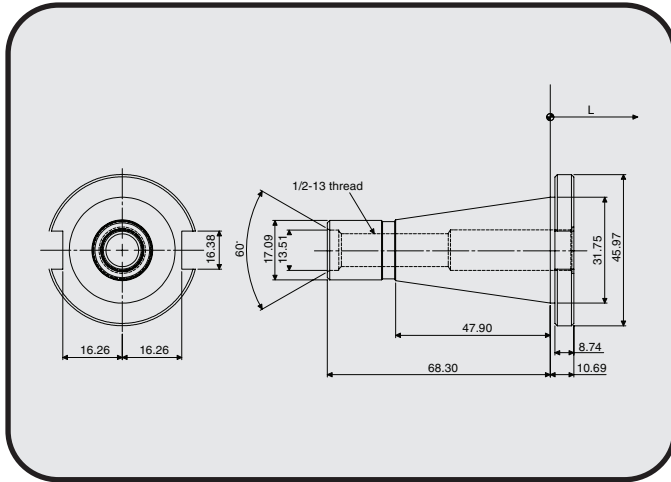


HSK100A

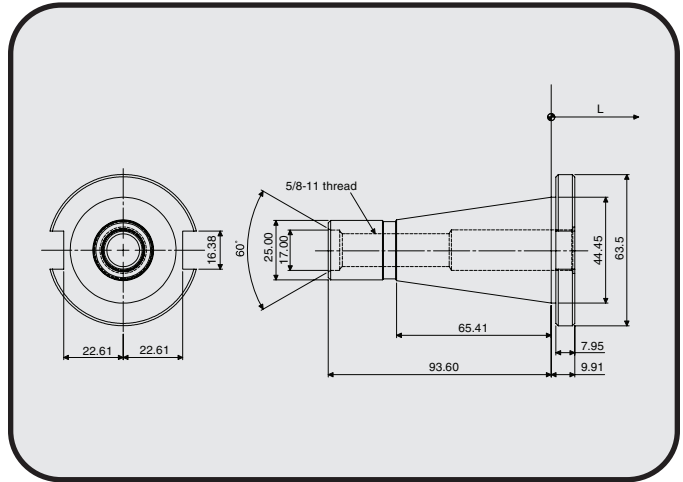


## TAPER SPECIFICATIONS

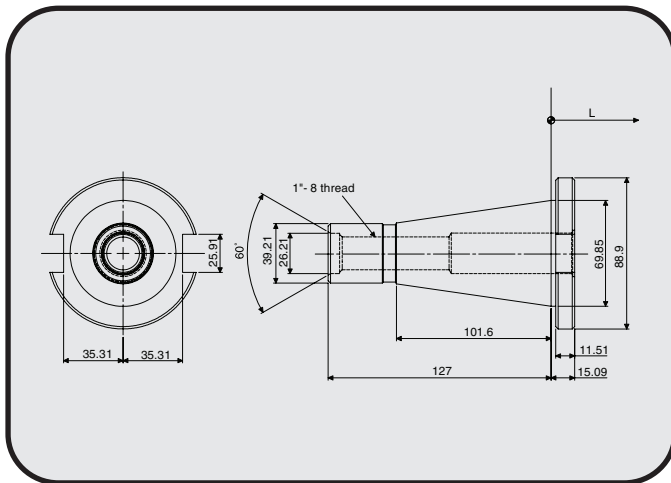
### NMTB30



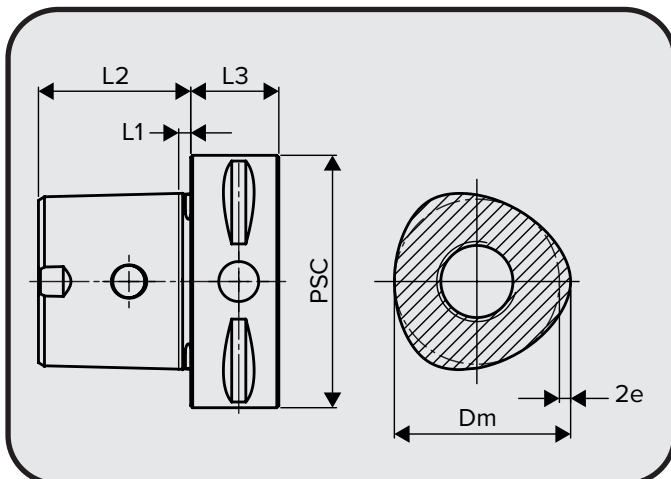
### NMTB40



### NMTB50



### POLYGONAL C3-C8 - ISO 26623-1



PSC	Size	Dm	e	L1	L2	L3 min.
32	C3	22	0.70	2.50	19	15
40	C4	28	0.90	2.50	24	20
50	C5	35	1.12	3.00	30	20
63	C6	44	1.40	3.00	38	22
80	C8	55	2.00	3.00	48	30

Note: All dimensions in this chart are in millimeters.

## SK DRILL CHART

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 COLLETS	SK10 COLLETS	SK13 COLLETS	SK16 COLLETS	SK20 COLLETS	SK25 COLLETS
	80			0.0135						
	79			0.0145						
1/64				0.0156						
	78			0.0160						
	77			0.0180						
			0.5	0.0197						
	76			0.0200						
	75			0.0210						
	74			0.0225						
	73			0.0240						
	72			0.0250						
	71			0.0260						
	70			0.0280	SK6-0.8					
	69			0.0292	SK6-0.8					
			0.75	0.0295	SK6-0.8					
	68			0.0310	SK6-0.8					
1/32				0.0312	SK6-0.8					
	67			0.0320						
	66			0.0330						
	65			0.0350	SK6-1	SK10-1				
	64			0.0360	SK6-1	SK10-1				
	63			0.0370	SK6-1	SK10-1				
	62			0.0380	SK6-1	SK10-1				
	61			0.0390	SK6-1	SK10-1				
			1	0.0394	SK6-1	SK10-1				
	60			0.0400						
	59			0.0410						
	58			0.0420						
	57			0.0430						
	56			0.0465	SK6-1.25	SK10-1.25				
3/64				0.0469	SK6-1.25	SK10-1.25				
			1.25	0.0492	SK6-1.25	SK10-1.25				
	55			0.0520	SK6-1.5	SK10-1.5				
	54			0.0550	SK6-1.5	SK10-1.5				
			1.5	0.0591	SK6-1.5	SK10-1.5				
	53			0.0595						
1/16				0.0625	SK6-1.75	SK10-1.75				
	52			0.0635	SK6-1.75	SK10-1.75				
	51			0.0670	SK6-1.75	SK10-1.75				
			1.75	0.0689	SK6-1.75	SK10-1.75				
	50			0.0700	SK6-2	SK10-2				
	49			0.0730	SK6-2	SK10-2				
	48			0.0760	SK6-2	SK10-2				
5/64				0.0781	SK6-2	SK10-2				
	47			0.0785	SK6-2	SK10-2				
			2	0.0787	SK6-2	SK10-2				
	46			0.0810	SK6-2.25	SK10-2.25				
	45			0.0820	SK6-2.25	SK10-2.25				
	44			0.0860	SK6-2.25	SK10-2.25				

## SK DRILL CHART

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 COLLETS	SK10 COLLETS	SK13 COLLETS	SK16 COLLETS	SK20 COLLETS	SK25 COLLETS
			2.25	0.0886	SK6-2.25	SK10-2.25				
	43			0.0890	SK6-2.5	SK10-2.5				
	42			0.0935	SK6-2.5	SK10-2.5				
3/32				0.0938	SK6-2.5	SK10-2.5				
	41			0.0960	SK6-2.5	SK10-2.5				
	40			0.0980	SK6-2.5	SK10-2.5				
			2.5	0.0984	SK6-2.5	SK10-2.5				
	39			0.0995	SK6-2.75	SK10-2.75				
	38			0.1015	SK6-2.75	SK10-2.75				
	37			0.1040	SK6-2.75	SK10-2.75				
	36			0.1065	SK6-2.75	SK10-2.75				
			2.75	0.1083	SK6-2.75	SK10-2.75		SK16-3		
7/64				0.1094	SK6-3	SK10-3		SK16-3		
	35			0.1100	SK6-3	SK10-3	SK13-3	SK16-3		
	34			0.1110	SK6-3	SK10-3	SK13-3	SK16-3		
	33			0.1130	SK6-3	SK10-3	SK13-3	SK16-3		
	32			0.1160	SK6-3	SK10-3	SK13-3	SK16-3		
			3	0.1181	SK6-3	SK10-3	SK13-3	SK16-3		
	31			0.1200	SK6-3.5	SK10-3.5	SK13-3.5	SK16-3.5		
1/8				0.1250	SK6-3.5/SK6-1/8A	SK10-3.5/ SK10-1/8A	SK13-3.5/SK13-1/8A	SK16-3.5/ SK16-1/8A	SK20-1/8A	
			3.25	0.1280	SK6-3.5	SK10-3.5	SK13-3.5	SK16-3.5		
	30			0.1285	SK6-3.5	SK10-3.5	SK13-3.5	SK16-3.5		
	29			0.1360	SK6-3.5	SK10-3.5	SK13-3.5	SK16-3.5		
			3.5	0.1378	SK6-3.5	SK10-3.5	SK13-3.5	SK16-3.5		
	28			0.1405	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
9/64				0.1406	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	27			0.1440	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	26			0.1470	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
			3.75	0.1476	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	25			0.1495	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	24			0.1520	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	23			0.1540	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
5/32				0.1562	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	22			0.1570	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
			4	0.1575	SK6-4	SK10-4	SK13-4	SK16-4	SK20-4	
	21			0.1590	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	20			0.1610	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	19			0.1660	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
			4.25	0.1673	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	18			0.1695	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
11/64				0.1719	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	17			0.1730	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	16			0.1770	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
			4.5	0.1772	SK6-4.5	SK10-4.5	SK13-4.5	SK16-4.5	SK20-4.5	
	15			0.1800	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	14			0.1820	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	13			0.1850	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
			4.75	0.1870	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
3/16				0.1875	SK6-5.0/SK6-3/16A	SK10-5/ SK10-3/16A	SK13-5/SK13-3/16A	SK16-5/ SK16-3/16A	SK20-5/ SK20-3/16A	SK25-3/16A

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FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 COLLETS	SK10 COLLETS	SK13 COLLETS	SK16 COLLETS	SK20 COLLETS	SK25 COLLETS
	12			0.1890	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	11			0.1910	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	10			0.1935	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	9			0.1960	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
			5	0.1969	SK6-5.0	SK10-5	SK13-5	SK16-5	SK20-5	
	8			0.1990	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
	7			0.2010	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
13/64				0.2031	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
	6			0.2040	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
	5			0.2055	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
			5.25	0.2067	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
	4			0.2090	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
	3			0.2130	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
			5.5	0.2165	SK6-5.5	SK10-5.5	SK13-5.5	SK16-5.5	SK20-5.5	
7/32				0.2188	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
	2			0.2210	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
			5.75	0.2264	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
	1			0.2280	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
		A		0.2340	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
15/64				0.2344	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
			6	0.2362	SK6-6	SK10-6	SK13-6	SK16-6	SK20-6	
		B		0.2380		SK10-6.5	SK13-6.5	SK16-6.5	SK20-6.5	
		C		0.2420		SK10-6.5	SK13-6.5	SK16-6.5	SK20-6.5	
		D		0.2460		SK10-6.5	SK13-6.5	SK16-6.5	SK20-6.5	
			6.25	0.2461		SK10-6.5	SK13-6.5	SK16-6.5	SK20-6.5	
1/4		E		0.2500	SK6-1/4A	SK10-6.5/ SK10-1/4A	SK13-6.5/ SK13-1/4A	SK16-6.5/ SK16-1/4A	SK20-6.5/ SK20-1/4A	SK25-1/4A
			6.5	0.2559		SK10-6.5	SK13-6.5	SK16-6.5	SK20-6.5	
		F		0.2570		SK10-7	SK13-7	SK16-7	SK20-7	
		G		0.2610		SK10-7	SK13-7	SK16-7	SK20-7	
17/64				0.2656		SK10-7	SK13-7	SK16-7	SK20-7	
			6.75	0.2657		SK10-7	SK13-7	SK16-7	SK20-7	
		H		0.2660		SK10-7	SK13-7	SK16-7	SK20-7	
		I		0.2720		SK10-7	SK13-7	SK16-7	SK20-7	
			7	0.2756		SK10-7	SK13-7	SK16-7	SK20-7	
		J		0.2770		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	
		K		0.2810		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	
9/32				0.2812		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	
			7.25	0.2854		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	
		L		0.2900		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	
		M		0.2950		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	SK25-8
			7.5	0.2953		SK10-7.5	SK13-7.5	SK16-7.5	SK20-7.5	SK25-8
19/64				0.2969		SK10-8	SK13-8	SK16-8	SK20-8	SK25-8
		N		0.3020		SK10-8	SK13-8	SK16-8	SK20-8	SK25-8
			7.75	0.3051		SK10-8	SK13-8	SK16-8	SK20-8	SK25-8
5/16				0.3125		SK10-8/ SK10-5/16A	SK13-8/ SK13-5/16A	SK16-8/ SK16-5/16A	SK20-8/ SK20-5/16A	SK25-8/ SK25-5/16A
			8	0.3150		SK10-8	SK13-8	SK16-8	SK20-8	SK25-8
		O		0.3160		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	
		P		0.3230		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	
			8.25	0.3248		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	

## SK DRILL CHART

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 COLLETS	SK10 COLLETS	SK13 COLLETS	SK16 COLLETS	SK20 COLLETS	SK25 COLLETS
21/64				0.3281		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	
		Q		0.3320		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	
			8.5	0.3346		SK10-8.5	SK13-8.5	SK16-8.5	SK20-8.5	
		R		0.3390		SK10-9	SK13-9	SK16-9	SK20-9	
11/32				0.3438		SK10-9	SK13-9	SK16-9	SK20-9	
			8.75	0.3445		SK10-9	SK13-9	SK16-9	SK20-9	
		S		0.3480		SK10-9	SK13-9	SK16-9	SK20-9	
			9	0.3543		SK10-9	SK13-9	SK16-9	SK20-9	
		T		0.3580		SK10-9.5	SK13-9.5	SK16-9.5	SK20-9.5	
23/64				0.3594		SK10-9.5	SK13-9.5	SK16-9.5	SK20-9.5	
			9.25	0.3642		SK10-9.5	SK13-9.5	SK16-9.5	SK20-9.5	
		U		0.3680		SK10-9.5	SK13-9.5	SK16-9.5	SK20-9.5	
			9.5	0.3740		SK10-9.5	SK13-9.5	SK16-9.5	SK20-9.5	SK25-10
3/8				0.3750		SK10-10/ SK10-3/8A	SK13-10/SK13-3/8A	SK16-10/ SK16-3/8A	SK20-10/ SK20-3/8A	SK25-10/SK25-3/8A
		V		0.3770		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10
			9.75	0.3839		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10
		W		0.3860		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10
25/64				0.3906		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10
			10	0.3937		SK10-10	SK13-10	SK16-10	SK20-10	SK25-10
		X		0.3970			SK13-10.5	SK16-10.5	SK20-10.5	
		Y		0.4040			SK13-10.5	SK16-10.5	SK20-10.5	
13/32				0.4063			SK13-10.5	SK16-10.5	SK20-10.5	
		Z		0.4130			SK13-10.5	SK16-10.5	SK20-10.5	
			10.5	0.4134			SK13-10.5	SK16-10.5	SK20-10.5	
27/64				0.4219			SK13-11	SK16-11	SK20-11	
			11	0.4331			SK13-11	SK16-11	SK20-11	
7/16				0.4375			SK13-11.5/SK13-7/16A	SK16-11.5/ SK16-7/16A	SK20-11.5/ SK20-7/16A	SK25-7/16A
			11.5	0.4528			SK13-11.5	SK16-11.5	SK20-11.5	
29/64				0.4531			SK13-12	SK16-12	SK20-12	SK25-12
15/32				0.4688			SK13-12	SK16-12	SK20-12	SK25-12
			12	0.4724			SK13-12	SK16-12	SK20-12	SK25-12
31/64				0.4844			SK13-12.5	SK16-12.5	SK20-12.5	
			12.5	0.4921			SK13-12.5	SK16-12.5	SK20-12.5	
1/2				0.5000			SK13-13/SK13-1/2A	SK16-13/ SK16-1/2A	SK20-13/ SK20-1/2A	SK25-1/2A
			13	0.5118			SK13-13	SK16-13	SK20-13	
33/64				0.5156				SK16-13.5	SK20-13.5	
17/32				0.5312				SK16-13.5	SK20-13.5	
			13.5	0.5315				SK16-13.5	SK20-13.5	
35/64				0.5469				SK16-14	SK20-14	
			14	0.5512				SK16-14	SK20-14	
9/16				0.5625				SK16-14.5/ SK16-9/16A	SK20-14.5/ SK20-9/16A	SK25-9/16A
			14.5	0.5709				SK16-14.5	SK20-14.5	
37/64				0.5781				SK16-15	SK20-15	
			15	0.5906				SK16-15	SK20-15	
19/32				0.5938				SK16-15.5	SK20-15.5	
39/64				0.6094				SK16-15.5	SK20-15.5	
			15.5	0.6102				SK16-15.5	SK20-15.5	
5/8				0.6250				SK16-16/ SK16-5/8A	SK20-16/ SK20-5/8A	SK25-16/ SK25-5/8A
			16	0.6299				SK16-16	SK20-16	SK25-16





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41/64				0.6406					SK20-16.5	SK25-16.5
			16.5	0.6496					SK20-16.5	SK25-16.5
21/32				0.6562					SK20-17	SK25-17
			17	0.6693					SK20-17	SK25-17
43/64				0.6719					SK20-17.5	SK25-17.5
11/16				0.6875					SK20-17.5	SK25-17.5
			17.5	0.6890					SK20-17.5	SK25-17.5
45/64				0.7031					SK20-18	SK25-18
			18	0.7087					SK20-18	SK25-18
23/32				0.7188					SK20-18.5	SK25-18.5
			18.5	0.7283					SK20-18.5	SK25-18.5
47/64				0.7344					SK20-19	SK25-19
			19	0.7480					SK20-19	SK25-19
3/4				0.7500					SK20-19.5/ SK20-3/4A	SK25-19.5/ SK25-3/4A
49/64				0.7656					SK20-19.5	SK25-19.5
			19.5	0.7677					SK20-19.5	SK25-19.5
25/32				0.7813					SK20-20	SK25-20
			20	0.7874					SK20-20	SK25-20
51/64				0.7969						SK25-20.5
			20.5	0.8071						SK25-20.5
13/16				0.8125						SK25-21
			21	0.8268						SK25-21
53/64				0.8281						SK25-21.5
27/32				0.8438						SK25-21.5
			21.5	0.8465						SK25-21.5
55/64				0.8594						SK25-22
			22	0.8661						SK25-22
7/8				0.8750						SK25-22.5/SK25-7/8A
			22.5	0.8858						SK25-22.5
57/64				0.8906						SK25-23
			23	0.9055						SK25-23
29/32				0.9062						SK25-23.5
59/64				0.9219						SK25-23.5
			23.5	0.9252						SK25-23.5
15/16				0.9375						SK25-24
			24	0.9449						SK25-24
61/64				0.9531						SK25-24.5
			24.5	0.9646						SK25-24.5
31/32				0.9688						SK25-25
			25	0.9843						SK25-25
63/64				0.9844						SK25-25.4
1				1						SK25-25.4

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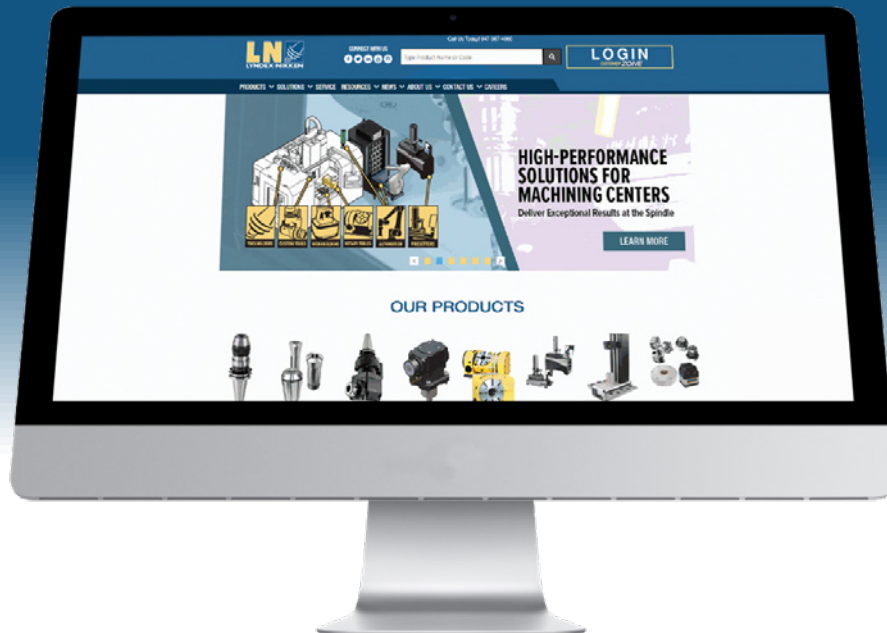
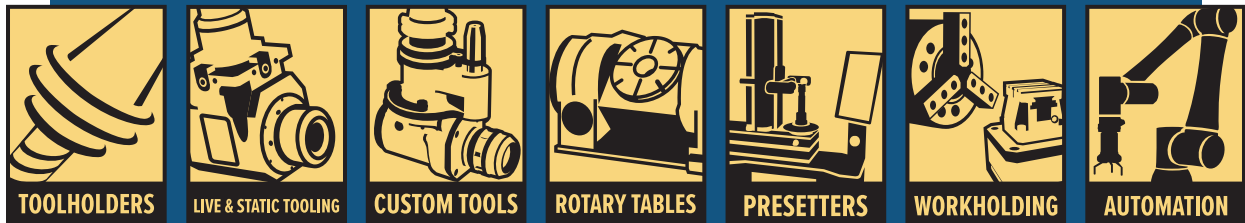
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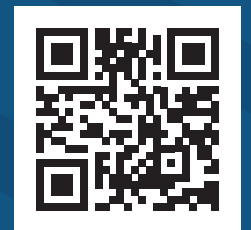


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