

Tooling System Catalog



Machine Tool Solutions for Every Application



Our Mission: Advanced Technology and Leading Innovation

At Lyndex-Nikken, we have made it our mission to provide the two things our customers need most: advanced technology and the innovation to keep it moving forward.

With a history rich in innovation and a focus on the technology of the future, Lyndex-Nikken has become the leader in manufacturing innovation. Our industry-leading design and capabilities give us the power to create ground-breaking tools and machine tool accessories that will perform with amazing precision and reliability.

All of our products are made in Japan, ensuring an extremely high level of quality and long-term resistance. We are continually striving to improve our technology through constant innovation to enhance the respect and reliability that our products have thus far earned within their respective industries.

Not only are we committed to providing the highest quality of equipment, but also the highest quality of service and customer care. Our team of highly experienced technicians and product specialists offers unmatched customer service and engineering support to our customers worldwide.

As an international company with offices conveniently located throughout Europe, Asia, and the United States, Lyndex-Nikken is there to serve you, no matter where you are.



End Mill Holders

ER/TG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders

Stub, Boring, Blank

R8, 5C, 3J, 16C

Retention Studs

Company History, Service, and Support

While Lyndex-Nikken has a long history of success, its roots come from two different companies.

Founded in 1979, Lyndex Corporation set the standard for quality toolholding in the United States as a supplier of 5C and R8 collets. The company was founded with a vision of becoming the industry's premier supplier of quality toolholders. Over the years, Lyndex's product line evolved to include a vast selection of toolholding and accessories.

In 2002, Lyndex merged with Nikken Kosakusho Works, Ltd. Established in Japan a half century ago, Nikken has been a market leader in various industries such as aerospace, automotive and ultra precision machining ever since. Today Nikken counts 600 employees worldwide, annually produces 350,000 toolholders, 3,000 CNC rotary tables, and 250,000 reamers and has become the number one manufacturer of toolholders and machine tool accessories in Japan.

Partnering with Nikken has further enhanced opportunities for Lyndex and Lyndex customers. From the joining of these two great companies emerges an even greater company. Lyndex-Nikken, as a unified manufacturer, boasts a broader product line, a greater number of service personnel, and a higher degree of engineering support and technology.

Customer Service

We pride ourselves on providing a high level of customer service before, during and after the sale. Whether you are a new or existing customer, our staff is fully committed to effectively and efficiently responding to your inquiries.

Engineering and Product Expertise

Our team of dedicated engineers provides expert process and product consultation. Components can be configured on-site when custom solutions demand quick turnaround. Cutting trials and testing can also be conducted on-site to ensure accurate and optimum performance. With over 30 years of machining expertise and product familiarity, our application and engineering staff is highly experienced and able to advise and support our entire product line throughout the United States, Canada, Mexico, and South America.

Repair Service- Technical Support

Our comprehensive technical and repair services are here to protect your investment. In the event that your Lyndex-Nikken product requires attention, we will quickly analyze, diagnose and correct any problem to get your equipment back up and running. For faster service, our expertly trained technical support can complete repairs on-site. We fully stock all internal components to provide expedited and cost-effective maintenance program and rebuilds. To prevent an interruption in your production schedule, for certain models we can offer a "loaner" while your tool is under repair.

Warehouse and Delivery

Our 50,000 square feet facility in Mundelein, Illinois houses an inventory of over 12,000 machine tool accessories. This ensures that no matter what you need, chances are we have it in stock. Over 95% of our customer orders are shipped same day.

End Mill Holders
ERTG/DA Collet Chucks
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Stub, Boring, Blank
R8, 5C, 3J, 16C
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Product Overview

High Precision Toolholders

From automotive engineering to construction, we serve every industry with solutions and provide the tools that allow the manufacture of the highest quality and safest products in your life.

Our advanced products are innovatively designed to tackle the most complex and demanding applications. They guarantee a runout within 3 microns at 4 times the diameter beyond collet nut.

Our extensive line not only features the industry's most trusted ER collet Chucks, End Mill Holders and Tap holders, but also the most technologically advanced collet chucks system such as Milling Chucks, SK Collet Chucks, VC Collet Chucks and Mini-Mini Collet Chucks.



Angleheads and Custom Tools

We offer a wide variety of Angleheads, HiSpinners and Fluidheads in standard and offset styles, with different chucking capabilities.

Our large range of Angleheads is designed to easily and effectively upgrade your machine tool capabilities by eliminating additional set ups. Units are equipped with 4340 ground gear and ground shaft components, high precision spindle bearings (P4 quality) and cast iron bodies for vibration dampening. Each tool also features torque capabilities for aggressive milling and drilling.



Driven and Static Tooling

We are an OEM manufacturer and supplier for all high quality machine tool builders including Mori-Seiki, Nakamura and Okuma. We offer the latest technology you can expect for turning operations. You may choose from standard or custom designs in axial or radial configurations. Various shank tooling and collets are available.



Rotary Tables & Installation Package

We offer a complete line of extremely accurate Nikken Rotary Tables. Featuring patented hardened assemblies, they retain their precision for years. Nikken Rotary Tables are recognized worldwide for their benefits still unmatched by the competition.

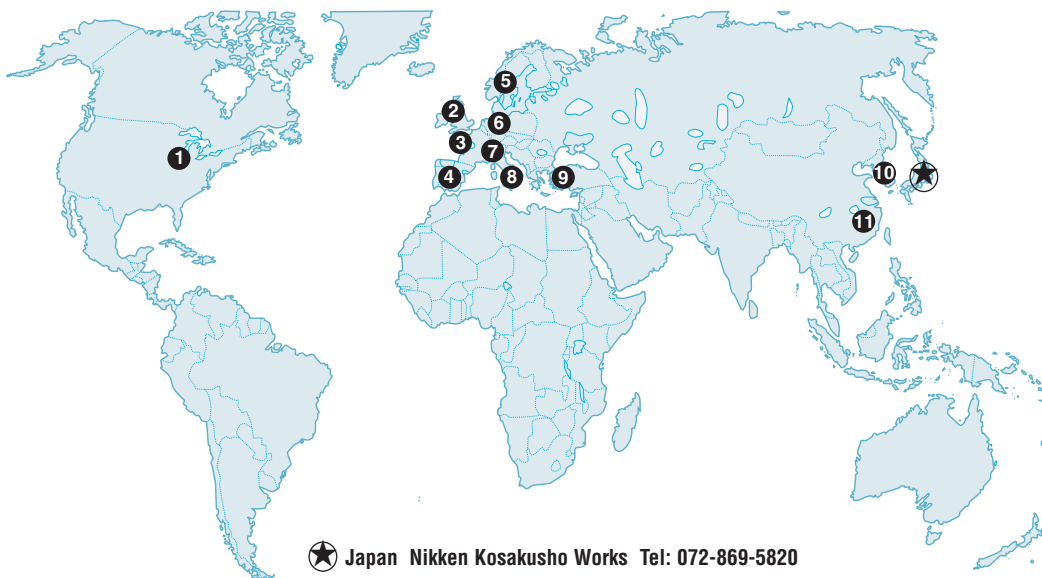
Our regional managers and engineering staff will assist you with product selection, integration and installation of your table. Please call us for more information.

Nikken's Osaka-Daito Factory

Open in 2003, Nikken's state of the art production facility sits on 12 acres and includes 237,000 square feet of manufacturing space and 26,000 square feet of office space.



Nikken Worldwide



★ **Japan Nikken Kosakusho Works Tel: 072-869-5820**

- | | | | | | |
|-------------------|-----------------------|----------------------------|-----------------------|-----------------------|----------------------|
| 1. USA | Lyndex-Nikken | Tel: (847) 367-4800 | 7. Switzerland | Nikken Switzerland AG | Tel: (041) 748-5000 |
| 2. UK | Nikken Kosakusho UK | Tel: (01709) 366306 | 8. Italy | Vega International | Tel: (011) 9456330 |
| 3. France | Procomo France S.A. | Tel: 01.69.19.17.35 | 9. Turkey | Nikken Turkey | Tel: (0216) 464-0620 |
| 4. Spain | Cutting Tool S.L. | Tel: (943) 494144 | 10. Korea | Korea Nikken LTD. | Tel: (032) 763-4461 |
| 5. Sweden | Nikken Scandinavia AB | Tel: (031) 519855 | 11. China | Nikken China | Tel: (021) 6210-2506 |
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End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
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Stub, Boring, Blank
R8, 5C, 3J, 16C
Retention Studs

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°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.



Carbonizing and Sub-Zero Treatment

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
ISO 7388
standard



HSK Taper
Made to
ISO 12164
standard



**NMTB
Taper**
Erickson
Qualified



Tool Grinding Line



Horizontal Machining Centers



NC Lathe Line

Lyndex-Nikken Part Numbers

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

The taper descriptions are self-explanatory with the addition of:

- C = Milling Chucks
- SK = SK Collet Chucks
- MMC = MMC Collet Chucks
- VC = VC Holder
- FMD = Face Mill Adapter
- NPU = Drill Chucks
- G in conjunction with C = High Speed
- F = DIN 69871 FormB (Flange Coolant)
- C in conjunction with SK = High Pressure Coolant
- P in conjunction with SK = High Speed

Nikken Example: CAT40-GSK25C-90

CAT40 - SK25 - 90UP

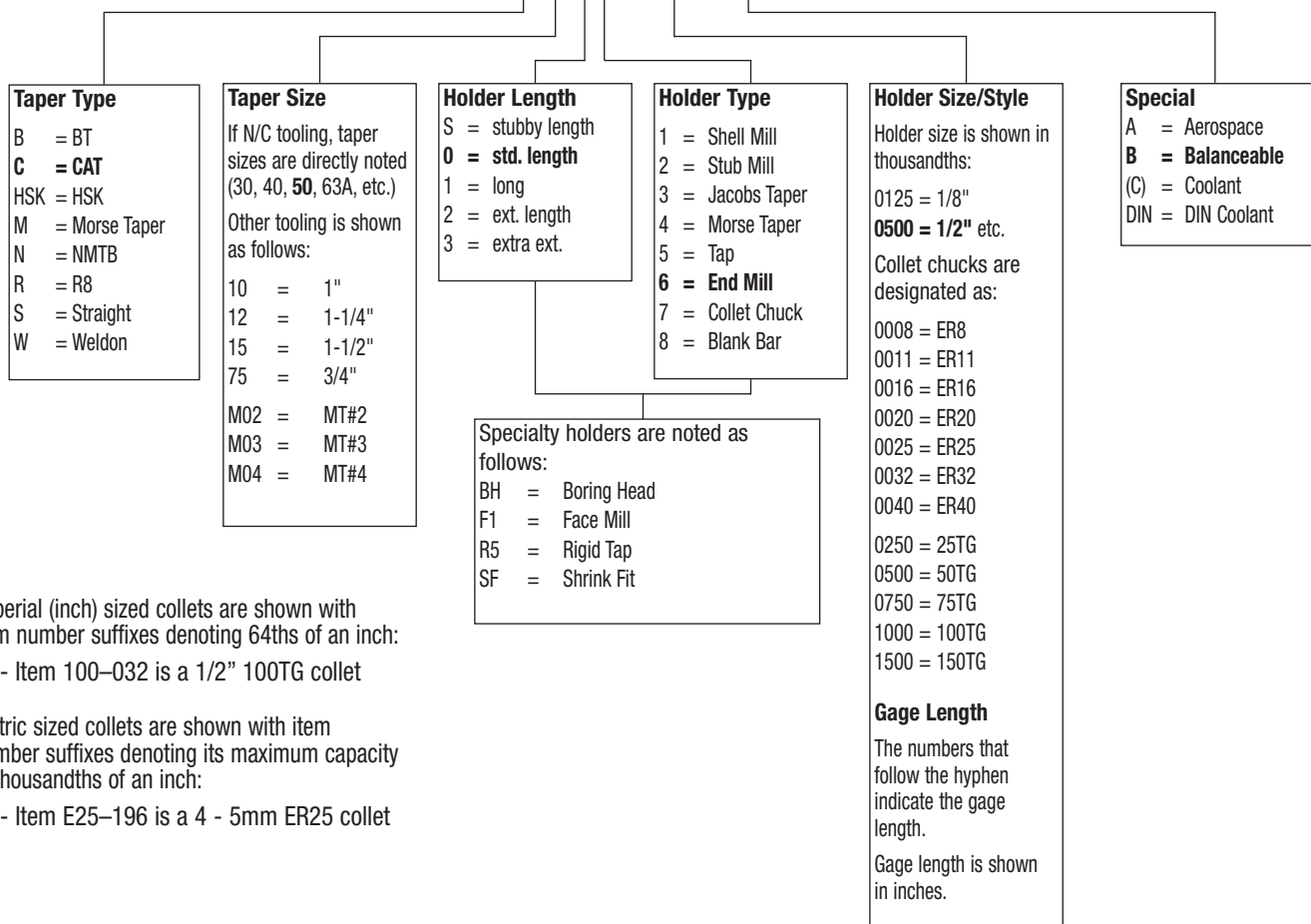
Taper SK Gage Line High Speed

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 C5006-0500B, is a **CT50 taper 1/2" balanceable end mill holder**.

C 50 0 6 - 0500-2.63 B



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

Retention Studs, R8, 5C, 3J, 16C, Stub, Boring, Blank, Tap Holders, Drill Chucks, Shell Mill Holders, ERTG/DA Collet Chucks, End Mill Holders

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Current Promotion

Scan
these
QR Codes



Featured Video

End Mill Holder Features

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 also available.

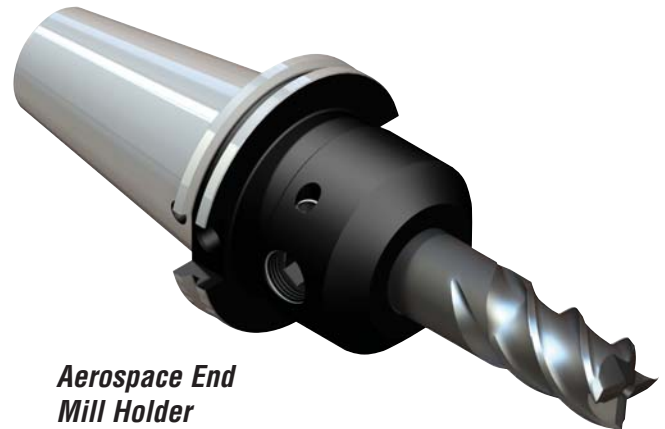
Aerospace End Mill Holders

Lyndex-Nikken Aerospace End Mill Holders are field tested and proven to prevent the end mill from pullout, unlike other competitors' holders

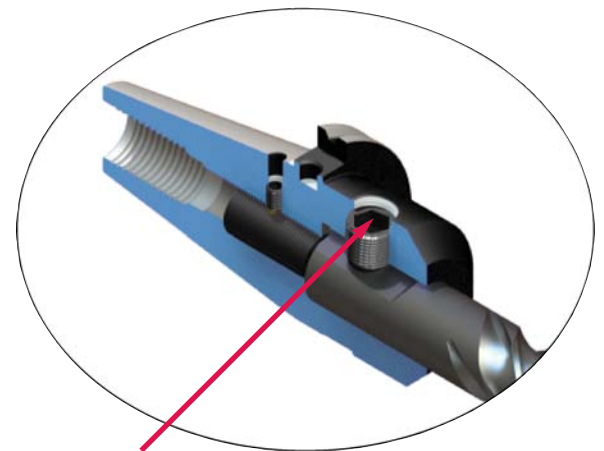
Unique Design and Built-in Features

- End Mill Holder bore does not exceed 0.0002" beyond nominal dimension
- Dual support screws to secure depth adjustment screw and side lock screw
- Tapped fine 2B internal threads for precision adjustment
- AT3 taper grind to match the grind tolerance of your machine spindle
- Balanced for high-speed machining (up to 18,000RPM)
- Made from high quality 4340 Nickel Chrome Molybdenum Heat Treated Japanese Steel
- End Mill Holder must be used with 5 degree whistle notch cutter (NAS 987)

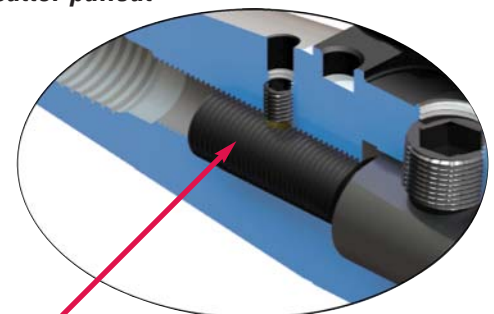
Our Aerospace End Mill Holders will help you produce aerospace parts with greater accuracy and efficiency.



Aerospace End Mill Holder



5 degree angle to prevent cutter pullout



Large diameter depth adjustment screw for greater rigidity

CAT End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- Through-spindle coolant capability
- AT3 or better taper
- Available in high-speed balanceable versions



TIR: < .0002 run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★☆☆☆



Set-up: quick and easy



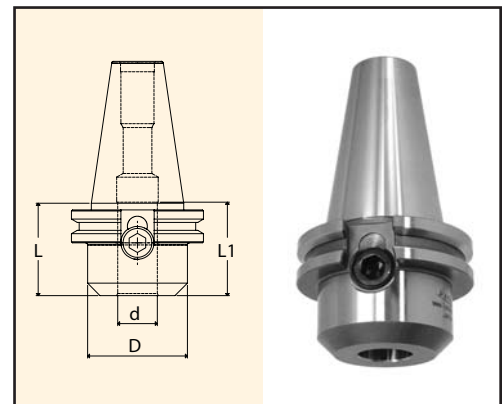
Coolant-thru: jet slots (optional)

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

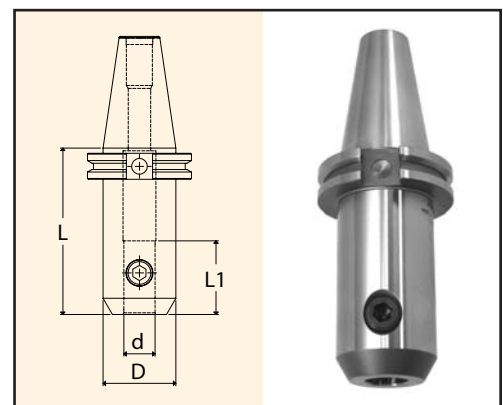
CAT 40 - Inch

Part Number	Style	d	L	L1	L2	D	D1	Set Screw Part Number
C40S6-0125-1.38	Stubby	1/8"	1.38"	0.74"	-	0.75"	-	S6-32X1/4
C4006-0125-2.36	Standard	1/8"	2.36"	0.63"	-	0.75"	-	S6-32X1/4
C4016-0125-4.00	Standard	1/8"	4.00"	0.63"	-	0.75"	-	S6-32X1/4
C40S6-0187-1.38	Stubby	3/16"	1.38"	0.94"	-	0.75"	-	S8-32X1/4
C4006-0187-2.50	Standard	3/16"	2.50"	0.86"	-	0.75"	-	S8-32X1/4
C4016-0187-4.00	Standard	3/16"	4.00"	0.86"	-	0.75"	-	S8-32X1/4
C40S6-0250-1.38	Stubby	1/4"	1.38"	1.18"	-	0.79"	-	S1/4-28X1/4
C4006-0250-2.50	Standard	1/4"	2.50"	1.10"	-	0.79"	-	S1/4-28X1/4
C4016-0250-4.00	Standard	1/4"	4.00"	1.10"	-	0.79"	-	S1/4-28X1/4
C4046-0250-9.00	Ext. Length	1/4"	9.00"	1.5"	6.12"	0.79"	1.75"	S1/4-28X1/4
C40S6-0312-1.38	Stubby	5/16"	1.38"	1.34"	-	0.87"	-	S5/16-24X1/4
C4006-0312-2.50	Standard	5/16"	2.50"	1.26"	-	0.87"	-	S5/16-24X1/4
C4016-0312-4.00	Standard	5/16"	4.00"	1.26"	-	0.87"	-	S5/16-24X1/4
C40S6-0375-1.38	Stubby	3/8"	1.38"	1.34"	-	1.00"	-	S3/8-24X5/16
C4006-0375-2.50	Standard	3/8"	2.50"	1.26"	-	1.00"	-	S3/8-24X5/16
C4016-0375-4.00	Standard	3/8"	4.00"	1.26"	-	1.00"	-	S3/8-24X5/16
C4026-0375-5.00	Standard	3/8"	5.00"	1.26"	-	1.00"	-	S3/8-24X5/16
C4046-0375-9.00	Ext. Length	3/8"	9.00"	1.5"	6.12"	1.00"	1.75"	S3/8-24X5/16
C4006-0437-2.50	Standard	7/16"	2.50"	1.50"	-	1.38"	-	S7/16-20X3/8
C4016-0437-4.00	Standard	7/16"	4.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C40S6-0500-1.75	Stubby	1/2"	1.75"	1.50"	-	1.38"	-	S7/16-20X3/8
C4006-0500-2.50	Standard	1/2"	2.50"	1.50"	-	1.38"	-	S7/16-20X3/8
C4016-0500-4.00	Standard	1/2"	4.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C4026-0500-5.00	Standard	1/2"	5.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C4046-0500-9.00	Ext. Length	1/2"	9.00"	1.5"	6.12"	1.38"	1.75"	S7/16-20X3/8
C40S6-0625-1.75	Stubby	5/8"	1.75"	1.61"	-	1.65"	-	S9/16-18X1/2
C4006-0625-3.00	Standard	5/8"	3.00"	1.61"	-	1.65"	-	S9/16-18X1/2
C4016-0625-4.00	Standard	5/8"	4.00"	1.61"	-	1.65"	-	S9/16-18X1/2
C4026-0625-5.50	Standard	5/8"	5.50"	1.61"	-	1.65"	-	S9/16-18X1/2
C4046-0625-9.00	Ext. Length	5/8"	9.00"	1.5"	6.12"	1.65"	1.75"	S9/16-18X1/2
C40S6-0750-1.75	Stubby	3/4"	1.75"	1.77"	-	1.89"	-	S5/8-18X1/2
C4006-0750-3.00	Standard	3/4"	3.00"	1.77"	-	1.75"	-	S5/8-18X1/2
C4016-0750-4.00	Standard	3/4"	4.00"	1.77"	-	1.75"	-	S5/8-18X1/2
C4026-0750-5.50	Standard	3/4"	5.50"	1.77"	-	1.75"	-	S5/8-18X1/2
C4046-0750-9.00	Ext. Length	3/4"	9.00"	-	-	1.75"	-	S5/8-18X1/2

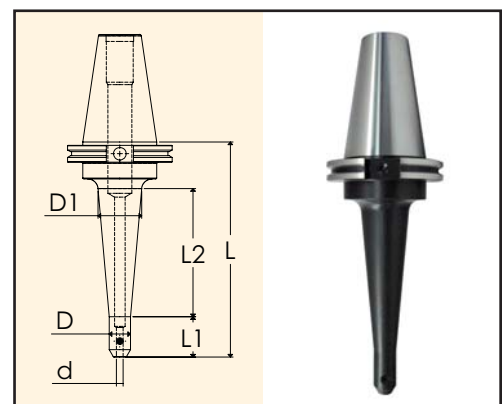
Set Screws are included. Back-up screws not included.
Extended length end mill holders can be modified to DIN standard.



Stubby



Standard



Extended Length

Accessories:



Set Screws
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Set Screws for Aerospace Holders
Page 28



Tool Jaw
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Pull Stud
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CAT End Mill Holders

CAT 40 - Inch (cont.)

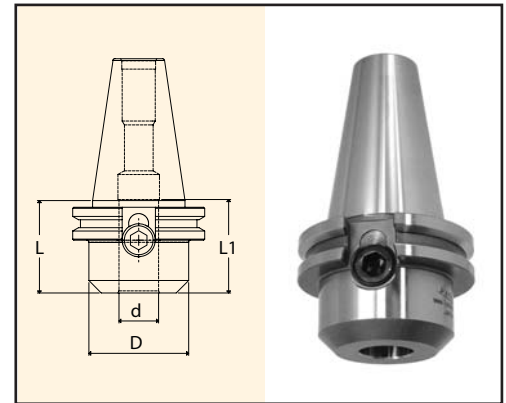
Part Number	Style	d	L	L1	L2	D	D1	Set Screw Part Number
C40S6-0875-1.75	Stubby	7/8"	1.75"	2.08"	-	1.94"	-	S5/8-18X1/2
C4006-0875-3.50	Standard	7/8"	3.50"	2.08"	-	2.00"	-	S5/8-18X1/2 (2)
C4016-0875-6.00	Standard	7/8"	6.00"	2.08"	-	2.00"	-	S5/8-18X1/2 (2)
C4046-0875-9.00	Ext. Length	7/8"	9.00"	-	-	2.00"	-	S5/8-18X1/2 (2)
C40S6-1000-2.00	Stubby	1"	2.00"	2.36"	-	2.25"	-	S3/4-16X11/16
C4006-1000-4.00	Standard	1"	4.00"	2.36"	-	2.36"	-	S3/4-16X11/16 (2)
C4016-1000-6.00	Standard	1"	6.00"	2.36"	-	2.36"	-	S3/4-16X11/16 (2)
C4046-1000-9.00	Ext. Length	1"	9.00"	-	-	2.36"	-	S3/4-16X11/16 (2)
C40S6-1250-2.00	Stubby	1-1/4"	2.00"	2.28"	-	2.25"	-	S3/4-16X7/16
C4006-1250-4.00	Standard	1-1/4"	4.00"	2.55"	-	2.48"	-	S3/4-16X11/16 (2)
C4016-1250-6.00	Standard	1-1/4"	6.00"	2.55"	-	2.48"	-	S3/4-16X11/16 (2)
C4006-1500-4.50	Standard	1-1/2"	4.50"	2.55"	-	2.99"	-	S3/4-16X11/16 (2)
C4016-1500-6.00	Standard	1-1/2"	6.00"	2.83"	-	2.99"	-	S3/4-16X11/16 (2)

Set Screws are included. Back-up screws not included.
Extended length end mill holders can be modified to DIN standard.

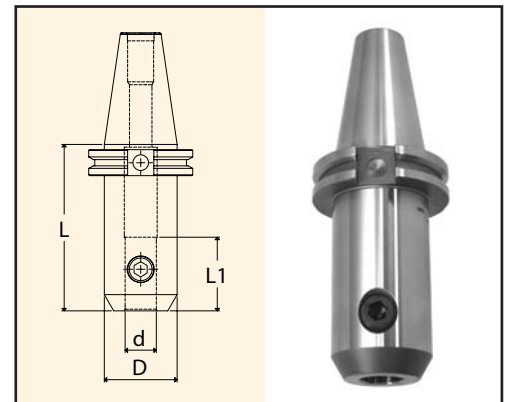
CAT 40 - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
C4006-6-2.50	Standard	6mm	2.50"	1.10"	0.78"	S1/4-28X1/4
C4006-8-2.50	Standard	8mm	2.50"	1.25"	0.87"	S5/16-24X1/4
C4006-10-2.50	Standard	10mm	2.50"	1.25"	1.00"	S3/8-24X5/16
C4006-12-2.50	Standard	12mm	2.50"	1.50"	1.38"	S7/16-20X3/8
C4006-14-3.00	Standard	14mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C4006-16-3.00	Standard	16mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C4006-18-3.00	Standard	18mm	3.00"	1.77"	1.75"	S5/8-18x1/2
C4006-20-3.00	Standard	20mm	3.00"	1.77"	1.75"	S5/8-18x1/2
C4006-25-4.00	Standard	25mm	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C4006-32-4.00	Standard	32mm	4.00"	2.36"	2.48"	S3/4-16X11/16 (2)

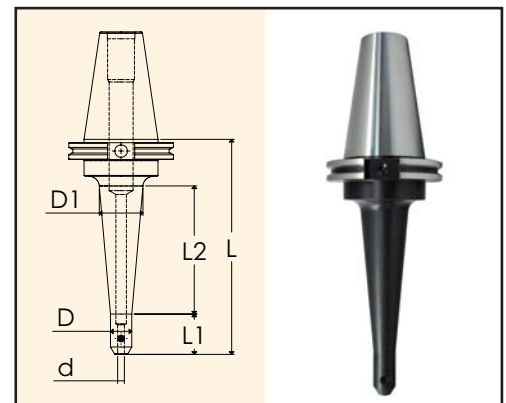
Set Screws are included. Back-up screws not included.



Stubby



Standard



Extended Length

Accessories:



Set Screws
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Set Screws for Aerospace Holders
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Tool Jaw
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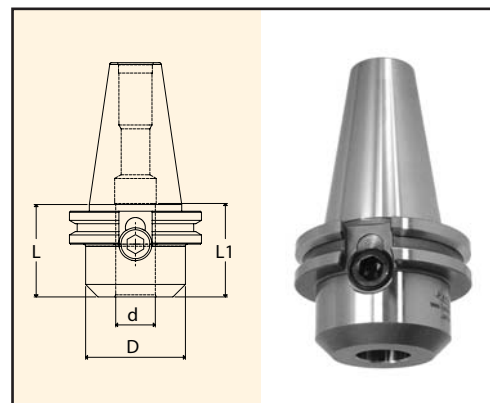


Pull Stud
Pages 139-140

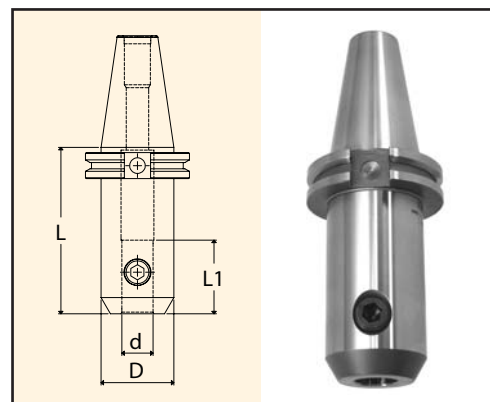
CAT End Mill Holders

CAT 50 -Inch

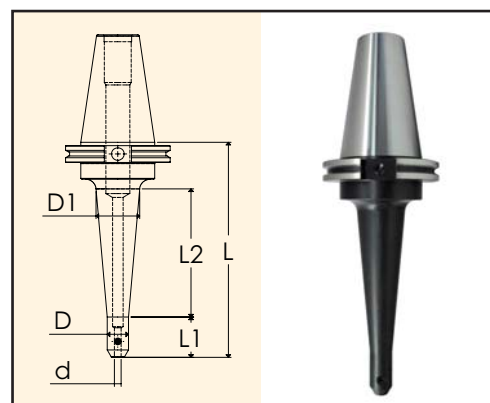
Part Number	Style	d	L	L1	L2	D	D1	Set Screw Part Number
C50S6-0250-1.38	Stubby	1/4"	1.38"	1.10"	-	0.79"	-	S1/4-28X1/4
C5006-0250-2.50	Standard	1/4"	2.50"	1.10"	-	0.79"	-	S1/4-28X1/4
C5016-0250-4.00	Standard	1/4"	4.00"	1.10"	-	0.79"	-	S1/4-28X1/4
C5026-0250-6.00	Standard	1/4"	6.00"	1.10"	-	0.79"	-	S1/4-28X1/4
C5036-0250-8.00	Ext. Length	1/4"	8.00"	1.5"	4.76"	0.79"	1.62"	S1/4-28X1/4
C5006-0312-2.50	Standard	5/16"	2.50"	1.26"	-	0.87"	-	S5/16-24X1/4
C5016-0312-4.00	Standard	5/16"	4.00"	1.26"	-	0.87"	-	S5/16-24X1/4
C5026-0312-6.00	Standard	5/16"	6.00"	1.26"	-	0.87"	-	S5/16-24X1/4
C50S6-0375-1.38	Stubby	3/8"	1.38"	1.26"	-	1.00"	-	S3/8-24X5/16
C5006-0375-2.50	Standard	3/8"	2.50"	1.26"	-	1.00"	-	S3/8-24X5/16
C5016-0375-4.00	Standard	3/8"	4.00"	1.26"	-	1.00"	-	S3/8-24X5/16
C5026-0375-6.00	Standard	3/8"	6.00"	1.26"	-	1.00"	-	S3/8-24X5/16
C5036-0375-8.00	Ext. Length	3/8"	8.00"	1.5"	5.12"	1.00"	2.75"	S3/8-24X5/16
C5066-0375-15.00	Ext. Length	3/8"	15.00"	1.25"	12.12"	1.00"	2.75"	S3/8-24X5/16
C5006-0437-2.50	Standard	7/16"	2.50"	1.50"	-	1.38"	-	S7/16-20X3/8
C5016-0437-4.00	Standard	7/16"	4.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C5026-0437-6.00	Standard	7/16"	6.00"	1.53"	-	1.38"	-	S7/16-20X3/8
C5036-0437-8.00	Ext. Length	7/16"	8.00"	1.5"	5.12"	1.38"	2.75"	S7/16-20X3/8
C50S6-0500-1.75	Stubby	1/2"	1.75"	1.50"	-	1.38"	-	S7/16-20X3/8
C5006-0500-2.63	Standard	1/2"	2.63"	1.50"	-	1.38"	-	S7/16-20X3/8
C5016-0500-4.00	Standard	1/2"	4.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C5026-0500-6.00	Standard	1/2"	6.00"	1.50"	-	1.38"	-	S7/16-20X3/8
C5036-0500-8.00	Ext. Length	1/2"	8.00"	1.5"	5.12"	1.38"	2.75"	S7/16-20X3/8
C5066-0500-15.00	Ext. Length	1/2"	15.00"	1.5"	12.12"	1.38"	2.75"	S7/16-20X3/8
C50S6-0625-1.75	Stubby	5/8"	1.75"	1.61"	-	1.65"	-	S9/16-18X1/2
C5006-0625-3.00	Standard	5/8"	3.00"	1.61"	-	1.65"	-	S9/16-18X1/2
C5016-0625-4.00	Standard	5/8"	4.00"	1.61"	-	1.65"	-	S9/16-18X1/2
C5026-0625-6.00	Standard	5/8"	6.00"	1.61"	-	1.65"	-	S9/16-18X1/2
C5036-0625-8.00	Ext. Length	5/8"	8.00"	1.5"	5.12"	1.65"	2.75"	S9/16-18X1/2
C5066-0625-15.00	Ext. Length	5/8"	15.00"	1.5"	12.12"	1.65"	2.75"	S9/16-18X1/2
C50S6-0750-1.75	Stubby	3/4"	1.75"	1.77"	-	1.89"	-	S5/8-18X1/2
C5006-0750-3.00	Standard	3/4"	3.00"	1.77"	-	1.89"	-	S5/8-18X1/2
C5016-0750-4.00	Standard	3/4"	4.00"	1.77"	-	1.89"	-	S5/8-18X1/2
C5026-0750-6.00	Standard	3/4"	6.00"	1.77"	-	1.89"	-	S5/8-18X1/2
C5036-0750-8.00	Ext. Length	3/4"	8.00"	1.5"	5.12"	1.89"	2.75"	S5/8-18X1/2
C5066-0750-15.00	Ext. Length	3/4"	15.00"	1.76"	11.86"	1.89"	2.75"	S5/8-18X1/2
C50S6-0875-1.75	Stubby	7/8"	1.75"	2.08"	-	2.00"	-	S5/8-18X1/2 (2)
C5006-0875-3.75	Standard	7/8"	3.75"	2.08"	-	2.00"	-	S5/8-18X1/2 (2)
C5016-0875-6.00	Standard	7/8"	6.00"	2.08"	-	2.00"	-	S5/8-18X1/2 (2)
C5066-0875-15.00	Ext. Length	7/8"	15.00"	2.76"	10.87"	2.00"	2.75"	S5/8-18X1/2 (2)
C50S6-1000-2.00	Stubby	1"	2.00"	2.36"	-	2.36"	-	S3/4-16X11/16
C5006-1000-4.00	Standard	1"	4.00"	2.36"	-	2.36"	-	S3/4-16X11/16 (2)
C5016-1000-6.00	Standard	1"	6.00"	2.36"	-	2.36"	-	S3/4-16X11/16 (2)
C5026-1000-8.00	Ext. Length	1"	8.00"	2.76"	3.87"	2.36"	2.75"	S3/4-16X11/16 (2)
C5066-1000-15.00	Ext. Length	1"	15.00"	2.76"	10.87"	2.36"	2.75"	S3/4-16X11/16 (2)



Stubby



Standard



Extended Length

Accessories:



Set Screws
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**Set Screws for
Aerospace Holders**
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CAT End Mill Holders

CAT 50 - Inch (cont.)

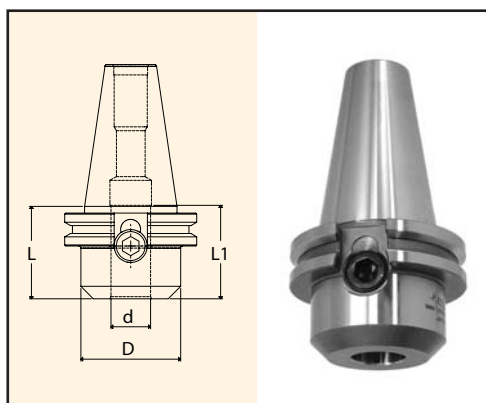
Part Number	Style	d	L	L1	L2	D	D1	Set Screw Part Number
C50S6-1250-2.00	Stubby	1-1/4"	2.00"	2.55"	-	2.75"	-	S3/4-16X11/16
C5006-1250-4.00	Standard	1-1/4"	4.00"	2.55"	-	2.48"	-	S3/4-16X11/16 (2)
C5016-1250-6.00	Standard	1-1/4"	6.00"	2.55"	-	2.48"	-	S3/4-16X11/16 (2)
C5026-1250-8.00	Ext. Length	1-1/4"	8.00"	2.76"	3.87"	2.48"	2.75"	S3/4-16X11/16 (2)
C5066-1250-15.00	Ext. Length	1-1/4"	15.00"	2.76"	10.87"	2.48"	2.75"	S3/4-16X11/16 (2)
C50S6-1500-2.25	Stubby	1-1/2"	2.25"	2.83"	-	2.75"	-	S3/4-16X11/16
C5006-1500-4.50	Standard	1-1/2"	4.50"	2.83"	-	2.99"	-	S3/4-16X11/16 (2)
C5016-1500-7.00	Standard	1-1/2"	7.00"	2.83"	-	2.99"	-	S3/4-16X11/16 (2)
C5026-1500-9.00	Standard	1-1/2"	9.00"	2.83"	-	2.99"	-	S3/4-16X11/16 (2)
C50S6-2000-3.63	Stubby	2"	3.63"	3.34"	-	3.74"	-	S1"-14X7/8 (1) S1"-17X7/16 (1)
C5026-2000-10.00	Standard	2"	10.00"	3.34"	-	3.74"	-	S1"-14X7/8 (2)
C5006-2000-5.37	Standard	2"	5.37"	3.34"	-	3.74"	-	S1"-14X7/8 (2)
C5016-2000-8.00	Standard	2"	8.00"	3.34"	-	3.74"	-	S1"-14X7/8 (2)
C5006-2500-6.00	Standard	2-1/2"	6.00"	3.66"	-	4.25"	-	S1"-14X7/8 (2)

Set Screws are included. Back-up screws not included.
Extended length End Mill Holders can be modified to DIN standard.

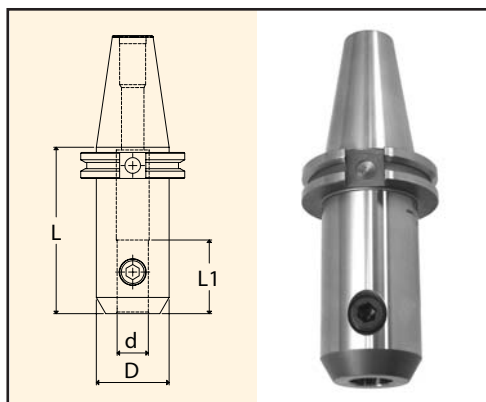
CAT 50 - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
C5006-6-2.50	Standard	6mm	2.50"	1.10"	0.79"	S1/4-28X1/4
C5006-8-2.50	Standard	8mm	2.50"	1.10"	0.87"	S5/16-24X1/4
C5006-10-2.50	Standard	10mm	2.50"	1.26"	1.00"	S3/8-24X5/16
C5006-12-2.63	Standard	12mm	2.63"	1.50"	1.38"	S7/16-20X3/8
C5006-14-3.00	Standard	14mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C5006-16-3.00	Standard	16mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C5006-18-3.00	Standard	18mm	3.00"	1.77"	1.89"	S5/8-18X1/2
C5006-20-3.00	Standard	20mm	3.00"	1.77"	1.89"	S5/8-18X1/2
C5006-25-4.00	Standard	25mm	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C5006-32-4.00	Standard	32mm	4.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C5006-40-4.50	Standard	40mm	4.50"	2.95"	3.07"	S3/4-16X11/16 (2)
C5006-42-4.50	Standard	42mm	4.50"	2.83"	3.07"	S3/4-16X11/16 (2)
C5006-50-5.37	Standard	50mm	5.37"	3.35"	3.74"	S1"-14X7/8 (2)

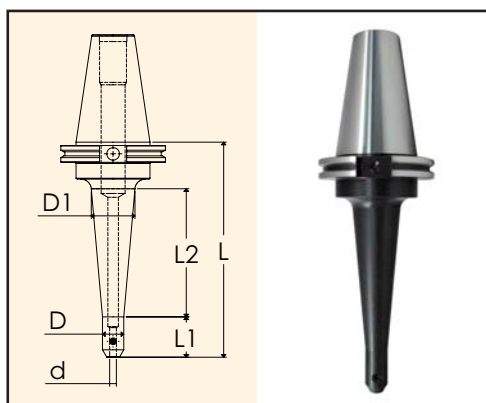
Set Screws are included. Back-up screws not included.



Stubby



Standard



Extended Length

Accessories:



Set Screws
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Set Screws for Aerospace Holders
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Tool Jaw
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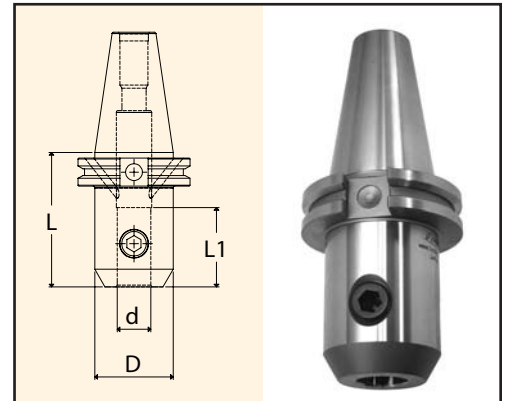


Pull Stud
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CAT End Mill Holders - DIN

CAT40 - DIN - Inch

Part Number	Style	d	L	L1	D	Set Screw Part Number
C4006-0125-2.36DIN	Standard	1/8"	2.36"	0.63"	0.75"	S6-32X1/4
C4016-0125-4.00DIN	Standard	1/8"	4.00"	0.63"	0.75"	S6-32X1/4
C4006-0187-2.50DIN	Standard	3/16"	2.50"	0.86"	0.75"	S8-32X1/4
C4016-0187-4.00DIN	Standard	3/16"	4.00"	0.86"	0.75"	S8-32X1/4
C4006-0250-2.50DIN	Standard	1/4"	2.50"	1.10"	0.79"	S1/4-28X1/4
C4016-0250-4.00DIN	Standard	1/4"	4.00"	1.10"	0.79"	SS1/4-28X1/4
C4006-0312-2.50DIN	Standard	5/16"	2.50"	1.26"	0.87"	S5/16-24X1/4
C4016-0312-4.00DIN	Standard	5/16"	4.00"	1.26"	0.87"	S5/16-24X1/4
C4006-0375-2.50DIN	Standard	3/8"	2.50"	1.26"	1.00"	S3/8-24X5/16
C4016-0375-4.00DIN	Standard	3/8"	4.00"	1.26"	1.00"	S3/8-24X5/16
C4006-0437-2.50DIN	Standard	7/16"	2.50"	1.50"	1.38"	S7/16-20X3/8
C4016-0437-4.00DIN	Standard	7/16"	4.00"	1.50"	1.38"	S7/16-20X3/8
C4006-0500-2.50DIN	Standard	1/2"	2.50"	1.50"	1.38"	S7/16-20X3/8
C4016-0500-4.00DIN	Standard	1/2"	4.00"	1.50"	1.38"	S7/16-20X3/8
C4006-0625-3.00DIN	Standard	5/8"	3.00"	1.61"	1.65"	S9/16-18X1/2
C4016-0625-4.50DIN	Standard	5/8"	4.50"	1.61"	1.65"	S9/16-18X1/2
C4006-0750-3.00DIN	Standard	3/4"	3.00"	1.77"	1.75"	S5/8-18X1/2
C4016-0750-4.50DIN	Standard	3/4"	4.50"	1.77"	1.75"	S5/8-18X1/2
C4006-0875-3.50DIN	Standard	7/8"	3.50"	2.08"	2.00"	S5/8-18X1/2 (2)
C4016-0875-5.00DIN	Standard	7/8"	5.00"	2.08"	2.00"	S5/8-18X1/2 (2)
C4006-1000-4.00DIN	Standard	1"	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C4016-1000-5.50DIN	Standard	1"	5.50"	2.36"	2.36"	S3/4-16X11/16 (2)
C4006-1250-4.00DIN	Standard	1-1/4"	4.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C4016-1250-5.50DIN	Standard	1-1/4"	5.50"	2.55"	2.48"	S3/4-16X11/16 (2)
C4006-1500-4.50DIN	Standard	1-1/2"	4.50"	2.60"	2.99"	S3/4-16X11/16 (2)
C4016-1500-6.00DIN	Standard	1-1/2"	6.00"	2.60"	2.99"	S3/4-16X11/16 (2)

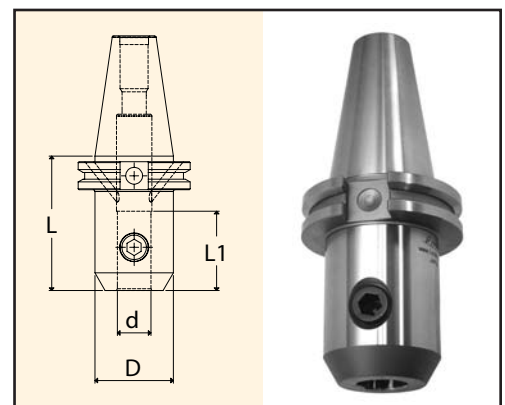


Set Screws are included. Back-up screws not included.

"DIN" designates suitability for coolant through the flange per DIN 69871 Form B specs.

CT40 - DIN - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
C4006-6-2.50DIN	Standard	6mm	2.50"	1.10"	0.78"	S1/4-28X1/4
C4006-8-2.50DIN	Standard	8mm	2.50"	1.25"	0.87"	S5/16-24X1/4
C4006-10-2.50DIN	Standard	10mm	2.50"	1.25"	1.00"	S3/8-24X5/16
C4006-12-2.50DIN	Standard	12mm	2.50"	1.50"	1.38"	S7/16-20X3/8
C4006-14-3.00DIN	Standard	14mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C4006-16-3.00DIN	Standard	16mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C4006-18-3.00DIN	Standard	18mm	3.00"	1.77"	1.75"	S5/8-18x1/2
C4006-20-3.00DIN	Standard	20mm	3.00"	1.77"	1.75"	S5/8-18x1/2
C4006-25-4.00DIN	Standard	25mm	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C4006-32-4.00DIN	Standard	32mm	4.00"	2.36"	2.48"	S3/4-16X11/16 (2)



Set Screws are included. Back-up screws not included.

"DIN" designates suitability for coolant through the flange per DIN 69871 Form B specs.

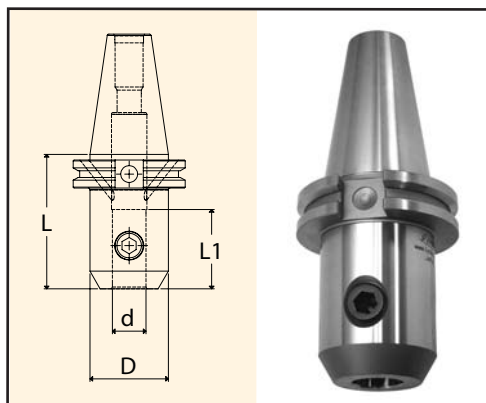
Accessories:



CAT End Mill Holders - DIN

CAT50 - DIN - Inch

Part Number	Style	d	L	L1	D	Set Screw Part Number
C5006-0250-2.50DIN	Standard	1/4"	2.50"	1.10"	0.79"	S1/4-28X1/4
C5016-0250-4.00DIN	Standard	1/4"	4.00"	1.10"	0.79"	S1/4-28X1/4
C5026-0250-6.00DIN	Standard	1/4"	6.00"	1.10"	0.79"	S1/4-28X1/4
C5006-0312-2.50DIN	Standard	5/16"	2.50"	1.26"	0.87"	S5/16-24X1/4
C5016-0312-4.00DIN	Standard	5/16"	4.00"	1.30"	0.87"	S5/16-24X1/4
C5026-0312-6.00DIN	Standard	5/16"	6.00"	1.30"	0.87"	S5/16-24X1/4
C5006-0375-2.50DIN	Standard	3/8"	2.50"	1.26"	1.00"	S3/8-24X5/16
C5016-0375-4.00DIN	Standard	3/8"	4.00"	1.26"	1.00"	S3/8-24X5/16
C5026-0375-6.00DIN	Standard	3/8"	6.00"	1.26"	1.00"	S3/8-24X5/16
C5006-0437-2.50DIN	Standard	7/16"	2.50"	1.50"	1.38"	S7/16-20X3/8
C5016-0437-4.00DIN	Standard	7/16"	4.00"	1.50"	1.38"	S7/16-20X3/8
C5026-0437-6.00DIN	Standard	7/16"	6.00"	1.53"	1.38"	S7/16-20X3/8
C5006-0500-2.63DIN	Standard	1/2"	2.63"	1.50"	1.38"	S7/16-20X3/8
C5016-0500-4.00DIN	Standard	1/2"	4.00"	1.50"	1.38"	S7/16-20X3/8
C5026-0500-6.00DIN	Standard	1/2"	6.00"	1.50"	1.38"	S7/16-20X3/8
C5006-0625-3.00DIN	Standard	5/8"	3.00"	1.61"	1.65"	S9/16-18X1/2
C5016-0625-4.00DIN	Standard	5/8"	4.00"	1.61"	1.65"	S9/16-18X1/2
C5026-0625-6.00DIN	Standard	5/8"	6.00"	1.61"	1.65"	S9/16-18X1/2
C5006-0750-3.00DIN	Standard	3/4"	3.00"	1.77"	1.89"	S5/8-18X1/2
C5016-0750-4.00DIN	Standard	3/4"	4.00"	1.77"	1.89"	S5/8-18X1/2
C5026-0750-6.00DIN	Standard	3/4"	6.00"	1.77"	1.89"	S5/8-18X1/2
C5006-0875-3.75DIN	Standard	7/8"	3.75"	2.08"	2.00"	S5/8-18X1/2 (2)
C5016-0875-6.00DIN	Standard	7/8"	6.00"	2.08"	2.00"	S5/8-18X1/2 (2)
C5026-0875-8.00DIN	Standard	7/8"	8.00"	2.08"	2.00"	S5/8-18X1/2 (2)
C5006-1000-4.00DIN	Standard	1"	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C5016-1000-6.00DIN	Standard	1"	6.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C5026-1000-8.00DIN	Standard	1"	8.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C5006-1250-4.00DIN	Standard	1-1/4"	4.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C5016-1250-6.00DIN	Standard	1-1/4"	6.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C5026-1250-8.00DIN	Standard	1-1/4"	8.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C5006-1500-4.50DIN	Standard	1-1/2"	4.50"	2.75"	2.99"	S3/4-16X11/16 (2)
C5016-1500-7.00DIN	Standard	1-1/2"	7.00"	2.75"	2.99"	S3/4-16X11/16 (2)
C5026-1500-9.00DIN	Standard	1-1/2"	9.00"	2.75"	2.99"	S3/4-16X11/16 (2)
C5006-2000-5.37DIN	Standard	2"	5.37"	3.34"	3.74"	S1"-14X7/8 (2)
C5006-2500-6.00DIN	Standard	2-1/2"	6.00"	3.66"	4.25"	S1"-14X7/8 (2)



Set Screws are included. Back-up screws not included.
 "DIN" designates suitability for coolant through the flange per DIN 69871 Form B specs.
 DIN extended length end mill holders are available. Please call us for more information.

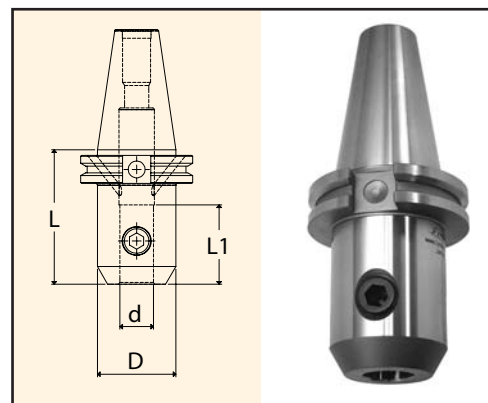
Accessories:



CAT End Mill Holders

CAT50 - DIN - Metric

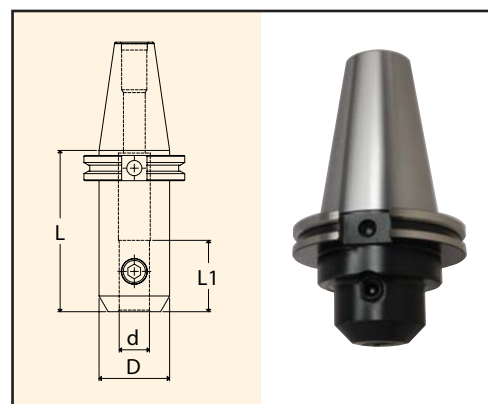
Part Number	Style	d	L	L1	D	Set Screw Part Number
C5006-6-2.50DIN	Standard	6mm	2.50"	1.10"	0.79"	S1/4-28X1/4
C5006-8-2.50DIN	Standard	8mm	2.50"	1.10"	0.87"	S5/16-24X1/4
C5006-10-2.50DIN	Standard	10mm	2.50"	1.26"	1.00"	S3/8-24X5/16
C5006-12-2.63DIN	Standard	12mm	2.63"	1.50"	1.38"	S7/16-20X3/8
C5006-14-3.00DIN	Standard	14mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C5006-16-3.00DIN	Standard	16mm	3.00"	1.61"	1.65"	S9/16-18X1/2
C5006-18-3.00DIN	Standard	18mm	3.00"	1.77"	1.89"	S5/8-18X1/2
C5006-20-3.00DIN	Standard	20mm	3.00"	1.77"	1.89"	S5/8-18X1/2
C5006-25-4.00DIN	Standard	25mm	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
C5006-32-4.00DIN	Standard	32mm	4.00"	2.55"	2.48"	S3/4-16X11/16 (2)
C5006-40-4.50DIN	Standard	40mm	4.50"	2.76"	3.07"	S3/4-16X11/16 (2)
C5006-42-4.50DIN	Standard	42mm	4.50"	2.76"	3.07"	S3/4-16X11/16 (2)
C5006-50-5.37DIN	Standard	50mm	5.37"	3.35"	3.74"	S1-14X7/8 (2)



Set Screws are included. Back-up screws not included.
"DIN" designates suitability for coolant through the flange per DIN 69871 Form B specs.

CAT50 Aerospace

Part Number	Style	d	L	L1	D	Set Screw Part Number
C5006-0375-2.82A	Standard	3/8"	2.82"	1.52"	1.37"	S3/8-24UNF
C5016-0375-4.69A	Standard	3/8"	4.69"	1.52"	1.37"	S3/8-24UNF
C5026-0375-6.69A	Standard	3/8"	6.69"	1.52"	1.37"	S3/8-24UNF
C5006-0500-2.73A	Standard	1/2"	2.73"	1.68"	1.63"	S3/8-24UNF
C5016-0500-4.60A	Standard	1/2"	4.60"	1.68"	1.63"	S3/8-24UNF
C5026-0500-6.60A	Standard	1/2"	6.60"	1.68"	1.63"	S3/8-24UNF
C5006-0625-2.66A	Standard	5/8"	2.66"	1.74"	1.81"	S1/2-20UNF
C5016-0625-4.53A	Standard	5/8"	4.53"	1.74"	1.81"	S1/2-20UNF
C5026-0625-6.53A	Standard	5/8"	6.53"	1.74"	1.81"	S1/2-20UNF
C5006-0750-2.63A	Standard	3/4"	2.63"	2.01"	2.00"	S1/2-20UNF
C5016-0750-4.50A	Standard	3/4"	4.50"	2.01"	2.00"	S1/2-20UNF
C5026-0750-6.50A	Standard	3/4"	6.50"	2.01"	2.00"	S1/2-20UNF
C5006-0875-2.63A	Standard	7/8"	2.63"	2.01"	2.25"	S1/2-20UNF
C5016-0875-4.50A	Standard	7/8"	4.50"	2.01"	2.25"	S1/2-20UNF
C5026-0875-6.50A	Standard	7/8"	6.50"	2.01"	2.25"	S1/2-20UNF
C5006-1000-3.00A	Standard	1"	3.00"	2.27"	2.63"	S3/4-16x7/16
C5016-1000-4.50A	Standard	1"	4.50"	2.27"	2.63"	S3/4-16x7/16
C5026-1000-6.50A	Standard	1"	6.50"	2.27"	2.63"	S3/4-16x7/16
C5006-1250-3.00A	Standard	1-1/4"	3.00"	2.27"	2.87"	S3/4-16x7/16
C5016-1250-4.50A	Standard	1-1/4"	4.50"	2.27"	2.87"	S3/4-16x7/16
C5026-1250-6.50A	Standard	1-1/4"	6.50"	2.27"	2.87"	S3/4-16x7/16
C5006-1500-3.00A	Standard	1-1/2"	3.00"	2.27"	3.25"	S3/4-16x7/16
C5006-2000-5.35A	Standard	2"	5.35"	3.38"	4.00"	S3/4-16x7/16(2)
C5016-2000-7.35A	Standard	2"	7.35"	3.38"	4.00"	S3/4-16x7/16(2)
C5006-2500-5.35A	Standard	2-1/2"	5.35"	3.38"	5.00"	S3/4-16x7/16(2)
C5016-2500-7.35A	Standard	2-1/2"	7.35"	3.38"	5.00"	S3/4-16x7/16(2)



CAT50 Aerospace End Mill holders take back-up screws 3/4-16UNFx2-1/4.
Aerospace End Mill Holders accept end mills with a 5° angled flat shank (per NAS 987).
Side double locking screw only available in 1" and above.

Set Screws are included. Back-up screws not included.

Accessories:



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Set Screws for Aerospace Holders
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Pull Stud
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BT End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- Through-spindle coolant capability
- AT3 or better taper
- Available in high-speed balanceable versions



TIR: < .0002 run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★★★☆



Set-up: quick and easy

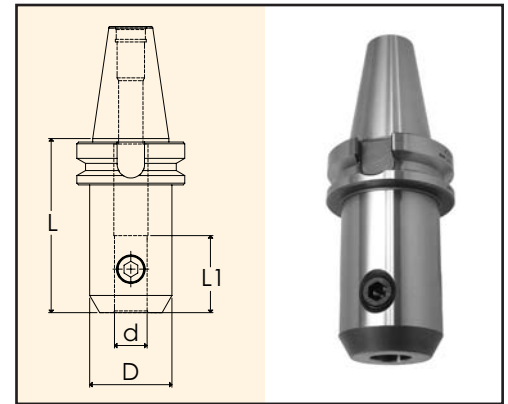


Coolant-thru: jet slots (optional)

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

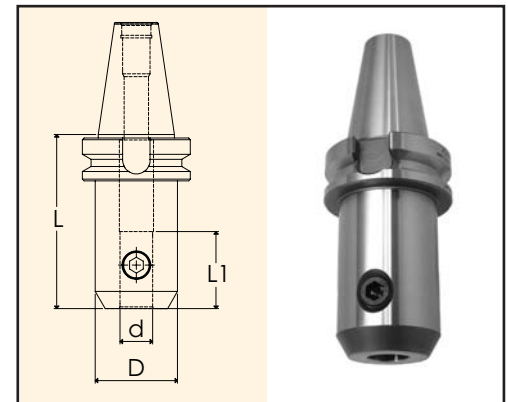
Part Number	Style	d	L	L1	D	Set Screw Part Number
B3006-0125-2.36	Standard	1/8"	2.36"	0.63"	0.75"	S6-32X1/4
B3006-0187-2.36	Standard	3/16"	2.36"	0.87"	0.75"	S8-32X1/4
B3006-0250-2.36	Standard	1/4"	2.36"	1.10"	0.79"	S1/4-28X1/4
B3006-0312-2.36	Standard	5/16"	2.36"	1.26"	0.87"	S5/16-24X1/4
B3006-0375-2.36	Standard	3/8"	2.36"	1.26"	1.00"	S3/8-24X5/16
B3006-0437-2.36	Standard	7/16"	2.36"	1.50"	1.38"	S7/16-20X3/8
B3006-0500-2.36	Standard	1/2"	2.36"	1.50"	1.38"	S7/16-20X3/8
B3006-0625-2.50	Standard	5/8"	2.50"	1.61"	1.65"	S9/16-18X1/2
B3006-0750-3.00	Standard	3/4"	3.00"	1.77"	1.88"	S5/8-18X1/2
B3006-0875-3.54	Standard	7/8"	3.54"	2.09"	2.00"	S5/8-18X1/2 (2)
B3006-1000-3.54	Standard	1"	3.54"	2.36"	2.36"	S3/4-16X11/16 (2)



Set Screws are included. Back-up screws not included.

BT30 - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
B3006-6-2.50	Standard	6mm	2.50"	1.10"	0.79"	S1/4-28X1/4
B3006-8-2.50	Standard	8mm	2.50"	1.26"	0.87"	S5/16-24X1/4
B3006-10-2.50	Standard	10mm	2.50"	1.26"	1.00"	S3/8-24X5/16
B3006-12-2.50	Standard	12mm	2.50"	1.50"	1.38"	S7/16-20X3/8
B3006-14-2.50	Standard	14mm	2.50"	1.61"	1.65"	S9/16-18X1/2
B3006-16-2.50	Standard	16mm	2.50"	1.61"	1.65"	S9/16-18X1/2
B3006-18-3.50	Standard	18mm	3.50"	1.65"	1.89"	S5/8-18X1/2
B3006-20-3.50	Standard	20mm	3.50"	1.65"	1.89"	S5/8-18X1/2
B3006-25-3.50	Standard	25mm	3.50"	2.36"	2.36"	S3/4-16X11/16(2)



Set Screws are included. Back-up screws not included.

Accessories:



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Set Screws for Aerospace Holders
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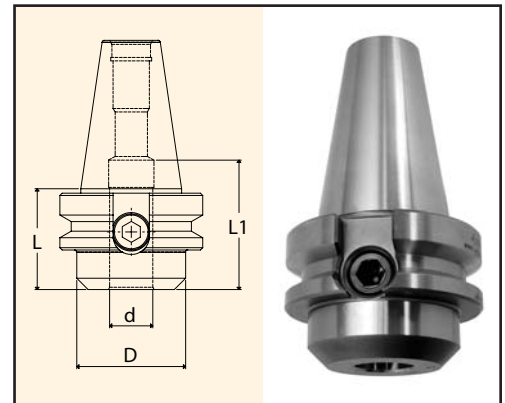
Pull Stud
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BT End Mill Holders

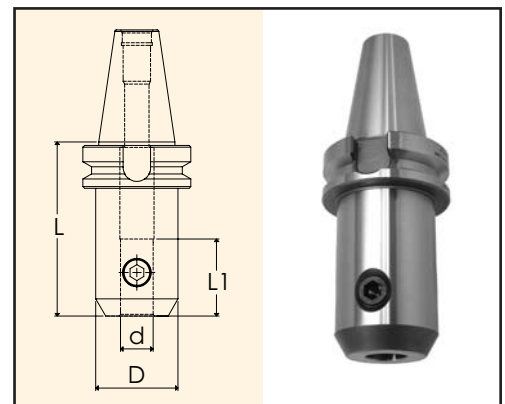
BT40 - Inch

Part Number	Style	d	L	L1	D	Set Screw Part Number
B40S6-0125-1.38	Stubby	1/8"	1.38"	0.78"	0.75"	S6-32X1/4
B4006-0125-2.36	Standard	1/8"	2.36"	0.63"	0.75"	S6-32X1/4
B4016-0125-4.00	Standard	1/8"	4.00"	0.63"	0.75"	S6-32X1/4
B40S6-0187-1.38	Stubby	3/16"	1.38"	0.98"	0.75"	S8-32X1/4
B4006-0187-2.50	Standard	3/16"	2.50"	0.86"	0.75"	S8-32X1/4
B4016-0187-4.00	Standard	3/16"	4.00"	0.86"	0.75"	S8-32X1/4
B40S6-0250-1.38	Stubby	1/4"	1.38"	1.18"	0.79"	S1/4-28X1/4
B4006-0250-2.50	Standard	1/4"	2.50"	1.10"	0.79"	S1/4-28X1/4
B4016-0250-4.00	Standard	1/4"	4.00"	1.10"	0.79"	S1/4-28X1/4
B40S6-0312-1.38	Stubby	5/16"	1.38"	1.38"	0.87"	S5/16-24X1/4
B4006-0312-2.50	Standard	5/16"	2.50"	1.26"	0.87"	S5/16-24X1/4
B4016-0312-4.00	Standard	5/16"	4.00"	1.26"	0.87"	S5/16-24X1/4
B40S6-0375-1.38	Stubby	3/8"	1.38"	1.38"	1.00"	S3/8-24x5/16
B4006-0375-2.50	Standard	3/8"	2.50"	1.26"	1.00"	S3/8-24x5/16
B4016-0375-4.00	Standard	3/8"	4.00"	1.26"	1.00"	S3/8-24x5/16
B4006-0437-2.50	Standard	7/16"	2.50"	1.53"	1.38"	S7/16-20X3/8
B40S6-0500-1.75	Stubby	1/2"	1.75"	1.57"	1.38"	S7/16-20X3/8
B4006-0500-2.50	Standard	1/2"	2.50"	1.50"	1.38"	S7/16-20X3/8
B4016-0500-4.00	Standard	1/2"	4.00"	1.57"	1.38"	S7/16-20X3/8
B40S6-0625-1.75	Stubby	5/8"	1.75"	1.61"	1.65"	S9/16-18X1/2
B4006-0625-2.50	Standard	5/8"	2.50"	1.61"	1.65"	S9/16-18X1/2
B4016-0625-4.00	Standard	5/8"	4.00"	1.61"	1.65"	S9/16-18X1/2
B40S6-0750-1.75	Stubby	3/4"	1.75"	1.77"	1.89"	S5/8-18X1/2
B4006-0750-2.50	Standard	3/4"	2.50"	1.77"	1.89"	S5/8-18X1/2
B4016-0750-4.00	Standard	3/4"	4.00"	1.77"	1.89"	S5/8-18X1/2
B4006-0875-3.38	Standard	7/8"	3.38"	2.08"	2.00"	S5/8-18X1/2(2)
B4016-0875-6.00	Standard	7/8"	6.00"	2.08"	2.00"	S5/8-18X1/2(2)
B40S6-1000-2.00	Stubby	1"	2.00"	2.28"	2.25"	S3/4-16X11/16
B4006-1000-3.56	Standard	1"	3.56"	2.36"	2.36"	S3/4-16X11/16(2)
B4016-1000-6.00	Standard	1"	6.00"	2.36"	2.36"	S3/4-16X11/16(2)
B40S6-1250-2.00	Stubby	1-1/4"	2.00"	2.16"	2.25"	S3/4-16X11/16
B4006-1250-3.56	Standard	1-1/4"	3.56"	2.56"	2.48"	S3/4-16X11/16(2)
B4016-1250-6.00	Standard	1-1/4"	6.00"	2.56"	2.48"	S3/4-16X11/16(2)
B4006-1500-4.50	Standard	1-1/2"	4.50"	2.83"	2.99"	S3/4-16X11/16(2)
B4016-1500-6.00	Standard	1-1/2"	6.00"	2.83"	2.99"	S3/4-16X11/16(2)

Set Screws are included. Back-up screws not included.



Stubby



Standard

Accessories:

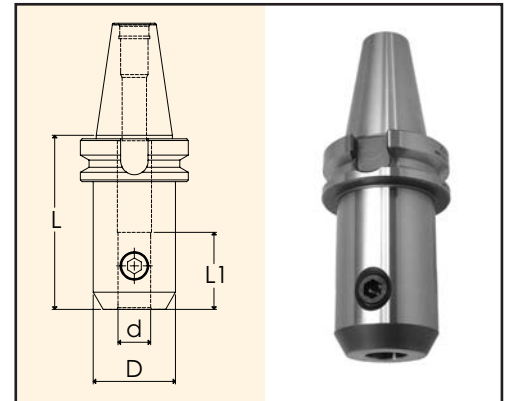


BT End Mill Holders

BT40 - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
B4006-6-2.50	Standard	6mm	2.50"	1.10"	0.79"	S1/4-28X1/4
B4016-6-4.00	Standard	6mm	4.00"	1.10"	0.79"	S1/4-28X1/4
B4006-8-2.50	Standard	8mm	2.50"	1.26"	0.87"	S5/16-24X1/4
B4016-8-4.00	Standard	8mm	4.00"	1.26"	0.87"	S5/16-24X1/4
B4006-10-2.50	Standard	10mm	2.50"	1.26"	1.00"	S3/8-24X5/16
B4016-10-4.00	Standard	10mm	4.00"	1.26"	1.00"	S3/8-24X5/16
B4006-12-2.50	Standard	12mm	2.50"	1.50"	1.38"	S7/16-20X3/8
B4016-12-4.00	Standard	12mm	4.00"	1.50"	1.38"	S7/16-20X3/8
B4006-14-2.50	Standard	14mm	2.50"	1.61"	1.65"	S9/16-18X1/2
B4016-14-4.00	Standard	14mm	4.00"	1.61"	1.65"	S9/16-18X1/2
B4006-16-2.50	Standard	16mm	2.50"	1.61"	1.65"	S9/16-18X1/2
B4016-16-4.00	Standard	16mm	4.00"	1.61"	1.65"	S9/16-18X1/2
B4006-18-2.50	Standard	18mm	2.50"	1.77"	1.89"	S5/8-18X1/2
B4016-18-4.00	Standard	18mm	4.00"	1.77"	1.89"	S5/8-18X1/2
B4006-20-2.50	Standard	20mm	2.50"	1.77"	1.89"	S5/8-18X1/2
B4016-20-4.00	Standard	20mm	4.00"	1.77"	1.89"	S5/8-18X1/2
B4006-25-3.56	Standard	25mm	3.56"	2.36"	2.36"	S3/4-16X11/16(2)
B4016-25-6.00	Standard	25mm	6.00"	2.36"	2.36"	S3/4-16X11/16(2)
B4006-32-3.56	Standard	32mm	3.56"	2.56"	2.48"	S3/4-16X11/16(2)
B4016-32-6.00	Standard	32mm	6.00"	2.56"	2.48"	S3/4-16X11/16(2)

Set Screws are included. Back-up screws not included.



Accessories:



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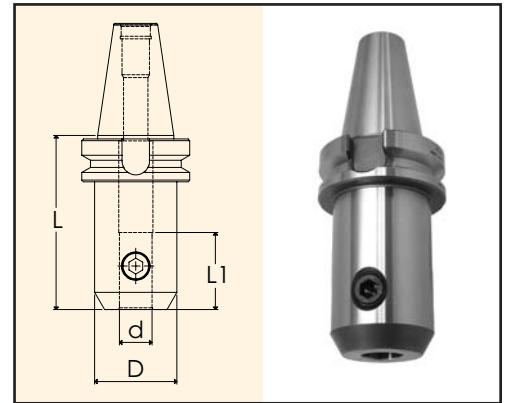
Pull Stud
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BT End Mill Holders

BT50 - Inch

Part Number	Style	d	L	L1	D	Set Screw Part Number
B5006-0250-3.00	Standard	1/4"	3.00"	1.10"	0.78"	S1/4-28X1/4
B5016-0250-6.00	Standard	1/4"	6.00"	1.10"	0.78"	S1/4-28X1/4
B5006-0375-2.75	Standard	3/8"	2.75"	1.26"	1.00"	S3/8-24X5/16
B5016-0375-6.00	Standard	3/8"	6.00"	1.26"	1.00"	S3/8-24X5/16
B5006-0500-3.00	Standard	1/2"	3.00"	1.50"	1.38"	S7/16-20X3/8
B5016-0500-6.00	Standard	1/2"	6.00"	1.50"	1.38"	S7/16-20X3/8
B5006-0625-3.00	Standard	5/8"	3.00"	1.61"	1.65"	S9/16-18X1/2
B5016-0625-6.00	Standard	5/8"	6.00"	1.61"	1.65"	S9/16-18X1/2
B5006-0750-3.00	Standard	3/4"	3.00"	1.77"	1.89"	S5/8-18X1/2
B5016-0750-6.00	Standard	3/4"	6.00"	1.77"	1.89"	S5/8-18X1/2
B5006-0875-4.00	Standard	7/8"	4.00"	2.08"	2.00"	S5/8-18X1/2 (2)
B5016-0875-6.00	Standard	7/8"	6.00"	2.08"	2.00"	S5/8-18X1/2 (2)
B5006-1000-4.00	Standard	1"	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
B5016-1000-6.00	Standard	1"	6.00"	2.36"	2.36"	S3/4-16X11/16 (2)
B5006-1250-4.00	Standard	1-1/4"	4.00"	2.56"	2.48"	S3/4-16X11/16 (2)
B5016-1250-6.00	Standard	1-1/4"	6.00"	2.56"	2.48"	S3/4-16X11/16 (2)
B5006-1500-4.50	Standard	1-1/2"	4.50"	2.83"	2.99"	S3/4-16X11/16 (2)
B5016-1500-7.00	Standard	1-1/2"	7.00"	2.83"	2.99"	S3/4-16X11/16 (2)
B5006-2000-5.00	Standard	2"	5.00"	3.34"	3.74"	S1-14X7/8 (2)
B5016-2000-8.00	Standard	2"	8.00"	3.34"	3.74"	S1-14X7/8 (2)
B5006-2500-6.00	Standard	2-1/2"	6.00"	3.66"	4.25"	S1-14X7/8 (2)

Set Screws are included. Back-up screws not included.



BT50 - Metric

Part Number	Style	d	L	L1	D	Set Screw Part Number
B5006-6-2.50	Standard	6mm	2.50"	1.10"	0.79"	S1/4-28X1/4
B5006-8-2.50	Standard	8mm	2.50"	1.25"	0.87"	S5/16-24X1/4
B5006-10-2.75	Standard	10mm	2.75"	1.25"	1.00"	S3/8-24X5/16
B5006-12-3.00	Standard	12mm	3.00"	1.50"	1.38"	S7/16-20X3/8
B5006-14-3.00	Standard	14mm	3.00"	1.61"	1.65"	S9/16-18X1/2
B5006-16-3.00	Standard	16mm	3.00"	1.61"	1.65"	S9/16-18X1/2
B5006-18-3.00	Standard	18mm	3.00"	1.77"	1.89"	S5/8-18X1/2
B5006-20-3.00	Standard	20mm	3.00"	1.77"	1.89"	S5/8-18X1/2
B5006-25-4.00	Standard	25mm	4.00"	2.36"	2.36"	S3/4-16X11/16 (2)
B5006-32-4.00	Standard	32mm	4.00"	2.55"	2.48"	S3/4-16X11/16 (2)
B5006-40-4.49	Standard	40mm	4.49"	2.83"	3.07"	S3/4-16X11/16 (2)
B5006-42-4.49	Standard	42mm	4.49"	2.83"	3.07"	S3/4-16X11/16 (2)
B5006-50-5.00	Standard	50mm	5.00"	3.34"	3.74"	S1-14X7/8 (2)

Set Screws are included. Back-up screws not included.

Accessories:



Set Screws
Page 28



Set Screws for Aerospace Holders
Page 28



Tool Jaw
Page 212



Pull Stud
Pages 139-140

HSK End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- Through-spindle coolant capability
- AT3 or better taper



TIR: $< .0002$ run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★★★☆



Set-up: quick and easy

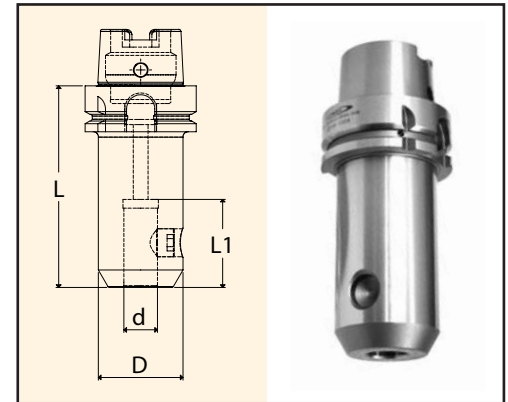


Coolant-thru: jet slots (optional)

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	d	L	L1	D	Set Screw Part Number
HSK63A-0187-3.00	3/16"	3.00"	0.866"	0.748"	S8-32X1/4
HSK63A-0187-5.00	3/16"	5.00"	0.866"	0.748"	S8-32X1/4
HSK63A-0250-3.00	1/4"	3.00"	1.102"	0.787"	S1/4-28X1/4
HSK63A-0250-5.00	1/4"	5.00"	1.102"	0.787"	S1/4-28X1/4
HSK63A-0312-3.00	5/16"	3.00"	1.417"	0.874"	S5/16-24X1/4
HSK63A-0312-5.00	5/16"	5.00"	1.417"	0.874"	S5/16-24X1/4
HSK63A-0375-3.50	3/8"	3.50"	1.574"	1.00"	S3/8-24X5/16
HSK63A-0375-5.00	3/8"	5.00"	1.574"	1.00"	S3/8-24X5/16
HSK63A-0437-4.00	7/16"	4.00"	1.771"	1.378"	S7/16-20X3/8
HSK63A-0437-5.00	7/16"	5.00"	1.771"	1.378"	S7/16-20X3/8
HSK63A-0500-4.00	1/2"	4.00"	1.771"	1.378"	S7/16-20X3/8
HSK63A-0500-5.00	1/2"	5.00"	1.771"	1.378"	S7/16-20X3/8
HSK63A-0625-4.00	5/8"	4.00"	1.889"	1.654"	S9/16-18X1/2
HSK63A-0625-5.00	5/8"	5.00"	1.889"	1.654"	S9/16-18X1/2
HSK63A-0750-4.50	3/4"	4.50"	1.968"	1.889"	S5/8-18X1/2
HSK63A-0750-6.00	3/4"	6.00"	1.968"	1.889"	S5/8-18X1/2
HSK63A-1000-4.50	1"	4.50"	2.755"	2.363"	S3/4-16X11/16 (2)
HSK63A-1000-6.00	1"	6.00"	2.755"	2.363"	S3/4-16X11/16 (2)
HSK63A-1250-4.50	1-1/4"	4.50"	2.952"	2.88"	S3/4-16X11/16 (2)
HSK63A-1250-6.00	1-1/4"	6.00"	2.952"	2.88"	S3/4-16X11/16 (2)



Set Screws are included. Back-up screws not included.
Coolant tube and coolant tube wrench are sold separately.

HSK40A

Part Number	d	L	L1	D	Set Screw Part Number
HSK40A-0125-75	1/8"	2.95"	0.63"	0.75"	S6-32X1/4
HSK40A-0187-75	3/16"	2.95"	0.87"	0.75"	S8-32X1/4
HSK40A-0250-75	1/4"	2.95"	1.42"	0.79"	S1/4-28x1/4
HSK40A-0312-75	5/16"	2.95"	1.42"	0.87"	S5/16-24X1/4
HSK40A-0375-75	3/8"	2.95"	1.57"	1.00"	S3/8-24X5/16
HSK40A-0437-75	7/16"	2.95"	1.78"	1.38"	S7/16-20X3/8
HSK40A-0500-75	1/2"	2.95"	1.78"	1.38"	S7/16-20X3/8
HSK40A-0625-75	5/8"	2.95"	1.89"	1.65"	S9/16-18X1/2
HSK40A-0750-75	3/4"	2.95"	1.97"	1.89"	S5/8-18X1/2

Accessories:



Set Screws
Page 28



Set Screws for Aerospace Holders
Page 28



HSK Coolant Tube
Page 28

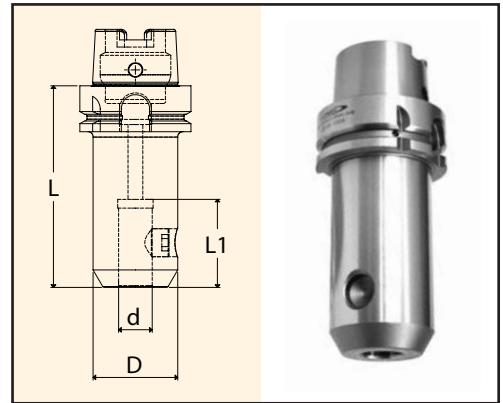


HSK Coolant Tube Wrench
Page 28

HSK End Mill Holders

HSK100A

Part Number	d	L	L1	D	Set Screw Part Number
HSK100A-0187-4.00	3/16"	4.00"	0.867"	0.748"	S8-32X1/4
HSK100A-0187-6.00	3/16"	6.00"	0.867"	0.748"	S8-32X1/4
HSK100A-0250-4.00	1/4"	4.00"	1.102"	0.787"	S1/4-28X1/4
HSK100A-0250-6.00	1/4"	6.00"	1.102"	0.787"	S1/4-28X1/4
HSK100A-0312-4.00	5/16"	4.00"	1.220"	0.866"	S5/16-24X1/4
HSK100A-0312-6.00	5/16"	6.00"	1.220"	0.866"	S5/16-24X1/4
HSK100A-0375-4.00	3/8"	4.00"	1.260"	1.00"	S3/8-24X5/16
HSK100A-0375-6.00	3/8"	6.00"	1.260"	1.00"	S3/8-24X5/16
HSK100A-0437-4.00	7/16"	4.00"	1.496"	1.378"	S7/16-20X3/8
HSK100A-0437-6.00	7/16"	6.00"	1.496"	1.378"	S7/16-20X3/8
HSK100A-0500-4.00	1/2"	4.00"	1.575"	1.378"	S7/16-20X3/8
HSK100A-0500-6.00	1/2"	6.00"	1.575"	1.378"	S7/16-20X3/8
HSK100A-0625-4.00	5/8"	4.00"	1.693"	1.654"	S9/16-18X1/2
HSK100A-0625-6.00	5/8"	6.00"	1.693"	1.654"	S9/16-18X1/2
HSK100A-0750-4.00	3/4"	4.00"	1.969"	1.890"	S5/8-18X1/2
HSK100A-0750-6.00	3/4"	6.00"	1.969"	1.890"	S5/8-18X1/2
HSK100A-1000-4.00	1"	4.00"	2.559"	2.362"	S3/4-16X11/16 (2)
HSK100A-1000-6.00	1"	6.00"	2.559"	2.362"	S3/4-16X11/16 (2)
HSK100A-1250-4.00	1-1/4"	4.00"	2.559"	2.480"	S3/4-16X11/16 (2)
HSK100A-1250-6.00	1-1/4"	6.00"	2.559"	2.480"	S3/4-16X11/16 (2)



Set Screws are included. Back-up screws not included.
Coolant tube and coolant tube wrench are sold separately.

Accessories:



Set Screws
Page 28



Set Screws for Aerospace Holders
Page 28



HSK Coolant Tube
Page 28



HSK Coolant Tube Wrench
Page 28

NMTB End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- Through-spindle coolant capability
- AT3 or better taper



TIR: < .0002 run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★★★☆



Set-up: quick and easy

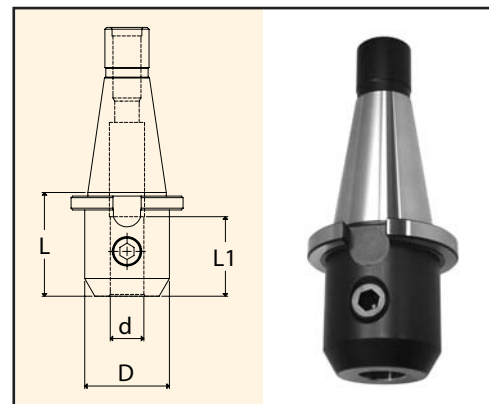


Coolant-thru: jet slots (optional)

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	d	L	L1	D	Set Screw Part Number
N3006-0125-1.75	1/8"	1.75"	0.63"	0.75"	S6-32X1/4
N3006-0187-1.75	3/16"	1.75"	0.87"	0.75"	S8-32X1/4
N3006-0250-1.75	1/4"	1.75"	1.10"	0.79"	S1/4-28X1/4
N3006-0312-1.75	5/16"	1.75"	1.26"	0.87"	S5/16-24X1/4
N3006-0375-1.75	3/8"	1.75"	1.26"	1.00"	S3/8-24X5/16
N3006-0500-1.75	1/2"	1.75"	1.57"	1.38"	S7/16-20X3/8
N3006-0625-1.75	5/8"	1.75"	1.69"	1.43"	S9/16-18X1/2
N3006-0750-2.25	3/4"	2.25"	1.85"	1.89"	S5/8-18X1/2
N3006-0875-2.50	7/8"	2.50"	1.96"	2.01"	S5/8-18X1/2
N3006-1000-2.69	1"	2.69"	2.24"	2.36"	S3/4-16X11/16
N3006-1250-3.62	1-1/4"	3.62"	2.24"	2.48"	S3/4-16X11/16 (2)



NMTB40

Part Number	d	L	L1	D	Set Screw Part Number
N4006-0125-2.31	1/8"	2.31"	0.63"	0.75"	S6-32X1/4
N4006-0187-2.31	3/16"	2.31"	0.87"	0.75"	S8-32X1/4
N4006-0250-2.31	1/4"	2.31"	1.10"	0.79"	S1/4-28X1/4
N4006-0312-2.31	5/16"	2.31"	1.26"	0.87"	S5/16-24X1/4
N4006-0375-2.31	3/8"	2.31"	1.26"	1.00"	S3/8-24X5/16
N4006-0437-2.31	7/16"	2.31"	1.50"	1.38"	S7/16-20X3/8
N4006-0500-2.31	1/2"	2.31"	1.50"	1.38"	S7/16-20X3/8
N4006-0625-2.31	5/8"	2.31"	1.61"	1.65"	S9/16-18X1/2
N4006-0750-2.31	3/4"	2.31"	1.77"	1.89"	S5/8-18X1/2
N4006-0875-2.94	7/8"	2.94"	2.09"	2.01"	S5/8-18X1/2 (2)
N4006-1000-3.37	1"	3.37"	2.36"	2.36"	S3/4-16X11/16 (2)
N4006-1250-3.69	1-1/4"	3.69"	2.56"	2.48"	S3/4-16X11/16 (2)
N4006-1500-3.95	1-1/2"	3.95"	2.56"	2.99"	S3/4-16X11/16 (2)

NMTB shanks are suitable for use with Erickson QC spindles.
Set Screws are included. Back-up screws not included.

Accessories:



Set Screws
Page 28

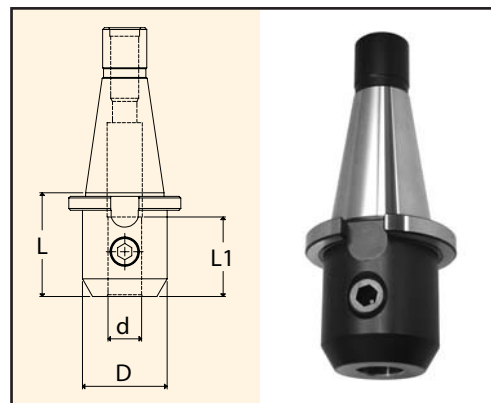


Set Screws for Aerospace Holders
Page 28

NMTB End Mill Holders

NMTB50

Part Number	d	L	L1	D	Set Screw Part Number
N5006-0250-2.75	1/4"	2.75"	1.10"	0.79"	S1/4-28X1/4
N5006-0375-2.75	3/8"	2.75"	1.26"	1.00"	S3/8-24X5/16
N5016-0375-4.50	3/8"	4.50"	1.26"	1.00"	S3/8-24X5/16
N5006-0500-2.75	1/2"	2.75"	1.50"	1.38"	S7/16-20X3/8
N5016-0500-4.50	1/2"	4.50"	1.50"	1.38"	S7/16-20X3/8
N5006-0625-2.75	5/8"	2.75"	1.61"	1.65"	S9/16-18X1/2
N5016-0625-4.50	5/8"	4.50"	1.61"	1.65"	S9/16-18X1/2
N5006-0750-2.88	3/4"	2.88"	1.77"	1.89"	S5/8-18X1/2
N5016-0750-4.50	3/4"	4.50"	1.77"	1.89"	S5/8-18X1/2
N5006-0875-2.88	7/8"	2.88"	2.09"	2.01"	S5/8-18X1/2 (2)
N5016-0875-4.50	7/8"	4.50"	2.09"	2.01"	S5/8-18X1/2 (2)
N5006-1000-3.50	1"	3.50"	2.36"	2.36"	S3/4-16X11/16 (2)
N5016-1000-5.50	1"	5.50"	2.36"	2.36"	S3/4-16X11/16 (2)
N5006-1250-3.50	1-1/4"	3.50"	2.56"	2.48"	S3/4-16X11/16 (2)
N5016-1250-5.50	1-1/4"	5.50"	2.56"	2.48"	S3/4-16X11/16 (2)
N5006-1500-4.00	1-1/2"	4.00"	2.83"	2.99"	S3/4-16X11/16 (2)
N5016-1500-6.00	1-1/2"	6.00"	2.83"	2.99"	S3/4-16X11/16 (2)
N5006-2000-4.69	2"	4.69"	3.34"	3.74"	S1-14X7/8 (2)



NMTB shanks are suitable for use with Erickson QC spindles.
Set Screws are included. Back-up screws not included.

Accessories:



Set Screws
Page 28



**Set Screws for
Aerospace Holders**
Page 28

R8 and Straight Shank End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- Through-spindle coolant capability
- AT3 or better taper



TIR: < .0002 run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★★★☆



Set-up: quick and easy



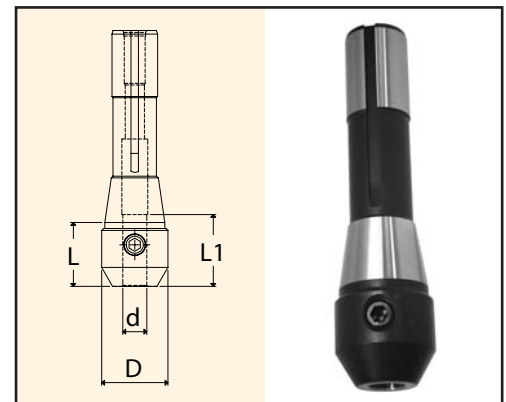
Coolant-thru: jet slots (optional)

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	d	L	L1	D	Set Screw Part Number
830-008-1.33	1/8"	1.33"	0.63"	0.75"	S6-32X1/4
830-012-1.33	3/16"	1.33"	0.87"	0.75"	S8-32X1/4
830-016-1.33	1/4"	1.33"	1.10"	0.79"	S1/4-28X1/4
830-020-1.75	5/16"	1.75"	1.26"	0.87"	S5/16-24X1/4
830-024-1.33	3/8"	1.33"	1.26"	1.00"	S3/8-24X5/16
830-028-1.33	7/16"	1.33"	1.50"	1.38"	S7/16-20X3/8
830-032-1.33	1/2"	1.33"	1.50"	1.38"	S7/16-20X3/8
830-040-1.50	5/8"	1.50"	1.61"	1.65"	S9/16-18X1/2
830-048-2.37	3/4"	2.37"	1.77"	1.89"	S5/8-18X1/2
830-056-2.75	7/8"	2.75"	2.36"	2.01"	S5/8-18X1/2 (2)
830-064-3.25	1"	3.25"	2.76"	2.36"	S3/4-16X11/16 (2)
830-080-3.25	1-1/4"	3.25"	2.56"	2.48"	S3/4-16X11/16 (2)
830-096-3.75	1-1/2"	3.75"	2.83"	2.99"	S3/4-16X11/16 (2)

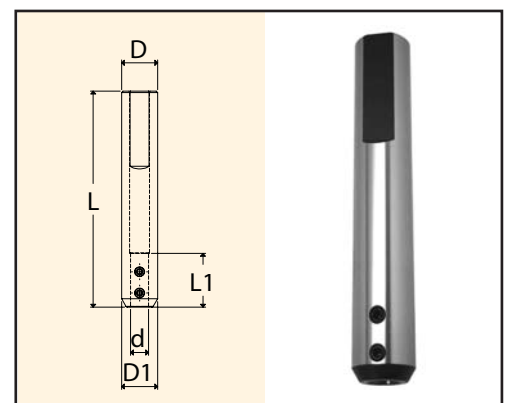
Set Screws are included. Back-up screws not included.



Straight Shank

Part Number	d	L	L1	D	D1	Set Screw Part Number
S7506-0125-6.00	1/8"	6.00"	0.63"	.750"	0.50"	S6-32X1/4
S7506-0187-6.00	3/16"	6.00"	0.86"	.750"	0.56"	S8-32X1/4
S7506-0250-6.00	1/4"	6.00"	1.10"	.750"	0.75"	S1/4-28X1/4
S7506-0312-6.00	5/16"	6.00"	1.26"	.750"	0.75"	S5/16-24X1/4
S1006-0375-6.00	3/8"	6.00"	1.26"	1.00"	1.00"	S3/8-24X5/16 (2)
S1006-0500-6.00	1/2"	6.00"	1.49"	1.00"	1.00"	S1/4-28x1/4 (2)

Set Screws are included. Back-up screws not included.



Accessories:



Set Screws
Page 28



Set Screws for Aerospace Holders
Page 28



R8 Collet
Page 128

Morse Taper End Mill Holders

- End mill inner bore T.I.R. ≤ 0.0002
- AT3 or better taper
- Tang adapter is removable for draw bar use on MT#2 and #4 holders



TIR: < .0001 run out in ID bore



Milling
★★★★☆



Speed: up to 20,000 rpm



Tapping
★★★★☆



Set-up: quick and easy

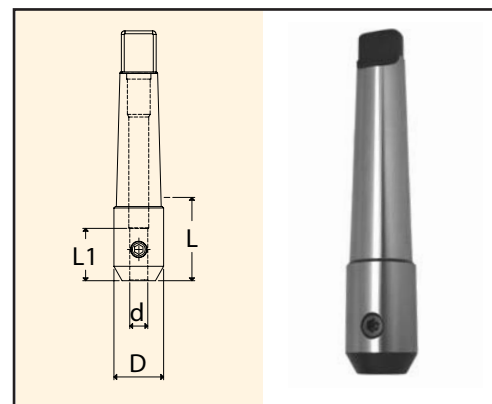


Coolant-thru: jet slots (optional)

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

Morse

Part Number	Taper	d	L	L1	D	Set Screw Part Number
M0206-0125-1.50	MT#2	1/8"	1.50"	0.67"	0.75"	S6-32X1/4
M0206-0187-1.50	MT#2	3/16"	1.50"	0.87"	0.75"	S8-32X1/4
M0206-0250-1.50	MT#2	1/4"	1.50"	1.07"	0.79"	S1/4-28X1/4
M0306-0250-1.50	MT#3	1/4"	1.50"	1.07"	0.79"	S1/4-28X1/4
M0206-0312-1.50	MT#2	5/16"	1.50"	1.26"	0.87"	S5/16-24X5/16
M0306-0312-1.50	MT#3	5/16"	1.50"	1.26"	0.87"	S5/16-24X5/16
M0206-0375-1.63	MT#2	3/8"	1.63"	1.26"	1.00"	S3/8-24X5/16
M0306-0375-1.88	MT#3	3/8"	1.88"	1.26"	1.00"	S3/8-24X5/16
M0406-0375-2.00	MT#4	3/8"	2.00"	1.35"	1.00"	S3/8-24X5/16
M0206-0500-1.81	MT#2	1/2"	1.81"	1.53"	1.26"	S7/16-20X3/8
M0306-0500-1.94	MT#3	1/2"	1.94"	1.50"	1.38"	S7/16-20X3/8
M0406-0500-2.31	MT#4	1/2"	2.31"	1.46"	1.38"	S7/16-20X3/8
M0406-0625-2.50	MT#4	5/8"	2.50"	1.61"	1.65"	S9/16-18X1/2
M0406-0750-2.75	MT#4	3/4"	2.75"	1.77"	1.89"	S5/8-18X1/2



Set Screws are included. Back-up screws not included.

High-Speed Balanceable End Mill Holders

Balanceable End Mill Holders are available in CAT and BT taper styles. Part numbers are identical to standard End Mill Holders part numbers except that there is a "B" at the end. (Ex: C4006-0125B)

- 30 and 40 taper toolholders are prebalanced to G2.5 or better at 24,000 RPM
- 50 taper toolholders are prebalanced to G2.5 or better at 15,000 RPM
- Lyndex-Nikken uses a Patented Balancing Method which allows greater compensation necessary for extremely high RPM applications.
- HsBalance™ toolholders come with a printout of actual balance condition
- HsBalance™ toolholders need to be used with balance-qualified pull studs
- A balancing machine is required to balance or re-balance toolholders



CAT40 HsBalance™ End Mill Holder



CAT40 HsBalance™ End Mill Holder DIN

Accessories:



Set Screws
Page 28



Set Screws for
Aerospace Holders
Page 28

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"
S1-14x7/8	2", 2-1/2"
S1/4-28x1/4	1/4", 6mm
S5/16-24X1/4	5/16", 8mm
S3/8-24X5/16	3/8", 7/16", 10mm
S7/16-20X3/8	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



Replacement Set Screws for Aerospace End Mill Holders

Part Number	Size of Holder Internal Diameter
S3/4-16x7/16	1", 1-1/4", 1-1/2", 2", 2-1/2"
S1/2-20UNF	5/8", 3/4", 7/8"
S3/8-24UNF	3/8", 1/2"



Coolant Tube for HSK holders

Part Number	Description
HSK63-TUBE	Coolant tube for HSK63 holders
HSK40-TUBE	Coolant tube for HSK40 holders
HSK100-TUBE	Coolant tube for HSK100 holders



Coolant Tube Wrench for HSK holders

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

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





Current Promotion

Scan
these
QR Codes



Featured Video

LYNDEX-NIKKEN

OTHER

Ground surface allows perpendicular contact of retention stud, ensuring better alignment

AT3 or better taper contact: .0028 degree tolerance variation 80 millionths to 126 millionths. Traverse ground taper ensures 80% or better taper contact

Drive keys milled to same depth for symmetrical body design, resulting in better high speed balance

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 birds nests and other stringy chips from packing in or wrapping about

ER Nut
Smooth nut prevents coolant flare and provides better balance

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.

Turned rough surface causes the retention stud centerline to deviate

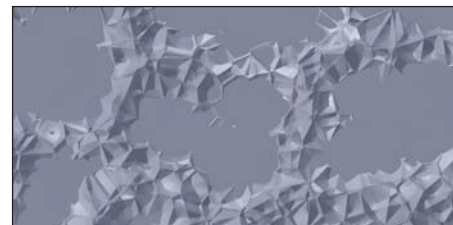
AT4 or better taper contact: .0028 degree tolerance variation 80 millionths to 126 millionths. Plunge ground taper creates inconsistency, ensuring only 60% or better taper contact

Drive keys milled to different depths, per standard of 70 years ago

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 to reduce costs, resulting in austenite deposits. Surface finish and material integrity are compromised commonly masked by chrome plating or polishing.

ER Collet Features

We offer the largest ER Collet product range in the industry.

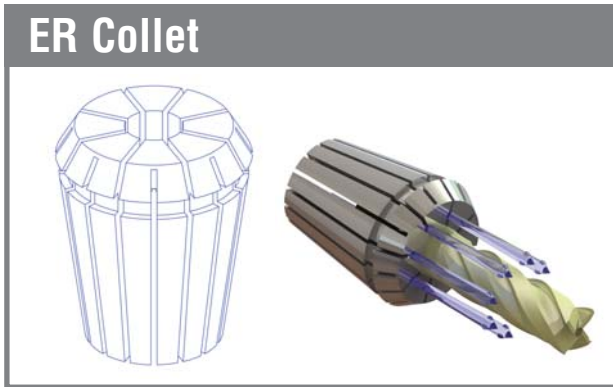
Quality Standard- Made to DIN 6499 Specification

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

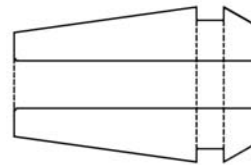
Tolerance- Guaranteed to be within .0001" or better run out at the collet nose

Accuracy- Less than .0004" at 4 X Dia.

Inspection- 100% collet inspection, checked 3 times for concentricity



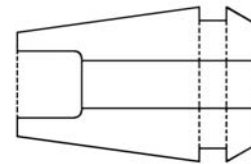
ER Standard Type Collet



Flexibility and Durability:

We offer the ultimate trifecta: wide clamping range, ultra precision, and super high pressure. Our 1300 PSI capable collets have a wide .031" collapse range and the ability to maintain less than .0001 run out at the collet nose.

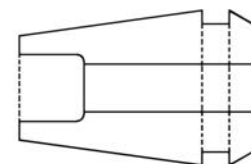
ER Counter-Bored Type Collet



Ultra Precision for MicroCutters:

Our High Precision "On Size" Collets have 25% longer collet bore lengths than competitors, resulting in stronger gripping power at higher RPM's. The High Pressure Coolant Collet's special design reduces cutter vibration due to high pressure.

High Precision ER Tap Collet

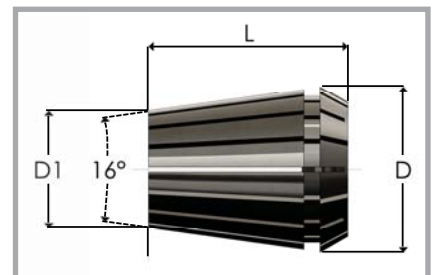


Extreme rigidity, high pressure performance:

Our Tap Collets are designed for all ANSI, DIN, ISO, JIS Specification Taps. 1300 PSI capable Coolant Tap Collets increase tool life by dissipating heat and preventing chip build-up.

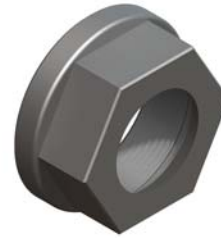
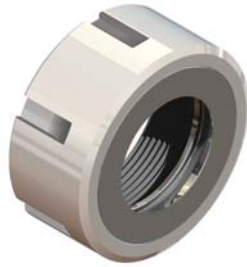
Dimensional Data

Style	D	D1	L	Collet Range	Coolant Collet Size Range
ER16	17.2mm	11.3mm	27.0mm	0.5 - 10.0mm	4.0 - 10.0mm (3/16" - 17/64")
ER20	21.2mm	14.5mm	31.0mm	1.0 - 13.0mm	5.0 - 13.0mm (5/32" - 1/2")
ER25	26.2mm	18.5mm	35.0mm	1.0 - 16.0mm	6.0 - 16.0mm (7/32" - 5/8")
ER32	33.2mm	24.4mm	40.0mm	2.0 - 20.0mm	10.0 - 20.0mm (1/4" - 25/32")
ER40	41.2mm	31.2mm	46.0mm	3.0mm - 26.0mm	10.0 - 26.0mm



LYNDEX-NIKKEN NUT

OTHER NUT



Bearing Nut



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

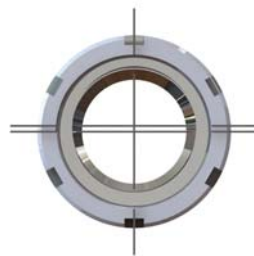
- Reduce twisting of the collet and increase the TIR accuracy
- Improve chucking consistency by 6 times compared to non bearing style nut!

Standard Nut - No Bearing



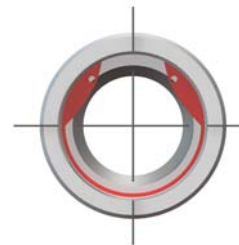
Non bearing style nuts only provide the ability to retain the collet, and do not carry a functional advantage to improve the TIR or chucking consistency.

Maximum Accuracy



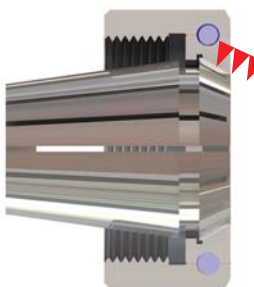
We control all of our manufacturing processes, thereby maintaining the accuracy assembly tolerances between the nut, collet and holder.

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



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

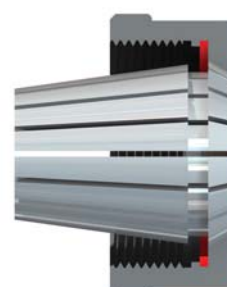
Ground Eccentric Nut



Our ground eccentric bearing race increases clamping power by 40% 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.

CAT ER Collet Chucks



- Ball bearing nut with ground collet race
- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw
- Available in high-speed balanceable versions

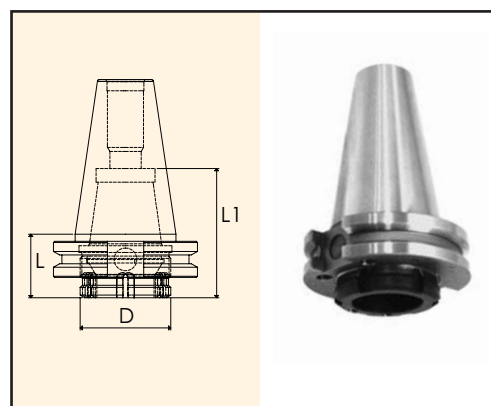
-  **TIR:** < .0001 at collet face
-  **Speed:** up to 23,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tool coolant

-  **Drilling**
★★★★☆
-  **Milling**
★★★★☆
-  **Reaming**
★★★★☆
-  **Tapping**
★★★☆☆

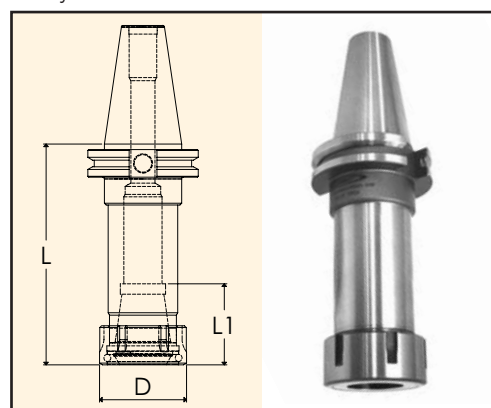
Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

CAT40

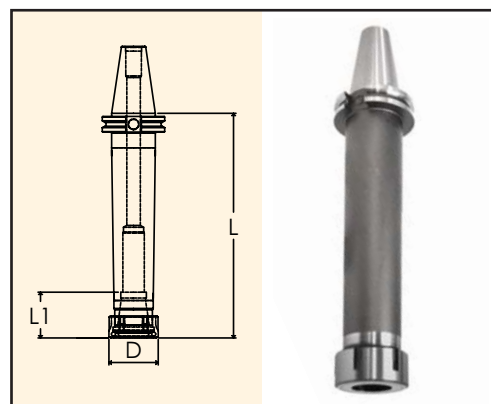
Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
C4007-0008-2.50	Standard	ER8	.019-.196"	08-NASPAN	2.50"	0.51"	0.47"
C4017-0008-4.00	Standard	ER8	.019-.196"	08-NASPAN	4.00"	0.51"	0.47"
C4047-0008-9.00	Ext. Length	ER8	.019-.196"	08-NASPAN	9.00"	0.51"	0.47"
C4007-0011-2.50	Standard	ER11	.019-.275"	011-HEX	2.50"	0.65"	0.75"
C4017-0011-4.00	Standard	ER11	.019-.275"	011-HEX	4.00"	0.65"	0.75"
C4027-0011-6.00	Standard	ER11	.019-.275"	011-HEX	6.00"	0.65"	0.75"
C40S7-0016-2.25	Stubby	ER16	.019-.406"	016-SPAN	2.25"	0.87"	1.26"
C4007-0016-3.50	Standard	ER16	.019-.406"	016-SPAN	3.50"	0.87"	1.26"
C4017-0016-6.00	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
C4047-0016-9.00	Ext. Length	ER16	.019-.406"	016-SPAN	9.00"	0.87"	1.26"
C4007-0020-2.50	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.06"	1.38"
C4017-0020-4.00	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
C4027-0020-6.00	Standard	ER20	.039-.511"	020-SPAN	6.00"	1.06"	1.38"
C4047-0020-9.00	Ext. Length	ER20	.039-.511"	020-SPAN	9.00"	1.06"	1.38"
C4007-0025-2.50	Standard	ER25	.039-.629"	025-SPAN	2.50"	1.18"	1.65"
C4017-0025-4.00	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
C4027-0025-6.00	Standard	ER25	.039-.629"	025-SPAN	6.00"	1.18"	1.65"
C40S7-0032-1.10	Stubby	ER32	.078-.787"	025-SPAN	2.25"	0.87"	1.26"
C4007-0032-3.13	Standard	ER32	.078-.787"	032-SPAN	3.13"	1.34"	1.97"
C4017-0032-5.00	Standard	ER32	.078-.787"	032-SPAN	5.00"	1.34"	1.97"
C4047-0032-9.00	Ext. Length	ER32	.078-.787"	032-SPAN	9.00"	1.34"	1.97"
C4007-0040-3.13	Standard	ER40	.118-1.023"	040-SPAN	3.13"	1.50"	2.48"
C4017-0040-5.00	Standard	ER40	.118-1.023"	040-SPAN	5.00"	1.50"	2.48"



Stubby



Standard



Extended length

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



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55





ER Back Up Screw
Page 55



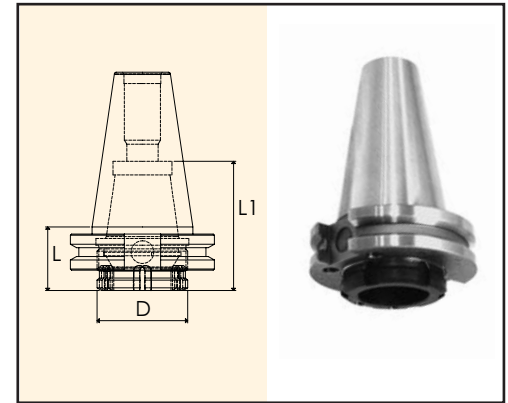
ER Nut
Page 54

CAT ER Collet Chucks

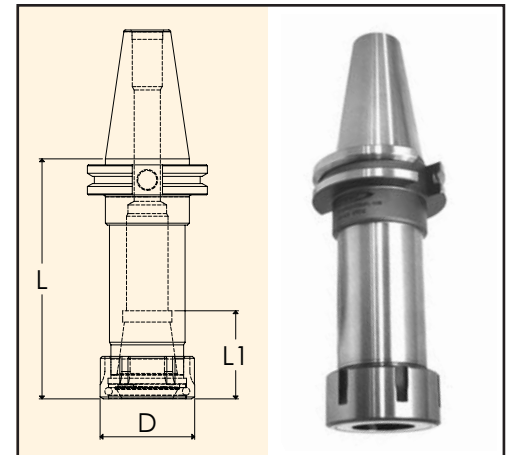
CAT50

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
C5007-0016-4.12	Standard	ER16	.019-.406"	016-SPAN	4.12"	0.87"	1.26"
C5017-0016-6.00	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
C5027-0016-8.00	Standard	ER16	.019-.406"	016-SPAN	8.00"	0.87"	1.26"
C5057-0016-12.00	Ext. Length	ER16	.019-.406"	016-SPAN	12.00"	0.87"	1.26"
C5007-0020-2.50	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.06"	1.38"
C5017-0020-4.00	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
C5027-0020-6.00	Standard	ER20	.039-.511"	020-SPAN	6.00"	1.06"	1.38"
C5037-0020-8.00	Standard	ER20	.039-.511"	020-SPAN	8.00"	1.06"	1.38"
C5057-0020-12.00	Ext. Length	ER20	.039-.511"	020-SPAN	12.00"	1.06"	1.38"
C5007-0025-2.50	Standard	ER25	.039-.629"	025-SPAN	2.50"	1.18"	1.65"
C5017-0025-4.00	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
C5027-0025-6.00	Standard	ER25	.039-.629"	025-SPAN	6.00"	1.18"	1.65"
C5037-0025-8.00	Standard	ER25	.039-.629"	025-SPAN	8.00"	1.18"	1.65"
C5007-0032-4.00	Standard	ER32	.078-.787"	032-SPAN	4.00"	1.34"	1.97"
C5017-0032-6.00	Standard	ER32	.078-.787"	032-SPAN	6.00"	1.34"	1.97"
C5027-0032-8.00	Standard	ER32	.078-.787"	032-SPAN	8.00"	1.34"	1.97"
C5057-0032-12.00	Ext. Length	ER32	.078-.787"	032-SPAN	12.00"	1.34"	1.97"
C50S7-0040-1.10	Stubby	ER40	.118-1.023"	040-SPAN	1.10"	1.10"	1.96"
C5007-0040-4.00	Standard	ER40	.118-1.023"	040-SPAN	4.00"	1.50"	2.48"
C5017-0040-6.00	Standard	ER40	.118-1.023"	040-SPAN	6.00"	1.50"	2.48"
C5027-0040-8.00	Standard	ER40	.118-1.023"	040-SPAN	8.00"	1.50"	2.48"
C5057-0040-12.00	Ext. Length	ER40	.118-1.023"	040-SPAN	12.00"	1.50"	2.48"

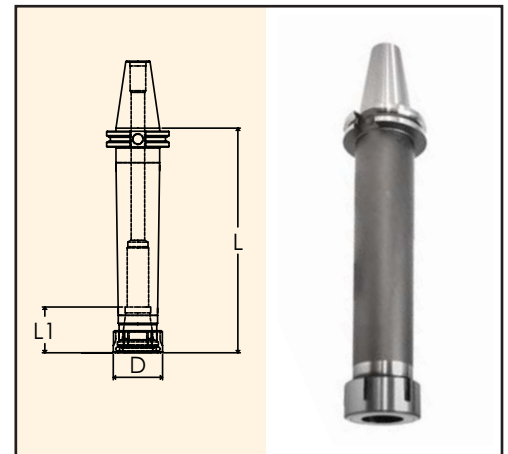
Note: ER Collets Chucks come with back-up screw.



Stubby



Standard



Extended length



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55





ER Back Up Screw
Page 55

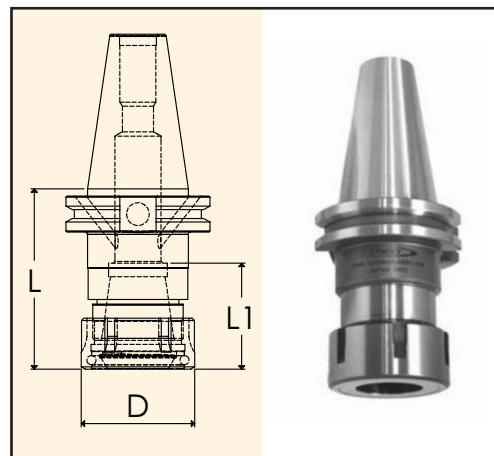


ER Nut
Page 54

CAT ER Collet Chucks - DIN



CAT40 - DIN

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
C4007-0016-3.50DIN	Standard	ER16	.019-.406"	016-SPAN	3.50"	0.87"	1.26"
C4017-0016-6.00DIN	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
C4007-0020-2.50DIN	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.18"	1.38"
C4017-0020-4.00DIN	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.18"	1.38"
C4007-0025-2.50DIN	Standard	ER25	.039-.629"	025-SPAN	2.50"	1.18"	1.65"
C4017-0025-4.00DIN	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
C4007-0032-3.13DIN	Standard	ER32	.078-.787"	032-SPAN	3.13"	1.89"	1.97"
C4017-0032-5.00DIN	Standard	ER32	.078-.787"	032-SPAN	5.00"	1.89"	1.97"
C4007-0040-3.13DIN	Standard	ER40	.118-1.023"	040-SPAN	3.13"	2.05"	2.48"
C4017-0040-5.00DIN	Standard	ER40	.118-1.023"	040-SPAN	5.00"	2.05"	2.48"



Standard

CAT50 - DIN

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
C5007-0016-4.13DIN	Standard	ER16	.019-.406"	016-SPAN	4.13"	0.87"	1.26"
C5017-0016-6.00DIN	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
C5027-0016-8.00DIN	Standard	ER16	.019-.406"	016-SPAN	8.00"	0.87"	1.26"
C5007-0020-2.50DIN	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.06"	1.38"
C5017-0020-4.00DIN	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
C5027-0020-6.00DIN	Standard	ER20	.039-.511"	020-SPAN	6.00"	1.06"	1.38"
C5007-0025-2.50DIN	Standard	ER25	.039-.629"	025-SPAN	2.50"	1.18"	1.65"
C5017-0025-4.00DIN	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
C5027-0025-6.00DIN	Standard	ER25	.039-.629"	025-SPAN	6.00"	1.18"	1.65"
C5007-0032-4.00DIN	Standard	ER32	.078-.787"	032-SPAN	4.00"	2.09"	1.97"
C5017-0032-6.00DIN	Standard	ER32	.078-.787"	032-SPAN	6.00"	2.09"	1.97"
C5027-0032-8.00DIN	Standard	ER32	.078-.787"	032-SPAN	8.00"	2.09"	1.97"
C5007-0040-4.00DIN	Standard	ER40	.118-1.023"	040-SPAN	4.00"	2.13"	2.48"
C5017-0040-6.00DIN	Standard	ER40	.118-1.023"	040-SPAN	6.00"	2.13"	2.48"
C5027-0040-8.00DIN	Standard	ER40	.118-1.023"	040-SPAN	8.00"	2.13"	2.48"

Note: ER Collets Chucks come with back-up screw.
DIN designates suitability for coolant-through the flange per DIN 69871 form B specs.



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



ER Back Up Screw
Page 55







ER Nut
Page 54

BT ER Collet Chucks



- Ball bearing nut with ground collet race
- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw
- Available in high-speed balanceable versions

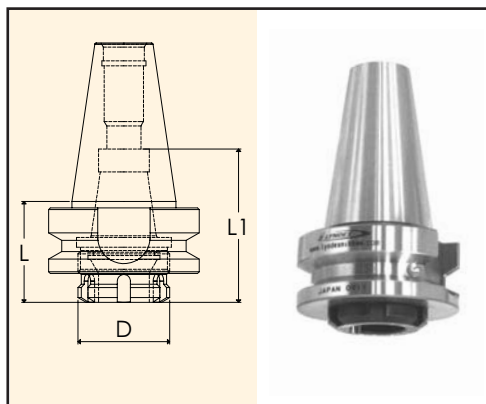
Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

-  **TIR:** < .0001 at collet face
-  **Speed:** up to 23,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tool coolant

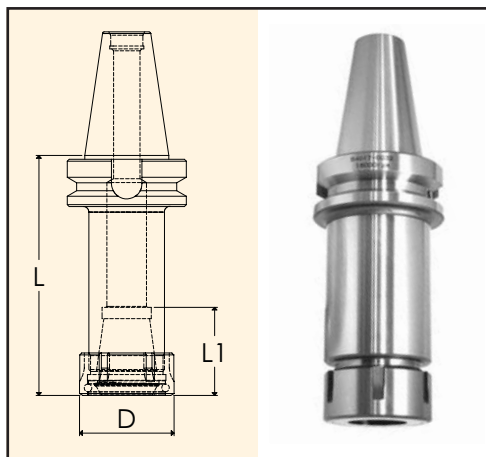
-  **Drilling**
★★★★☆
-  **Milling**
★★★★☆
-  **Reaming**
★★★★☆
-  **Tapping**
★★★★☆

BT30

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
B3007-0008-2.00	Standard	ER8	.019-.196"	08-NASPAN	2.00"	0.51"	0.47"
B3017-0008-4.00	Standard	ER8	.019-.196"	08-NASPAN	4.00"	0.51"	0.47"
B3007-0011-2.00	Standard	ER11	.019-.275"	011-HEX	2.00"	0.65"	0.75"
B3017-0011-4.00	Standard	ER11	.019-.275"	011-HEX	4.00"	0.65"	0.75"
B3007-0016-2.36	Standard	ER16	.019-.406"	016-SPAN	2.36"	0.87"	1.26"
B3017-0016-4.00	Standard	ER16	.019-.406"	016-SPAN	4.00"	0.87"	1.26"
B3027-0016-5.00	Standard	ER16	.019-.406"	016-SPAN	5.00"	0.87"	1.26"
B3037-0016-6.00	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
B30S7-0020-1.20	Stubby	ER20	.039-.511"	020-SPAN	1.22"	1.57"	1.10"
B3007-0020-2.50	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.06"	1.38"
B3017-0020-4.00	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
B3007-0025-2.00	Standard	ER25	.039-.629"	025-SPAN	2.00"	1.18"	1.65"
B3017-0025-4.00	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
B3007-0032-3.00	Standard	ER32	.078-.787"	032-SPAN	3.00"	1.34"	1.97"
B3017-0032-5.00	Standard	ER32	.078-.787"	032-SPAN	5.00"	1.34"	1.97"





Stubby




Standard

BT40

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
B4007-0008-2.50	Standard	ER8	.019-.196"	08-NASPAN	2.50"	0.51"	0.47"
B4017-0008-4.00	Standard	ER8	.019-.196"	08-NASPAN	4.00"	0.51"	0.47"
B4007-0011-2.50	Standard	ER11	.019-.275"	011-HEX	2.50"	0.65"	0.75"
B4017-0011-4.00	Standard	ER11	.019-.275"	011-HEX	4.00"	0.65"	0.75"
B4027-0011-6.00	Standard	ER11	.019-.275"	011-HEX	6.00"	0.65"	0.75"
B40S7-0016-2.50	Stubby	ER16	.019-.406"	016-SPAN	2.50"	-	-
B4007-0016-3.50	Standard	ER16	.019-.406"	016-SPAN	3.50"	0.87"	1.26"
B4017-0016-5.00	Standard	ER16	.019-.406"	016-SPAN	5.00"	0.87"	1.26"
B4007-0020-2.50	Standard	ER20	.039-.511"	020-SPAN	2.50"	1.06"	1.38"
B4017-0020-4.00	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
B4027-0020-6.00	Standard	ER20	.039-.511"	020-SPAN	6.00"	1.06"	1.38"
B4007-0025-2.25	Standard	ER25	.039-.629"	025-SPAN	2.25"	1.18"	1.65"
B4017-0025-4.00	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
B4027-0025-6.00	Standard	ER25	.039-.629"	025-SPAN	6.00"	1.18"	1.65"

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

 When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55





ER Back Up Screw
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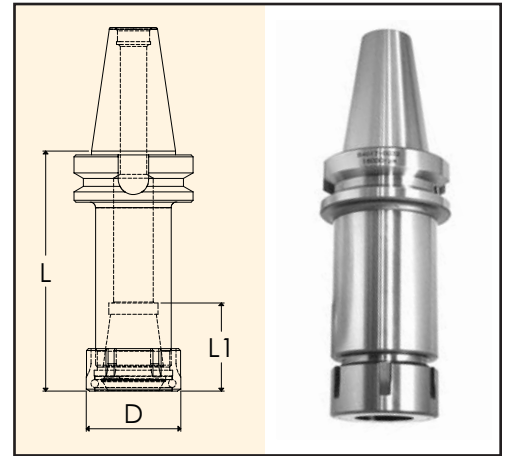


ER Nut
Page 54

BT ER Collet Chucks



BT40

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
B4027-0025-6.00	Standard	ER25	.039-.629"	025-SPAN	6.00"	1.18"	1.65"
B4007-0032-3.13	Standard	ER32	.078-.787"	032-SPAN	3.13"	1.34"	1.97"
B4017-0032-5.00	Standard	ER32	.078-.787"	032-SPAN	5.00"	1.34"	1.97"
B4007-0040-3.13	Standard	ER40	.118-1.023"	040-SPAN	3.13"	1.50"	2.50"
B4017-0040-5.00	Standard	ER40	.118-1.023"	040-SPAN	5.00"	1.50"	2.50"



Standard

BT50

Part Number	Style	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
B5007-0016-4.12	Standard	ER16	.019-.406"	016-SPAN	4.12"	0.87"	1.26"
B5017-0016-6.00	Standard	ER16	.019-.406"	016-SPAN	6.00"	0.87"	1.26"
B5007-0020-2.75	Standard	ER20	.039-.511"	020-SPAN	2.75"	1.06"	1.38"
B5017-0020-4.00	Standard	ER20	.039-.511"	020-SPAN	4.00"	1.06"	1.38"
B5007-0025-2.63	Standard	ER25	.039-.629"	025-SPAN	2.63"	1.18"	1.65"
B5017-0025-4.00	Standard	ER25	.039-.629"	025-SPAN	4.00"	1.18"	1.65"
B5007-0032-4.00	Standard	ER32	.078-.787"	032-SPAN	4.00"	1.34"	2.00"
B5017-0032-6.00	Standard	ER32	.078-.787"	032-SPAN	6.00"	1.34"	2.00"
B5007-0040-4.00	Standard	ER40	.118-1.023"	040-SPAN	4.00"	1.50"	2.50"
B5017-0040-6.00	Standard	ER40	.118-1.023"	040-SPAN	6.00"	1.50"	2.50"

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



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



ER Back Up Screw
Page 55







ER Nut
Page 54

HSK ER Collet Chucks



- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw
- Available in high-speed balanceable versions

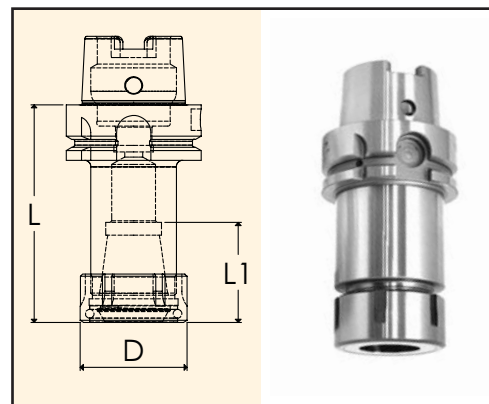
Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

-  **TIR:** < .0001 at collet face
-  **Speed:** up to 23,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tool coolant



-  **Drilling**
★★★★☆
-  **Milling**
★★★★☆
-  **Reaming**
★★★★☆
-  **Tapping**
★★★★☆

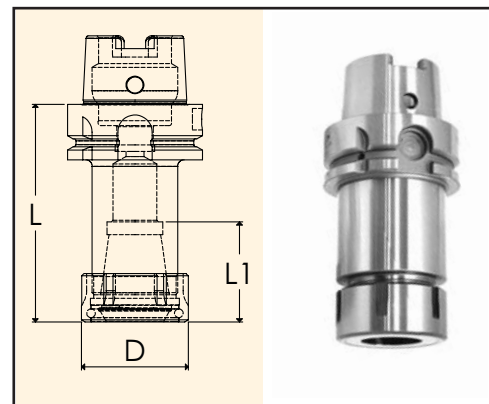
HSK40A/63A

Part Number	Taper	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
HSK40A-ER11-75	HSK40A	ER11	.019-.275"	011-HEX	2.71"	0.5"	0.71"
HSK40A-ER16-75	HSK40A	ER16	.019-.393"	016-SPAN	2.56"	0.67"	1.26"
HSK40A-ER20-75	HSK40A	ER20	.039-.511"	020-SPAN	2.95"	1.2"	1.38"
HSK40A-ER25-80	HSK40A	ER25	.039-.629"	025-SPAN	3.15"	1.4"	1.65"
HSK40A-ER32-80	HSK40A	ER32	.078-.787"	032-SPAN	3.15"	1.6"	1.97"
HSK63A-ER16-3.00	HSK63A	ER16	.019-.393"	016-SPAN	3.00"	0.866"	1.260"
HSK63A-ER16-5.00	HSK63A	ER16	.019-.393"	016-SPAN	5.00"	0.866"	1.260"
HSK63A-ER20-3.00	HSK63A	ER20	.039-.511"	020-SPAN	3.00"	1.062"	1.378"
HSK63A-ER20-5.00	HSK63A	ER20	.039-.511"	020-SPAN	5.00"	1.062"	1.378"
HSK63A-ER25-3.00	HSK63A	ER25	.039-.629"	025-SPAN	3.00"	1.181"	1.654"
HSK63A-ER25-5.00	HSK63A	ER25	.039-.629"	025-SPAN	5.00"	1.181"	1.654"
HSK63A-ER32-4.00	HSK63A	ER32	.078-.787"	032-SPAN	4.00"	1.260"	1.969"
HSK63A-ER32-6.00	HSK63A	ER32	.078-.787"	032-SPAN	6.00"	1.260"	1.969"
HSK63A-ER40-4.00	HSK63A	ER40	.118-1.023"	040-SPAN	4.00"	1.496"	2.480"
HSK63A-ER40-6.00	HSK63A	ER40	.118-1.023"	040-SPAN	6.00"	1.496"	2.480"



HSK100A

Part Number	Taper	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
HSK100A-ER16-4.00	HSK100A	ER16	.019-.393"	016-SPAN	4.00"	0.866"	1.260"
HSK100A-ER16-6.00	HSK100A	ER16	.019-.393"	016-SPAN	6.00"	0.866"	1.260"
HSK100A-ER20-4.00	HSK100A	ER20	.039-.511"	020-SPAN	4.00"	1.062"	1.378"
HSK100A-ER20-6.00	HSK100A	ER20	.039-.511"	020-SPAN	6.00"	1.062"	1.378"
HSK100A-ER25-4.00	HSK100A	ER25	.039-.629"	025-SPAN	4.00"	1.181"	1.654"
HSK100A-ER25-6.00	HSK100A	ER25	.039-.629"	025-SPAN	6.00"	1.181"	1.654"
HSK100A-ER32-4.00	HSK100A	ER32	.078-.787"	032-SPAN	4.00"	1.260"	1.969"
HSK100A-ER32-6.00	HSK100A	ER32	.078-.787"	032-SPAN	6.00"	1.260"	1.969"
HSK100A-ER40-4.00	HSK100A	ER40	.118-1.023"	040-SPAN	4.00"	1.496"	2.480"
HSK100A-ER40-6.00	HSK100A	ER40	.118-1.023"	040-SPAN	6.00"	1.496"	2.480"



Note: Coolant tube and coolant wrench not included. See page 55 for details.



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



ER Back Up Screw
Page 55







ER Nut
Page 54

NMTB and R8 ER Collet Chucks



- Ball bearing nut with ground collet race
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw

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

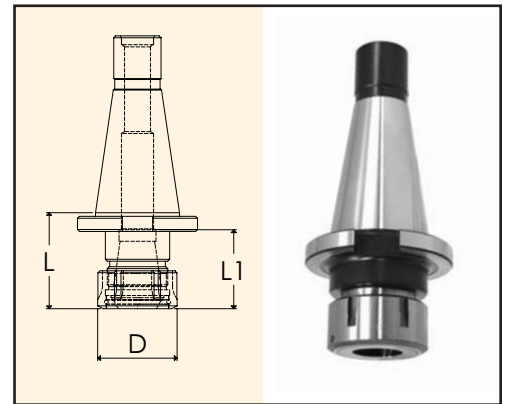
-  **TIR:** < .0001 at collet face
-  **Speed:** up to 23,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tool coolant

-  **Drilling**
★★★★☆
-  **Milling**
★★★★☆
-  **Reaming**
★★★★☆
-  **Tapping**
★★★★☆



NMTB30/40/50

Part Number	Taper	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
N3007-0011-2.00	NMTB30	ER11	.019-.275"	011-HEX	2.00"	0.65"	0.75"
N3007-0016-1.77	NMTB30	ER16	.019-.406"	016-SPAN	1.77"	0.87"	1.26"
N4007-0011-2.00	NMTB40	ER11	.019-.275"	011-HEX	2.00"	0.65"	0.75"
N4007-0016-1.77	NMTB40	ER16	.019-.406"	016-SPAN	1.77"	0.87"	1.26"
N4007-0025-2.00	NMTB40	ER25	.039-.629"	025-SPAN	2.00"	1.18"	1.65"
N5007-0016-2.00	NMTB50	ER16	.019-.406"	016-SPAN	2.00"	0.87"	1.26"
N5007-0025-2.00	NMTB50	ER25	.039-.629"	025-SPAN	2.00"	1.18"	1.65"

NMTB shanks are suitable for use with Erickson QC spindles.



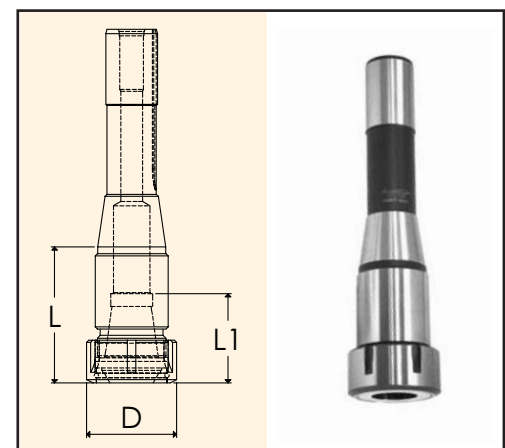
R8

Part Number	Collet Size 	Collet Range	Nut Wrench 	L	L1	D
R8007-0016-1.00	ER16	.019-.406"	016-SPAN	1.00"	2.83"	1.25"
R8007-0020-2.00	ER20	.039-.511"	020-SPAN	2.00"	1.50"	1.38"
R8007-0025-2.50	ER25	.039-.629"	025-SPAN	2.50"	1.64"	1.66"

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



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.



Accessories:



ER Collets
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ER Torque Wrench
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ER Back Up Screw
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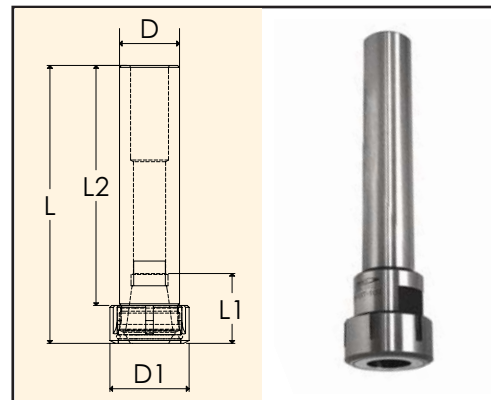


ER Nut
Page 54

ER Collet Chuck Extensions

Part Number	Collet Size 	Collet Range	Nut Wrench 	D	D1	L	L1	L2
ER8-EXT-500	ER8	.019-.196"	08-NASPAN	1/2"	0.47"	5.95"	0.75"	5.00"
ER8-EXT-625	ER8	.019-.196"	08-NASPAN	5/8"	0.47"	5.95"	0.75"	5.00"
E11-EXT-500	ER11	.019-.275"	011-HEX	1/2"	0.75"	5.65"	0.91"	5.00"
E11-EXT-625	ER11	.019-.275"	011-HEX	5/8"	0.75"	5.65"	0.91"	5.00"
E11-EXT-750	ER11	.019-.275"	011-HEX	3/4"	0.75"	5.65"	0.91"	5.00"
E16-EXT-100	ER16	.019-.406"	016-SPAN	1"	1.26"	5.89"	1.28"	5.00"
E16-EXT-625	ER16	.019-.406"	016-SPAN	5/8"	1.26"	5.89"	1.28"	5.00"
E16-EXT-750	ER16	.019-.406"	016-SPAN	3/4"	1.26"	5.89"	1.28"	5.00"
E20-EXT-100	ER20	.039-.511"	020-SPAN	1"	1.38"	6.40"	1.48"	5.00"
E20-EXT-125	ER20	.039-.511"	020-SPAN	1-1/4"	1.38"	6.40"	1.48"	5.00"
E20-EXT-750	ER20	.039-.511"	020-SPAN	3/4"	1.38"	6.40"	1.48"	5.00"
E25-EXT-100	ER25	.039-.629"	025-SPAN	1"	1.65"	6.00"	1.65"	5.00"
E25-EXT-125	ER25	.039-.629"	025-SPAN	1-1/4"	1.65"	6.00"	1.65"	5.00"
E25-EXT-750	ER25	.039-.629"	025-SPAN	3/4"	1.65"	6.00"	1.65"	5.00"
E32-EXT-100	ER32	.078-.787"	032-SPAN	1"	1.97"	7.09"	1.85"	5.00"
E32-EXT-125	ER32	.078-.787"	032-SPAN	1-1/4"	1.97"	7.09"	1.85"	5.00"

Please note that ER16 Collet Chuck Extensions use a ER11-3 back up screw.
Note: ER Collet Chucks come with back-up screw.



When removing the back-up screw, ER Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See ER Coolant Collets on pages 46 - 51.

High-Speed Balanceable ER Collet Chucks

Balanceable ER Collet Chucks are available in CAT and BT taper styles. Part numbers are identical to standard ER Collet Chuck part numbers except that there is a "B" at the end. (Ex: C4007-008-2.50**B**)

- 30 and 40 taper toolholders are prebalanced to G2.5 or better at 24,000 RPM
- 50 taper toolholders are prebalanced to G2.5 or better at 15,000 RPM
- Lyndex-Nikken uses a Patented Balancing Method which allows greater compensation necessary for extremely high RPM applications.
- hSBalance™ toolholders come with a printout of actual balance condition
- hSBalance™ toolholders need to be used with balance-qualified pull studs
- A balancing machine is required to balance or re-balance toolholders



CAT40 hSBalance™ ER Collet Chuck



CAT40 hSBalance™ ER Collet Chuck - DIN

Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



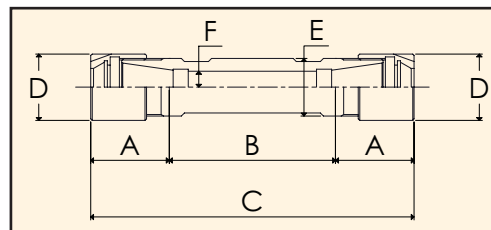
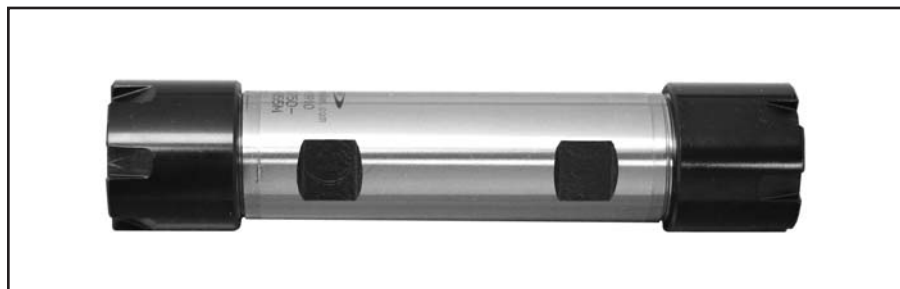
ER Back Up Screw
Page 55



ER Nut
Page 54

ER Straight Shank

DOUBLE ENDED straight shank with flat and mini-style Hi-Q nut



Part Number	ER Size	Nut style	Shank Type	A mm (inch)	B mm (inch)	C mm (inch)	Nut Dia. D mm (inch)	Shank Dia. E mm (inch)	F mm (inch)	Machine
SDF-0625-ER08-015M	ER8	Mini	With Flat	15 (.591")	15 (.591")	45 (1.772")	12 (.472")	15.875 (.625")	2.6 (.102")	☼
SDF-0625-ER08-025M	ER8	Mini	With Flat	15 (.591")	25 (.984")	55 (2.165")	12 (.472")	15.875 (.625")	2.6 (.102")	☼
SDF-0016-ER11-050M	ER11	Mini	With Flat	20 (.787")	50 (1.969")	90 (3.543")	16 (.630")	16 (.630")	3.75 (.148")	★
SDF-0750-ER11-040M	ER11	Mini	With Flat	20 (.787")	40 (1.575")	80 (3.150")	16 (.630")	19.05 (.750")	3.75 (.148")	X
SDF-0750-ER11-070M	ER11	Mini	With Flat	20 (.787")	70 (2.756")	110 (4.331")	16 (.630")	19.05 (.750")	3.75 (.148")	X
SDF-0750-ER11-090M	ER11	Mini	With Flat	20 (.787")	90 (3.543")	130 (5.118")	16 (.630")	19.05 (.750")	3.75 (.148")	X
SDF-0020-ER11-030M	ER11	Mini	With Flat	20 (.787")	30 (1.181")	70 (2.756")	16 (.630")	20 (.787")	3.75 (.148")	□
SDF-0020-ER11-050M	ER11	Mini	With Flat	20 (.787")	50 (1.969")	90 (3.543")	16 (.630")	20 (.787")	3.75 (.148")	□
SDF-0750-ER16-055M	ER16	Mini	With Flat	26 (1.024")	55 (2.165")	107 (4.213")	22 (.866")	19.05 (.750")	5.25 (.207")	X
SDF-0020-ER16-055M	ER16	Mini	With Flat	26 (1.024")	55 (2.165")	107 (4.213")	22 (.866")	20 (.787")	5.25 (.207")	□
SDF-0022-ER16-055M	ER16	Mini	With Flat	28 (1.102")	55 (2.165")	111 (4.370")	22 (.866")	22 (.866")	5.25 (.207")	★, □
SDF-0022-ER16-075M	ER16	Mini	With Flat	28 (1.102")	75 (2.953")	131 (5.157")	22 (.866")	22 (.866")	5.25 (.207")	★, □
SDF-0025-ER16-062M	ER16	Mini	With Flat	28 (1.102")	62 (2.441")	118 (4.646")	22 (.866")	25 (.984")	5.25 (.207")	☼
SDF-1000-ER16-062M	ER16	Mini	With Flat	28 (1.102")	62 (2.441")	118 (4.646")	22 (.866")	25.4 (1.00")	5.25 (.207")	○
SDF-0032-ER20-055M	ER20	Mini	With Flat	28 (1.102")	55 (2.165")	111 (4.370")	28 (1.102")	32 (1.260")	6.75 (.266")	various
SDF-0032-ER20-075M	ER20	Mini	With Flat	28 (1.102")	75 (2.953")	131 (5.157")	28 (1.102")	32 (1.260")	6.75 (.266")	various

Machine Key: Citizen - X, Miyano - ○, Tsugami - □, Star - ★, Tornos - ☼

ER Straight Shank Application Examples



Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



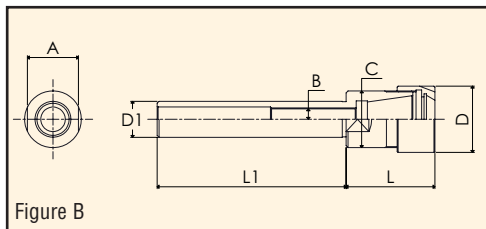
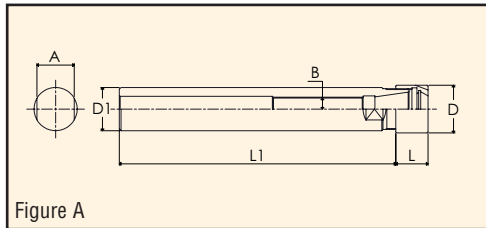
ER Back Up Screw
Page 55



ER Nut
Page 54

ER Straight Shank

SINGLE ENDED straight shank with mini style Hi-Q nut



Part Number	ER Size	Nut style	Shank Type	A mm(inch)	B Dia. mm(inch)	C mm(inch)	Shank Dia. D1 mm(inch)	Nut Dia. D mm(inch)	L1 mm(inch)	L mm(inch)	Fig.	Machine
SS-0008-ER08-080M	ER8	Mini	Round	8 (.315")	3 (.118")	10 (.394")	8 (.315")	12 (.472")	80 (3.150")	26 (1.024")	B	various
SS-0375-ER08-070M	ER8	Mini	Round	8 (.315")	M5 thread	10 (.394")	9.52 (.375")	12 (.472")	70 (2.756")	23 (.906")	B	X
SS-0012-ER08-080M	ER8	Mini	Round	10 (.394")	5.2 (.205")	-	12 (.472")	12 (.472")	86.2 (3.394")	10.8 (.425")	A	various
SS-0006-ER11-045M	ER11	Mini	Round	11 (.433")	-	13 (.512")	6 (.236")	16 (.630")	45 (1.772")	26.5 (1.043")	B	various
SS-0007-ER11-045M	ER11	Mini	Round	11 (.433")	-	13 (.512")	7 (.276")	16 (.630")	45 (1.772")	26.5 (1.043")	B	various
SS-0008-ER11-055M	ER11	Mini	Round	11 (.433")	4 (.157")	13 (.512")	8 (.315")	16 (.630")	56 (2.205")	26.5 (1.043")	B	various
SS-0500-ER11-140M	ER11	Mini	Round	11 (.433")	M6 thread	13 (.512")	12.7 (.500")	16 (.630")	140 (5.512")	29.5 (1.161")	B	various
SS-0625-ER11-150M	ER11	Mini	Round	14 (.551")	M8 P1 thread	-	15.875 (.625")	16 (.630")	160.5 (6.319")	12 (.472")	A	☼
SS-0016-ER11-150M	ER11	Mini	Round	14 (.551")	M8 P1 thread	-	16 (.630")	16 (.630")	159 (6.260")	12 (.472")	A	★
SS-0010-ER16-060M	ER16	Mini	Round	17 (.669")	5.2 (.205")	19 (.748")	10 (.394")	22 (.866")	60 (2.362")	38.5 (1.516")	B	various
SS-0012-ER16-080M	ER16	Mini	Round	17 (.669")	7 (.276")	19 (.748")	12 (.472")	22 (.866")	80 (3.150")	38.5 (1.516")	B	various
SS-0500-ER16-140M	ER16	Mini	Round	17 (.669")	M6 thread	19 (.748")	12.7 (.500")	22 (.866")	140 (5.512")	37 (1.457")	B	various
SS-0750-ER16-155M	ER16	Mini	Round	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	163 (6.417")	18.5 (.728")	A	X
SS-0020-ER16-155M	ER16	Mini	Round	17 (.669")	M12 P1 thread	-	20 (.787")	22 (.866")	163 (6.417")	18.5 (.728")	A	□
SS-0015-ER20-100M	ER20	Mini	Round	22 (.866")	8.5 (.335")	24 (.945")	15 (.591")	28 (1.102")	100 (3.937")	42.5 (1.673")	B	various
SS-0016-ER20-100M	ER20	Mini	Round	22 (.866")	8.5 (.335")	24 (.945")	16 (.630")	28 (1.102")	100 (3.937")	42.5 (1.673")	B	★
SS-0025-ER20-155M	ER20	Mini	Round	22 (.866")	M14 P1 thread	-	25 (.984")	28 (1.102")	162.5 (6.398")	19 (.748")	A	☼
SS-1000-ER20-155M	ER20	Mini	Round	22 (.866")	M14 P1 thread	-	25.4 (1.00")	28 (1.102")	162.5 (6.398")	19 (.748")	A	X, ○
SS-0750-ER25-100M	ER25	Mini	Round	27 (1.063")	M12 P1 thread	30 (1.181")	19.05 (.750")	35 (1.378")	100 (3.937")	47 (1.850")	B	X

Machine Key: Citizen - X, Miyano - ○, Tsugami - □, Star - ★, Tornos - ☼

Accessories:



ER Collets
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ER Torque Wrench
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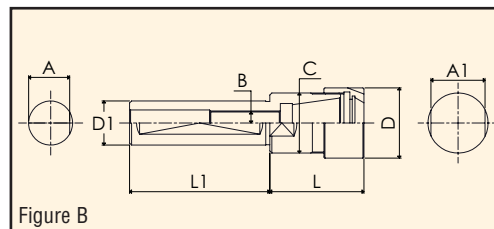
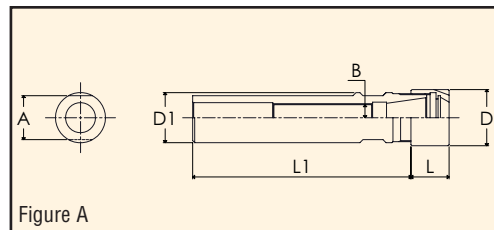
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ER Straight Shank

SINGLE ENDED straight shank with flat and mini style Hi-Q nut



Part Number	ER Size	Shank Type	A /A1 mm (inch)	B dia. mm(inch)	C mm(inch)	Shank Dia. D1 mm(inch)	Nut Dia. D mm(inch)	L1 mm(inch)	L mm(inch)	Fig.	Machine
SSF-0625-ER08-043M	ER8	w/Flat	14 (.551")	M5 thread	-	15.875 (.625")	12 (.472")	47.2 (1.858")	10.8 (.425")	A	⊗
SSF-0016-ER11-038M	ER11	w/Flat	14 (.551")	M8 P1 thread	-	16 (.630")	16 (.630")	46(1.811")	12 (.472")	A	★
SSF-0016-ER11-140M	ER11	w/Flat	14 (.551")	M8 P1 thread	-	16 (.630")	16 (.630")	148 (5.827")	12 (.472")	A	★
SSF-0750-ER11-115M	ER11	w/Flat	17 (.669")	M8 P1 thread	-	19.05 (.750")	16 (.630")	123 (4.843")	12 (.472")	A	X
SSF-0016-ER16-035M	ER16	w/Flat	15/17 (.591"/.669")	M8 P1 thread	19 (.748")	16 (.630")	22 (.866")	35 (1.378")	28 (1.102")	B	★
SSF-0750-ER16-038M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	47.5 (1.870")	18.5 (.728")	A	X
SSF-0750-ER16-050M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	59.5 (2.343")	18.5 (.728")	A	X
SSF-0750-ER16-070M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	79.5 (3.130")	18.5 (.728")	A	X
SSF-0750-ER16-120M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	129.5 (5.098")	18.5 (.728")	A	X
SSF-0750-ER16-140M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	19.05 (.750")	22 (.866")	149.5 (5.886")	18.5 (.728")	A	X
SSF-0020-ER16-050M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	20 (.787")	22 (.866")	59.5 (2.343")	18.5 (.728")	A	□
SSF-0020-ER16-070M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	20 (.787")	22 (.866")	79.5 (3.130")	18.5 (.728")	A	□
SSF-0020-ER16-120M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	20 (.787")	22 (.866")	129.5 (5.098")	18.5 (.728")	A	□
SSF-0020-ER16-140M	ER16	w/Flat	17 (.669")	M12 P1 thread	-	20 (.787")	22 (.866")	149.5 (5.886")	18.5 (.728")	A	□
SSF-0022-ER16-038M	ER16	w/Flat	19 (.748")	M12 P1 thread	-	22 (.866")	22 (.866")	47.5 (1.870")	18.5 (.728")	A	★, □
SSF-0022-ER16-070M	ER16	w/Flat	19 (.748")	M12 P1 thread	-	22 (.866")	22 (.866")	79.5 (3.130")	18.5 (.728")	A	★, □
SSF-0022-ER16-100M	ER16	w/Flat	19 (.748")	M12 P1 thread	-	22 (.866")	22 (.866")	109.5 (4.311")	18.5 (.728")	A	★, □
SSF-0025-ER16-065M	ER16	w/Flat	22 (.866")	M12 P1 thread	-	25 (.984")	22 (.866")	74.5 (2.933")	18.5 (.728")	A	⊗
SSF-1000-ER16-065M	ER16	w/Flat	22 (.866")	M12 P1 thread	-	25.4 (1.00")	22 (.866")	74.5 (2.933")	18.5 (.728")	A	X, ○
SSF-1000-ER16-075M	ER16	w/Flat	22 (.866")	M12 P1 thread	-	25.4 (1.00")	22 (.866")	84.5 (3.327")	18.5 (.728")	A	X, ○
SSF-1000-ER16-100M	ER16	w/Flat	22 (.866")	M12 P1 thread	-	25.4 (1.00")	22 (.866")	109.5 (4.311")	18.5 (.728")	A	X, ○
SSF-0022-ER20-080M	ER20	w/Flat	20.5/22 (.807"/.866")	M12 P1 thread	24 (.945")	22 (.866")	28 (1.102")	80 (3.150")	39 (1.535")	B	★, □
SSF-0025-ER20-100M	ER20	w/Flat	22 (.866")	M14 P1 thread	-	25 (.984")	28 (1.102")	109 (4.291")	19 (.748")	A	⊗
SSF-0025-ER20-154M	ER20	w/Flat	22 (.866")	M14 P1 thread	-	25 (.984")	28 (1.102")	163 (6.417")	19 (.748")	A	⊗
SSF-1000-ER20-100M	ER20	w/Flat	22 (.866")	M14 P1 thread	-	25.4 (1.00")	28 (1.102")	109 (4.291")	19 (.748")	A	X, ○
SSF-1000-ER20-140M	ER20	w/Flat	22 (.866")	M14 P1 thread	-	25.4 (1.00")	28 (1.102")	149 (5.866")	19 (.748")	A	X, ○
SSF-0022-ER25-070M	ER25	w/Flat	20.5/27 (.807"/1.063")	M14 P1 thread	30 (1.181")	22 (.866")	35 (1.378")	70 (2.756")	47 (1.850")	B	★, □
SSF-0025-ER25-075M	ER25	w/Flat	23.5/27 (.925"/1.063")	M14 P1 thread	30 (1.181")	25 (.984")	35 (1.378")	75 (2.953")	47 (1.850")	B	⊗
SSF-0025-ER25-145M	ER25	w/Flat	23.5/27 (.925"/1.063")	M14 P1 thread	30 (1.181")	25 (.984")	35 (1.378")	145 (5.709")	36 (1.417")	B	⊗
SSF-0032-ER25-070M	ER25	w/Flat	27 (1.063")	M18 P1.5 thread	-	32 (1.260")	35 (1.378")	80 (3.150")	20 (.787")	A	various

Accessories:

Machine Key: Citizen - X, Miyano - ○, Tsugami - □, Star - ★, Tornos - ⊗



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ER Torque Wrench
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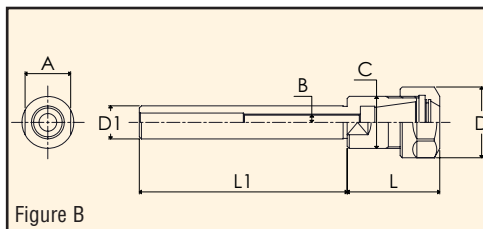
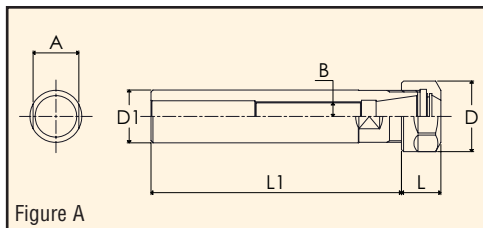
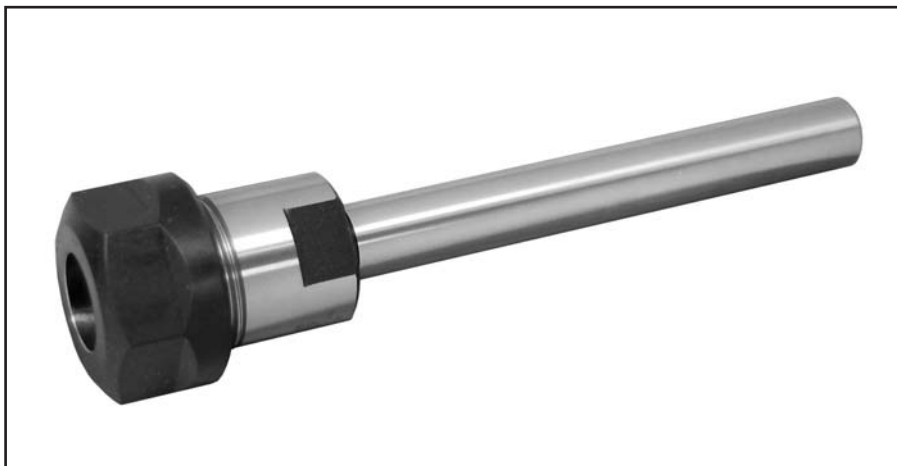
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ER Straight Shank

SINGLE ENDED straight shank with standard Hi-Q nut



Part Number	ER Size	Shank Type	A /A1 mm (inch)	B dia. mm(inch)	C mm(inch)	Shank Dia.D1 mm(inch)	Nut Dia.D mm(inch)	L1 mm(inch)	L mm(inch)	Fig.	Machine
SS-0500-ER11-070	ER11	Round	11 (.433")	M6 thread	14 (.551")	12.7 (.500")	19 (.748")	70 (2.756")	28.5 (1.122")	B	various
SS-0500-ER16-100	ER16	Round	19 (.748")	M6 thread	22 (.866")	12.7 (.500")	28 (1.102")	100 (3.937")	36 (1.417")	B	various
SS-0014-ER16-060	ER16	Round	19 (.748")	M6 thread	22 (.866")	14 (.551")	28 (1.102")	60 (2.362")	36.5 (1.437")	B	various
SS-0625-ER16-060	ER16	Round	19 (.748")	M8 P1 thread	22 (.866")	15.875 (.625")	28 (1.102")	60 (2.362")	36.5 (1.437")	B	☆
SS-0016-ER16-060	ER16	Round	19 (.748")	M8 P1 thread	22 (.866")	16 (.630")	28 (1.102")	60 (2.362")	36.5 (1.437")	B	various
SS-0750-ER16-050	ER16	Round	19 (.748")	M12 P1 thread	22 (.866")	19.05 (.750")	28 (1.102")	50 (1.969")	30.5 (1.201")	B	X
SS-0750-ER16-100	ER16	Round	19 (.748")	M12 P1 thread	22 (.866")	19.05 (.750")	28 (1.102")	100 (3.937")	30.5 (1.201")	B	X
SS-0020-ER16-050	ER16	Round	19 (.748")	M12 P1 thread	22 (.866")	20 (.787")	28 (1.102")	50 (1.969")	30.5 (1.201")	B	□
SS-0020-ER16-100	ER16	Round	19 (.748")	M12 P1 thread	22 (.866")	20 (.787")	28 (1.102")	100 (3.937")	30.5 (1.201")	B	□
SS-0500-ER20-100	ER20	Round	22 (.866")	M6 thread	25 (.984")	12.7 (.500")	34 (1.339")	100 (3.937")	44.5 (1.752")	B	various
SS-0625-ER20-100	ER20	Round	22 (.866")	M8 P1 thread	25 (.984")	15.875 (.625")	34 (1.339")	100 (3.937")	44.5 (1.752")	B	☆
SS-0750-ER20-060	ER20	Round	22 (.866")	M12 P1 thread	25 (.984")	19.05 (.750")	34 (1.339")	60 (2.362")	36.5 (1.437")	B	X
SS-0020-ER20-030	ER20	Round	22 (.866")	M12 P1 thread	25 (.984")	20 (.787")	34 (1.339")	30 (1.181")	36.5 (1.437")	B	□
SS-0020-ER20-060	ER20	Round	22 (.866")	M12 P1 thread	25 (.984")	20 (.787")	34 (1.339")	60 (2.362")	36.5 (1.437")	B	□
SS-1000-ER20-100	ER20	Round	22 (.866")	M14 P1 thread	-	25.4 (1.00")	34 (1.339")	120.5 (4.744")	19 (.748")	A	various
SS-0750-ER25-050	ER25	Round	27 (1.063")	M12 P1 thread	32 (1.260")	19.05 (.750")	42 (1.654")	50 (1.969")	47 (1.850")	B	X
SS-0020-ER25-050	ER25	Round	27 (1.063")	M12 P1 thread	32 (1.260")	20 (.787")	42 (1.654")	50 (1.969")	47 (1.850")	B	□
SS-0020-ER25-100	ER25	Round	27 (1.063")	M12 P1 thread	32 (1.260")	20 (.787")	42 (1.654")	100 (3.937")	47 (1.850")	B	□
SS-0025-ER25-050	ER25	Round	27 (1.063")	M18 P1.5 thread	32 (1.260")	25 (.984")	42 (1.654")	50 (1.969")	47 (1.850")	B	☆
SS-0025-ER25-100	ER25	Round	27 (1.063")	M18 P1.5 thread	32 (1.260")	25 (.984")	42 (1.654")	100 (3.937")	47 (1.850")	B	☆
SS-1000-ER25-050	ER25	Round	27 (1.063")	M18 P1.5 thread	32 (1.260")	25.4 (1.00")	42 (1.654")	50 (1.969")	47 (1.850")	B	X, ○
SS-1000-ER25-100	ER25	Round	27 (1.063")	M18 P1.5 thread	32 (1.260")	25.4 (1.00")	42 (1.654")	100 (3.937")	47 (1.850")	B	X, ○
SS-0030-ER25-050	ER25	Round	27 (1.063")	M18 P1.5 thread	32 (1.260")	30 (1.181")	42 (1.654")	50 (1.969")	42 (1.654")	B	various
SS-0020-ER32-050	ER32	Round	36 (1.417")	M12 P1 thread	40 (1.575")	20 (.787")	50 (1.969")	50 (1.969")	54 (2.126")	B	□
SS-0020-ER32-100	ER32	Round	36 (1.417")	M12 P1 thread	40 (1.575")	20 (.787")	50 (1.969")	100 (3.937")	54 (2.126")	B	□
SS-0025-ER32-050	ER32	Round	36 (1.417")	M18 P1.5 thread	40 (1.575")	25 (.984")	50 (1.969")	50 (1.969")	54 (2.126")	B	☆
SS-1000-ER32-050	ER32	Round	36 (1.417")	M18 P1.5 thread	40 (1.575")	25.4 (1.00")	50 (1.969")	50 (1.969")	53 (2.087")	B	X, ○
SS-0030-ER32-050	ER32	Round	36 (1.417")	M22 P1.5 thread	40 (1.575")	30 (1.181")	50 (1.969")	50 (1.969")	53 (2.087")	B	various
SS-1250-ER32-060	ER32	Round	36 (1.417")	M22 P1.5 thread	40 (1.575")	31.75 (1.25")	50 (1.969")	60 (2.362")	53 (2.087")	B	□
SS-0025-ER40-050	ER40	Round	45 (1.772")	M18 P1.5 thread	50 (1.969")	25 (.984")	63 (2.480")	50 (1.969")	60 (2.362")	B	☆
SS-1000-ER40-050	ER40	Round	45 (1.772")	M18 P1.5 thread	50 (1.969")	25.4 (1.00")	63 (2.480")	50 (1.969")	60 (2.362")	B	X, ○

Machine Key: Citizen - X, Miyano - ○, Tsugami - □, Star - ☆, Tornos - ☆

Accessories:



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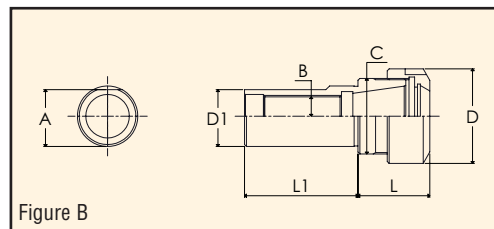
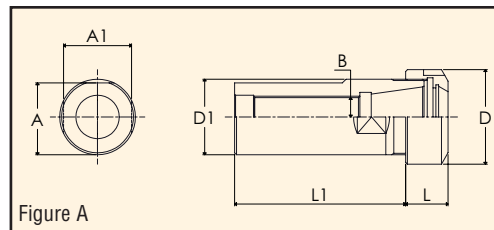
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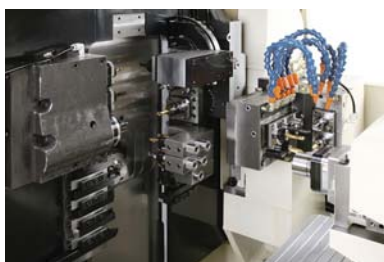
SINGLE ENDED straight shank with flat and standard Hi-Q nut



Part Number	ER Size	Nut style Shank	Shank Type	A/A1 mm (inch)	B dia. mm (inch)	C mm (inch)	Shank dia. D1 mm (inch)	Nut dia. D mm (inch)	L1 mm (inch)	L mm (inch)	Fig.	Machine
SSF-0032-ER25-060	ER25	Std	w/Flat	30 (1.181")	M18 P1.5 thread	-	32	42 (1.654")	72 (2.835")	20 (.787")	A	various
SSF-0032-ER32-060	ER32	Std	w/Flat	30 (1.181")	M22 P1.5 thread	40 (1.575")	32	50 (1.969")	60 (2.362")	38 (1.496")	B	various
SSF-0040-ER32-080	ER32	Std	w/Flat	38/36 (1.496"/1.417")	M22 P1.5 thread	-	40	50 (1.969")	90.5 (3.563")	22.5 (.886")	A	various
SSF-0040-ER40-075	ER40	Std	w/Flat	38/44 (1.496"/1.732")	M22 P1.5 thread	50 (1.969")	40	63 (2.480")	75 (2.953")	55 (2.165")	B	various

Machine Key: Citizen - X, Miyano - O, Tsugami - □, Star - ★, Tornos - ⚙

ER Straight Shank Application Examples



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ER Back Up Screw
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ER8 and ER11 Collets

ER8 Collets

Size range: 1.0mm-5.0mm (0.019"-0.196")

METRIC		
Part Number	Size	Collapse Range
ER8-039	1.0mm	1.0-0.5mm
ER8-059	1.5mm	1.5-1.0mm
ER8-078	2.0mm	2.0-1.5mm
ER8-098	2.5mm	2.5-2.0mm
ER8-118	3.0mm	3.0-2.5mm
ER8-137	3.5mm	3.5-3.0mm
ER8-157	4.0mm	4.0-3.5mm
ER8-177	4.5mm	4.5-4.0mm
ER8-196	5.0mm	5.0-4.5mm
ER8-09S	9 Pieces Set 0.5mm - 5.0mm by 0.5mm	



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 1000PSI.

ER11 Collets

Size range: 1/32" - 17/64"

Size range: 1.0mm-7.0mm
(0.019"-0.275")

Size range: 3/16" - 17/64"

Size range: 4.0mm-7.0mm

INCH		
Part Number	Size	Collapse Range
E11-002	1/32"	.031-.027"
E11-003	3/64"	.047-.031"
E11-004	1/16"	.063-.047"
E11-005	5/64"	.078-.063"
E11-006	3/32"	.094-.078"
E11-007	7/64"	.109-.094"
E11-008	1/8"	.125-.109"
E11-009	9/64"	.141-.125"
E11-010	5/32"	.156-.141"
E11-011	11/64"	.172-.156"
E11-012	3/16"	.187-.172"
E11-013	13/64"	.203-.187"
E11-014	7/32"	.219-.203"
E11-015	15/64"	.234-.219"
E11-016	1/4"	.250-.234"
E11-017	17/64"	.266-.250"

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

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range
-	1/32"	-
-	3/64"	-
-	1/16"	-
-	5/64"	-
-	3/32"	-
-	7/64"	-
-	1/8"	-
-	9/64"	-
-	5/32"	-
-	11/64"	-
E11-012(C)	3/16"	.187" - .183"
E11-013(C)	13/64"	.203" - .199"
E11-014(C)	7/32"	.218" - .214"
E11-015(C)	15/64"	.234" - .230"
E11-016(C)	1/4"	.250" - .246"
E11-017(C)	17/64"	.265" - .261"

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range
-	1.0mm	-
-	1.5mm	-
-	2.0mm	-
-	-	-
-	2.5mm	-
-	3.0mm	-
-	3.5mm	-
E11-157(C)	4.0mm	4.0mm - 3.5mm
E11-177(C)	4.5mm	4.5mm - 4.0mm
E11-196(C)	5.0mm	5.0mm - 4.5mm
E11-216(C)	5.5mm	5.5mm - 5.0mm
E11-236(C)	6.0mm	6.0mm - 5.5mm
E11-255(C)	6.5mm	6.5mm - 6.0mm
E11-275(C)	7.0mm	7.0mm - 6.5mm

ER11 Collets Sets

E11-14S	14 Piece Set 1/16" - 1/4" by 64ths
E11-12S	12 Piece Set 1.0mm - 7.0mm by 0.5mm

ER11 Coolant Collets Sets

E11-6S(C)	6 Piece Set 3/16" - 17/64" by 64ths
E11-7S(C)	7 Piece Set 3.9mm - 7.0mm by 0.5mm

ER16 Collets



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 1000PSI.

Size range: 1/32" - 13/32"

Size range: 1.0mm - 10.0mm
(0.039"-0.393")

Size range: 3/32" - 13/32"

Size range: 4.0mm-10.0mm
(0.157"-0.393")

INCH		
Part Number	Size	Collapse Range

E16-002	1/32"	.031" - .027"
E16-004	1/16"	.063" - .047"
E16-006	3/32"	.094" - .078"
-	7/64"	-
E16-008	1/8"	.125" - .109"
-	9/64"	-
E16-010	5/32"	.156" - .125"
-	11/64"	-
E16-012	3/16"	.187" - .156"
-	13/64"	-
E16-014	7/32"	.219" - .187"
-	15/64"	-
E16-016	1/4"	.250" - .219"
-	17/64"	-
E16-018	9/32"	.281" - .250"
-	19/64"	-
E16-020	5/16"	.312" - .281"
-	21/64"	-
E16-022	11/32"	.344" - .312"
-	23/64"	-
E16-024	3/8"	.375" - .344"
-	25/64"	-
E16-026	13/32"	.406" - .375"

METRIC		
Part Number	Size	Collapse Range

E16-039	1.0mm	1.0-0.5mm
E16-059	1.5mm	1.5-1.0mm
E16-078	2.0mm	2.0-1.5mm
E16-098	2.5mm	2.5-2.0mm
E16-118	3.0mm	3.0-2.5mm
E16-137	3.5mm	3.5-3.0mm
E16-157	4.0mm	4.0-3.5mm
E16-177	4.5mm	4.5-4.0mm
E16-196	5.0mm	5.0-4.5mm
E16-216	5.5mm	5.5-5.0mm
E16-236	6.0mm	6.0-5.5mm
E16-255	6.5mm	6.5-6.0mm
E16-275	7.0mm	7.0-6.5mm
E16-295	7.5mm	7.5-7.0mm
E16-314	8.0mm	8.0-7.5mm
E16-334	8.5mm	8.5-8.0mm
E16-354	9.0mm	9.0-8.5mm
E16-374	9.5mm	9.5-9.0mm
E16-393	10.0mm	10.0-9.5mm

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range

-	1/32"	-
-	1/16"	-
E16-006(C)	3/32"	.094" - .089"
E16-007(C)	7/64"	.109" - .105"
E16-008(C)	1/8"	.125" - .121"
E16-009(C)	9/64"	.140" - .136"
E16-010(C)	5/32"	.156" - .152"
E16-011(C)	11/64"	.171" - .167"
E16-012(C)	3/16"	.187" - .183"
E16-013(C)	13/64"	.203" - .199"
E16-014(C)	7/32"	.219" - .203"
E16-015(C)	15/64"	.234" - .219"
E16-016(C)	1/4"	.250" - .234"
E16-017(C)	17/64"	.266" - .250"
E16-018(C)	9/32"	.281" - .266"
E16-019(C)	19/64"	.297" - .281"
E16-020(C)	5/16"	.312" - .297"
E16-021(C)	21/64"	.328" - .312"
E16-022(C)	11/32"	.344" - .328"
E16-023(C)	23/64"	.359" - .344"
E16-024(C)	3/8"	.375" - .359"
E16-025(C)	25/64"	.391" - .375"
E16-026(C)	13/32"	.406" - .391"

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range

-	1.0mm	-
-	1.5mm	-
-	2.0mm	-
-	2.5mm	-
-	3.0mm	-
-	3.5mm	-
E16-157(C)	4.0mm	4.0mm - 3.5mm
E16-177(C)	4.5mm	4.5mm - 4.0mm
E16-196(C)	5.0mm	5.0mm - 4.5mm
E16-216(C)	5.5mm	5.5mm - 5.0mm
E16-236(C)	6.0mm	6.0mm - 5.5mm
E16-255(C)	6.5mm	6.5mm - 6.0mm
E16-275(C)	7.0mm	7.0mm - 6.5mm
E16-295(C)	7.5mm	7.5mm - 7.0mm
E16-314(C)	8.0mm	8.0mm - 7.5mm
E16-334(C)	8.5mm	8.5mm - 8.0mm
E16-354(C)	9.0mm	9.0mm - 8.5mm
E16-374(C)	9.5mm	9.5mm - 9.0mm
E16-393(C)	10.0mm	10.0mm - 9.5mm

ER16 Collets Sets

E16-12S	12 Piece Set 1/32" - 13/32" by 32nds
E16-09S	9 Piece Set 1.0mm - 10.0mm by 1mm

ER16 Coolant Collets Sets

E16-11S(C)	11 Piece Set 3/32" - 13/32" by 32nds
E16-13S(C)	13 Piece Set 4.0mm - 10.0mm by 0.5mm

See dimensional data for ER16 Collets on page 31.

ER20 Collets



Size range: 1/16" - 1/2"

INCH		
Part Number	Size	Collapse Range
E20-004	1/16"	.063" - .047"
E20-006	3/32"	.094" - .078"
E20-008	1/8"	.125" - .109"
E20-010	5/32"	.156" - .125"
-	11/64"	-
E20-012	3/16"	.187" - .156"
-	13/64"	-
E20-014	7/32"	.219" - .187"
-	15/64"	-
E20-016	1/4"	.250" - .219"
-	17/64"	-
E20-018	9/32"	.281" - .250"
-	19/64"	-
E20-020	5/16"	.312" - .281"
-	21/64"	-
E20-022	11/32"	.344" - .312"
-	23/64"	-
E20-024	3/8"	.375" - .344"
-	25/64"	-
E20-026	13/32"	.406" - .375"
-	27/64"	-
E20-028	7/16"	.437" - .406"
-	29/64"	-
E20-030	15/32"	.469" - .437"
-	31/64"	-
E20-032	1/2"	.500" - .469"



Size range: 5/32" - 1/2"

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range
-	1/16"	-
-	3/32"	-
-	1/8"	-
E20-010(C)	5/32"	.156" - .152"
E20-011(C)	11/64"	.172" - .167"
E20-012(C)	3/16"	.187" - .183
E20-013(C)	13/64"	.203" - .199"
E20-014(C)	7/32"	.219" - .203"
E20-015(C)	15/64"	.234" - .219"
E20-016(C)	1/4"	.250" - .234"
E20-017(C)	17/64"	.266" - .250"
E20-018(C)	9/32"	.281" - .266"
E20-019(C)	19/64"	.297" - .281"
E20-020(C)	5/16"	.312" - .297"
E20-021(C)	21/64"	.328" - .312"
E20-022(C)	11/32"	.344" - .328"
E20-023(C)	23/64"	.359" - .344"
E20-024(C)	3/8"	.375" - .359"
E20-025(C)	25/64"	.391" - .375"
E20-026(C)	13/32"	.406" - .391"
E20-027(C)	27/64"	.422" - .406"
E20-028(C)	7/16"	.437" - .422"
E20-029(C)	29/64"	.453" - .437"
E20-030(C)	15/32"	.469" - .453"
E20-031(C)	31/64"	.484" - .469"
E20-032(C)	1/2"	.500" - .484"

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 1000PSI.

Size range: 2.0mm - 13.0mm
(0.039"-0.511")

METRIC		
Part Number	Size	Collapse Range
E20-078	2.0mm	2.0-1.0mm
E20-118	3.0mm	3.0-2.5mm
E20-137	3.5mm	3.5-2.5mm
E20-157	4.0mm	4.0-3.5mm
-	4.5mm	-
E20-196	5.0mm	5.0-4.0mm
-	5.5mm	-
E20-236	6.0mm	6.0-5.0mm
-	6.5mm	-
E20-275	7.0mm	7.0-6.0mm
-	7.5mm	-
E20-314	8.0mm	8.0-7.0mm
-	8.5mm	-
E20-354	9.0mm	9.0-8.0mm
-	9.5mm	-
E20-393	10.0mm	10.0-9.0mm
-	10.5mm	-
E20-433	11.0mm	11.0-10.0mm
E20-452	11.5mm	11.5-11.0mm
E20-472	12.0mm	12.0-11.0mm
-	12.5mm	-
E20-511	13.0mm	13.0-12.0mm

Size range: 5.0mm-13.0mm
(0.196"-0.511")

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range
-	2.0mm	-
-	3.0mm	-
-	3.5mm	-
-	4.0mm	-
-	4.5mm	-
E20-196(C)	5.0mm	5.0mm - 4.5mm
E20-216(C)	5.5mm	5.5mm - 5.0mm
E20-236(C)	6.0mm	6.0mm - 5.5mm
E20-255(C)	6.5mm	6.5mm - 6.0mm
E20-275(C)	7.0mm	7.0mm - 6.5mm
E20-295(C)	7.5mm	7.5mm - 7.0mm
E20-314(C)	8.0mm	8.0mm - 7.5mm
E20-334(C)	8.5mm	8.5mm - 8.0mm
E20-354(C)	9.0mm	9.0mm - 8.5mm
E20-374(C)	9.5mm	9.5mm - 9.0mm
E20-393(C)	10.0mm	10.0mm - 9.5mm
E20-413(C)	10.5mm	10.5mm - 10.0mm
E20-433(C)	11.0mm	11.0mm - 10.5mm
E20-452(C)	11.5mm	11.5mm - 11.0mm
E20-472(C)	12.0mm	12.0mm - 11.5mm
E20-492(C)	12.5mm	12.5mm - 12.0mm
E20-511(C)	13.0mm	13.0mm - 12.5mm

ER20 Collets Sets

E20-15S	15 Piece Set 1/16" - 1/2" by 32nds
E20-11S	11 Piece Set 2.0mm - 13.0mm by 1mm

ER20 Coolant Collets Sets

E20-12S(C)	12 Piece Set 5/32" - 1/2" by 32nds
E20-17S(C)	17 Piece Set 5.0mm - 13.0mm by 0.5mm

See dimensional data for ER20 Collets on page 31.

ER25 Collets



Size range: 1/16" - 5/8"

INCH		
Part Number	Size	Collapse Range
E25-004	1/16"	.063" - .047"
E25-006	3/32"	.094" - .078"
E25-008	1/8"	.125" - .109"
E25-010	5/32"	.156" - .125"
E25-012	3/16"	.187" - .156"
E25-014	7/32"	.218" - .187"
-	15/64"	-
E25-016	1/4"	.250" - .219"
-	17/64"	-
E25-018	9/32"	.281" - .250"
-	19/64"	-
E25-020	5/16"	.312" - .281"
-	21/64"	-
E25-022	11/32"	.344" - .312"
-	23/64"	-
E25-024	3/8"	.375" - .344"
-	25/64"	-
E25-026	13/32"	.406" - .375"
-	27/64"	-
E25-028	7/16"	.437" - .406"
-	29/64"	-
E25-030	15/32"	.469" - .437"
-	31/64"	-
E25-032	1/2"	.500" - .469"
-	33/64"	-
E25-034	17/32"	.531" - .500"
-	35/64"	-
E25-036	9/16"	.563" - .531"
-	37/64"	-
E25-038	19/32"	.594" - .563"
-	39/64"	-
E25-040	5/8"	.625" - .594"

Size range: 2.0mm - 16.0mm
(0.039"-0.629")

METRIC		
Part Number	Size	Collapse Range
E25-078	2.0mm	2.0-1.0mm
E25-118	3.0mm	3.0-2.0mm
E25-137	3.5mm	3.5-2.5mm
E25-157	4.0mm	4.0-3.0mm
E25-196	5.0mm	5.0-4.0mm
E25-236	6.0mm	6.0-5.0mm
E25-275	7.0mm	7.0-6.0mm
E25-314	8.0mm	8.0-7.0mm
E25-354	9.0mm	9.0-8.0 mm
E25-393	10.0mm	10.0-9.0mm
E25-433	11.0mm	11.0-10.0mm
E25-452	11.5mm	11.5-11.0mm
E25-472	12.0mm	12.0-11.0mm
E25-511	13.0mm	13.0-12.0mm
E25-551	14.0mm	14.0-13.0mm
E25-590	15.0mm	15.0-14.0mm
E25-629	16.0mm	16.0-15.0mm



Size range: 7/32" - 5/8"

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range
-	1/16"	-
-	3/32"	-
-	1/8"	-
-	5/32"	-
-	3/16"	-
E25-014(C)	7/32"	.219" - .203"
E25-015(C)	15/64"	.234" - .219"
E25-016(C)	1/4"	.250" - .234"
E25-017(C)	17/64"	.266" - .250"
E25-018(C)	9/32"	.281" - .266"
E25-019(C)	19/64"	.297" - .281"
E25-020(C)	5/16"	.312" - .297"
E25-021(C)	21/64"	.328" - .312"
E25-022(C)	11/32"	.344" - .328"
E25-023(C)	23/64"	.359" - .344"
E25-024(C)	3/8"	.375" - .359"
E25-025(C)	25/64"	.391" - .375"
E25-026(C)	13/32"	.406" - .391"
E25-027(C)	27/64"	.422" - .406"
E25-028(C)	7/16"	.437" - .422"
E25-029(C)	29/64"	.453" - .437"
E25-030(C)	15/32"	.469" - .453"
E25-031(C)	31/64"	.484" - .469"
E25-032(C)	1/2"	.500" - .484"
E25-033(C)	33/64"	.516" - .500"
E25-034(C)	17/32"	.531" - .516"
E25-035(C)	35/64"	.547" - .531"
E25-036(C)	9/16"	.563" - .547"
E25-037(C)	37/64"	.578" - .563"
E25-038(C)	19/32"	.594" - .578"
E25-039(C)	39/64"	.609" - .594"
E25-040(C)	5/8"	.625" - .609"

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 1000PSI.

Size range: 6.0mm-16.0mm
(0.236"-0.629")

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range
-	2.0mm	-
-	3.0mm	-
-	3.5mm	-
-	4.0mm	-
-	5.0mm	-
E25-236(C)	6.0mm	6.0mm - 5.5mm
E25-255(C)	6.5mm	6.5mm - 6.0mm
E25-275(C)	7.0mm	7.0mm - 6.5mm
E25-295(C)	7.5mm	7.5mm - 7.0mm
E25-314(C)	8.0mm	8.0mm - 7.5mm
E25-334(C)	8.5mm	8.5mm - 8.0mm
E25-354(C)	9.0mm	9.0mm - 8.5mm
E25-374(C)	9.5mm	9.5mm - 9.0mm
E25-393(C)	10.0mm	10.0mm - 9.5mm
E25-413(C)	10.5mm	10.5mm - 10.0mm
E25-433(C)	11.0mm	11.0mm - 10.5mm
E25-452(C)	11.5mm	11.5mm - 11.0mm
E25-472(C)	12.0mm	12.0mm - 11.5mm
E25-492(C)	12.5mm	12.5mm - 12.0mm
E25-511(C)	13.0mm	13.0mm - 12.5mm
E25-531(C)	13.5mm	13.5mm - 13.0mm
E25-551(C)	14.0mm	14.0mm - 13.5mm
E25-570(C)	14.5mm	14.5mm - 14.0mm
E25-590(C)	15.0mm	15.0mm - 14.5mm
E25-610(C)	15.5mm	15.5mm - 15.0mm
E25-629(C)	16.0mm	16.0mm - 15.5mm

ER25 Collets Sets

E25-19S	19 Piece Set 1/16" - 5/8" by 32nds
E25-14S	14 Piece Set 2.0mm - 16.0mm by 1mm

ER25 Coolant Collets Sets

E25-13S(C)	13 Piece Set 1/4" - 5/8" by 32nds
E25-21S(C)	21 Piece Set 6.0mm - 16.0mm by 0.5mm

See dimensional data for ER25 Collets on page 31.

ER32 Collets



Size range: 1/8" - 25/32"

Size range: 3.0mm - 20.0mm
(0.078"-0.787")



Size range: 1/4" - 25/32"

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 1000PSI.

Size range: 10.0mm-20.0mm
(0.276"-0.787")

INCH		
Part Number	Size	Collapse Range
-	-	-
E32-008	1/8"	.125" - .109"
E32-010	5/32"	.156" - .125"
E32-012	3/16"	.187" - .156"
E32-014	7/32"	.219" - .187"
E32-016	1/4"	.250" - .219"
-	17/64"	-
E32-018	9/32"	.281" - .250"
-	19/64"	-
E32-020	5/16"	.312" - .281"
-	21/64"	-
E32-022	11/32"	.344" - .312"
-	23/64"	-
E32-024	3/8"	.375" - .344"
-	25/64"	-
E32-026	13/32"	.406" - .375"
-	27/64"	-
E32-028	7/16"	.437" - .406"
-	29/64"	-
E32-030	15/32"	.469" - .437"
-	31/64"	-
E32-032	1/2"	.500" - .469"
-	33/64"	-
E32-034	17/32"	.531" - .500"
-	35/64"	-
E32-036	9/16"	.594" - .563"
-	37/64"	-
E32-038	19/32"	.594" - .562"
-	39/64"	-
E32-040	5/8"	.625" - .594"
-	41/64"	-
E32-042	21/32"	.688" - .656"
-	43/64"	-
E32-044	11/16"	.719" - .688"
-	45/64"	-
E32-046	23/32"	.719" - .687"
-	47/64"	-
E32-048	3/4"	.750" - .719"
-	49/64"	-
E32-050	25/32"	.781" - .750"

METRIC		
Part Number	Size	Collapse Range
E32-118	3.0mm	3.0-2.0mm
E32-137	3.5mm	3.5-2.5mm
E32-157	4.0mm	4.0-3.0mm
E32-196	5.0mm	5.0-4.0mm
E32-236	6.0mm	6.0-5.0mm
E32-275	7.0mm	7.0-6.0mm
E32-314	8.0mm	8.0-7.0mm
E32-354	9.0mm	9.0-8.0mm
E32-393	10.0mm	10.0-9.0mm
E32-433	11.0mm	11.0-10.0mm
E32-452	11.5mm	11.5-10.5mm
E32-472	12.0mm	12.0-11.0mm
E32-511	13.0mm	13.0-12.0mm
E32-551	14.0mm	14.0-13.0mm
E32-590	15.0mm	15.0-14.0mm
E32-629	16.0mm	16.0-15.0mm
E32-669	17.0mm	17.0-16.0mm
E32-708	18.0mm	18.0-17.0mm
E32-748	19.0mm	19.0-18.0mm
E32-767	19.5mm	19.5-18.5mm
E32-787	20.0mm	20.0-19.0mm

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range
-	-	-
-	1/8"	-
-	5/32"	-
-	3/6"	-
-	7/32"	-
E32-016(C)	1/4"	.250" - .234"
E32-017(C)	17/64"	.266" - .250"
E32-018(C)	9/32"	.281" - .266"
E32-019(C)	19/64"	.297" - .281"
E32-020(C)	5/16"	.312" - .297"
E32-021(C)	21/64"	.328" - .312"
E32-022(C)	11/32"	.344" - .328"
E32-023(C)	23/64"	.359" - .344"
E32-024(C)	3/8"	.375" - .359"
E32-025(C)	25/64"	.391" - .375"
E32-026(C)	13/32"	.406" - .391"
E32-027(C)	27/64"	.422" - .406"
E32-028(C)	7/16"	.437" - .422"
E32-029(C)	29/64"	.453" - .437"
E32-030(C)	15/32"	.469" - .453"
E32-031(C)	31/64"	.484" - .469"
E32-032(C)	1/2"	.500" - .484"
E32-033(C)	33/64"	.516" - .500"
E32-034(C)	17/32"	.531" - .516"
E32-035(C)	35/64"	.547" - .531"
E32-036(C)	9/16"	.563" - .547"
E32-037(C)	37/64"	.578" - .563"
E32-038(C)	19/32"	.594" - .578"
E32-039(C)	39/64"	.609" - .594"
E32-040(C)	5/8"	.625" - .609"
E32-041(C)	41/64"	.641" - .625"
E32-042(C)	21/32"	.656" - .641"
E32-043(C)	43/64"	.672" - .656"
E32-044(C)	11/16"	.688" - .672"
E32-045(C)	45/64"	.703" - .688"
E32-046(C)	23/32"	.719" - .703"
E32-047(C)	47/64"	.734" - .719"
E32-048(C)	3/4"	.750" - .734"
E32-049(C)	49/64"	.766" - .750"
E32-050(C)	25/32"	.781" - .766"

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range
-	3.0mm	-
-	3.5mm	-
-	4.0mm	-
-	5.0mm	-
-	6.0mm	-
-	7.0mm	-
-	8.0mm	-
-	9.0mm	-
E32-393(C)	10.0mm	10.0mm - 9.5mm
E32-413(C)	10.5mm	10.5mm - 10.0mm
E32-433(C)	11.0mm	11.0mm - 10.5mm
E32-452(C)	11.5mm	11.5mm - 11.0mm
E32-472(C)	12.0mm	12.0mm - 11.5mm
E32-492(C)	12.5mm	12.5mm - 12.4mm
E32-511(C)	13.0mm	13.0mm - 12.9mm
E32-531(C)	13.5mm	13.5mm - 13.0mm
E32-551(C)	14.0mm	14.0mm - 13.5mm
E32-570(C)	14.5mm	14.5mm - 14.4mm
E32-590(C)	15.0mm	15.0mm - 14.9mm
E32-610(C)	15.5mm	15.5mm - 15.4mm
E32-629(C)	16.0mm	16.0mm - 15.5mm
E32-649(C)	16.5mm	16.5mm - 16.0mm
E32-669(C)	17.0mm	17.0mm - 16.5mm
E32-688(C)	17.5mm	17.5mm - 17.0mm
E32-708(C)	18.0mm	18.0mm - 17.5mm
E32-728(C)	18.5mm	18.5mm - 18.0mm
E32-748(C)	19.0mm	19.0mm - 18.5mm
E32-767(C)	19.5mm	19.5mm - 19.0mm
E32-787(C)	20.0mm	20.0mm - 19.5mm

ER32 Collets Sets

E32-21S	21 Piece Set	1/8" - 3/4" by 32nds
E32-18S	18 Piece Set	2.0mm - 20.0mm by 1.0mm

ER32 Coolant Collets Sets

E32-17S(C)	17 Piece Set	1/4" - 3/4" by 32nds
E32-21S(C)	21 Piece Set	10.0mm - 20.0mm by 0.5mm

See dimensional data for ER32 Collets on page 31.

ER40 Collets



Size range: 5/32" - 1"



Size range: 5/16" - 5/8"

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 1000PSI.

Size range: 10.0mm - 26.0mm
(0.374" - 1.023")

INCH		
Part Number	Size	Collapse Range
E40-010	5/32"	.156" - .125"
E40-012	3/16"	.187" - .156"
E40-014	7/32"	.219" - .187"
E40-016	1/4"	.250" - .219"
E40-018	9/32"	.281" - .250"
E40-020	5/16"	.312" - .281"
E40-022	11/32"	.344" - .312"
E40-024	3/8"	.375" - .344"
E40-026	13/32"	.406" - .375"
E40-028	7/16"	.437" - .406"
E40-030	15/32"	.469" - .437"
E40-032	1/2"	.500" - .469"
E40-034	17/32"	.531" - .500"
E40-036	9/16"	.563" - .531"
E40-038	19/32"	.594" - .563"
E40-040	5/8"	.625" - .594"
E40-042	21/32"	.656" - .625"
E40-044	11/16"	.688" - .656"
E40-046	23/32"	.719" - .688"
E40-048	3/4"	.750" - .719"
E40-050	25/32"	.781" - .750"
E40-052	13/16"	.813" - .781"
E40-054	27/32"	.844" - .813"
E40-056	7/8"	.875" - .844"
E40-058	29/32"	.906" - .875"
E40-060	15/16"	.938" - .906"
E40-062	31/32"	.969" - .938"
E40-064	1"	1" - .969"

METRIC		
Part Number	Size	Collapse Range
E40-157	4.0mm	4.0-3.0mm
E40-196	5.0mm	5.0-4.0mm
E40-236	6.0mm	6.0-5.0mm
E40-275	7.0mm	7.0-6.0mm
E40-314	8.0mm	8.0-7.0mm
E40-354	9.0mm	9.0-8.0 mm
E40-393	10.0mm	10.0-9.0mm
E40-433	11.0mm	11.0-10.0mm
E40-452	11.5mm	11.5-10.5mm
E40-472	12.0mm	12.0-11.0mm
E40-511	13.0mm	13.0-12.0mm
E40-551	14.0mm	14.0-13.0mm
E40-590	15.0mm	15.0-14.0mm
E40-629	16.0mm	16.0-15.0mm
E40-669	17.0mm	17.0-16.0mm
E40-708	18.0mm	18.0-17.0mm
E40-748	19.0mm	19.0-18.0mm
E40-767	19.5mm	19.5-18.5mm
E40-787	20.0mm	20.0-19.0mm
E40-826	21.0mm	21.0-20.0mm
E40-866	22.0mm	22.0-21.0mm
E40-905	23.0mm	23.0-22.0mm
E40-944	24.0mm	24.0-23.0mm
E40-984	25.0mm	25.0-24.0mm
E40-1023	26.0mm	26.0-25.0mm

INCH-COOLANT-THRU		
Part Number	Size	Collapse Range
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
E40-020(C)	5/16"	.312" - .297"
-	-	-
E40-024(C)	3/8"	.375" - .359"
-	-	-
E40-028(C)	7/16"	.437" - .422"
-	-	-
E40-032(C)	1/2"	.500" - .484"
-	-	-
E40-036(C)	9/16"	.563" - .547"
-	-	-
E40-040(C)	5/8"	.625" - .609"

METRIC-COOLANT-THRU		
Part Number	Size	Collapse Range
-	4.0mm	-
-	5.0mm	-
-	6.0mm	-
-	7.0mm	-
-	8.0mm	-
-	9.0mm	-
E40-393(C)	10.0mm	10.0mm - 9.5mm
E40-413(C)	10.5mm	10.5mm - 10.0mm
E40-433(C)	11.0mm	11.0mm - 10.5mm
E40-452(C)	11.5mm	11.5mm - 11.0mm
E40-472(C)	12.0mm	12.0mm - 11.5mm
E40-492(C)	12.5mm	12.5mm - 12.0mm
E40-511(C)	13.0mm	13.0mm - 12.5mm
E40-531(C)	13.5mm	13.5mm - 13.0mm
E40-551(C)	14.0mm	14.0mm - 13.5mm
E40-570(C)	14.5mm	14.5mm - 14.0mm
E40-590(C)	15.0mm	15.0mm - 14.5mm
E40-610(C)	15.5mm	15.5mm - 15.0mm
E40-629(C)	16.0mm	16.0mm - 15.5mm
E40-649(C)	16.5mm	16.5mm - 16.0mm
E40-669(C)	17.0mm	17.0mm - 16.5mm
E40-688(C)	17.5mm	17.5mm - 17.0mm
E40-708(C)	18.0mm	18.0mm - 17.5mm
E40-728(C)	18.5mm	18.5mm - 18.0mm
E40-748(C)	19.0mm	19.0mm - 18.5mm
E40-767(C)	19.5mm	19.5mm - 19.0mm
E40-787(C)	20.0mm	20.0mm - 19.5mm
E40-807(C)	20.5mm	20.5mm - 20.0mm
E40-826(C)	21.0mm	21.0mm - 20.5mm
E40-846(C)	21.5mm	21.5mm - 21.0mm
E40-866(C)	22.0mm	22.0mm - 21.5mm
E40-885(C)	22.5mm	22.5mm - 22.0mm
E40-905(C)	23.0mm	23.0mm - 22.5mm
E40-925(C)	23.5mm	23.5mm - 23.0mm
E40-944(C)	24.0mm	24.0mm - 23.5mm
E40-964(C)	24.5mm	24.5mm - 24.0mm
E40-984(C)	25.0mm	25.0mm - 24.5mm
E40-1003(C)	25.5mm	25.5mm - 25.0mm
E40-1023(C)	26.0mm	26.0mm - 25.0mm

ER40 Collets Sets

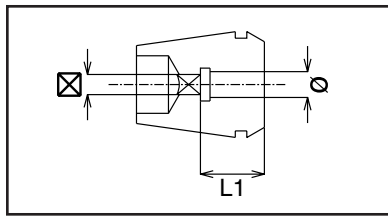
E40-25S	25 Piece Set	1/4" - 1" by 32nds
E40-23S	23 Piece Set	4.0mm - 26.0mm by 1.0mm

ER40 Coolant Collets Sets

E40-33S(C)	33 Piece Set	10.0mm - 26.0mm by 0.5mm
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See dimensional data for ER40 Collets on page 31.

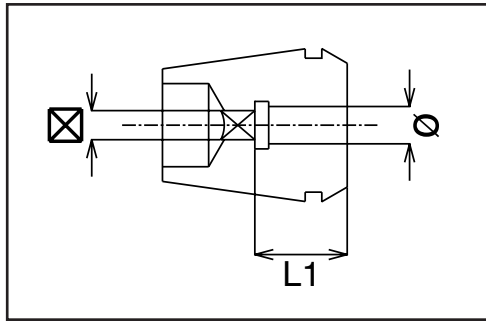
ER Tap Collets



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.

Part Number	ER Series	Tap Inch Size	Tap Metric Size	L1 (mm)	Ø	⊠
ET16-168	ER16	#8, 5/32"	M4	15	0.168	0.131
ET16-194	ER16	#10, 3/16"	M4.5, M5	15	0.194	0.152
ET16-220	ER16	#12, 7/32"	-	15	0.220	0.165
ET16-255	ER16	#14, 1/4"	M6, M6.5	22	0.255	0.191
ET20-168	ER20	#8, 5/32"	M4	15	0.168	0.131
ET20-194	ER20	#10, 3/16"	M4.5, M5	15	0.194	0.152
ET20-220	ER20	#12, 7/32"	-	15	0.220	0.165
ET20-255	ER20	#14, 1/4"	M6, M6.5	20	0.255	0.191
ET20-318	ER20	5/16"	M7, M6.5	20	0.318	0.238
ET20-323	ER20	7/16"	-	20	0.323	0.242
ET20-367	ER20	1/2"	M12, M12.5	25	0.367	0.275
ET20-381	ER20	3/8"	M10	20	0.381	0.286
ET25-168	ER25	#8, 5/32"	M4	15	0.168	0.131
ET25-194	ER25	#10, 3/16"	M4.5, M5	15	0.194	0.152
ET25-220	ER25	#12, 7/32"	-	15	0.220	0.165
ET25-255	ER25	#14, 1/4"	M6, M6.5	20	0.255	0.191
ET25-318	ER25	5/16"	M7, M6.5	20	0.318	0.238
ET25-323	ER25	7/16"	-	20	0.323	0.242
ET25-367	ER25	1/2"	M12, M12.5	25	0.367	0.275
ET25-381	ER25	3/8"	M10	20	0.381	0.286
ET25-429	ER25	9/16"	M14	25	0.429	0.322
ET25-437	ER25	1/8" NPT(L)	-	18	0.437	0.328
ET25-480	ER25	5/8"	M16	25	0.480	0.360
ET32-168	ER32	#8, 5/32"	M4	15	0.168	0.131
ET32-194	ER32	#10, 3/16"	M4.5, M5	15	0.194	0.152
ET32-220	ER32	#12, 7/32"	-	15	0.220	0.165
ET32-255	ER32	#14, 1/4"	M6, M6.5	20	0.255	0.191
ET32-318	ER32	5/16"	M7, M6.5	20	0.318	0.238
ET32-323	ER32	7/16"	-	20	0.323	0.242
ET32-367	ER32	1/2"	M12, M12.5	25	0.367	0.275
ET32-381	ER32	3/8"	M10	20	0.381	0.286
ET32-429	ER32	9/16"	M14	25	0.429	0.322
ET32-437	ER32	1/8" NPT	-	18	0.437	0.328
ET32-480	ER32	5/8"	M16	25	0.480	0.360
ET32-542	ER32	11/16"	M18	30	0.542	0.406
ET32-562	ER32	1/4" NPT	-	18	0.562	0.421
ET32-590	ER32	3/4"	-	30	0.590	0.422
ET32-652	ER32	13/16"	M20	30	0.652	0.489
ET40-255	ER40	#14, 1/4"	M6, M6.5	25	0.255	0.191
ET40-318	ER40	5/16"	M7, M6.5	25	0.318	0.238
ET40-323	ER40	7/16"	-	25	0.323	0.242
ET40-367	ER40	1/2"	M12, M12.5	25	0.367	0.275
ET40-381	ER40	3/8"	M10	25	0.381	0.286
ET40-429	ER40	9/16"	M14	25	0.429	0.322
ET40-437	ER40	1/8" NPT	-	18	0.437	0.328
ET40-480	ER40	5/8"	M16	25	0.480	0.360
ET40-542	ER40	11/16"	M18	30	0.542	0.406
ET40-562	ER40	1/4" NPT	-	18	0.562	0.421
ET40-590	ER40	3/4"	-	30	0.590	0.422
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"	M22	30	0.697	0.523
ET40-700	ER40	3/8" NPT	-	18	0.700	0.531
ET40-760	ER40	15/16"	M24	35	0.760	0.570
ET40-800	ER40	1"	M25	35	0.800	0.600

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.

Part Number	ER Series	Tap Inch Size	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	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	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
ET25-318(C)	ER25	5/16"	M7, M6.5	25	0.255	0.238
ET25-323(C)	ER25	7/16"	-	25	0.318	0.242
ET25-367(C)	ER25	1/2"	M12, M12.5	25	0.323	0.275
ET25-381(C)	ER25	3/8"	M10	27	0.367	0.286
ET25-429(C)	ER25	9/16"	M14	25	0.381	0.322
ET25-480(C)	ER25	5/8"	M16	30	0.429	0.360
ET32-255(C)	ER32	#14, 1/4"	M6, M6.5	30	0.48	0.191
ET32-318(C)	ER32	5/16"	M7, M6.5	25	0.255	0.238
ET32-323(C)	ER32	7/16"	-	25	0.318	0.242
ET32-367(C)	ER32	1/2"	M12, M12.5	25	0.323	0.275
ET32-381(C)	ER32	3/8"	M10	27	0.367	0.286
ET32-429(C)	ER32	9/16"	M14	25	0.381	0.322
ET32-480(C)	ER32	5/8"	M16	30	0.429	0.360
ET32-542(C)	ER32	11/16"	M18	30	0.48	0.406
ET32-590(C)	ER32	3/4"	-	35	0.542	0.422
ET32-652(C)	ER32	13/16"	M20	35	0.59	0.489
ET40-323(C)	ER40	7/16"	-	35	0.652	0.242
ET40-367(C)	ER40	1/2"	M12, M12.5	25	0.323	0.275
ET40-381(C)	ER40	3/8"	M10	27	0.367	0.286
ET40-429(C)	ER40	9/16"	M14	25	0.381	0.322
ET40-480(C)	ER40	5/8"	M16	30	0.429	0.360
ET40-542(C)	ER40	11/16"	M18	30	0.48	0.406
ET40-590(C)	ER40	3/4"	-	35	0.542	0.422
ET40-652(C)	ER40	13/16"	M20	35	0.590	0.489
ET40-697(C)	ER40	7/8"	M22	35	0.652	0.523
ET40-760(C)	ER40	15/16"	M24	38	0.697	0.570
ET40-800(C)	ER40	1"	M25	38	0.760	0.600

Note: Seals up to maximum coolant pressure of 1000 PSI.

ER Accessories

ER Collet Rack

Part Number	Description
RACK-ER11/SK6	ER11 collet rack, 35 collets capacity
RACK-ER16/SK10	ER16 collet rack, 24 collets capacity
RACK-ER20/1TAP	ER20 collet rack, 24 collets capacity
RACK-180DA/SK16/ER25	ER25 collet rack, 30 collets capacity
RACK-ER32/2TAP	ER32 collet rack, 24 collets capacity
RACK-ER40	ER40 collet rack, 24 collets capacity



Replacement Nut for ER Collet Chuck

Part Number	Description
08-NANUT	ER8 Complete Nut
E11-NUT	ER11 Complete (Hex) Nut
E16-NUT	ER16 Complete Nut
O16-NUT	ER16 Complete Hex Nut
E20-NUT	ER20 Complete Nut
E25-NUT	ER25 Complete Nut
E32-NUT	ER32 Complete Nut
E32-NUT-ST	ER32 Nut (Short) for C40S7-0032-1.10
E40-NUT	ER40 Complete Nut
E40-NUT-ST	ER40 Nut (Short) for C50S7-0040-1.10



Replacement Nut Parts for ER Collet Chuck

Part Number	Description
ER16-1	ER16 Nut Bearing/Spacer Set
ER20-1	ER20 Nut Bearing/Spacer Set
ER25-1	ER25 Nut Bearing/Spacer Set
ER32-1	ER32 Nut Bearing/Spacer Set
ER40-1	ER40 Nut Bearing/Spacer Set



Spanner Wrench for ER Collet Chuck Nut

Part Number	Description
08-NASPAN	wrench for ER8 Chuck Nut
011-HEX	wrench for ER11 Chuck Nut
016-SPAN	wrench for ER16 Chuck Nut
020-SPAN	wrench for ER20 Chuck Nut
025-SPAN	wrench for ER25 Chuck Nut
032-SPAN	wrench for ER32 Chuck Nut
040-SPAN	wrench for ER40 Chuck Nut



ER Accessories

Torque Wrench and Attachment for ER Collet Chuck Nut

Part Number	Description
TQW-025	Torque wrench for ER8 Chuck Nut
TQW-150	Torque wrench for ER11/16/20/25/32/40 Chuck Nut
TQW-ER08	ER8 Attachment for TQW-025 torque wrench
TQW-ER11(17)	ER11 Attachment for TQW-150 torque wrench
TQW-ER16(32)	ER16 Attachment for TQW-150 torque wrench
TQW-ER20(32)	ER20 Attachment for TQW-150 torque wrench
TQW-ER25(43)	ER25 Attachment for TQW-150 torque wrench
TQW-ER32(50)	ER32 Attachment for TQW-150 torque wrench
TQW-ER40(63)	ER40 Attachment for TQW-150 torque wrench



See the torque wrenches specifications and details on page 222.

Replacement Back Up Screws for ER Collet Chuck

Part Number	Description
ER8-3	ER8 Backup Screws
ER8-3 (C)	ER8 Coolant-thru Backup Screws
ER11-3	ER11 Backup Screws*
ER11-3 (C)	ER11 Coolant-thru Backup Screws*
ER16-3	ER16 Backup Screws
ER16-3 (C)	ER16 Coolant-thru Backup Screws
ER20-3	ER20 Backup Screws
ER20-3 (C)	ER20 Coolant-thru Backup Screws
ER25-3	ER25 Backup Screws
ER25-3 (C)	ER25 Coolant-thru Backup Screws
ER32-3	ER32 Backup Screws
ER32-3 (C)	ER32 Coolant-thru Backup Screws
ER40-3	ER40 Backup Screws
ER40-3 (C)	ER40 Coolant-thru Backup Screws



* ER11-3 can also be used with ER16 Collet Chuck Extension

Coolant Tube Wrench for HSK holders

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

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 holder
HSK40-TUBE	Coolant tube for HSK40 holder
HSK100-TUBE	Coolant tube for HSK100 holder



CAT TG Collet Chucks

- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut
- Available in high-speed balanceable versions

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



TIR: < .0002 at collet face



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆

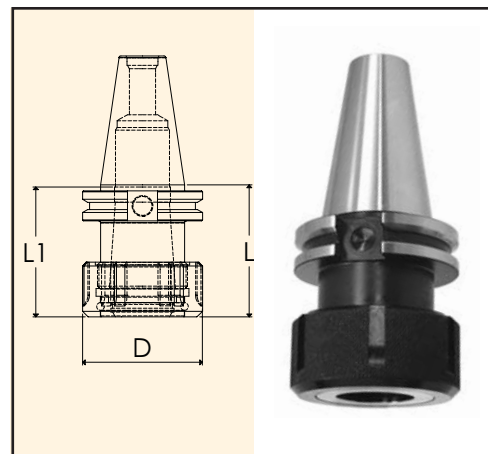


Reaming
★★★★☆

CAT40

Part Number	Style	Collet Series	Collet Range	Nut Wrench	L	L1	D
C4007-0250-2.25	Standard	25TG	3/64-1/4"	25TG-HEX	2.25"	0.61"	0.75"
C4017-0250-4.00	Standard	25TG	3/64-1/4"	25TG-HEX	4.00"	0.61"	0.75"
C4007-0500-2.50	Standard	50TG	1/8-1/2"	50TG-SPAN	2.50"	1.30"	1.34"
C4017-0500-4.00	Standard	50TG	1/8-1/2"	50TG-SPAN	4.00"	1.30"	1.34"
C40S7-0750-2.50	Stubby	75TG	3/64-3/4"	75TG-SPAN	2.50"	1.61"	1.89"
C4007-0750-3.00	Standard	75TG	3/64-3/4"	75TG-SPAN	3.00"	1.61"	1.89"
C4017-0750-5.00	Standard	75TG	3/64-3/4"	75TG-SPAN	5.00"	1.61"	1.89"
C40S7-1000-2.75	Stubby	100TG	3/64-1"	100TG-SPAN	2.75"	2.13"	2.50"
C4007-1000-3.50	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.13"	2.50"
C4017-1000-5.50	Standard	100TG	3/64-1"	100TG-SPAN	5.50"	2.13"	2.50"
C4007-1500-6.00	Standard	150TG	1/2-1-1/2"	150TG-SPAN	6.00"	2.88"	3.50"

TG Collet Chucks come with back-up screw.

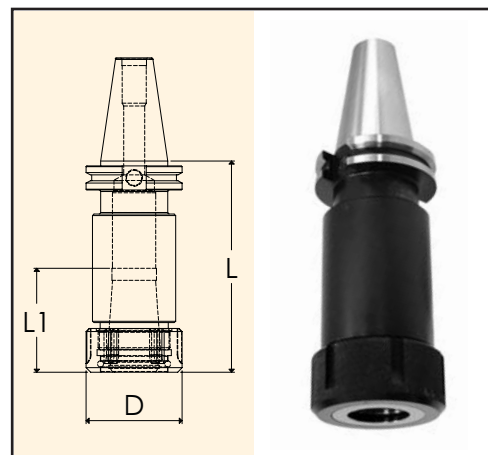


Stubby

CAT50

Part Number	Style	Collet Series	Collet Range	Nut Wrench	L	L1	D
C5007-0500-2.50	Standard	50TG	1/8-1/2"	50TG-SPAN	2.50"	1.30"	1.34"
C5017-0500-4.00	Standard	50TG	1/8-1/2"	50TG-SPAN	4.00"	1.30"	1.34"
C5007-0750-3.50	Standard	75TG	3/64-3/4"	75TG-SPAN	3.50"	1.61"	1.89"
C5017-0750-5.50	Standard	75TG	3/64-3/4"	75TG-SPAN	5.50"	1.61"	1.89"
C5007-1000-3.50	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.13"	2.50"
C5017-1000-5.50	Standard	100TG	3/64-1"	100TG-SPAN	5.50"	2.13"	2.50"
C5027-1000-7.50	Standard	100TG	3/64-1"	100TG-SPAN	7.50"	2.13"	2.50"
C5037-1000-10.00	Standard	100TG	3/64-1"	100TG-SPAN	10.00"	2.13"	3.50"
C5007-1500-3.50	Standard	150TG	1/2-1-1/2"	150TG-SPAN	3.50"	2.88"	3.50"
C5017-1500-6.00	Standard	150TG	1/2-1-1/2"	150TG-SPAN	6.00"	2.88"	3.50"

TG Collet Chucks come with back-up screw.



Standard

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. Our handy 100TG or 150TG Collet Squeezers ease the removal of these larger collets.



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 62-64.

Accessories:



TG Collets
Pages 61-65



TG Torque Wrench
Page 66





TG Back Up Screw
Page 66



TG Nut
Page 66



CAT TG Collet Chucks

CAT40 - DIN

Part Number	Style	Collet Series	Collet Range 	Nut Wrench 	L	L1	D
C4007-1000-3.50DIN	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.32"	2.50"
C4007-1500-6.00DIN	Standard	150TG	1/2-1-1/2"	150TG-SPAN	6.00"	2.88"	3.50"

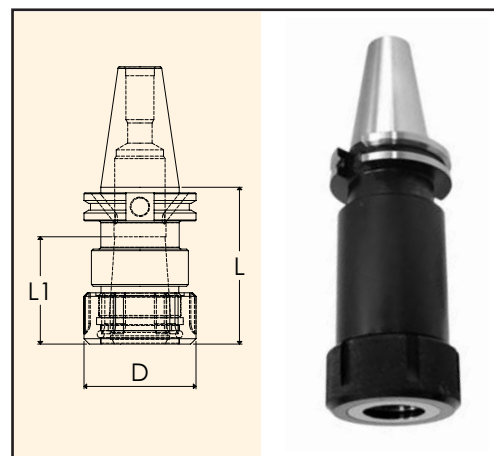
TG Collet Chucks come with back-up screw.

CAT50 - DIN

Part Number	Style	Collet Series	Collet Range 	Nut Wrench 	L	L1	D
C5007-0750-3.50DIN	Standard	75TG	3/64-3/4"	75TG-SPAN	3.50"	1.61"	1.89"
C5017-0750-5.50DIN	Standard	75TG	3/64-3/4"	75TG-SPAN	5.50"	1.61"	1.89"
C5007-1000-3.50DIN	Standard	100TG	3/64-1"	100TG-SPAN	3.50"	2.13"	2.50"
C5017-1000-5.50DIN	Standard	100TG	3/64-1"	100TG-SPAN	5.50"	2.13"	2.50"
C5027-1000-7.50DIN	Standard	100TG	3/64-1"	100TG-SPAN	7.50"	2.12"	2.50"
C5007-1500-3.50DIN	Standard	150TG	1/2-1-1/2"	150TG-SPAN	3.50"	2.87"	3.50"
C5017-1500-6.00DIN	Standard	150TG	1/2-1-1/2"	150TG-SPAN	6.00"	3.94"	3.50"

TG Collet Chucks come with back-up screw.

Note: "DIN" designates suitability for coolant through the flange per DIN 69871 Form B specs.



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 62-64.

High-Speed Balanceable TG Collet Chucks

Balanceable TG Collet Chucks are available in CAT and BT taper styles. Part numbers are identical to standard TG Collet Chuck part numbers except that there is a "B" at the end. (Ex: C4007-0750-3.00B)

- 30 and 40 taper toolholders are prebalanced to G2.5 or better at 24,000 RPM
- 50 taper toolholders are prebalanced to G2.5 or better at 15,000 RPM
- Lyndex-Nikken uses a Patented Balancing Method which allows greater compensation necessary for high RPM applications
- hsBalance™ toolholders come with a printout of actual balance condition
- hsBalance™ toolholders need to be used with balance-qualified pull studs
- A balancing machine is required to balance or re-balance toolholders



**CT Taper hsBalance™
100TG Collet Chuck**



**CT Taper hsBalance™ 100TG
Collet Chuck - DIN**

Accessories:



TG Collets
Pages 61-65



TG Torque Wrench
Page 66



TG Back Up Screw
Page 66







TG Nut
Page 66

BT TG Collet Chucks



- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut
- Available in high-speed balanceable versions

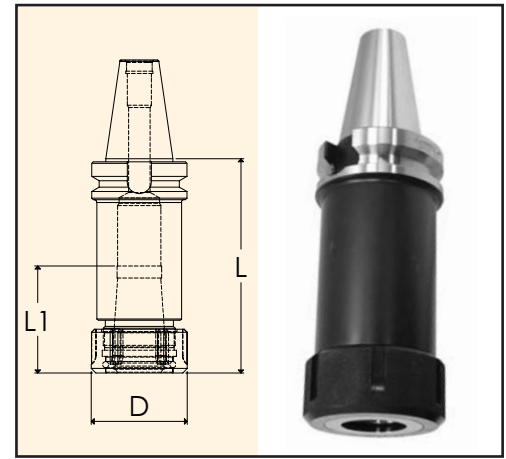
Please note that the maximum RPM listed in our catalog may vary depending on the toolholder shank, weight, balanceability and the G rating.

-  **TIR:** < .0002 at collet face
-  **Speed:** up to 20,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tool coolant

-  **Drilling**
★★★★☆
-  **Milling**
★★★★☆
-  **Reaming**
★★★★☆

BT30/40/50

Part Number	Taper	Collet Series	Collet Range 	Nut Wrench 	L	L1	D
B3007-0250-1.75	BT30	25TG	3/64-1/4"	25TG-HEX	1.75"	0.61"	0.75"
B3017-0250-4.00	BT30	25TG	3/64-1/4"	25TG-HEX	4.00"	0.61"	0.75"
B3007-0500-2.00	BT30	50TG	1/8-1/2"	50TG-SPAN	2.00"	1.30"	1.34"
B3017-0500-4.00	BT30	50TG	1/8-1/2"	50TG-SPAN	4.00"	1.30"	1.34"
B3007-0750-2.50	BT30	75TG	3/64-3/4"	75TG-SPAN	2.50"	1.61"	1.89"
B3007-1000-3.94	BT30	100TG	3/64-1"	100TG-SPAN	3.94"	2.24"	2.50"
B4007-0250-2.00	BT40	25TG	3/64-1/4"	25TG-HEX	2.00"	0.61"	0.75"
B4017-0250-4.00	BT40	25TG	3/64-1/4"	25TG-HEX	4.00"	0.61"	0.75"
B4007-0500-2.25	BT40	50TG	1/8-1/2"	50TG-SPAN	2.25"	1.30"	1.34"
B4017-0500-4.00	BT40	50TG	1/8-1/2"	50TG-SPAN	4.00"	1.30"	1.34"
B4007-0750-3.00	BT40	75TG	3/64-3/4"	75TG-SPAN	3.00"	1.61"	1.89"
B4007-1000-3.50	BT40	100TG	3/64-1"	100TG-SPAN	3.50"	2.13"	2.50"
B4017-1000-5.50	BT40	100TG	3/64-1"	100TG-SPAN	5.50"	2.13"	2.50"
B4007-1500-5.50	BT40	150TG	1/2-1-1/2"	150TG-SPAN	5.50"	2.87"	3.50"
B5007-0500-2.63	BT50	50TG	1/8-1/2"	50TG-SPAN	2.63"	1.30"	1.34"
B5017-0500-4.00	BT50	50TG	1/8-1/2"	50TG-SPAN	4.00"	1.30"	1.34"
B5007-0750-3.50	BT50	75TG	3/64-3/4"	75TG-SPAN	3.50"	1.61"	1.89"
B5017-0750-5.50	BT50	75TG	3/64-3/4"	75TG-SPAN	5.50"	1.61"	1.89"
B5007-1000-3.50	BT50	100TG	3/64-1"	100TG-SPAN	3.50"	2.13"	2.50"
B5017-1000-5.50	BT50	100TG	3/64-1"	100TG-SPAN	5.50"	2.13"	2.50"
B5007-1500-4.00	BT50	150TG	1/2-1-1/2"	150TG-SPAN	4.00"	2.87"	3.50"
B5017-1500-6.00	BT50	150TG	1/2-1-1/2"	150TG-SPAN	6.00"	2.87"	3.50"



TG Collet Chucks come with back-up screw.

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. Our handy 100TG or 150TG Collet Squeezers ease the removal of these larger collets.



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 62-64.

Accessories:



TG Collets
Pages 61-65



TG Torque Wrench
Page 66



TG Back Up Screw
Page 66



TG Nut
Page 66

NMTB and R8 TG Collet Chucks

- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut
- Ground surface for perpendicular contact
- Available in high-speed balanceable versions

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



TIR: < .0002 at collet face



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆



Reaming
★★★★☆

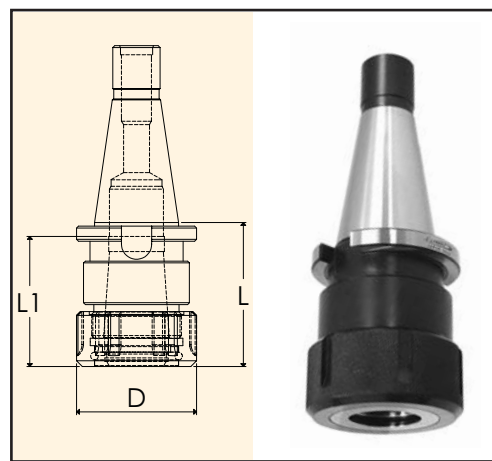
NMTB30/40/50

Part Number	Taper	Collet Series	Collet Range	Nut Wrench	L	L1	D
N3007-0750-2.50	NMTB30	75TG	3/64-3/4"	75TG-SPAN	2.50"	1.61"	1.89"
N3007-1000-3.94	NMTB30	100TG	3/64-1"	100TG-SPAN	3.94"	2.24"	2.50"

N4007-0750-2.50	NMTB40	75TG	3/64-3/4"	75TG-SPAN	2.50"	1.61"	1.89"
N4007-1000-3.00	NMTB40	100TG	3/64-1"	100TG-SPAN	3.00"	2.12"	2.50"
N4007-1500-5.00	NMTB40	150TG	1/2-1-1/2"	150TG-SPAN	5.00"	2.87"	3.50"

N5007-0750-3.00	NMTB50	75TG	3/64-3/4"	75TG-SPAN	3.00"	1.61"	1.89"
N5007-1000-3.50	NMTB50	100TG	3/64-1"	100TG-SPAN	3.50"	2.12"	2.50"
N5007-1500-5.00	NMTB50	150TG	1/2-1-1/2"	150TG-SPAN	5.00"	2.87"	3.50"

TG Collet Chucks come with back-up screw.
NMTB shanks are suitable for use with Erickson QC spindles.



R8

Part Number	Collet Series	Collet Range	Nut Wrench	L	L1	D
R8007-1000-3.25	100TG	3/64-1"	100TG-SPAN	3.25"	2.17"	2.50"

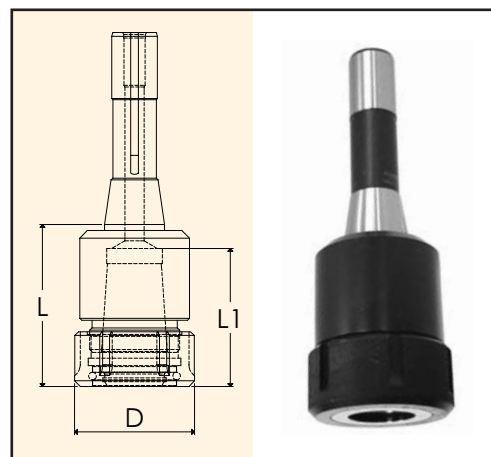
TG Collet Chucks come with back-up screw.

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. Our handy 100TG or 150TG Collet Squeezers ease the removal of these larger collets.



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 62-64.



Accessories:



TG Collets
Pages 61-65



TG Torque Wrench
Page 66



TG Back Up Screw
Page 66



TG Nut
Page 66

Straight Shank and Morse TG Collet Chucks

- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut
- Ground surface for perpendicular contact
- Available in high-speed balanceable versions



TIR: < .0002 at collet face



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆



Reaming
★★★★☆

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

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.
- They may be used with any size machining center or lathe.
- When loaded into larger holders, their reduced O.D. permits drilling operations within large holes or whenever tight clearances are encountered.

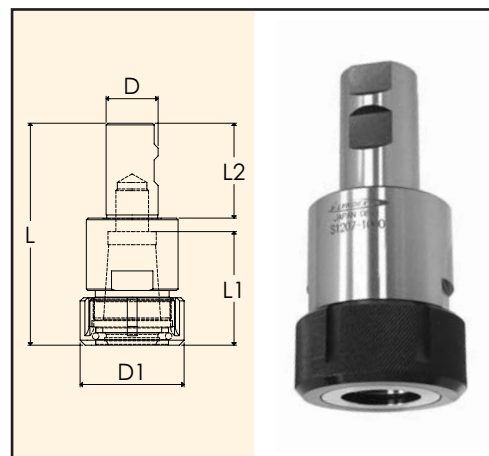
Straight Shank

Part Number	Collet Series	Collet Range	Nut Wrench	D	L	L1	L2	D1
S1007-0750-7.50	75TG	3/64-3/4"	75TG-SPAN	1.00"	7.50"	2.08"	5.00"	1.89"
S1207-1000-5.33	100TG	3/64-1"	100TG-SPAN	1.25"	5.33"	2.73"	2.28"	2.50"
S1507-1000-9.00	100TG	3/64-1"	100TG-SPAN	1.50"	9.00"	2.73"	6.00"	2.50"

TG Collet Chucks come with back-up screw.



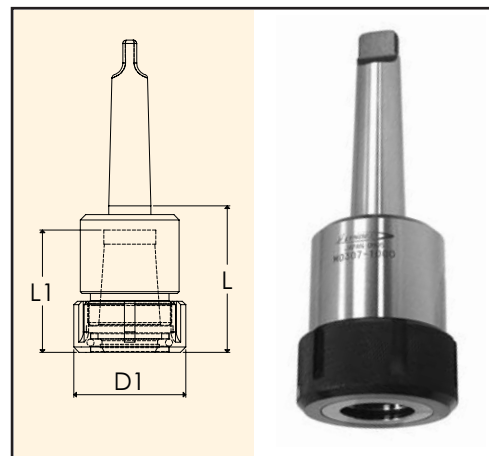
When removing the back-up screw, TG Collet Chucks have coolant-thru capabilities. No disc, special nut or wrench required!
See TG Coolant Collets on pages 62-64.



Morse

Part Number	Taper	Collet Series	Collet Range	Nut Wrench	L	L1	D1
M0307-1000-3.25	MT 3	100TG	3/64-1"	100TG-SPAN	3.25"	2.73"	2.50"
M0407-1000-3.25	MT 4	100TG	3/64-1"	100TG-SPAN	3.25"	2.73"	2.50"

TG Collet Chucks come with back-up screw.



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. Our handy 100TG or 150TG Collet Squeezers ease the removal of these larger collets.

Accessories:



TG Collets
Pages 61-65



TG Torque Wrench
Page 66



TG Back Up Screw
Page 66



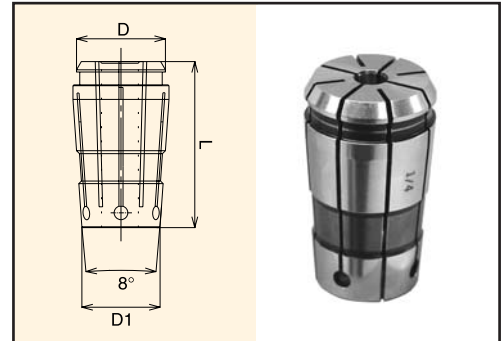
TG Nut
Page 66

TG Collets

Dimensional Data

Style	D	D1	L	Collet Range	Nut Tightening Torque
25TG	0.425"	0.325"	0.709"	3/64-1/4"	20 ft.lbs
50TG	0.760"	0.594"	1.437"	1/8-1/2"	35 ft.lbs
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
150TG	1.875"	1.678"	3.000"	1/2"-1.1/2"	100 ft.lbs

- Tolerance: Guaranteed to be within 0.0003" at the collet nose.
- Accuracy: Less than 0.0005" at 4 x D.



25TG and 50TG Collets

TG standard collets collapse approximately 1/64"

25TG Collets

Size range: 3/64"-1/4"

Part Number	Size
025-003	3/64"
025-004	1/16"
025-005	5/64"
025-006	3/32"
025-007	7/64"
025-008	1/8"
025-009	9/64"
025-010	5/32"
025-011	11/64"
025-012	3/16"
025-013	13/64"
025-014	7/32"
025-015	15/64"
025-016	1/4"

25TG Collets Sets

025-113	13 Piece 25TG Collet Set: 1/16"-1/14" by 64ths
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50TG Collets

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

Part Number	Size
050-008	1/8"
050-009	9/64"
050-010	5/32"
050-011	11/64"
050-012	3/16"
050-013	13/64"
050-014	7/32"
050-015	15/64"
050-016	1/4"
050-017	17/64"
050-018	9/32"
050-019	19/64"
050-020	5/16"
050-021	21/64"
050-022	11/32"
050-023	23/64"
050-024	3/8"
050-025	25/64"
050-026	13/32"
050-027	27/64"
050-028	7/16"
050-029	29/64"
050-030	15/32"
050-031	31/64"
050-032	1/2"

50TG Collets Sets

050-113	13 Piece 50TG Collet Set: 1/8"-1/2" by 32nds
050-125	25 Piece 50TG Collet Set: 1/8"-1/2" by 64ths



25TG Collets



50TG Collets

75TG Collets

TG standard collets collapse approximately 1/64"

Size range: 3/64"-3/4"

STANDARD	
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"

Size range: 1/8"-3/4"

COOLANT-THRU	
Part Number	Size
-	-
-	-
-	-
-	-
-	-
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

Note: Our TG coolant collets seals up to maximum coolant pressure of 1000 PSI.

These 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 will result.

Range of collapsibility is 0.004-0.006" for coolant collet.

See dimensional data for TG Collets on page 61.

75TG Collets Sets

075-112	12 Piece 75TG Collet Set: 1/16" - 3/4" by 16ths
075-117	17 Piece 75TG Collet Set: 1/8" - 3/8" by 64ths
075-123	23 Piece 75TG Collet Set: 1/16" 3/4" by 32nds
075-127	27 Piece 75TG Collet Set: 3/32" - 1/2" by 64ths
075-145	45 Piece 75TG Collet Set: 1/16" 3/4" by 64ths

Note: Cutter must be inserted the full length of collet.

100TG Collets

TG standard collets collapse approximately 1/64"

Size range: 3/64"-1"

INCH	
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"

Size range: 1/4"-1"

INCH-COOLANT-THRU	
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(S)	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"

Note: Cutter must be inserted the full length of collet.



100TG Coolant-thru Collet

100TG Coolant Collets Sets

100-111(C)	11 Piece 100TG Coolant Collet Set: 3/8" - 1" by 16ths
100-121(C)	21 Piece 100TG Coolant Collet Set: 3/8" - 1" by 32nds
100-141(C)	41 Piece 100TG Coolant Collet Set: 3/8" - 1" by 64ths

Note: Cutter must be inserted the full length of collet.

100TG Collets Sets

100-108	8 Piece 100TG Collet Set: 1/8" - 1" by 8ths
100-111	11 Piece 100TG Collet Set: 3/8" - 1" by 16ths
100-115	15 Piece 100TG Collet Set: 1/8" - 1" by 16ths
100-121	21 Piece 100TG Collet Set: 3/8" - 1" by 32nds
100-123	23 Piece 100TG Collet Set: 1/16" - 3/4" by 32nds
100-130	30 Piece 100TG Collet Set: 3/32" - 1" by 32nds
100-141	41 Piece 100TG Collet Set: 3/8" - 1" by 64ths
100-145	45 Piece 100TG Collet Set: 1/16" - 3/4" by 64ths
100-159	59 Piece 100TG Collet Set: 3/32" - 1" by 64ths

Note: Our TG coolant collets seals up to maximum coolant pressure of 1000 PSI.

These 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 will result.

Range of collapsibility is 0.004-0.006" for coolant collet.

See dimensional data for TG Collets on page 61.

100TG Collets

TG standard collets collapse approximately 1/64"

Size range: 4 mm-26 mm

METRIC	
Part Number	Size
100-204	4mm
100-206	6mm
100-208	8mm
100-210	10mm
100-212	12mm
100-214	14mm
100-216	16mm
100-218	18mm
100-220	20mm
100-222	22mm
100-224	24mm
100-225	25mm
100-226	26mm

Size range: 6 mm-26 mm

METRIC-COOLANT-THRU	
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

Note: Cutter must be inserted the full length of collet.

100TG Metric Collets Sets

100-123	23 Piece 100TG Collet Set: 1/16" - 3/4" by 32nds
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100TG Collet



100TG Collet - Coolant thru

Note: Our TG coolant collets seals up to maximum coolant pressure of 1000 PSI.

These 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 will result.

Range of collapsibility is 0.004-0.006" for coolant collet.

See dimensional data for TG Collets on page 61.

Non-Pull 100TG Collets

Size range: 3/18"-1"

INCH	
Part Number	Size
100-324	3/8"
100-332	1/2"
100-340	5/8"
100-348	3/4"
100-356	7/8"
100-364	1"



100TG Non-Pull Collet

150TG Collets

TG standard collets collapse approximately 1/64"

Size range: 1/2"-1.1/2"

INCH			
Part Number	Size	Part Number	Size
150-032	1/2"	150-065	1-1/64"
150-033	33/64"	150-066	1-1/32"
150-034	17/32"	150-067	1-3/64"
150-035	35/64"	150-068	1-1/16"
150-036	9/16"	150-069	1-5/64"
150-037	37/64"	150-070	1-3/32"
150-038	19/32"	150-071	1-7/64"
150-039	39/64"	150-072	1-1/8"
150-040	5/8"	150-073	1-9/64"
150-041	41/64"	150-074	1-5/32"
150-042	21/32"	150-075	1-11/64"
150-043	43/64"	150-076	1-3/16"
150-044	11/16"	150-077	1-13/64"
150-045	45/64"	150-078	1-7/32"
150-046	23/32"	150-079	1-15/64"
150-047	47/64"	150-080	1-1/4"
150-048	3/4"	150-081	1-17/64"
150-049	49/64"	150-082	1-9/32"
150-050	25/32"	150-083	1-19/64"
150-051	51/64"	150-084	1-5/16"
150-052	13/16"	150-085	1-21/64"
150-053	53/64"	150-086	1-11/32"
150-054	27/32"	150-087	123/64"
150-055	55/64"	150-088	1-3/8"
150-056	7/8"	150-089	1-25/64"
150-057	57/64"	150-090	1-13/32"
150-058	29/32"	150-091	1-27/64"
150-059	59/64"	150-092	1-7/16"
150-060	15/16"	150-093	1-29/64"
150-061	61/64"	150-094	1-15/32"
150-062	31/32"	150-095	1-31/64"
150-063	63/64"	150-096	1-1/2"
150-064	1"		



150TG Collet

See dimensional data for TG Collets on page 61.

150TG Collets Sets

150-113	3 Piece 150TG Collet Set: 3/4" - 1-1/2" by 16ths
150-117	17 Piece 150TG Collet Set: 1/2" - 1-1/2" by 16ths
150-125	25 Piece 150TG Collet Set: 3/4" - 1-1/2" by 32nds
150-133	33 Piece 150TG Collet Set: 1/2" - 1-1/2" by 32nds
150-149	49 Piece 150TG Collet Set: 3/4" - 1-1/2" by 64ths
150-165	65 Piece 150TG Collet Set: 1/2" - 1-1/2" by 64ths

TG Accessories

TG Collet Squeezers

Collet squeezers are handy for quickly removing 100TG and 150TG collets from collet chuck nuts. Simply remove the cutting tool from your collet, slip a collet squeezer over the back end of the collet, and press down. The collapsed collet will slip out of the chuck nut.

Part Number	Description
100TG-PULL	100TG Collet Squeezer
150TG-PULL	150TG Collet Squeezer



100TG Collet Rack

Part Number	Description
RACK-5C/100TG/SK25	100TG Collet Rack, 30 pieces capacity



Replacement Nut for TG Collet Chuck

Part Number	Description
25TG-NUT	25TG Complete Hex Nut
50TG-NUT	50TG Complete Nut
75TG-NUT	75TG Complete Nut
100TG-NUT	100TG Complete Nut
100TG-HEXNUT	100TG Complete Hex Nut
150TG-NUT	150TG Complete Nut



Replacement Nut Parts for TG Collet Chuck

Part Number	Description
50TG-1	50TG Nut Bearing/Spacer Set
75TG-1	75TG Nut Bearing/Spacer Set
100TG-1	100TG Nut Bearing/Spacer Set
150TG-1	150TG Nut Bearing/Spacer Set



Replacement Back-Up Screws for TG Collet Chuck

Part Number	Description
25TG-3	25TG back-up screw
50TG-3	50TG back-up screw
75TG-3	75TG back-up screw
75TG-3C	75TG Coolant back-up screw
100TG-3	100TG back-up screw
100TG-3C	100TG Coolant back-up screw
150TG-3	150TG back-up screw
150G-3C	150TG Coolant back-up screw



Spanner Wrench for TG Collet Chuck

Part Number	Description
25TG-HEX	Fits 25TG Collet Chuck Nut
50TG-SPAN	Fits 50TG Collet Chuck Nut
75TG-SPAN	Fits 75TG Collet Chuck Nut
100TG-SPAN	Fits 100TG Collet Chuck Nut
150TG-SPAN	Fits 150TG Collet Chuck Nut



Torque Wrench and Attachment for TG Collet Chuck

Part Number	Description
TQW-150	Torque wrench for ER11/16/20/25/32/40 Chuck Nut
TQW-TG075(50)	TG75 Attachment for TQW-150 torque wrench
TQW-TG100(63)	TG100 Attachment for TQW-150 torque wrench
TQW-TG150(82)	TG150 Attachment for TQW-150 torque wrench



See the torque wrenches specifications and details on page 222.

CAT and BT DA Collet Chucks

- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut



TIR: minimal



Speed: up to 10,000 rpm



Set-up: quick and easy



Coolant-thru: none



Drilling
★★★★☆

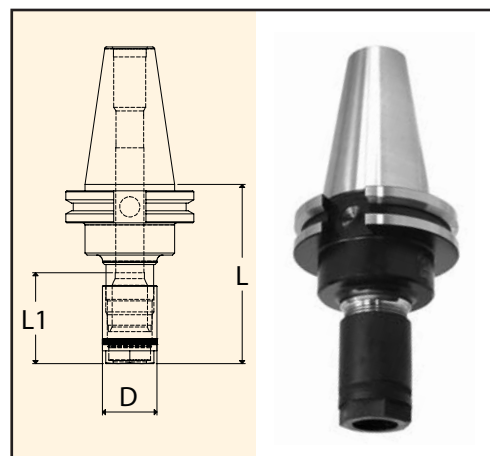


Reaming
★★★★☆

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

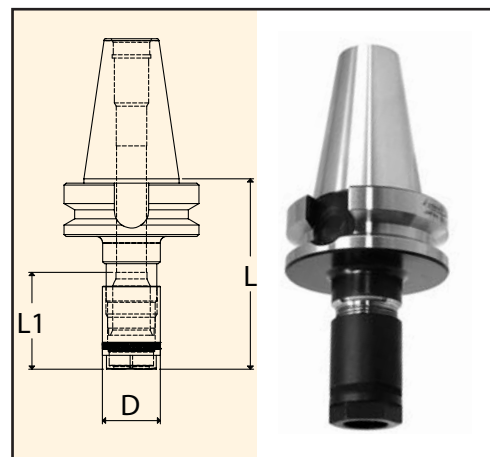
CAT40/50

Part Number	Taper	Collet Series	Collet Range	L	L1	D
C4007-0100-3.50	CAT40	100DA	3/64-9/16"	3.50"	1.15"	1.06"
C4017-0100-6.00	CAT40	100DA	3/64-9/16"	6.00"	1.15"	1.06"
C4007-0180-4.00	CAT40	180DA	3/64-3/4"	4.00"	1.50"	1.44"
C4017-0180-6.00	CAT40	180DA	3/64-3/4"	6.00"	1.50"	1.44"
C4007-0200-3.00	CAT40	200DA	3/64-3/8"	3.00"	1.03"	0.86"
C4007-0300-3.00	CAT40	300DA	3/64-1/4"	3.00"	0.84"	0.55"
C5007-0180-4.00	CAT50	180DA	3/64-3/4"	4.00"	1.50"	1.44"
C5017-0180-6.00	CAT50	180DA	3/64-3/4"	6.00"	1.50"	1.44"



BT30/40/50

Part Number	Taper	Collet Series	Collet Range	L	L1	D
B3007-0100-3.00	BT30	100DA	3/64-9/16"	3.00"	1.15"	1.06"
B3007-0180-3.00	BT30	180DA	3/64-3/4"	3.00"	1.51"	1.44"
B3007-0200-3.00	BT30	200DA	3/64-3/8"	3.00"	1.03"	0.86"
B3007-0300-3.00	BT30	300DA	3/64-1/4"	3.00"	1.04"	0.55"
B4007-0100-3.50	BT40	100DA	3/64-9/16"	3.50"	1.15"	1.06"
B4017-0100-6.00	BT40	100DA	3/64-9/16"	6.00"	1.15"	1.06"
B4007-0180-4.00	BT40	180DA	3/64-3/4"	4.00"	1.51"	1.44"
B4017-0180-6.00	BT40	180DA	3/64-3/4"	6.00"	1.51"	1.44"
B4007-0200-3.00	BT40	200DA	3/64-3/8"	3.00"	1.03"	0.86"
B4007-0300-3.00	BT40	300DA	3/64-1/4"	3.00"	1.04"	0.55"
B5007-0180-4.00	BT50	180DA	3/64-3/4"	4.00"	1.51"	1.44"
B5017-0180-6.00	BT50	180DA	3/64-3/4"	6.00"	1.51"	1.44"



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 over-tightened or radial load is applied. DA Collet Chucks are therefore not warranted against cracking.

Accessories:



DA Collets
Pages 69-70



DA Back Up Screw
Page 71



DA Nut
Page 71

NMTB DA Collet Chuck and DA Collet Chuck Extension

- Ground surface for perpendicular contact between retention knob and holder
- AT3 or better taper
- Equipped with a left-hand-threaded stop screw and chuck nut



TIR: minimal



Speed: up to 10,000 rpm



Set-up: quick and easy



Coolant-thru: none



Drilling
★☆☆☆☆



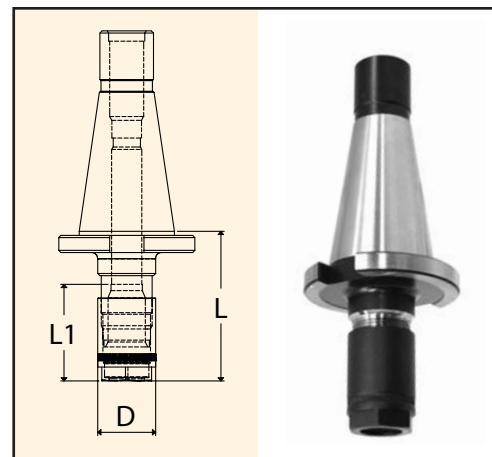
Reaming
★☆☆☆☆

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

NMTB 30/40

Part Number	Taper	Collet Series	Collet Range	L	L1	D
N3007-0100-2.75	NMTB30	100DA	3/64-9/16"	2.75"	1.15"	1.06"
N3007-0180-3.00	NMTB30	180DA	3/64-3/4"	3.00"	1.51"	1.44"
N3007-0200-2.50	NMTB30	200DA	3/64-3/8"	2.50"	1.03"	0.86"
N3007-0300-2.50	NMTB30	300DA	3/64-1/4"	2.50"	0.85"	0.55"
N4007-0100-2.75	NMTB40	100DA	3/64-9/16"	2.75"	1.15"	1.06"
N4007-0180-3.00	NMTB40	180DA	3/64-3/4"	3.00"	1.51"	1.44"
N4007-0200-2.50	NMTB40	200DA	3/64-3/8"	2.50"	1.03"	0.86"
N4007-0300-2.50	NMTB40	300DA	3/64-1/4"	2.50"	0.85"	0.55"
N5007-0180-3.50	NMTB50	180DA	3/64-3/4"	3.50"	1.51"	1.44"

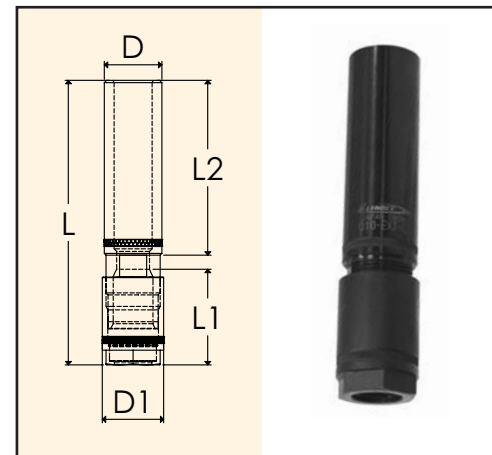
NMTB shanks are suitable for use with Erickson QC spindles.



DA Collet Chuck Extension

Part Number	Collet Series	Collet Range	L	L1	L2	D	D1
010-EXT-100S	100DA	3/64-9/16"	4.94"	1.66"	3.00"	1"	1.06"
010-EXT-100	100DA	3/64-9/16"	7.44"	1.66"	5.50"	1"	1.06"
018-EXT-125S	180DA	3/64-3/4"	4.90"	1.83"	3.00"	1-1/4"	1.44"
018-EXT-125	180DA	3/64-3/4"	7.40"	1.83"	5.50"	1-1/4"	1.44"
020-EXT-750S	200DA	3/64-3/8"	4.67"	1.34"	3.00"	3/4"	0.86"
020-EXT-750	200DA	3/64-3/8"	7.17"	1.34"	5.50"	3/4"	0.86"
030-EXT-500S	300DA	3/64-1/4"	4.42"	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"

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 over-tightened or radial load is applied. DA Collet Chucks are therefore not warranted against cracking.



Accessories:



DA Collets
Pages 69-70



DA Back Up Screw
Page 71

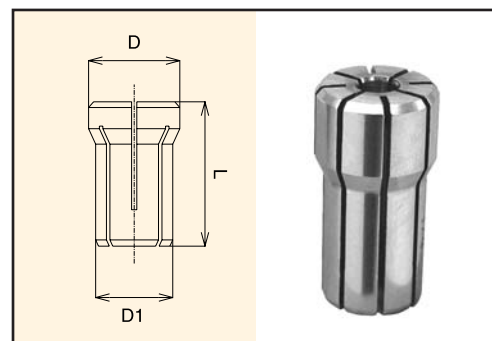


DA Nut
Page 71

DA Collets

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 and 200DA Collets

DA collets collapse approximately 1/32"

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"



300DA Collet



200DA Collet

300DA Collets Sets

030-107	7 Piece 300DA Collet Set: 1/16 - 1/4" by 32nds
030-109	9 Piece 300DA Collet Set: 1/8 - 1/4" by 64ths
030-113	13 Piece 300DA Collet Set: 1/16 - 1/4" by 64ths
030-114	14 Piece 300DA Collet Set: 3/64 - 1/4" by 64ths

200DA Collets

020-109	9 Piece 200DA Collet Set: 1/8 - 3/8" by 32nds
020-111	11 Piece 200DA Collet Set: 1/16 - 3/8" by 32nds
020-117	17 Piece 200DA Collet Set: 1/8 - 3/8" by 64ths
020-121	21 Piece 200DA Collet Set: 1/16 - 3/8" by 64ths

100DA and 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"

See dimensional data for DA collets on page 69.

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 Collets Sets

010-108	8 Piece 100DA Collet Set: 1/8 - 9/16" by 16ths
010-111	11 Piece 100DA Collet Set: 1/4 - 9/16" by 32nds
010-115	15 Piece 100DA Collet Set: 1/8 - 9/16" by 32nds
010-117	17 Piece 100DA Collet Set: 1/16 - 9/16" by 32nds
010-121	21 Piece 100DA Collet Set: 1/4 - 9/16" by 64ths
010-129	29 Piece 100DA Collet Set: 1/8 - 9/16" by 64ths
010-133	33 Piece 100DA Collet Set: 1/16 - 9/16" by 64ths



180DA Collet

180DA Collets Sets

018-109	9 Piece 180DA Collet Set: 1/4 - 3/4" by 16ths
018-117	17 Piece 180DA Collet Set: 1/4 - 3/4" by 32nds
018-121	21 Piece 180DA Collet Set: 1/8 - 3/4" by 32nds
018-133	33 Piece 180DA Collet Set: 1/4 - 3/4" by 64ths
018-141	41 Piece 180DA Collet Set: 1/8 - 3/4" by 64ths

DA Accessories

Nut and Replacement Nut Parts for DA Collet Chuck

Part Number	Description
100DA-1	100DA Nut Spacer
100DA-2	100DA Nut Retaining Ring
100DA-NUT	100DA Nut
180DA-1	180DA Nut Spacer
180DA-2	180DA Nut Retaining Ring
180DA-NUT	180DA Nut
200DA-1	200DA Nut Spacer
200DA-2	200DA Nut Retaining Ring
200DA-NUT	200DA Nut
300DA-1	300DA Nut Spacer
300DA-2	300DA Nut Retaining Ring
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 Chuck Extensions
180DA-3	Back-up screw for all CT, BT, NMTB 180DA chucks
180DA-4	Back-up screw for 180DA Collet Chuck Extensions
200DA-3	Back-up screw for all 40-taper 200DA Collet Chucks
200DA-4	Back-up screw for 200DA collet Chuck Extensions
200DA-5	Back-up screw for BT30 & BT35 200DA collet Chucks
300DA-3	Back-up screw for all CT, BT, NMTB, 300DA collet Chucks
300DA-4	Back-up screw for 300DA collet Chuck Extensions



BullsEye Holders

Having problems with your spindle accuracy?

- Beat-up machining center?
- Worn-out spindle?
- Carbide tip reamers?

Nikken BullsEye toolholders can correct run-out errors and help achieve accuracies back to 0.00003" to 0.00007" at 4 inches from the gauge line.

You get a new lease of life from your machine tool!

- Dramatically improve milling and reaming surface finish
- Increase drilling tool life by 5 times!
- Improve hole size and circularity accuracy

Contact us for more information about part numbers and pricing.





Current Promotion

Scan
these
QR Codes



Featured Video

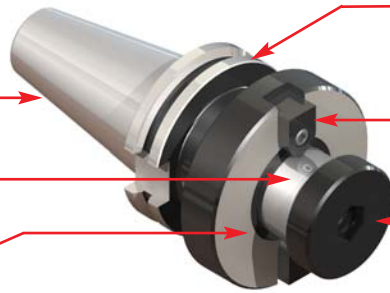
Shell Mill and Face Mill Holder Features

Our Shell Mill Holders are available from stock 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 bore diameters ranging from 1/2" (12mm) to 2" (50mm).

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



Shell Mill Holder

Nickel Chrome Molybdenum Alloy body

Keys included as standard for quick set up

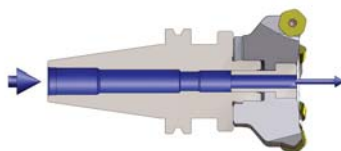
Heat-treated and coated carbon steel nut prevents wear and increases clamping pressure



Face Mill Holder

Coolant-Thru Applications

For Standard Shell Mill

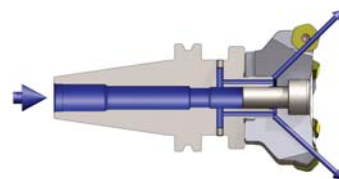


With coolant bolt (coolant hole through center): coolant applied from the nut face straight through, not through body of the shell mill.

For Coolant-Through Shell Mill



A. With coolant slotted bolt (grooves along the bolt): coolant applied through body of the shell mill.



B. Modified Shell Mill holder to supply coolant through the sides. Please contact us for more information.

CAT Shell Mill Holders

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper
- Available in high-speed balanceable versions

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



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



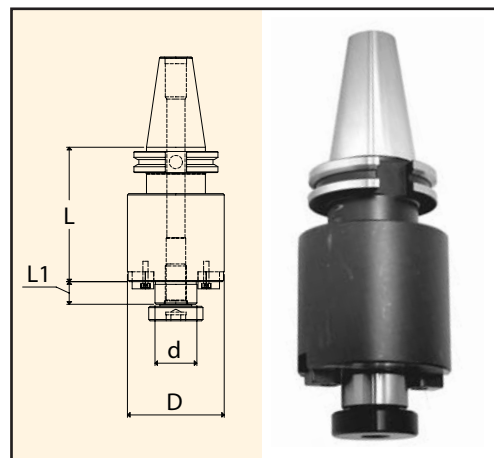
Set-up: quick and easy



Coolant-thru: thru-pilot (optional)

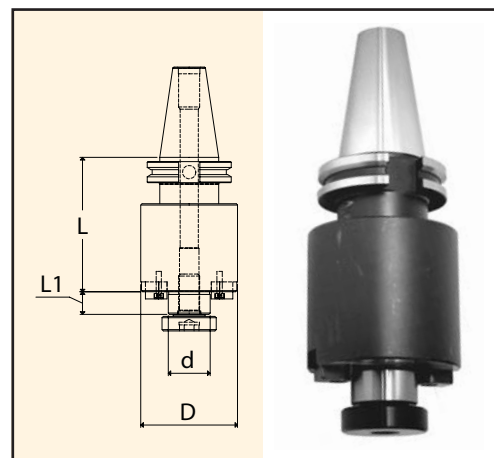
CAT40 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
C4001-0500-1.75	1/2"	1.75"	1.378"	0.57"	1/4"	1/4"-28
C4001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
C4011-0750-4.00	3/4"	4.00"	1.929"	0.67"	5/16"	3/8"-24
C4001-1000-1.75	1"	1.75"	2.382"	0.67"	3/8"	1/2"-20
C4011-1000-4.00	1"	4.00"	2.382"	0.67"	3/8"	1/2"-20
C4001-1250-2.00	1-1/4"	2.00"	2.882"	0.67"	1/2"	5/8"-18
C4011-1250-4.00	1-1/4"	4.00"	2.882"	0.67"	1/2"	5/8"-18
C4001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-16
C4011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16



CAT50 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
C5001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
C5011-0750-4.00	3/4"	4.00"	1.929"	0.67"	5/16"	3/8"-24
C5021-0750-6.00	3/4"	6.00"	1.929"	0.67"	5/16"	3/8"-24
C5031-0750-8.00	3/4"	8.00"	1.929"	0.67"	5/16"	3/8"-24
C5001-1000-1.75	1"	1.75"	2.382"	0.69"	3/8"	1/2"-20
C5011-1000-4.00	1"	4.00"	2.382"	0.69"	3/8"	1/2"-20
C5021-1000-6.00	1"	6.00"	2.382"	0.69"	3/8"	1/2"-20
C5031-1000-8.00	1"	8.00"	2.382"	0.69"	3/8"	1/2"-20
C5001-1250-1.75	1-1/4"	1.75"	2.882"	0.69"	1/2"	5/8"-18
C5011-1250-4.00	1-1/4"	4.00"	2.882"	0.69"	1/2"	5/8"-18
C5021-1250-6.00	1-1/4"	6.00"	2.882"	0.69"	1/2"	5/8"-18
C5031-1250-8.00	1-1/4"	8.00"	2.882"	0.69"	1/2"	5/8"-18
C5001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-1
C5011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16
C5021-1500-6.00	1-1/2"	6.00"	3.799"	0.93"	5/8"	3/4"-16
C5031-1500-8.00	1-1/2"	8.00"	3.799"	0.93"	5/8"	3/4"-16
C5001-2000-2.00	2"	2.00"	4.382"	0.93"	3/4"	1"-14
C5011-2000-4.00	2"	4.00"	4.382"	0.93"	3/4"	1"-14
C5021-2000-6.00	2"	6.00"	4.382"	0.93"	3/4"	1"-14



Accessories:



Replacement Keys
Page 83



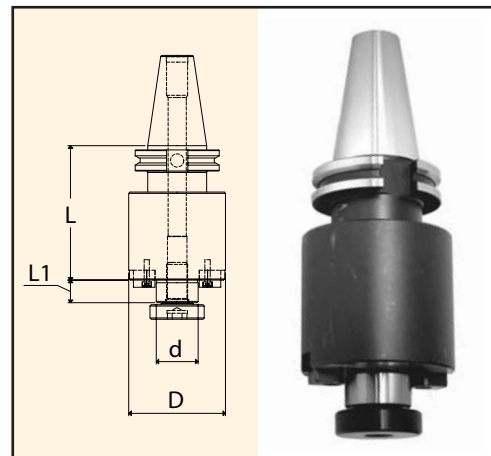
Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

CAT Shell Mill Holders

CAT40 - Metric

Part Number	d	L	D	L1	Key Size	Arbor Thread
C4001-22-50	22mm	50mm	40mm	19mm	10mm	M10
C4001-27-50	27mm	50mm	48mm	21mm	12mm	M12
C4001-32-50	32mm	50mm	58mm	24mm	14mm	M16
C4001-40-60	40mm	60mm	67mm	27mm	16mm	M20



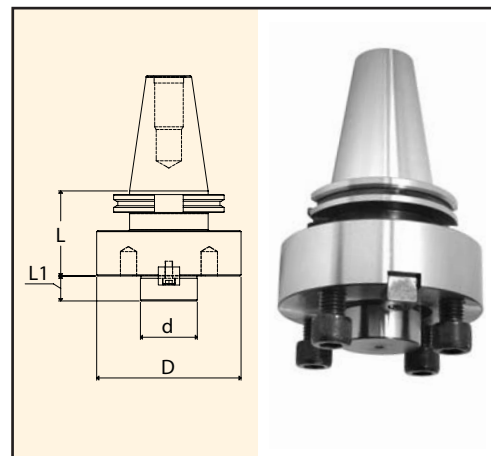
CAT50 - Metric

Part Number	d	L	D	L1	Key Size	Arbor Thread
C5001-22-60	22mm	60mm	40mm	19mm	10mm	M10
C5001-27-60	27mm	60mm	48mm	21mm	12mm	M12
C5001-32-60	32mm	60mm	58mm	24mm	14mm	M16
C5001-40-60	40mm	60mm	67mm	27mm	16mm	M20

CAT50 Face Mill Holders

Part Number	d	L	D	L1	Key size
C50F1-2000-2.95	2"	2.95"	5.06"	0.86"	3/4"
C50F1-2500-2.95	2-1/2"	2.95"	5.00"	1.18"	1.00"

Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

BT Shell Mill Holders

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper
- Available in high-speed balanceable versions



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



Set-up: quick and easy



Coolant-thru: thru-pilot (optional)

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

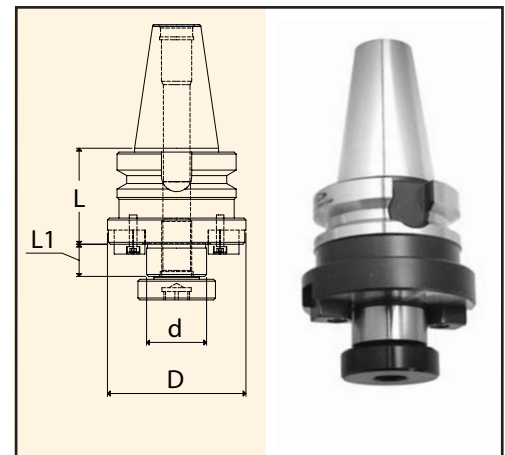
Part Number	d	L	D	L1	Key Size	Arbor Thread
B3001-0500-1.19	1/2"	1.19"	1.378"	0.57"	1/4"	1/4"-28
B3001-0750-1.19	3/4"	1.19"	2.929"	0.67"	5/16"	3/8"-24
B3001-1000-1.19	1"	1.19"	2.382"	0.67"	3/8"	1/2"-20

BT40 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
B4001-0500-1.75	1/2"	1.75"	1.378"	0.57"	1/4"	1/4"-28
B4001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
B4001-1000-1.75	1"	1.75"	2.382"	0.67"	3/8"	1/2"-20
B4001-1250-2.00	1-1/4"	2.00"	2.882"	0.67"	1/2"	5/8"-18
B4001-1500-2.00	1-1/2"	2.00"	3.799"	0.92"	5/8"	3/4"-16

BT50 - Inch

Part Number	d	L	D	L1	Key Size	Arbor Thread
B5001-0750-1.75	3/4"	1.75"	1.929"	0.67"	5/16"	3/8"-24
B5001-1000-1.75	1"	1.75"	2.382"	0.68"	3/8"	1/2"-20
B5011-1000-4.00	1"	4.00"	2.382"	0.68"	3/8"	1/2"-20
B5021-1000-6.00	1"	6.00"	2.382"	0.68"	3/8"	1/2"-20
B5001-1250-2.00	1-1/4"	2.00"	2.882"	0.68"	1/2"	5/8"-18
B5011-1250-4.00	1-1/4"	4.00"	2.882"	0.68"	1/2"	5/8"-18
B5021-1250-6.00	1-1/4"	6.00"	2.882"	0.68"	1/2"	5/8"-18
B5001-1500-2.00	1-1/2"	2.00"	3.799"	0.93"	5/8"	3/4"-16
B5011-1500-4.00	1-1/2"	4.00"	3.799"	0.93"	5/8"	3/4"-16
B5021-1500-6.00	1-1/2"	6.00"	3.799"	0.93"	5/8"	3/4"-16
B5001-2000-2.00	2"	2.00"	4.382"	0.93"	3/4"	1"-14
B5011-2000-4.00	2"	4.00"	4.382"	0.93"	3/4"	1"-14



Accessories:



Replacement Keys
Page 83



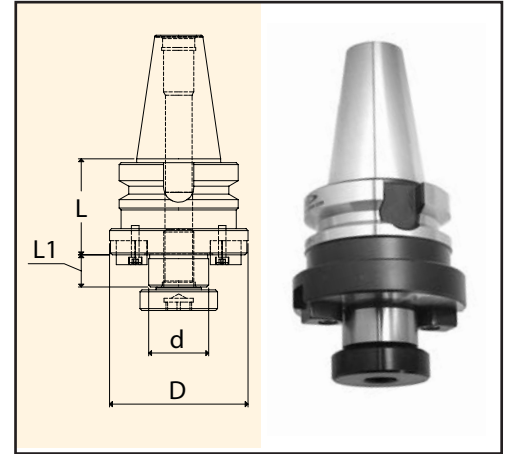
Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

BT Shell Mill Holders

BT40 - Metric

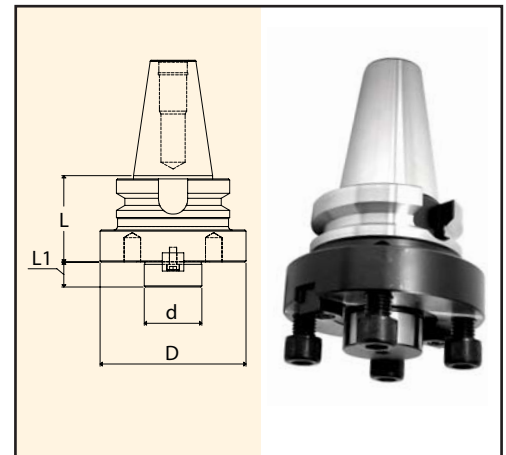
Part Number	d	L	D	L1	Key size	Arbor thread
B4001-22-50	22mm	50mm	40mm	19mm	10mm	M10
B4001-27-50	27mm	50mm	48mm	21mm	12mm	M12
B4001-32-50	32mm	50mm	58mm	24mm	14mm	M16
B4001-40-60	40mm	60mm	67mm	27mm	16mm	M20



BT50 Face Mill Holders

Part Number	d	L	D	L1	Key size
B50F1-2000-3.00	2"	3.00"	5.06"	0.86"	3/4"
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".



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

HSK Shell Mill Holders

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

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



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



Set-up: quick and easy

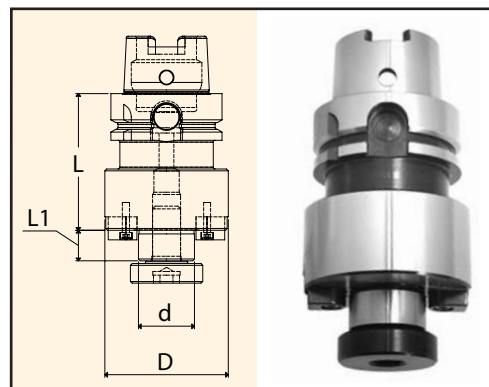


Coolant-thru: thru-pilot (optional)

HSK40A/63A

Part Number	d	L	D	L1	Key size	Arbor thread
HSK40A-SM0750-60	3/4"	2.36"	1.69"	0.67"	5/16"	3/8"-24
HSK40A-SM1000-60	1"	2.36"	2.17"	0.67"	3/8"	1/2"-20
HSK63A-SM0750-3.00	3/4"	3.00"	1.693"	0.669"	5/16"	3/8"-24
HSK63A-SM0750-5.00	3/4"	5.00"	1.693"	0.669"	5/16"	3/8"-24
HSK63A-SM1000-3.00	1"	3.00"	2.165"	0.669"	3/8"	1/2"-20
HSK63A-SM1000-5.00	1"	5.00"	2.165"	0.669"	3/8"	1/2"-20
HSK63A-SM1250-3.00	1-1/4"	3.00"	2.756"	0.669"	1/2"	5/8"-18
HSK63A-SM1250-5.00	1-1/4"	5.00"	2.756"	0.669"	1/2"	5/8"-18

Coolant tube and coolant tube wrench are not included. See page 83 for more details.



HSK100A

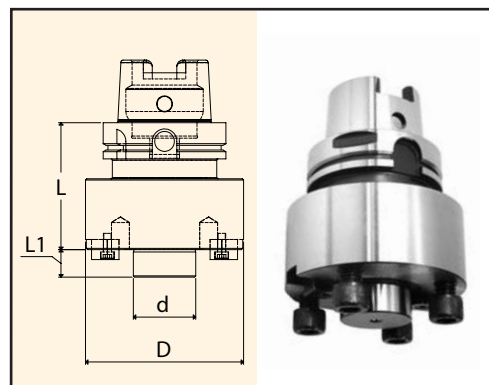
Part Number	d	L	D	L1	Key size	Arbor thread
HSK100A-SM0750-4.00	3/4"	4.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM0750-6.00	3/4"	6.00"	1.693"	0.669"	5/16"	3/8"-24
HSK100A-SM1000-4.00	1"	4.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1000-6.00	1"	6.00"	2.165"	0.669"	3/8"	1/2"-20
HSK100A-SM1250-4.00	1-1/4"	4.00"	2.756"	0.669"	1/2"	5/8"-18
HSK100A-SM1250-6.00	1-1/4"	6.00"	2.756"	0.669"	1/2"	5/8"-18
HSK100A-SM1500-4.00	1-1/2"	4.00"	3.504"	0.902"	5/8"	3/4"-16
HSK100A-SM1500-6.00	1-1/2"	6.00"	3.504"	0.902"	5/8"	3/4"-16
HSK100A-SM2000-4.00	2"	4.00"	4.488"	0.902"	3/4"	1"-14
HSK100A-SM2000-6.00	2"	6.00"	4.488"	0.902"	3/4"	1"-14

Coolant tube and coolant tube wrench are not included. See page 83 for more details.

HSK100A Face Mill Holders

Part Number	d	L	D	L1	Key size
HSK100A-FM2000-4.00	2"	4.00"	5.062"	0.866"	3/4"
HSK100A-FM2000-6.00	2"	6.00"	5.062"	0.866"	3/4"
HSK100A-FM2500-4.00	2-1/2"	4.00"	5.062"	0.866"	1.00"
HSK100A-FM2500-6.00	2-1/2"	6.00"	5.062"	0.866"	1.00"

Note: Face Mill Holders are supplied with four 5/8-11 mounting bolts. Pitch circle diameter is 4".



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

NMTB Shell Mill Holders

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

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



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



Set-up: quick and easy

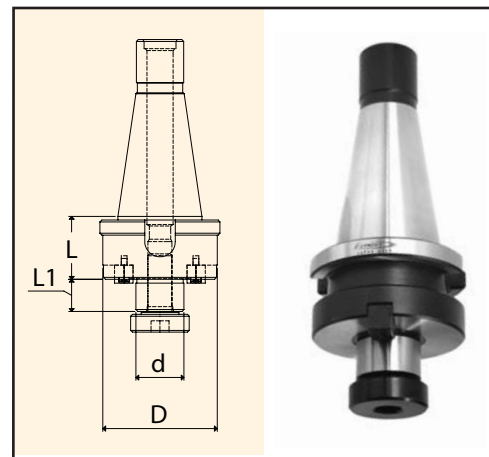


Coolant-thru: thru-pilot (optional)

NMTB30/40/50

Part Number	Taper	d	L	D	L1	Key size	Arbor thread
N3001-0500-1.25	NMTB30	1/2"	1.25"	1.378"	0.57"	1/4"	1/4"-28
N3001-0750-1.31	NMTB30	3/4"	1.31"	1.929"	0.67"	5/16"	3/8"-24
N3001-1000-1.31	NMTB30	1"	1.31"	2.382"	0.67"	3/8"	1/2"-20
N3001-1250-1.44	NMTB30	1-1/4"	1.44"	2.882"	0.67"	1/2"	5/8"-18
N4001-0500-0.87	NMTB40	1/2"	0.87"	1.382"	0.57"	1/4"	1/4"-28
N4001-0750-0.87	NMTB40	3/4"	0.87"	1.937"	0.67"	5/16"	3/8"-24
N4001-1000-1.31	NMTB40	1"	1.31"	2.382"	0.67"	3/8"	1/2"-20
N4001-1250-1.50	NMTB40	1-1/4"	1.50"	2.882"	0.67"	1/2"	5/8"-18
N4001-1500-1.63	NMTB40	1-1/2"	1.63"	3.500"	0.93"	5/8"	3/4"-16
N5001-0750-1.25	NMTB50	3/4"	1.25"	1.929"	0.67"	5/16"	3/8"-24
N5001-1000-1.88	NMTB50	1"	1.88"	2.382"	0.67"	3/8"	1/2"-20
N5001-1250-1.88	NMTB50	1-1/4"	1.88"	2.882"	0.67"	1/2"	5/8"-18
N5001-1500-1.88	NMTB50	1-1/2"	1.88"	3.500"	0.93"	5/8"	3/4"-16
N5001-2000-1.88	NMTB50	2"	1.88"	4.382"	0.93"	3/4"	1"-14

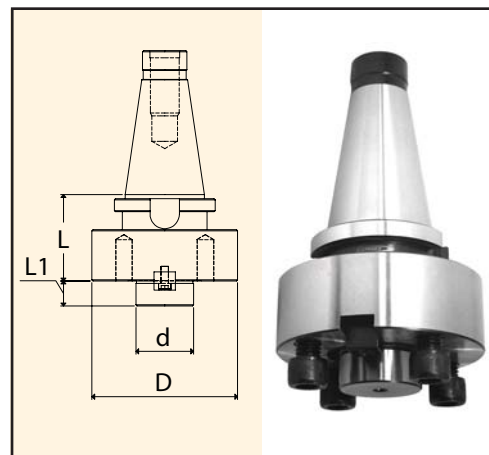
NMTB shanks are suitable for use with Erickson QC spindles.



NMTB Face Mill Holders

Part Number	Taper	d	L	D	L1	Key size
N50F1-2000-3.00	NMTB50	2"	3.00"	5.05"	0.87"	3/4"
N50F1-2500-3.00	NMTB50	2-1/2"	3.00"	5.00"	1.18"	1"

NMTB shanks are suitable for use with Erickson QC spindles.
Face Mill Holders are supplied with four 5/8-11 mounting bolts.
Pitch circle diameter is 4".



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

R8 Shell Mill Holders

- Accommodates face mills with bore diameters ranging from 1/2" (12mm) to 2" (50mm)
- Pilot diameter sized for precision fit with cutter
- Removable/replaceable drive keys as standard
- Fine thread locking screw included
- AT3 or better taper

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



TIR: < .00015 run out at pilot



Milling
★★★★☆



Speed: up to 30,000 rpm



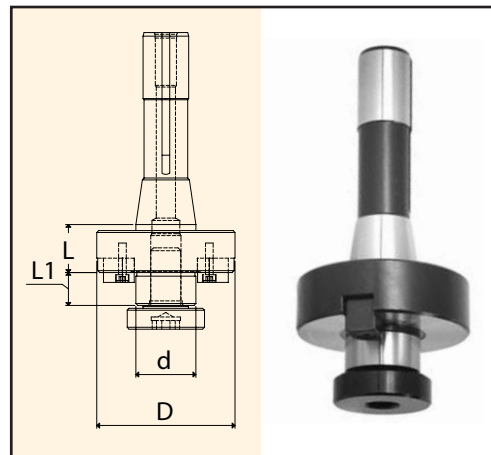
Set-up: quick and easy



Coolant-thru: thru-pilot (optional)

R8

Part Number	Taper	d	L	D	L1	Key size	Arbor thread
850-032-1.00	R8	1/2"	1.00"	1.38"	0.57"	1/4"	1/4"-28
850-048-1.00	R8	3/4"	1.00"	2.00"	0.69"	5/16"	3/8"-24
850-064-1.00	R8	1"	1.00"	2.38"	0.69"	3/8"	1/2"-20
850-080-1.00	R8	1-1/4"	1.00"	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



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

Shell Mill Holders

High-Speed Balanceable Shell Mill Holders

Balanceable Shell Mill Holders are available in CAT and BT taper styles. Part numbers are identical to standard Shell Mill Holders part numbers except that there is a “B” at the end. (Ex: C4001-0500-1.75**B**)

- 30 and 40 taper toolholders are prebalanced to G2.5 or better at 24,000 RPM
- 50 taper toolholders are prebalanced to G2.5 or better at 15,000 RPM
- Lyndex-Nikken uses a Patented Balancing Method which allows greater compensation necessary for extremely high rpm applications.
- hsBalance™ toolholders come with a printout of actual balance condition
- hsBalance™ toolholders need to be used with balance-qualified pull studs
- A balancing machine is required to balance or re-balance toolholders



CAT40 hsBalance™ Shell Mill Holder



BT40 hsBalance™ Shell Mill Holder

3-Lock Shell Mill Holders for Dual Contact Spindle

3-Lock Shell Mill Holders are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken’s revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



Replacement Keys
Page 83



Replacement Arbor Screws
Page 83

Note: All shell mill holders are coolant-thru. Arbor screws are not coolant-thru but can be modified to facilitate coolant capabilities: see cutter manufacturer for modification requirement.

Accessories

Replacement Keys

Part Number	Description	to use with holder size
1/2-KEYSET	two 1/4" rotating pins	1/2"
3/4-KEYSET	two 5/16" keys with screws	3/4"
1-KEYSET	two 3/8" keys with screws	1"
1-1/4-KEYSET	two 1/2" keys with screws	1-1/4"
1-1/2-KEYSET	two 5/8" keys with screws	1-1/2"
2-KEYSET	two 3/4" keys with screws	2"
2-1/2-KEYSET	two 1" keys with screws	2-1/2"
22-KEYSET	two 10mm keys with screws	22mm
27-KEYSET	two 12mm keys with screws	27mm
32-KEYSET	two 14mm keys with screws	32mm
40-KEYSET	two 16mm keys with screws	40mm



Replacement Arbor Screws

Part Number	to use with holder size
A5/8-11	Face Mill Mounting Bolt
A1/4-28	1/2"
A3/8-24	3/4"
A1/2-20	1"
A5/8-18	1-1/4"
A3/4-16	1-1/2"
A1-14	2"
A10mm-P1.5	22.0mm
A12mm-P1.75	27.0mm
A16mm-P2	32.0mm
A20mm-P2.5	40.0mm



Coolant Tube Wrench for HSK holders

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

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
HSK40-TUBE	Coolant tube for HSK40 holders
HSK100-TUBE	Coolant tube for HSK100 holders



Angleheads

Our large range of Angleheads is designed to easily and effectively upgrade your machine tool capabilities by eliminating additional setups.

Units are equipped with 4340 ground gear and ground shaft components, high precision spindle bearings (p4 quality) and cast iron bodies for vibration dampening. Each tool also features high torque capabilities for aggressive milling and drilling.

Visit us online at www.lyndexnikken.com to learn more about our complete line of Angleheads, Fluidheads and Hispinners.





End Mill Holders

ER/TG/DA Collet Chucks

Shell Mill Holders

Drill Chucks



Current Promotion

Scan
these
QR Codes



Featured Video

Drill Chuck Features

High-Precision, high-rigidity, compact design and safe

Our Drill Chucks feature a unique compact design and small head which prevent the drill from slipping during drilling operations.

- Balanced to 12,000RPM
- High Precision .0005 or better runout at 4xD
- Coolant-thru capable
- Short compact two-pieces design for flexible replacement of head only
- Maintenance free

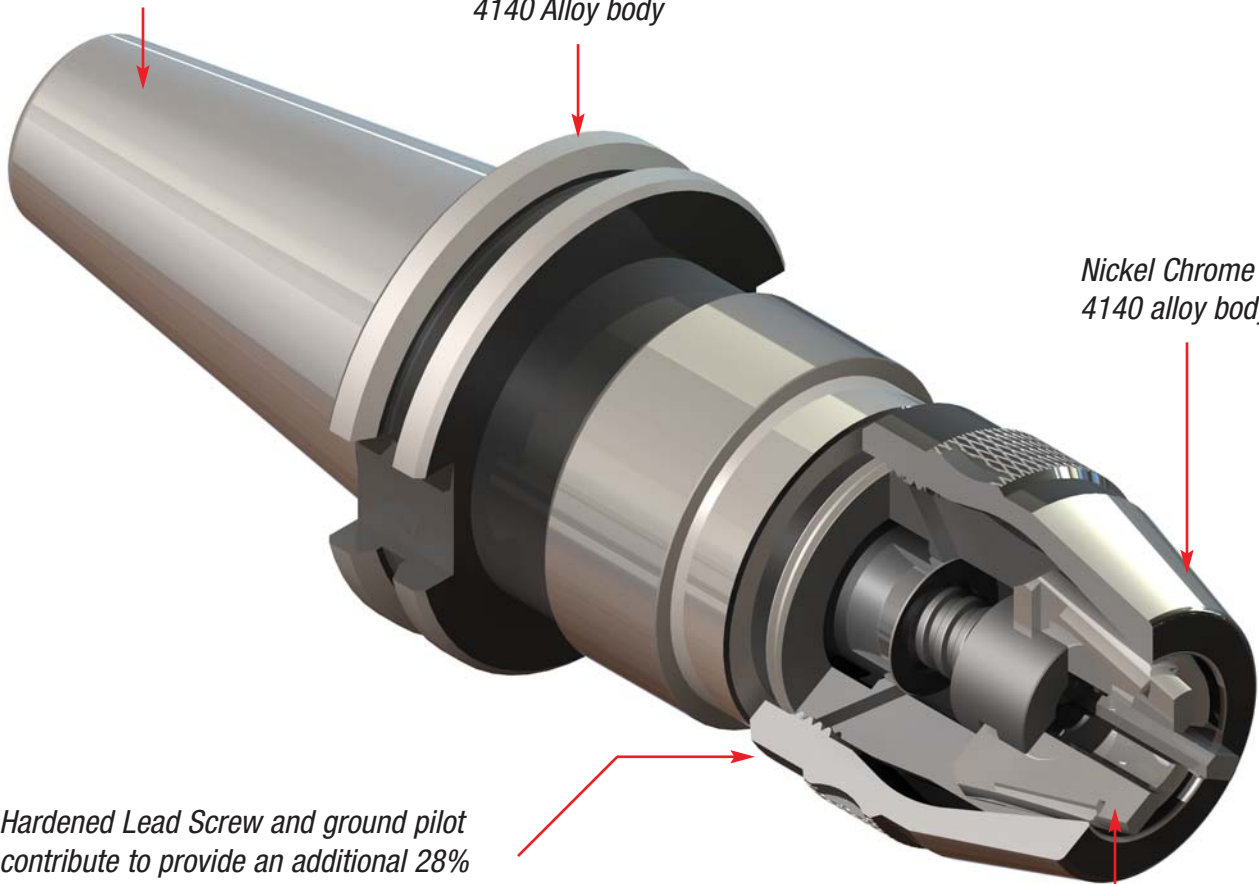
Taper ground to AT3 or better to ensure 80% taper contact

Nickel Chrome 4140 Alloy body

Nickel Chrome 4140 alloy body

Hardened Lead Screw and ground pilot contribute to provide an additional 28% clamping force compared to other drill chucks

Nickel Chrome Molybdenum Ground 4340 alloy jaws hardened to 60Rc



CAT and BT Integral Keyless Drill Chucks

- Compact design and small head prevent drill slippage during operation
- Balanced to 12,000RPM
- High precision .0005" or better runout at 4xD
- Coolant-thru capable

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



TIR: minimal



Speed: up to 12,000 rpm



Set-up: quick and easy



Coolant-thru: available



Drilling

★★★★☆

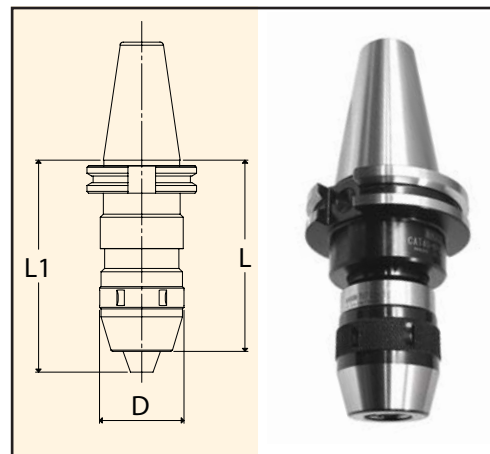


Reaming

★★★★☆

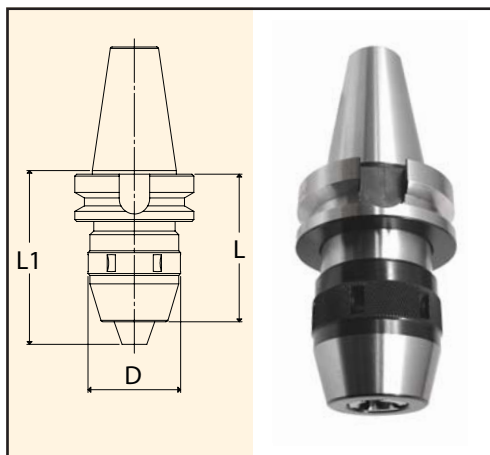
CAT40/50 Taper

Part Number	Taper	Capacity	L	L1	D
CAT40-NPU8-80U	CT40	0-5/16" (0-8mm)	3.40"	3.68"	1.36"
CAT40-NPU8-110U	CT40	0-5/16" (0-8mm)	4.54"	4.82"	1.36"
CAT40-NPU13-105U	CT40	3/32-1/2" (2-13mm)	4.37"	4.80"	1.81"
CAT40-NPU13-130U	CT40	3/32-1/2" (2-13mm)	5.40"	5.83"	1.81"
CAT50-NPU8-80U	CT50	0-5/16" (0-8mm)	3.25"	3.52"	1.36"
CAT50-NPU13-90U	CT50	3/32-1/2" (2-13mm)	3.82"	4.26"	1.81"



BT30/40/50 Taper

Part Number	Taper	Capacity	L	L1	D
BT30-NPU8-70	BT30	0-5/16" (0-8mm)	3.01"	3.29"	1.36"
BT30-NPU13-95	BT30	3/32-1/2" (2-13mm)	4.02"	4.45"	1.81"
BT40-NPU8-70	BT40	0-5/16" (0-8mm)	3.01"	3.29"	1.36"
BT40-NPU13-80	BT40	3/32-1/2" (2-13mm)	3.39"	3.82"	1.81"
BT50-NPU13-90	BT50	3/32-1/2" (2-13mm)	3.82"	4.26"	1.81"



Accessories:



Drill Chuck Wrench
Page 89



Replacement Drill Chuck
Page 89



Replacement Jaws
Page 89

NMTB, HSK and Straight Shank Integral Keyless Drill Chucks

- Compact design and small head prevent drill slippage during operation
- Balanced to 12,000RPM
- High precision .0005" or better runout at 4xD
- Coolant-thru capable

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



TIR: minimal



Speed: up to 12,000 rpm



Set-up: quick and easy



Coolant-thru: available



Drilling
★ ★ ★ ★ ★

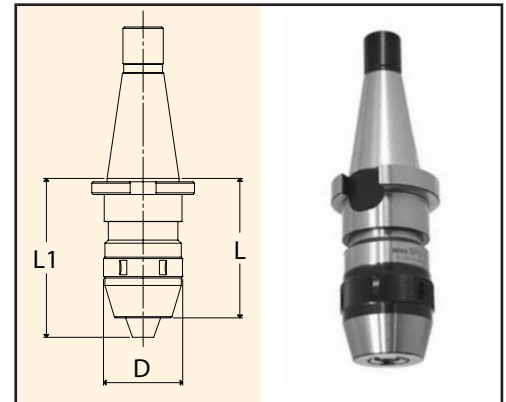


Reaming
★ ★ ★ ★ ★

NMTB40/50

Part Number	Taper	Capacity	L	L1	D
NMTB40-NPU8-76	NMTB40	0-5/16" (0-8.0mm)	3.25"	3.52"	1.36"
NMTB40-NPU13-86	NMTB40	3/32-1/2" (2-13.0mm)	3.62"	4.06"	1.81"
NMTB50-NPU13-86	NMTB50	3/32-1/2" (2-13.0mm)	3.62"	4.06"	1.81"

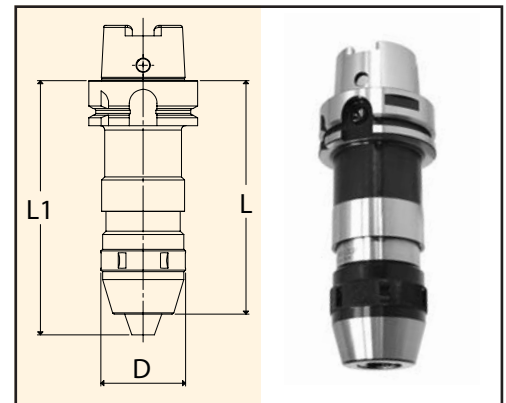
NMTB shanks are suitable for use with Erickson QC spindles.



HSK40A/63A/100A

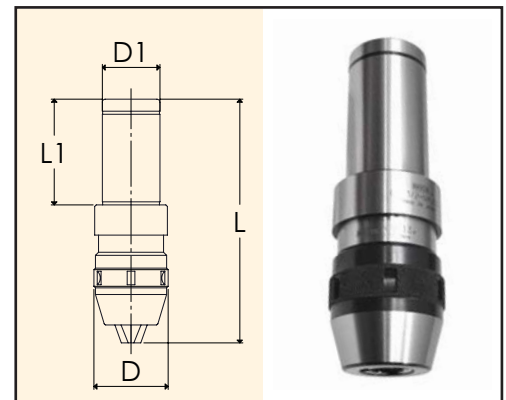
Part Number	Taper	Capacity	L	L1	D
HSK40A-NPU8-114	HSK40A	0-5/16" (0-8.0mm)	4.48"	4.76"	1.52"
HSK63A-NPU13C-135	HSK63A	3/32-1/2" (2-13.0mm)	5.59"	6.03"	1.81"
HSK100A-NPU13C-145	HSK100A	3/32-1/2" (2-13.0mm)	5.98"	6.42"	1.81"

Coolant tube and coolant tube wrench are not included. See page 89 for details.



Straight Shank

Part Number	Capacity	D	D1	L	L1
D1.1/4-NPU13-6.23	3/32-1/2" (2-13.0mm)	1.92"	1.1/4"	6.23"	2.44"
D1.1/2-NPU13-6.35	3/32-1/2" (2-13.0mm)	1.92"	1.1/2"	6.35"	2.75"



Accessories:



Drill Chuck Wrench
Page 89



Replacement Drill Chuck
Page 89



Replacement Jaws
Page 89

Drill Chuck Accessories

Replacement Wrench for Drill Chuck

Part Number	Description
NPU8-SPAN	Fits 5/16" (8.0mm) chucks
NPU13-SPAN	Fits 1/2" (13.0mm) chucks

Note: The wrench is not included with the holder, but sold separately.



Replacement Drill Chuck

Part Number	Description
9NPU-8	Replacement 1/4" Chuck
9NPU-13	Replacement 1/2" Chuck



Replacement Jaws for Drill Chuck

Part Number	Description
SP08062	Jaw Set for 1/4" Chuck
SP13062	Jaw Set for 1/2" Chuck



Coolant Tube Wrench for HSK holders

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

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



Coolant Tube HSK holders

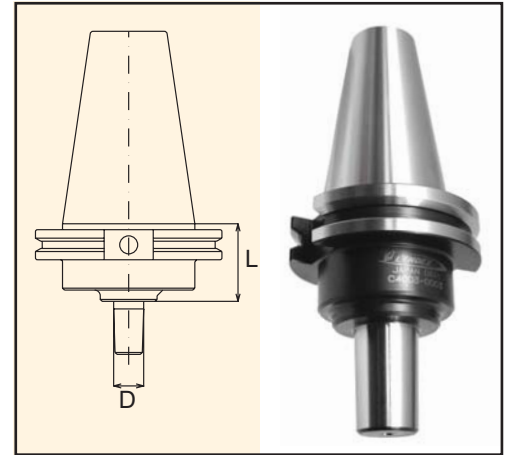
Part Number	Description
HSK63-TUBE	Coolant tube for HSK63 Holders
HSK40-TUBE	Coolant tube for HSK40 Holders
HSK100-TUBE	Coolant tube for HSK100 Holders



CAT and BT Jacobs Taper Holders

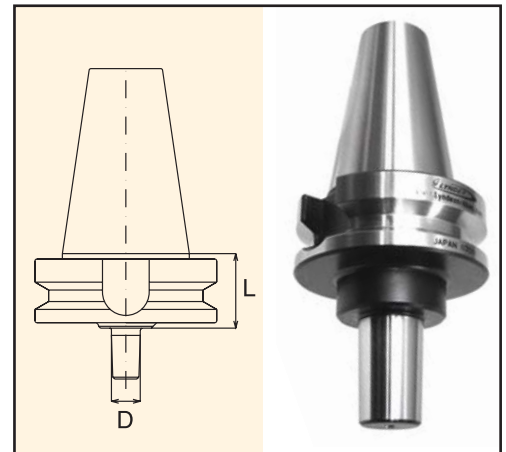
CAT40/50

Part Number	Taper	JT Size	L	D
C4003-0002-1.61	CT40	JT#2	1.61"	.560"
C4003-0003-1.58	CT40	JT#3	1.58"	.812"
C4003-0004-1.49	CT40	JT#4	1.49"	1.13"
C4003-0006-1.61	CT40	JT#6	1.61"	.677"
C4003-0033-1.61	CT40	JT#33	1.61"	.625"
C5003-0002-1.61	CT50	JT#2	1.61"	.560"
C5003-0003-1.58	CT50	JT#3	1.58"	.812"
C5003-0004-1.49	CT50	JT#4	1.49"	1.13"
C5003-0006-1.61	CT50	JT#6	1.61"	.677"
C5003-0033-1.61	CT50	JT#33	1.61"	.625"



BT30/40/50

Part Number	Taper	JT Size	L	D
B3003-0001-1.06	BT30	JT#1	1.06"	.385"
B3003-0002-1.02	BT30	JT#2	1.02"	.560"
B3003-0003-0.98	BT30	JT#3	0.98"	.812"
B3003-0006-1.02	BT30	JT#6	1.02"	.677"
B3003-0033-1.02	BT30	JT#33	1.02"	.625"
B4003-0002-1.61	BT40	JT#2	1.61"	.560"
B4003-0003-1.57	BT40	JT#3	1.57"	.812"
B4003-0006-1.61	BT40	JT#6	1.61"	.677"
B4003-0033-1.61	BT40	JT#33	1.61"	.625"
B5003-0002-1.61	BT50	JT#2	1.61"	.560"
B5003-0003-1.57	BT50	JT#3	1.57"	.812"
B5003-0004-1.49	BT50	JT#4	1.49"	1.13"
B5003-0006-1.61	BT50	JT#6	1.61"	.677"
B5003-0033-1.61	BT50	JT#33	1.61"	.625"



Accessories:



Jacobs Brand Drill Chuck
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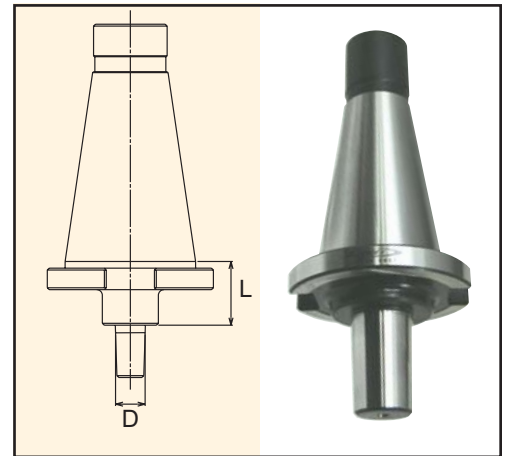
Replacement Key
Page 92

NMTB and R8 Jacobs Taper Holders

NMTB30/40/50

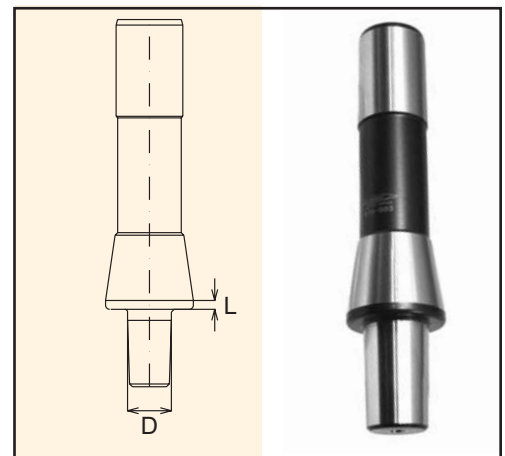
Part Number	Taper	JT Size	L	D
N3003-0001-0.63	NMTB30	JT#1	0.63"	.385"
N3003-0002-0.59	NMTB30	JT#2	0.59"	.560"
N3003-0003-0.55	NMTB30	JT#3	0.55"	.812"
N3003-0006-0.59	NMTB30	JT#6	0.59"	.677"
N3003-0033-0.59	NMTB30	JT#33	0.59"	.625"
N4003-0001-0.69	NMTB40	JT#1	0.69"	.385"
N4003-0002-0.65	NMTB40	JT#2	0.65"	.560"
N4003-0003-0.61	NMTB40	JT#3	0.61"	.812"
N4003-0006-0.65	NMTB40	JT#6	0.65"	.677"
N4003-0033-0.65	NMTB40	JT#33	0.65"	.625"
N5003-0002-1.34	NMTB50	JT#2	1.34"	.560"
N5003-0003-1.30	NMTB50	JT#3	1.30"	.812"
N5003-0004-1.22	NMTB50	JT#4	1.22"	1.13"
N5003-0006-1.34	NMTB50	JT#6	1.34"	.677"
N5003-0033-1.34	NMTB50	JT#33	1.34"	.625"

NMTB shanks are suitable for use with Erickson QC spindles.



R8

Part Number	Taper	JT Size	L	D
870-001-0.13	R8	JT#1	0.13"	.385"
870-002-0.13	R8	JT#2	0.13"	.560"
870-003-0.13	R8	JT#3	0.13"	.812"
870-006-0.13	R8	JT#6	0.13"	.677"
870-033-0.13	R8	JT#33	0.13"	.625"



Accessories:



Jacobs Brand Drill Chuck
Page 92



Replacement Key
Page 92

Jacobs Drill Chucks Accessories

Jacobs Brand Drill Chuck

Part Number	Range	Fits Taper	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-J2	1/32 - 1/2"	JT#2	High Precision Keyless Chuck
130-J33	1/32 - 1/2"	JT#33	High Precision Keyless Chuck
130-J6	1/32 - 1/2"	JT#6	High Precision Keyless Chuck
130-JT2	1/32 - 1/2"	JT#2	High Precision High Torque Keyless Chuck
130-JT33	1/32 - 1/2"	JT#33	High Precision High Torque Keyless Chuck
130-JT6	1/32 - 1/2"	JT#6	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
160-JT6	1/8 - 5/8"	JT#6	High Precision High Torque 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

Note: All high precision, high torque chucks come with a wrench.



Replacement Key

Part Number	Description
K-3	Key for plain bearing chuck



End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks

CAT and BT Morse Taper Holders

- Balanced to 12,000RPM
- Coolant-thru capable



TIR: minimal



Speed: up to 12,000 rpm



Set-up: quick and easy



Coolant-thru: available



Drilling

★★★★★



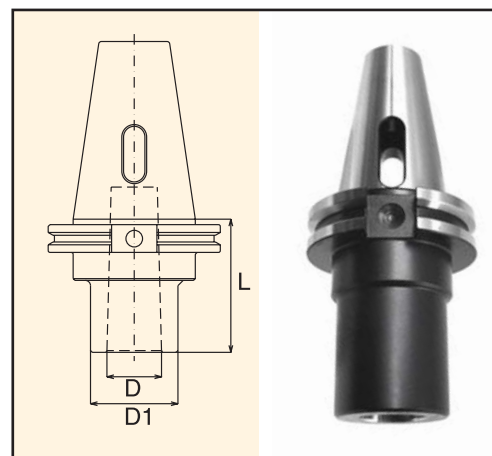
Reaming

★★★★★

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

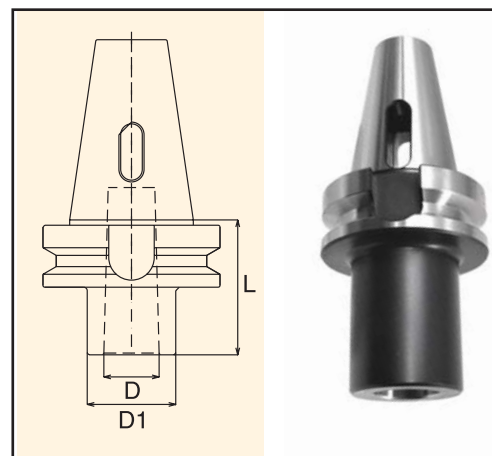
CAT 40/50

Part Number	Taper	Size	L	D	D1
C4004-0001-1.75	CT40	MT#1	1.75"	.475"	1.00"
C4004-0002-2.36	CT40	MT#2	2.36"	.700"	1.25"
C4004-0003-3.00	CT40	MT#3	3.00"	.938"	1.57"
C4004-0004-3.54	CT40	MT#4	3.54"	1.23"	1.97"
C5004-0002-1.75	CT50	MT#2	1.75"	.700"	1.25"
C5004-0003-1.75	CT50	MT#3	1.75"	.938"	1.57"
C5004-0004-3.00	CT50	MT#4	3.00"	1.23"	1.97"
C5004-0005-4.13	CT50	MT#5	4.13"	1.75"	2.75"



BT 30/40/50

Part Number	Taper	Size	L	D	D1
B3004-0001-1.75	BT30	MT#1	1.75"	.475"	1.00"
B3004-0002-2.36	BT30	MT#2	2.36"	.700"	1.25"
B4004-0001-1.75	BT40	MT#1	1.75"	.475"	1.00"
B4004-0002-2.36	BT40	MT#2	2.36"	.700"	1.25"
B4004-0003-3.00	BT40	MT#3	3.00"	.938"	1.57"
B4004-0004-3.54	BT40	MT#4	3.54"	1.23"	1.97"
B5004-0002-1.75	BT50	MT#2	1.75"	.700"	1.25"
B5004-0003-1.75	BT50	MT#3	1.75"	.938"	1.57"
B5004-0004-3.00	BT50	MT#4	3.00"	1.23"	1.97"
B5004-0005-4.13	BT50	MT#5	4.13"	1.75"	2.75"



NMTB and R8 Morse Taper Holders

- Balanced to 12,000RPM
- Coolant-thru capable



TIR: minimal



Speed: up to 12,000 rpm



Set-up: quick and easy



Coolant-thru: available



Drilling
★★★★☆

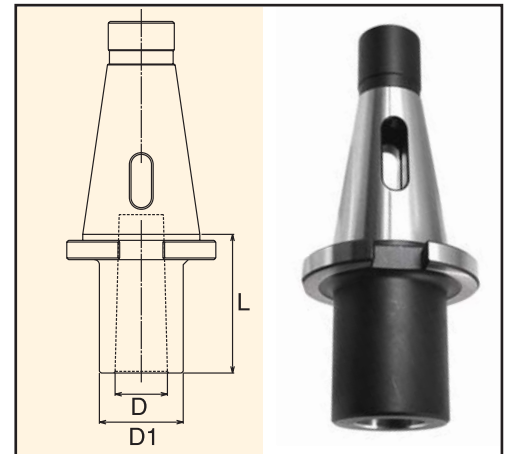


Reaming
★★★★☆

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

NMTB 30/40/50

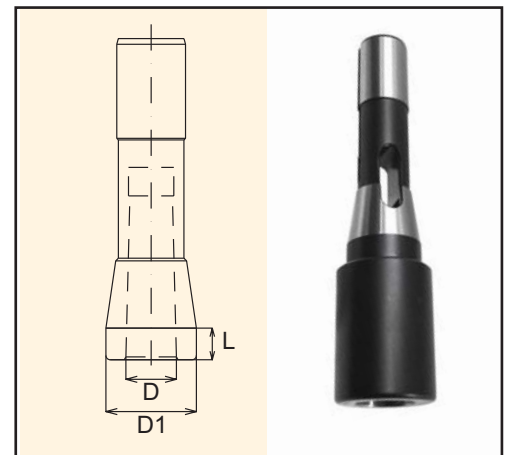
Part Number	Taper	Size	L	D	D1
N3004-0001-1.00	NMTB30	MT#1	1.00"	0.48"	1.00"
N3004-0002-2.13	NMTB30	MT#2	2.13"	0.70"	1.25"
N3004-0003-2.81	NMTB30	MT#3	2.81"	0.94"	1.57"
N4004-0001-0.94	NMTB40	MT#1	0.94"	0.48"	1.00"
N4004-0002-1.75	NMTB40	MT#2	1.75"	0.70"	1.25"
N4004-0003-2.25	NMTB40	MT#3	2.25"	0.94"	1.57"
N4004-0004-3.00	NMTB40	MT#4	3.00"	1.23"	1.97"
N5004-0002-1.88	NMTB50	MT#2	1.88"	0.70"	1.25"
N5004-0003-2.38	NMTB50	MT#3	2.38"	0.94"	1.57"
N5004-0004-3.25	NMTB50	MT#4	3.25"	1.23"	1.97"
N5004-0005-4.63	NMTB50	MT#5	4.63"	1.75"	2.75"



NMTB shanks are suitable for use with Erickson QC spindles.

R8

Part Number	Taper	Size	L	D	D1
840-001-0.44	R8	MT#1	0.44"	0.48"	1.00"
840-002-0.44	R8	MT#2	0.44"	0.70"	1.25"
840-003-2.56	R8	MT#3	2.56"	0.94"	1.57"





End Mill Holders

ER/TG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders



Current Promotion

Scan
these
QR Codes



Featured Video

Tap Holders

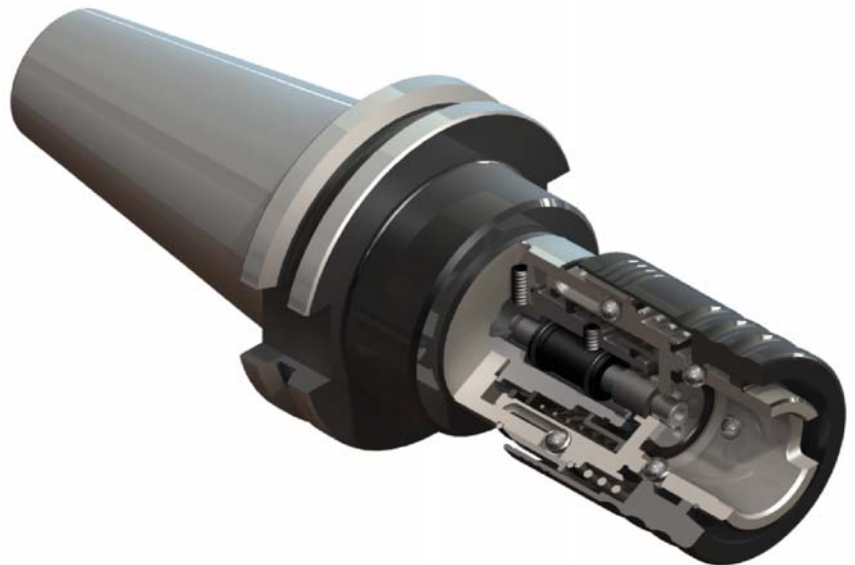
Our Tapping Systems include tension-compression and rigid holders in all tapers and shanks. Coolant-thru available for both tension-compression and rigid style holders.

Rigid Tap Holders

- Excellent for fast tapping on synchronous cycles
- 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

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 pressure
- Maximum pressure: 750 psi



Tension Compression Tap Holders

- Adaptive 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 (downward 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 backflow of coolant into the spindle at higher pressures
- Maximum pressure: 500 psi

End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

CAT Tap Holders

- 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 possibility of tap slippage



TIR: minimal



Speed: up to 5,000 rpm



Set-up: quick and easy

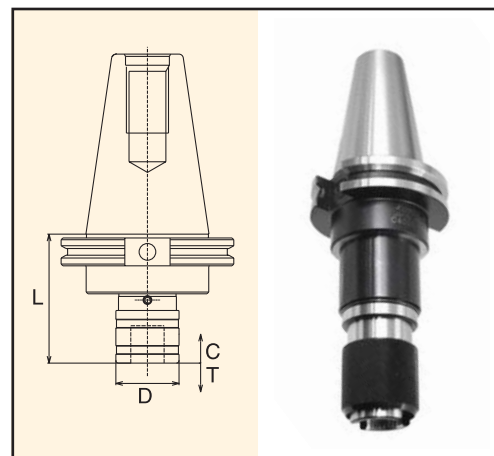


Coolant-thru: thru-tap coolant

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

CAT40/50 Tension/ Compression Tap Holders

Part Number	Taper	Tap Range		System	L	D	T	C
		Hand	Pipe					
C40S5-0562-2.93	CT40	#0-9/16"	1/8"	#1	2.93"	1.43"	0.29"	0.29"
C4005-0562-4.47	CT40	#0-9/16"	1/8"	#1	4.47"	1.25"	0.79"	0.39"
C40S5-0875-3.90	CT40	5/16-7/8"	1/4-1/2"	#2	3.90"	2.09"	0.49"	0.49"
C4005-0875-6.66	CT40	5/16-7/8"	1/4-1/2"	#2	6.66"	2.00"	0.85"	0.49"
C40S5-1375-5.75	CT40	13/16-1-3/8"	1/2-1"	#3	5.75"	3.07"	0.79"	0.79"
C4005-1375-9.19	CT40	13/16-1-3/8"	1/2-1"	#3	9.19"	2.87"	0.98"	0.59"
C50S5-0562-2.93	CT50	#0-9/16"	1/8"	#1	2.93"	1.43"	0.29"	0.29"
C5005-0562-5.02	CT50	#0-9/16"	1/8"	#1	5.02"	1.25"	0.79"	0.39"
C50S5-0875-3.90	CT50	5/16-7/8"	1/4-1/2"	#2	3.90"	2.09"	0.49"	0.49"
C5005-0875-5.66	CT50	5/16-7/8"	1/4-1/2"	#2	5.66"	2.00"	0.85"	0.49"
C50S5-1375-5.75	CT50	13/16-1-3/8"	1/2-1"	#3	5.75"	3.07"	0.79"	0.79"
C5005-1375-7.72	CT50	13/16-1-3/8"	1/2-1"	#3	7.72"	2.87"	0.98"	0.59"

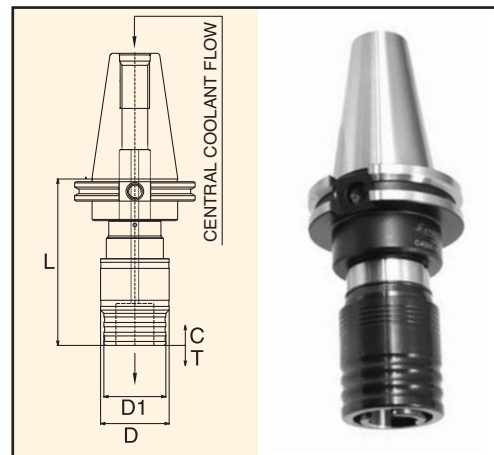


CAT40/50 Tension/ Compression Tap Holders - Coolant-Thru



Part Number	Taper	Tap Range		System	L	D	D1	T	C
		Hand	Pipe						
C4005-0562-3.98(C)	CT40	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
C4005-0875-5.39(C)	CT40	5/16-7/8"	1/4-1/2"	#2	5.39"	2.20"	1.99"	0.39"	0.20"
C5005-0562-3.98(C)	CT50	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
C5005-0875-5.39(C)	CT50	5/16-7/8"	1/4-1/2"	#2	5.39"	2.20"	1.99"	0.39"	0.20"
C5005-1375-8.31(C)	CT50	13/16-1-3/8"	1/2-1"	#3	8.31"	2.95"	2.95"	0.71"	0.51"

Maximum pressure: 500 psi.



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
Page 118



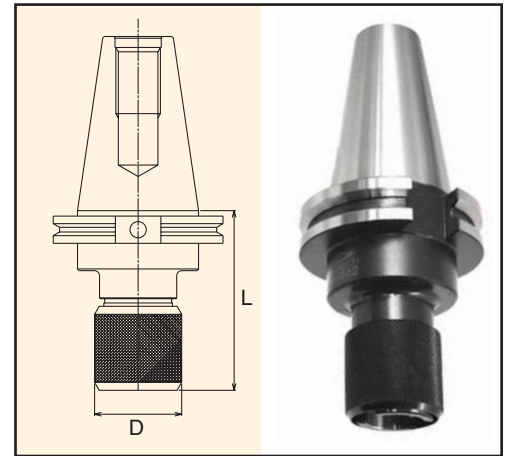
Tool Jaw
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CAT Tap Holders

CAT40/50 Rigid Tap Holders

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
C40R5-0562-3.02	CT40	#0-9/16"	1/8"	#1	3.02"	1.25"
C40R5-0875-3.66	CT40	5/16-7/8"	1/4-1/2"	#2	3.66"	2.00"
C40R5-1375-4.72	CT40	13/16-1-3/8"	1/2-1"	#3	4.72"	2.87"
C50R5-0562-3.02	CT50	#0-9/16"	1/8"	#1	3.02"	1.25"
C50R5-0875-3.91	CT50	5/16-7/8"	1/4-1/2"	#2	3.91"	2.00"
C50R5-1375-4.98	CT50	13/16-1-3/8"	1/2-1"	#3	4.98"	2.87"

Note: these holders are designed for use with synchronized machining centers. The holders have no tension or compression.

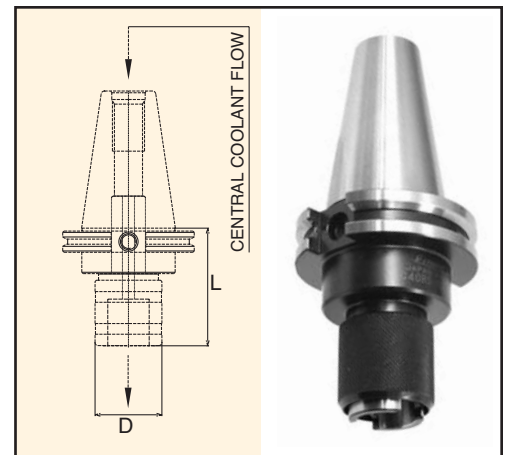


CAT40/50 Rigid Tap Holders - Coolant-Thru



Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
C40R5-0562-2.87(C)	CT40	#0-9/16"	1/8"	#1	2.87"	1.26"
C40R5-0875-3.50(C)	CT40	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
C50R5-0562-2.87(C)	CT50	#0-9/16"	1/8"	#1	2.87"	1.26"
C50R5-0875-3.50(C)	CT50	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
C50R5-1375-5.00(C)	CT50	13/16-1-3/8"	1/2-1"	#3	5.00"	2.83"

Note: these holders are designed for use with synchronized machining centers. The holders have no tension or compression. Maximum pressure: 750 psi.



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
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Page 212

BT Tap Holders

- 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 possibility of tap slippage



TIR: minimal



Speed: up to 5,000 rpm



Set-up: quick and easy

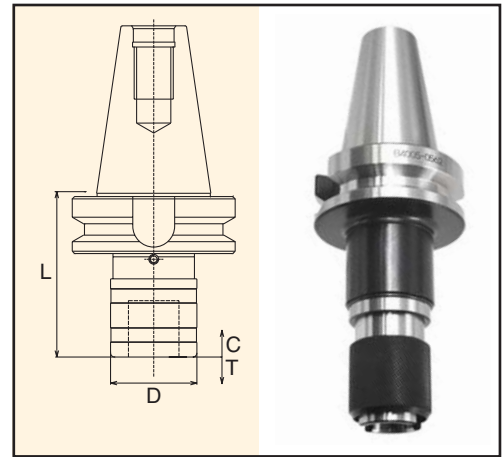


Coolant-thru: thru-tap coolant

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 Tension/ Compression Tap Holders

Part Number	Taper	Tap Range		System	L	D	T	C
		Hand	Pipe					
B30S5-0562-2.40	BT30	#0-9/16"	1/8"	#1	2.40"	1.43"	0.29"	0.29"
B3005-0562-4.92	BT30	#0-9/16"	1/8"	#1	4.92"	1.25"	0.79"	0.39"
B40S5-0562-2.62	BT40	#0-9/16"	1/8"	#1	2.62"	1.43"	0.29"	0.29"
B4005-0562-4.33	BT40	#0-9/16"	1/8"	#1	4.33"	1.25"	0.79"	0.39"
B40S5-0875-3.68	BT40	5/16-7/8"	1/4-1/2"	#2	3.68"	2.09"	0.49"	0.49"
B4005-0875-6.34	BT40	5/16-7/8"	1/4-1/2"	#2	6.34"	2.00"	0.85"	0.49"
B40S5-1375-6.40	BT40	13/16-1-3/8"	1/2-1"	#3	6.40"	3.07"	0.79"	0.79"
B4005-1375-9.00	BT40	13/16-1-3/8"	1/2-1"	#3	9.00"	2.87"	0.98"	0.59"
B50S5-0562-3.05	BT50	#0-9/16"	1/8"	#1	3.05"	1.43"	0.29"	0.29"
B5005-0562-4.92	BT50	#0-9/16"	1/8"	#1	4.92"	1.25"	0.79"	0.39"
B50S5-0875-4.00	BT50	5/16-7/8"	1/4-1/2"	#2	4.00"	2.09"	0.49"	0.49"
B5005-0875-5.55	BT50	5/16-7/8"	1/4-1/2"	#2	5.55"	2.00"	0.85"	0.49"
B50S5-1375-5.55	BT50	13/16-1-3/8"	1/2-1"	#3	5.55"	3.07"	0.79"	0.79"
B5005-1375-7.68	BT50	13/16-1-3/8"	1/2-1"	#3	7.68"	2.87"	0.98"	0.59"

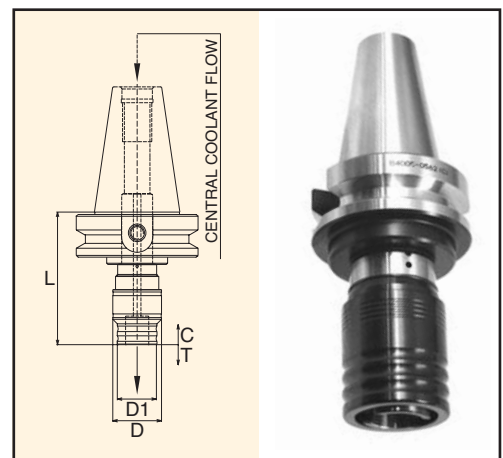


BT40/50 Tension/ Compression Tap Holders - Coolant-Thru



Part Number	Taper	Tap Range		System	L	D	D1	T	C
		Hand	Pipe						
B4005-0562-3.98(C)	BT40	#0-9/16"	1/8"	#1	3.98"	1.57"	1.28"	0.27"	0.12"
B4005-0875-5.39(C)	BT40	5/16-7/8"	1/4-1/2"	#2	5.39"	2.20"	1.99"	0.39"	0.20"
B5005-0562-4.33(C)	BT50	#0-9/16"	1/8"	#1	4.33"	1.57"	1.28"	0.27"	0.12"
B5005-0875-5.75(C)	BT50	5/16-7/8"	1/4-1/2"	#2	5.75"	2.20"	1.99"	0.39"	0.20"
B5005-1375-8.31(C)	BT50	13/16-1-3/8"	1/2-1"	#3	8.31"	2.95"	2.91"	0.71"	0.51"

Maximum pressure: 500 psi.



Accessories:



Tap Collets
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Tap Spanner Wrench
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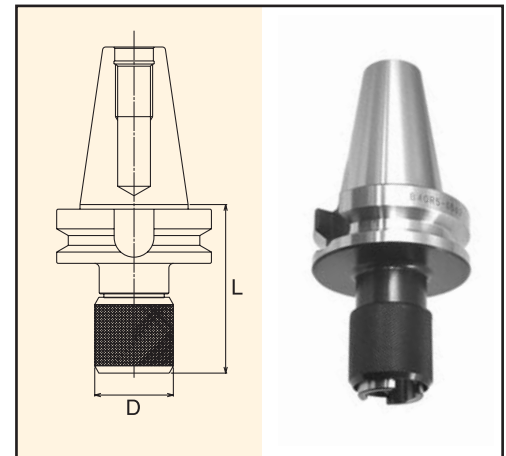
Tool Jaw
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BT Tap Holders

BT30/40/50 Rigid Tap Holders

Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
B30R5-0562-2.44	BT30	#0-9/16"	1/8"	#1	2.44"	1.25"
B40R5-0562-3.02	BT40	#0-9/16"	1/8"	#1	3.02"	1.25"
B40R5-0875-3.66	BT40	5/16-7/8"	1/4-1/2"	#2	3.66"	2.00"
B40R5-1375-4.73	BT40	13/16-1-3/8"	1/2-1"	#3	4.73"	2.87"
B50R5-0562-3.02	BT50	#0-9/16"	1/8"	#1	3.02"	1.25"
B50R5-0875-4.16	BT50	5/16-7/8"	1/4-1/2"	#2	4.16"	2.00"
B50R5-1375-5.23	BT50	13/16-1-3/8"	1/2-1"	#3	5.23"	2.87"

Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.

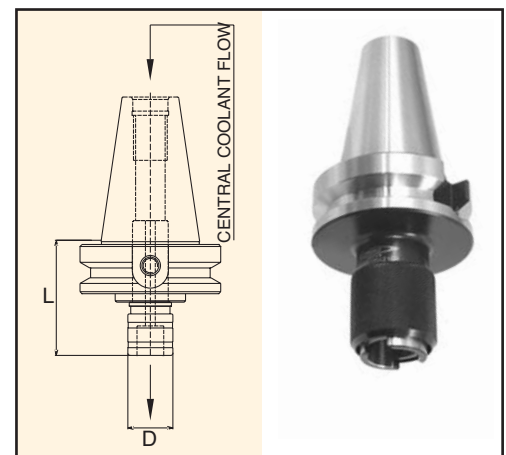


BT40/50 Rigid Tap Holders - Coolant-Thru



Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
B40R5-0562-2.87(C)	BT40	#0-9/16"	1/8"	#1	2.87"	1.26"
B40R5-0875-3.50(C)	BT40	5/16-7/8"	1/4-1/2"	#2	3.50"	1.97"
B50R5-0562-3.23(C)	BT50	#0-9/16"	1/8"	#1	3.23"	1.26"
B50R5-0875-3.86(C)	BT50	5/16-7/8"	1/4-1/2"	#2	3.86"	1.97"
B50R5-1375-5.00(C)	BT50	13/16-1-3/8"	1/2-1"	#3	5.00"	2.83"

Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.
Maximum pressure: 750 psi.



Accessories:



Tap Collets
Pages 106-117







Tap Spanner Wrench
Page 118



Tool Jaw
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HSK Tap Holders

- 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 possibility of tap slippage

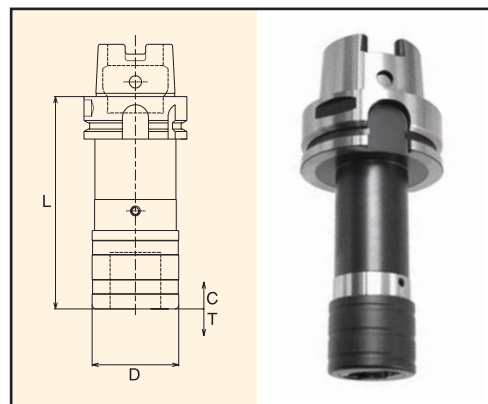
-  **TIR:** minimal
-  **Speed:** up to 5,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tap coolant

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

HSK63A Tension/ Compression Tap Holders

Part Number	Tap Range		System	L	D	T	C
	Hand	Pipe					
HSK63A-TC0562-4.49	#0-9/16"	1/8"	#1	4.49"	1.43"	0.29"	0.29"
HSK63A-TC0875-5.82	5/16-7/8"	1/4-1/2"	#2	5.827"	2.09"	0.49"	0.49"
HSK63A-TC1375-7.72	13/16-1-3/8"	1/2-1"	#3	7.72"	3.07"	0.79"	0.79"

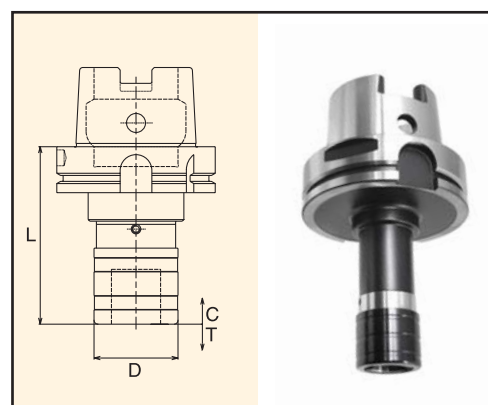
Note: Coolant tube and coolant tube wrench not included.
Coolant-thru versions available as specials. Please contact us for more information.



HSK100A Tension/ Compression Tap Holders

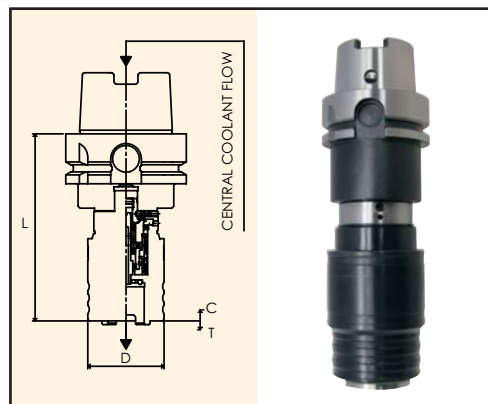
Part Number	Tap Range		System	L	D	T	C
	Hand	Pipe					
HSK100A-TC0562-4.65	#0-9/16"	1/8"	#1	4.65"	1.43"	0.29"	0.29"
HSK100A-TC0875-5.98	5/16-7/8"	1/4-1/2"	#2	5.98"	2.09"	0.49"	0.49"
HSK100A-TC1375-7.95	13/16-1-3/8"	1/2-1"	#3	7.95"	3.07"	0.79"	0.79"

Note: Coolant tube and coolant tube wrench not included.
Coolant-thru versions available as specials. Please contact us for more information.



HSK63A/100A Tension/ Compression Tap Holders - Coolant-Thru

Part Number	Tap Range		System	L	D	T	C
	Hand	Pipe					
HSK63A-TC0562-3.98C	#0-9/16"	1/8"	#1	3.98"	1.57"	0.29"	0.29"
HSK63A-TC0875-6.38C	5/16-7/8"	1/4-1/2"	#2	6.38"	2.21"	0.49"	0.49"
HSK63A-TC1375-9.41C	13/16-1-3/8"	1/2-1"	#3	9.41"	2.95"	0.79"	0.79"
HSK100A-TC0562-5.10C	#0-9/16"	1/8"	#1	5.10"	1.57"	0.29"	0.29"
HSK100A-TC0875-6.65C	5/16-7/8"	1/4-1/2"	#2	6.65"	2.21"	0.49"	0.49"
HSK100A-TC1375-9.66C	13/16-1-3/8"	1/2-1"	#3	9.66"	2.92"	0.79"	0.79"



Accessories:



Tap Collets
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Tap Spanner Wrench
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HSK Coolant Tube
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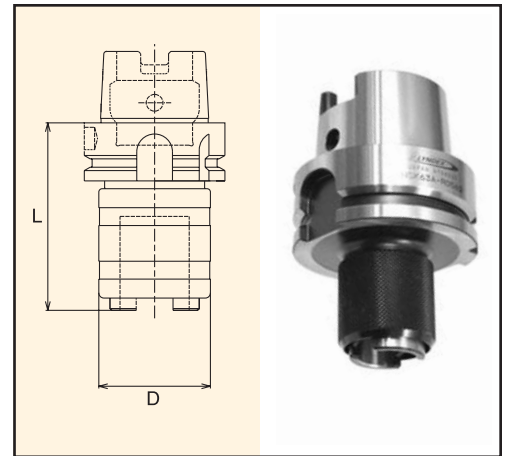
HSK Coolant Tube Wrench
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HSK Tap Holders

HSK40A/63A Rigid Tap Holders

Part Number	Tap Range		System	L	D
	Hand	Pipe			
HSK40A-R0562-3.15	#0-9/16"	1/8"	#1	3.15"	1.26"
HSK63A-R0562-2.48	#0-9/16"	1/8"	#1	2.48"	1.26"
HSK63A-R0875-3.31	5/16-7/8"	1/4-1/2"	#2	3.31"	1.97"
HSK63A-R1375-5.12	13/16-1-3/8"	1/2-1"	#3	5.12"	2.83"

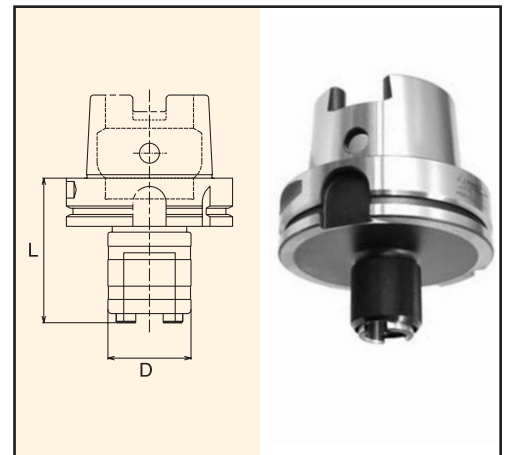
Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.
Coolant tube and coolant tube wrench not included.
Coolant-thru versions available as specials. Please contact us for more information.



HSK100A Rigid Tap Holders

Part Number	Tap Range		System	L	D
	Hand	Pipe			
HSK100A-R0562-2.59	#0-9/16"	1/8"	#1	2.59"	1.26"
HSK100A-R0875-3.42	5/16-7/8"	1/4-1/2"	#2	3.42"	1.97"
HSK100A-R1375-4.57	13/16-1-3/8"	1/2-1"	#3	4.57"	2.83"

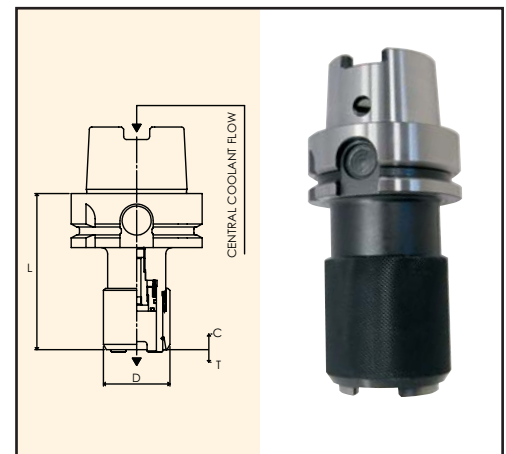
Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.
Coolant tube and coolant tube wrench not included.
Coolant-thru versions available as specials. Please contact us for more information.



HSK40A/63A/100A Rigid Tap Holders Coolant-Thru



Part Number	Tap Range		System	L	D
	Hand	Pipe			
HSK40A-R0562-2.97C	#0-9/16"	1/8"	#1	2.97"	1.27"
HSK63A-R0562-3.01C	#0-9/16"	1/8"	#1	3.01"	1.27"
HSK63A-R0875-4.01C	5/16-7/8"	1/4-1/2"	#2	4.01"	1.98"
HSK63A-R1375-5.51C	13/16-1-3/8"	1/2-1"	#3	5.51"	2.85"
HSK100A-R0562-3.09C	#0-9/16"	1/8"	#1	3.08"	1.27"
HSK100A-R0875-3.94C	5/16-7/8"	1/4-1/2"	#2	3.94"	1.98"
HSK100A-R1375-5.32C	13/16-1-3/8"	1/2-1"	#3	5.32"	2.84"



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
Page 118



HSK Coolant Tube
Page 118



HSK Coolant Tube Wrench
Page 118

Weldon Tap Holders

- 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 possibility of tap slippage



TIR: minimal



Speed: up to 5,000 rpm



Set-up: quick and easy

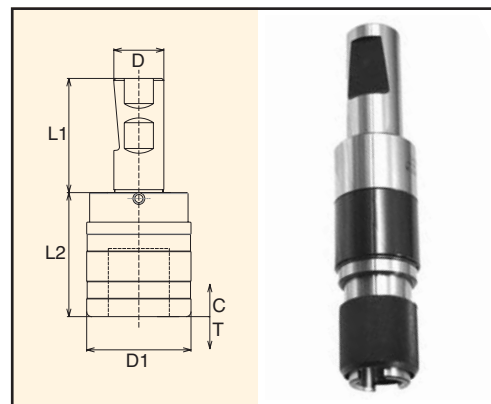


Coolant-thru: thru-tap coolant

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

Weldon Shank Tension/ Compression Tap Holders

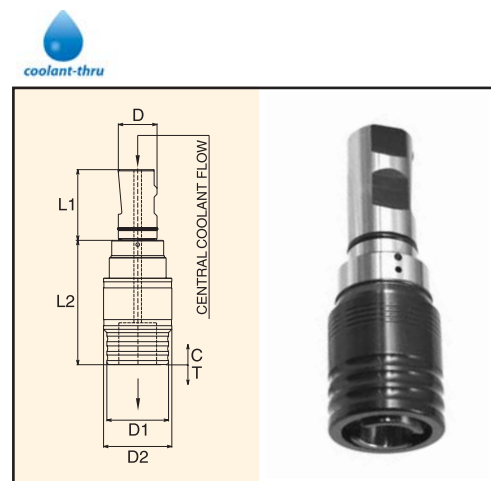
Part Number	Tap Range		System	D	D1	L1	L2	T	C
	Hand	Pipe							
W7505-0562-6.36	#0-9/16"	1/8"	#1	3/4"	1.25"	2.03"	4.33"	0.79"	0.39"
W1005-0562-6.41	#0-9/16"	1/8"	#1	1"	1.25"	2.28"	4.13"	0.79"	0.39"
W10S5-0562-3.81	#0-9/16"	1/8"	#1	1"	1.43"	2.28"	1.53"	0.29"	0.29"
W1005-0875-7.83	5/16-7/8"	1/4-1/2"	#2	1"	2.00"	2.28"	5.55"	0.85"	0.49"
W10S5-0875-4.76	5/16-7/8"	1/4-1/2"	#2	1"	2.09"	2.28"	2.48"	0.49"	0.49"
W1205-0562-6.41	#0-9/16"	1/8"	#1	1-1/4"	1.25"	2.28"	4.13"	0.79"	0.39"
W1205-0875-7.83	5/16-7/8"	1/4-1/2"	#2	1-1/4"	2.00"	2.28"	5.55"	0.85"	0.49"
W1505-0562-6.82	#0-9/16"	1/8"	#1	1-1/2"	1.25"	2.69"	4.13"	0.79"	0.39"
W1505-0875-8.24	5/16-7/8"	1/4-1/2"	#2	1-1/2"	2.00"	2.69"	5.55"	0.85"	0.49"
W1505-1375-10.5	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.87"	2.69"	7.81"	0.98"	0.59"
W15S5-1375-6.55	13/16-1-3/8"	1/2-1"	#3	1-1/2"	3.07"	2.69"	3.86"	0.79"	0.79"
W25M5-0562-96	#0-9/16"	1/8"	#1	25mm	36mm	57mm	39mm	7.5mm	7.5mm
W25M5-0875-120	5/16-7/8"	1/4-1/2"	#2	25mm	53mm	57mm	63mm	12.5mm	12.5mm



Weldon Shank Tension/ Compression Tap Holders - Coolant-Thru

Part Number	Tap Range		System	D	D1	D2	L1	L2	T	C
	Hand	Pipe								
W1005-0562-4.88(C)	#0-9/16"	1/8"	#1	1"	1.29"	1.57"	2.28"	2.60"	0.27"	0.12"
W1005-0875-6.3(C)	5/16-7/8"	1/4-1/2"	#2	1"	1.99"	2.20"	2.28"	4.02"	0.39"	0.20"
W1205-0562-4.88(C)	#0-9/16"	1/8"	#1	1-1/4"	1.28"	1.57"	2.28"	2.60"	0.27"	0.12"
W1205-0875-6.3(C)	5/16-7/8"	1/4-1/2"	#2	1-1/4"	1.99"	2.20"	2.28"	4.02"	0.39"	0.20"
W1505-1375-9.26(C)	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.95"	2.95"	2.69"	6.57"	0.71"	0.51"
W25M5-0562-119(C)	#0-9/16"	1/8"	#1	25mm	32mm	40mm	53mm	66mm	7mm	3mm
W25M5-0875-155(C)	5/16-7/8"	1/4-1/2"	#2	25mm	50mm	56mm	53mm	102mm	10mm	5mm

Maximum pressure: 500 psi.



Accessories:



Tap Collets
Pages 106-117



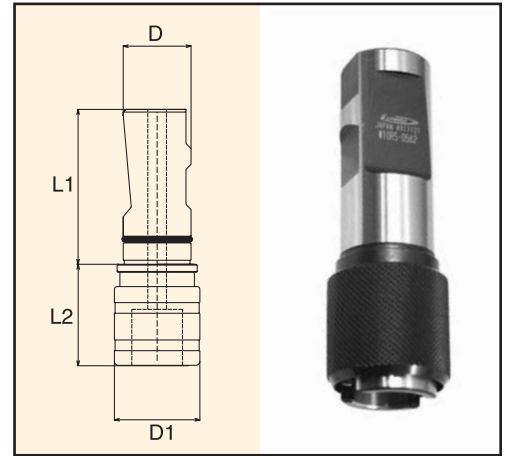
Tap Spanner Wrench
Page 118

Weldon Tap Holders

Weldon Shank Rigid Tap Holders

Part Number	Tap Range		System	D	D1	L1	L2
	Hand	Pipe					
W10R5-0562-3.74	#0-9/16"	1/8"	#1	1"	1.26"	2.28"	1.46"
W10R5-0875-4.4	5/16-7/8"	1/4-1/2"	#2	1"	1.97"	2.28"	2.12"
W15R5-1375-5.96	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.83"	2.69"	3.27"
W25MR5-0562-94	#0-9/16"	1/8"	#1	25mm	32mm	57mm	37mm
W25MR5-0875-113	5/16-7/8"	1/4-1/2"	#2	25mm	50mm	57mm	56mm

Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.

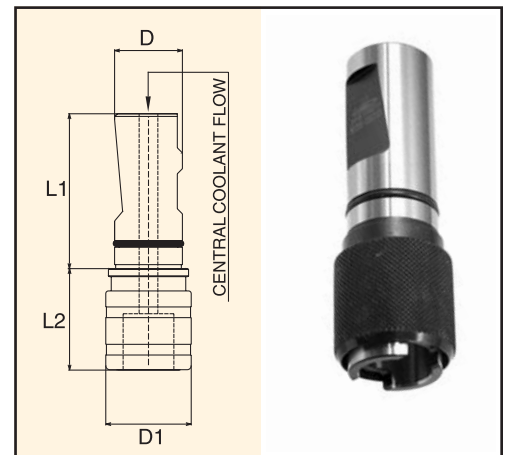


Weldon Shank Rigid Tap Holders - Coolant-Thru



Part Number	Tap Range		System	D	D1	L1	L2
	Hand	Pipe					
W75R5-0562-3.49(C)	#0-9/16"	1/8"	#1	3/4"	1.26"	2.03"	1.46"
W10R5-0562-3.77(C)	#0-9/16"	1/8"	#1	1"	1.26"	2.28"	1.49"
W10R5-0875-4.4(C)	5/16-7/8"	1/4-1/2"	#2	1"	1.97"	2.28"	2.12"
W12R5-0562-3.93(C)	#0-9/16"	1/8"	#1	1-1/4"	1.26"	2.28"	1.65"
W12R5-0875-4.4(C)	5/16-7/8"	1/4-1/2"	#2	1-1/4"	1.97"	2.28"	2.12"
W12R5-1375-5.55(C)	13/16-1-3/8"	1/2-1"	#3	1-1/4"	2.83"	2.28"	3.27"
W15R5-1375-5.96(C)	13/16-1-3/8"	1/2-1"	#3	1-1/2"	2.83"	2.69"	3.27"
W25MR5-0562-91(C)	#0-9/16"	1/8"	#1	25mm	32mm	53mm	38mm
W25MR5-0875-107(C)	5/16-7/8"	1/4-1/2"	#2	25mm	50mm	53mm	54mm

Note: these holders are designed for use with synchronized machining centers.
The holders have no tension or compression.
Maximum pressure: 750 psi.



Accessories:



Tap Collets
Pages 106-117







Tap Spanner Wrench
Page 118

End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

NMTB, Straight Shank, Morse Taper Tap Holders

- 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 possibility of tap slippage

-  **TIR:** minimal
-  **Speed:** up to 5,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** thru-tap 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 Tension/ Compression Tap Holders

Part Number	Tap Range		System	L	D	T	C
	Hand	Pipe					
N3005-0562-4.64	#0-9/16"	1/8"	#1	4.64"	1.25"	0.79"	0.39"
N3005-0875-6.16	5/16-7/8"	1/4-1/2"	#2	6.16"	2.00"	0.85"	0.49"
N4005-0562-3.90	#0-9/16"	1/8"	#1	3.90"	1.25"	0.79"	0.39"
N4005-0875-6.16	5/16-7/8"	1/4-1/2"	#2	6.16"	2.00"	0.85"	0.49"
N5005-0562-4.50	#0-9/16"	1/8"	#1	4.50"	1.25"	0.79"	0.39"
N5005-0875-7.00	5/16-7/8"	1/4-1/2"	#2	7.00"	2.00"	0.85"	0.49"
N5005-1375-7.73	13/16-1-3/8"	1/2-1"	#3	7.73"	2.87"	0.98"	0.59"

All NMTB toolholders flanges are qualified for use with Erickson QC spindles.

Straight Shank Tension/ Compression Tap Holders

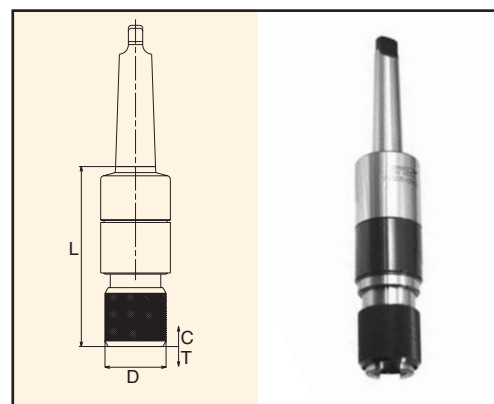
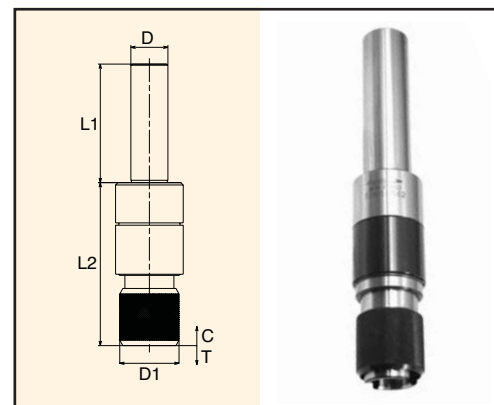
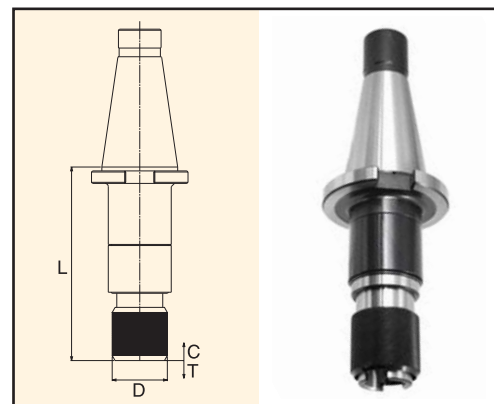
Part Number	Tap Range		System	D	D1	L1	L2	T	C
	Hand	Pipe							
S1005-0562-7.63	#0-9/16"	1/8"	#1	1"	1.25"	3.50"	4.13"	0.79"	0.39"
S1005-0875-9.05	5/16-7/8"	1/4-1/2"	#2	1"	2.00"	3.50"	5.55"	0.85"	0.49"
S1205-0562-8.13	#0-9/16"	1/8"	#1	1-1/4"	1.25"	4.00"	4.13"	0.79"	0.39"
S1205-0875-9.55	5/16-7/8"	1/4-1/2"	#2	1-1/4"	2.00"	4.00"	5.55"	0.85"	0.49"

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.
- They may be used with any size machining center or lathe.
- When loaded into larger holders, their reduced O.D. permits tapping applications within large holes or whenever tight clearances are encountered.

Morse Taper Tension/ Compression Tap Holders

Part Number	Tap Range		System	D	L	T	C
	Hand	Pipe					
M0205-0562-4.92	#0-9/16"	1/8"	#1	1.25"	4.92"	0.79"	0.39"
M0205-0875-5.94	5/16-7/8"	1/4-1/2"	#2	2.00"	5.94"	0.85"	0.49"
M0305-0562-4.72	#0-9/16"	1/8"	#1	1.25"	4.72"	0.79"	0.39"
M0305-0875-5.94	5/16-7/8"	1/4-1/2"	#2	2.00"	5.94"	0.85"	0.49"
M0405-0562-4.72	#0-9/16"	1/8"	#1	1.25"	4.72"	0.79"	0.39"
M0405-0875-5.94	5/16-7/8"	1/4-1/2"	#2	2.00"	5.94"	0.85"	0.49"



Accessories:



Tap Collets
Pages 106-117



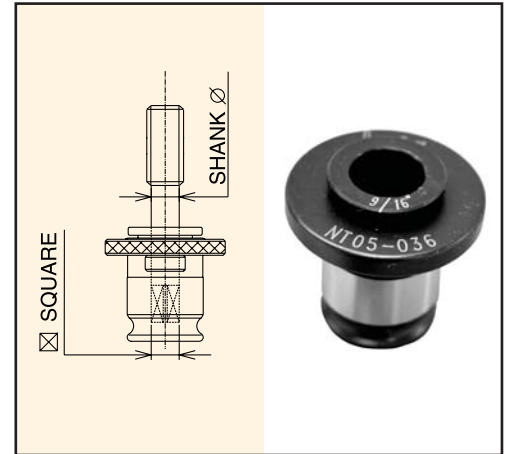
Tap Spanner Wrench
Page 118

Tap Collets

Positive Drive Tap Collets - U.S. Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
NT05-006	#1	#0-6	0.141"	0.110"
NT05-008	#1	#8	0.168"	0.131"
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"



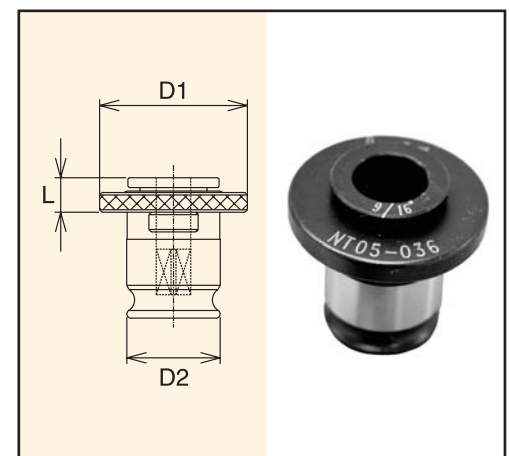
Note: See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"

Positive Drive Tap Collets Sets

Part Number	Description
NT05-SET	10 pieces System #1 Positive Drive Tap Collet Set: 0 - 9/16" hand
NT10-SET	10 pieces System #2 Positive Drive Tap Collet Set: 5/16" - 7/8" hand
NT15-SET	7 pieces System #3 Positive Drive Tap Collet Set: 13/16" - 1-3/8" hand



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
Page 118

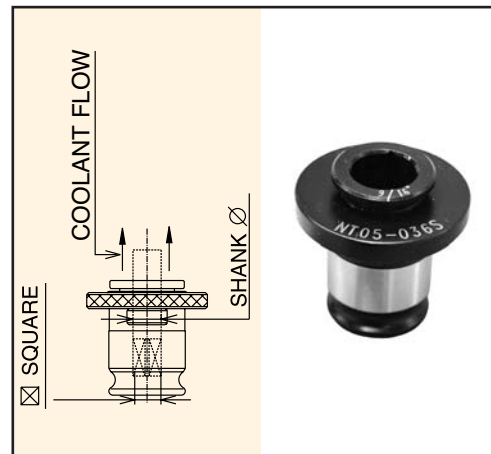
Tap Holders
Drill Chucks
Shell Mill Holders
ERTG/DA Collet Chucks
End Mill Holders

Tap Collets

Positive Drive Tap Collets - Slotted

Slotted collets are designed for use with standard taps for coolant along the flute.

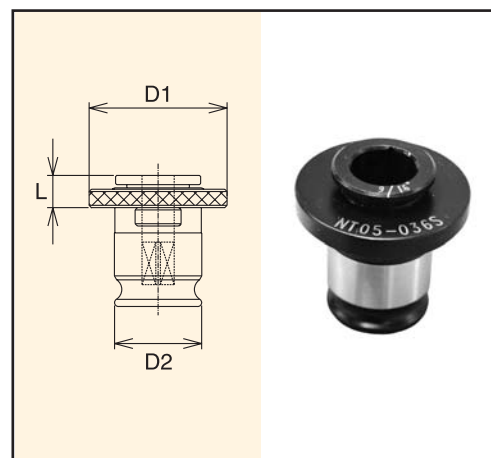
Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
NT05-006(S)	#1	#0-6	0.141"	0.110"
NT05-008(S)	#1	#8	0.168"	0.131"
NT05-012(S)	#1	#12	0.220"	0.165"
NT05-016(S)	#1	1/4"	0.255"	0.191"
NT05-020(S)	#1	5/16"	0.318"	0.238"
NT05-024(S)	#1	3/8"	0.381"	0.286"
NT05-028(S)	#1	7/16"	0.323"	0.242"
NT05-032(S)	#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 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"



Accessories:



Tap Collets
Pages 106-117

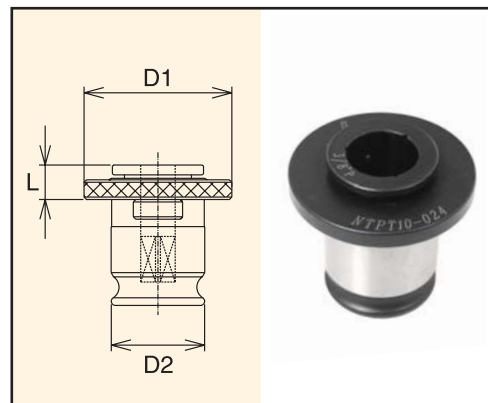


Tap Spanner Wrench
Page 118

Tap Collets

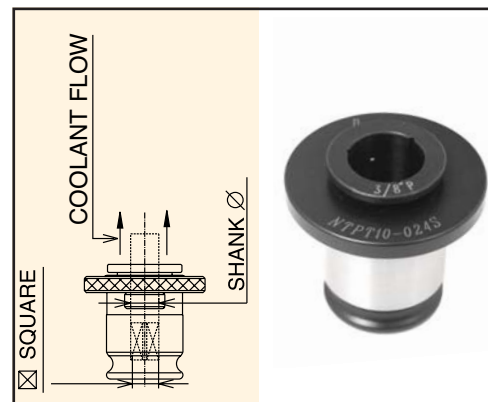
Positive Drive Pipe Tap Collets - U.S. Standard

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
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 - Slotted

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
NTPT05-008S(S)	#1	sm 1/8"	0.313"	0.234"
NTPT05-008L(S)	#1	lg 1/8"	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"



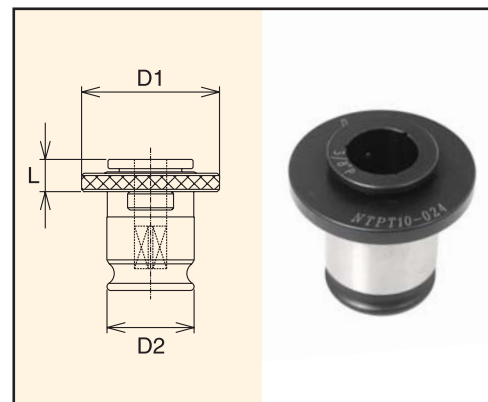
Positive Drive Pipe Tap Collets Sets

Part Number	Description
NTP05-SET	12 pieces System #1 Positive Drive Tap Collet Set: 0 - 9/16" hand and 1/8" pipe
NTP10-SET	13 pieces System #2 Positive Drive Tap Collet Set: 5/16" - 1" hand and 1/4" - 1/2" pipe
NTP15-SET	10 pieces System #3 Positive Drive Tap Collet Set: 13/16" - 1-3/8" hand and 1/2" - 1" pipe

Note: See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"



Accessories:



Tap Collets
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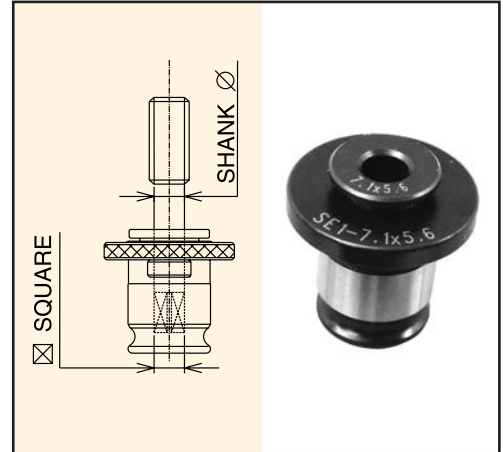
Tap Collets

Positive Drive Tap Collets - ISO Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
SE1-2.24X1.8	#1	M3	2.24	1.80
SE1-2.50X2.0	#1	M3.5, M2	2.50	2.00
SE1-2.80X2.24	#1	M2.5, M2.2	2.80	2.24
SE1-3.15X2.50	#1	M4, M3	3.15	2.50
SE1-3.55X2.80	#1	M4.5, M3.5	3.55	2.80
SE1-4.0X3.15	#1	M5, M4	4.00	3.15
SE1-4.5X3.55	#1	M6	4.50	3.55
SE1-5.0X4.0	#1	M5	5.00	4.00
SE1-5.6X4.5	#1	M5	5.60	4.50
SE1-6.3X5.0	#1	M8, M6	6.30	5.00
SE1-7.1X5.6	#1	M7	7.10	5.60
SE1-8.0X6.3	#1	M11, M10, M8	8.00	6.30
SE1-9.0X7.1	#1	M12, M9	9.00	7.10
SE1-10.0X8.0	#1	M10	10.0	8.00
SE1-11.2X9.0	#1	M14	11.2	9.00
SE2-6.3X5.0	#2	M8, M6	6.30	5.00
SE2-7.1X5.6	#2	M7	7.10	5.60
SE2-8.0X6.3	#2	M11, M10, M8	8.00	6.30
SE2-9.0X7.1	#2	M12, M9	9.00	7.10
SE2-10.0X8.0	#2	M10	10.0	8.00
SE2-11.2X9.0	#2	M14	11.2	9.00
SE2-12.5X10.0	#2	M16	12.5	10.0
SE2-14.0X11.2	#2	M20, M18	14.0	11.2
SE2-16.0X12.5	#2	M22	16.0	12.5
SE2-18.0X14.0	#2	M24	18.0	14.0
SE3-9.0X7.1	#3	M12, M9	9.00	7.10
SE3-10.0X8.0	#3	M10	10.0	8.00
SE3-11.2X9.0	#3	M14	11.2	9.00
SE3-12.5X10.0	#3	M16	12.5	10.0
SE3-14.0X11.2	#3	M20, M18	14.0	11.2
SE3-16.0X12.5	#3	M22	16.0	12.5
SE3-18.0X14.0	#3	M24	18.0	14.0
SE3-20.0X16.0	#3	M30, M27	20.0	16.0
SE3-22.4X18.0	#3	M33	22.4	18.0
SE3-25.0X20.0	#3	M36, M33	25.0	20.0

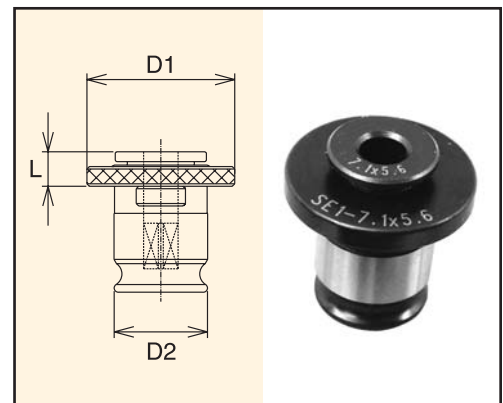
Note: Dimensions are shown in mm.



Note: See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"



Accessories:



Tap Collets
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End Mill Holders
ER/TG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

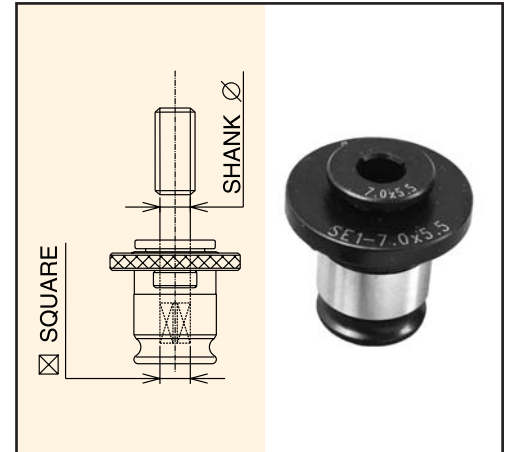
Tap Collets

Positive Drive Tap Collets - DIN 371/376 Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
SE1-2.5X2.1	#1	M1.4, M1.8, M3	2.50	2.10
SE1-2.8X2.1	#1	M2, M2.2, M2.5, M4	2.80	2.10
SE1-3.5X2.7	#1	M3, M5	3.50	2.70
SE1-4.0X3.0	#1	M3.5	4.00	3.00
SE1-4.5X3.4	#1	M4, M6	4.50	3.40
SE1-6.0X4.9	#1	M5, M6, M8	6.00	4.90
SE1-7.0X5.5	#1	M10	7.00	5.50
SE1-8.0X6.2	#1	M8, M10	8.00	6.20
SE1-9.0X7.0	#1	M12	9.00	7.00
SE1-10.0X8.0	#1	M10	10.00	8.00
SE1-11.0X9.0	#1	M14	11.00	9.00
SE2-6.0X4.9	#2	M5, M6, M8	6.00	4.90
SE2-7.0X5.5	#2	M10	7.00	5.50
SE2-8.0X6.2	#2	M8, M10	8.00	6.20
SE2-9.0X7.0	#2	M12	9.00	7.00
SE2-11.0X9.0	#2	M14	11.00	9.00
SE2-12.0X9.0	#2	M16	12.00	9.00
SE2-14.0X11.0	#2	M18	14.00	11.00
SE2-16.0X12.0	#2	M20	16.00	12.00
SE2-18.0X14.5	#2	M22, M24	18.00	14.50
SE3-11.0X9.0	#3	M14	11.00	9.00
SE3-12.0X9.0	#3	M16	12.00	9.00
SE3-14.0X11.0	#3	M18	14.00	11.00
SE3-16.0X12.0	#3	M20	16.00	12.00
SE3-18.0X14.5	#3	M22, M24	18.00	14.50
SE3-20.0X16.0	#3	M27, M30	20.00	16.00
SE3-22.0X18.0	#3	M30	22.00	18.00
SE3-25.0X20.0	#3	M33, M36	25.00	20.00
SE3-28.0X22.0	#3	M36	28.00	22.00

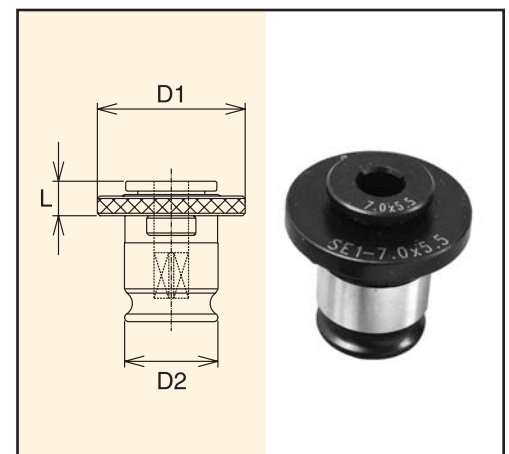
Note: Dimensions are shown in mm.



Note: See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"



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End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

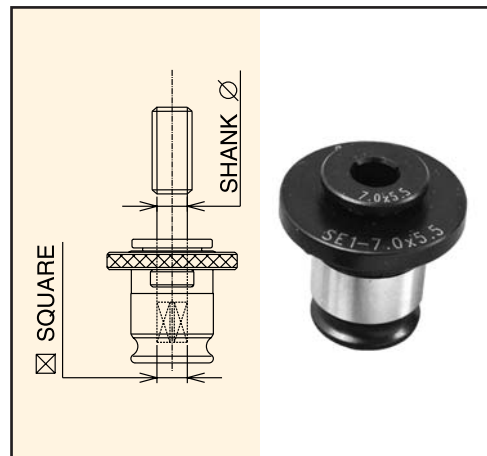
Tap Collets

Positive Drive Tap Collets - JIS Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square □
SE1-3.0X2.5	#1	M2	3.00	2.50
SE1-4.0X3.2	#1	M3	4.00	3.20
SE1-5.0X4.0	#1	M4, M4.5	5.00	4.00
SE1-5.5X4.5	#1	M5, M5.5	5.50	4.50
SE1-6.0X4.5	#1	M6	6.00	4.50
SE1-6.2X5.0	#1	M7, M8	6.20	5.00
SE1-7.0X5.5	#1	M9, M10	7.00	5.50
SE1-8.0X6.0	#1	M11	8.00	6.00
SE1-8.5X6.5	#1	M12	8.50	6.50
SE1-9.5X7.0	#1	M13	9.50	7.00
SE1-10.5X8.0	#1	M14, M15	10.5	8.00
SE2-6.2X5.0	#2	M7, M8	6.20	5.00
SE2-7.0X5.5	#2	M9, M10	7.00	5.50
SE2-8.0X6.0	#2	M11	8.00	6.00
SE2-8.5X6.5	#2	M12	8.50	6.50
SE2-9.5X7.0	#2	M13	9.50	7.00
SE2-10.5X8.0	#2	M14, M15	10.5	8.00
SE2-12.5X10.0	#2	M16	12.5	10.0
SE2-13.0X10.0	#2	M17	13.0	10.0
SE2-14.0X11.0	#2	M18	14.0	11.0
SE2-15.0X12.0	#2	M20	15.0	12.0
SE2-17.0X13.0	#2	M22	17.0	13.0
SE3-10.5X8.0	#3	M14, M15	10.5	8.00
SE3-12.5X10.0	#3	M16	12.5	10.0
SE3-13.0X10.0	#3	M17	13.0	10.0
SE3-14.0X11.0	#3	M18	14.0	11.0
SE3-15.0X12.0	#3	M20	15.0	12.0
SE3-17.0X13.0	#3	M22	17.0	13.0
SE3-19.0X15.0	#3	M24, M25	19.0	15.0
SE3-20.0X15.0	#3	M26, M27	20.0	15.0
SE3-21.0X17.0	#3	M28	21.0	17.0
SE3-23.0X17.0	#3	M30	23.0	17.0
SE3-24.0X19.0	#3	M32	24.0	19.0
SE3-25.0X19.0	#3	M33	25.0	19.0
SE3-26.0X21.0	#3	M34, M35	26.0	21.0
SE3-28.0X21.0	#3	M36, M38	28.0	21.0

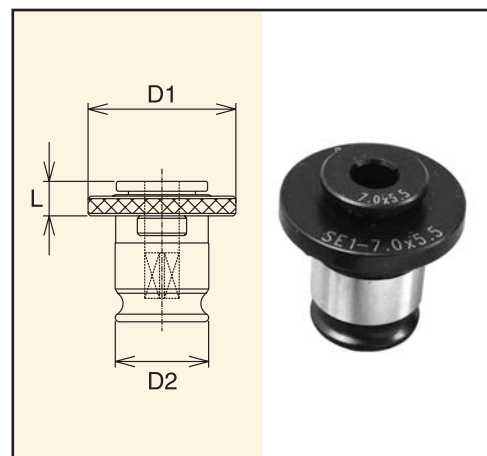
Note: Dimensions are shown in mm.



Note: See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/System	L	D1	D2
#1	0.27"	1.18"	0.75"
#2	0.43"	1.98"	1.22"
#3	0.55"	2.75"	1.89"



Accessories:



Tap Collets
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Tap Spanner Wrench
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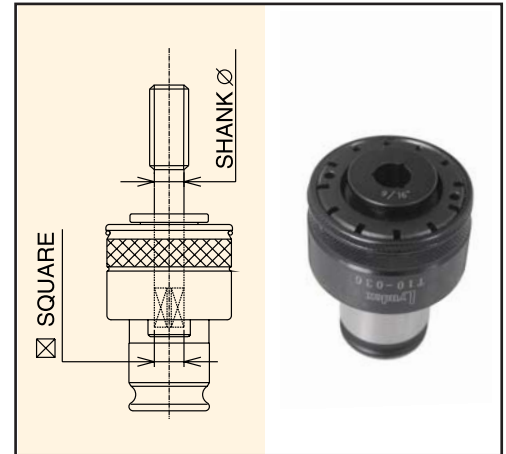
Tap Collets

Torque Control Tap Collets - U.S. Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
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"

*This is not a quick change collet. This collet is held with set screws.



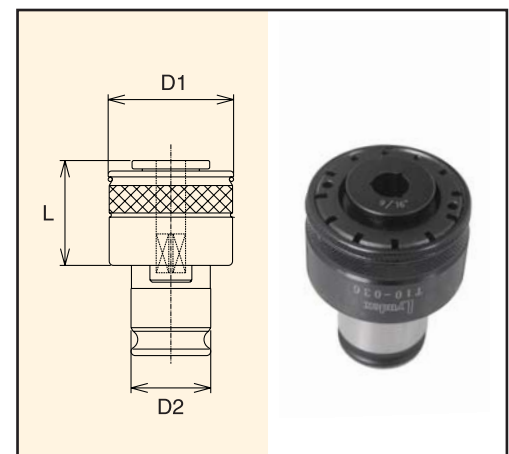
See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/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 Collets Sets

Part Number	Description
T05-SET	10 pieces System #1 Torque Control Tap Collet Set: #0 - 9/16" hand
T10-SET	10 pieces System #2 Torque Control Tap Collet Set: 5/16" - 7/8" hand
T15-SET	7 pieces System #3 Torque Control Tap Collet Set: 13/16" - 1-3/8" hand



Accessories:



Tap Collets
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End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

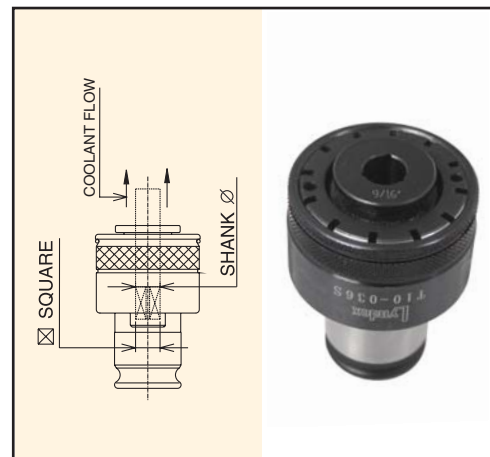
Tap Collets

Torque Control Tap Collets - Slotted

Slotted collets are designed for use with standard taps for coolant along the flute.

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ⊠
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"
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"
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"

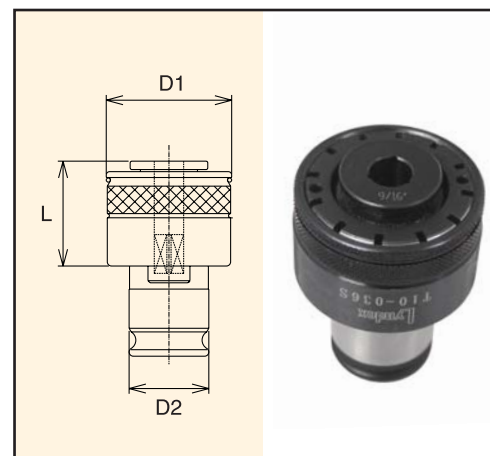
*This is not a quick change collet. This collet is held with set screws.



See pages 236-237 for details about dimensions cross over for ANSI, DIN, ISO, JIS Specification Taps.

Dimensional Data

Type/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"



Accessories:



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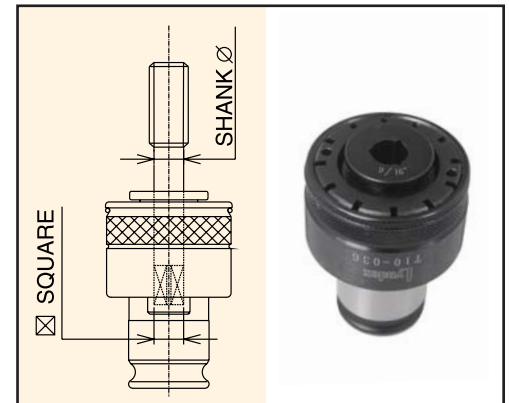


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Tap Collets

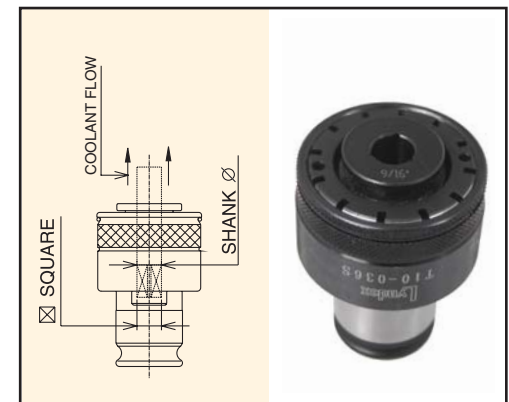
Torque Control Pipe Tap Collets - U.S. Standard

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
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 - Slotted

Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
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"

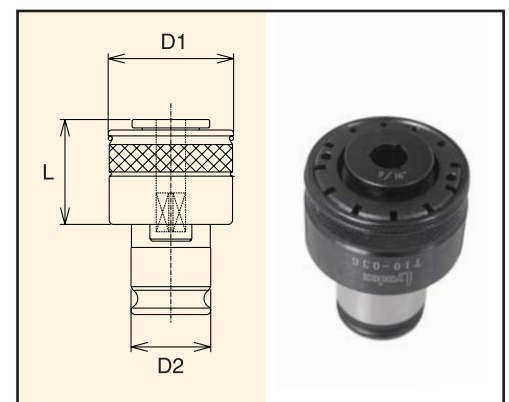


Torque Control Pipe Tap Collets Sets

Part Number	Description
TP05-SET	12 pieces System #1 Torque Control Tap Collet Set: #0 - 9/16" hand and 1/8" pipe
TP10-SET	13 pieces System #2 Torque Control Tap Collet Set: 5/16" - 7/8" hand and 1/4" - 1/2" pipe
TP15-SET	10 pieces System #3 Torque Control Tap Collet Set: 13/16" - 1-3/8" hand and 1/2" - 1" pipe

Dimensional Data

Type/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"



Accessories:



Tap Collets
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End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

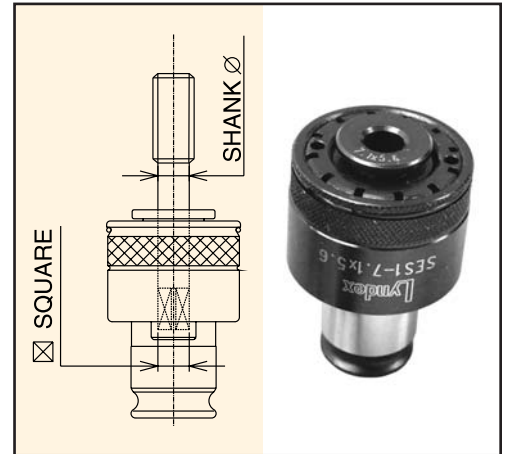
Tap Collets

Torque Control Tap Collets - ISO Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

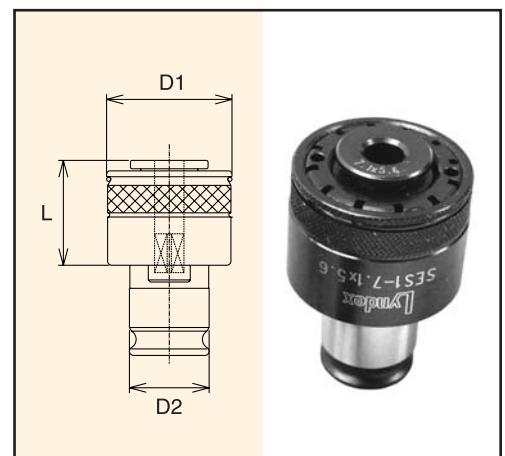
Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
SES1-2.24X1.8	#1	M3	2.24	1.80
SES1-2.50X2.0	#1	M3.5, M2	2.50	2.00
SES1-2.80X2.24	#1	M2.5, M2.2	2.80	2.24
SES1-3.15X2.50	#1	M4, M3	3.15	2.50
SES1-3.55X2.80	#1	M4.5, M3.5	3.55	2.80
SES1-4.0X3.15	#1	M5, M4	4.00	3.15
SES1-4.5X3.55	#1	M6	4.50	3.55
SES1-5.0X4.0	#1	M5	5.00	4.00
SES1-5.6X4.5	#1	M5	5.60	4.50
SES1-6.3X5.0	#1	M8, M6	6.30	5.00
SES1-7.1X5.6	#1	M7	7.10	5.60
SES1-8.0X6.3	#1	M11, M10, M8	8.00	6.30
SES1-9.0X7.1	#1	M12, M9	9.00	7.10
SES1-10.0X8.0	#1	M10	10.0	8.00
SES1-11.2X9.0	#1	M14	11.2	9.00
SES2-6.3X5.0	#2	M8, M6	6.30	5.00
SES2-7.1X5.6	#2	M7	7.10	5.60
SES2-8.0X6.3	#2	M11, M10, M8	8.00	6.30
SES2-9.0X7.1	#2	M12, M9	9.00	7.10
SES2-10.0X8.0	#2	M10	10.0	8.00
SES2-11.2X9.0	#2	M14	11.2	9.00
SES2-12.5X10.0	#2	M16	12.5	10.0
SES2-14.0X11.2	#2	M20, M18	14.0	11.2
SES2-16.0X12.5	#2	M22	16.0	12.5
SES2-18.0X14.0	#2	M24	18.0	14.0
SES3-9.0X7.1	#3	M12, M9	9.00	7.10
SES3-10.0X8.0	#3	M10	10.0	8.00
SES3-11.2X9.0	#3	M14	11.2	9.00
SES3-12.5X10.0	#3	M16	12.5	10.0
SES3-14.0X11.2	#3	M20, M18	14.0	11.2
SES3-16.0X12.5	#3	M22	16.0	12.5
SES3-18.0X14.0	#3	M24	18.0	14.0
SES3-20.0X16.0	#3	M30, M27	20.0	16.0
SES3-22.4X18.0	#3	M33	22.4	18.0
SES3-25.0X20.0	#3	M36, M33	25.0	20.0

Note: Dimensions are shown in mm.



Dimensional Data

Type/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"



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
Page 118

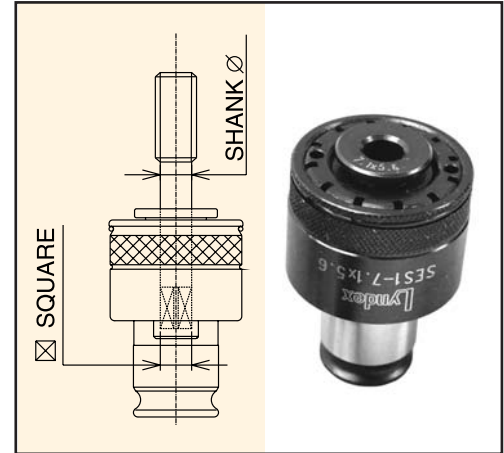
Tap Collets

Torque Control Tap Collets - DIN 371/376 Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

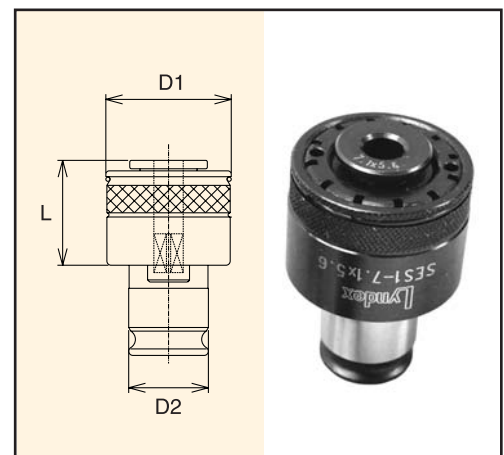
Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
SES1-2.5X2.1	#1	M1.4, M1.8, M3	2.50	2.10
SES1-2.8X2.1	#1	M2, M2.2, M2.5, M4	2.80	2.10
SES1-3.5X2.7	#1	M3, M5	3.50	2.70
SES1-4.0X3.0	#1	M3.5	4.00	3.00
SES1-4.5X3.4	#1	M4, M6	4.50	3.40
SES1-6.0X4.9	#1	M5, M6, M8	6.00	4.90
SES1-7.0X5.5	#1	M10	7.00	5.50
SES1-8.0X6.2	#1	M8, M10	8.00	6.20
SES1-9.0X7.0	#1	M12	9.00	7.00
SES1-10.0X8.0	#1	M10	10.00	8.00
SES1-11.0X9.0	#1	M14	11.00	9.00
SES2-6.0X4.9	#2	M5, M6, M8	6.00	4.90
SES2-7.0X5.5	#2	M10	7.00	5.50
SES2-8.0X6.2	#2	M8, M10	8.00	6.20
SES2-9.0X7.0	#2	M12	9.00	7.00
SES2-10.0X8.0	#2	M10	10.00	8.00
SES2-11.0X9.0	#2	M14	11.00	9.00
SES2-12.0X9.0	#2	M16	12.00	9.00
SES2-14.0X11.0	#2	M18	14.00	11.00
SES2-16.0X12.0	#2	M20	16.00	12.00
SES2-18.0X14.5	#2	M22, M24	18.00	14.50
SES3-8.0X6.2	#2	M8, M10	8.00	6.20
SES3-9.0X7.0	#3	M12	9.00	7.00
SES3-10.0X8.0	#3	M10	10.00	8.00
SES3-11.0X9.0	#3	M14	11.00	9.00
SES3-12.0X9.0	#3	M16	12.00	9.00
SES3-14.0X11.0	#3	M18	14.00	11.00
SES3-16.0X12.0	#3	M20	16.00	12.00
SES3-18.0X14.5	#3	M22, M24	18.00	14.50
SES3-20.0X16.0	#3	M27, M30	20.00	16.00
SES3-22.0X18.0	#3	M30	22.00	18.00
SES3-25.0X20.0	#3	M33, M36	25.00	20.00
SES3-28.0X22.0	#3	M36	28.00	22.00

Note: Dimensions are shown in mm.



Dimensional Data

Type/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"



Accessories:



Tap Collets
Pages 106-117



Tap Spanner Wrench
Page 118

End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders

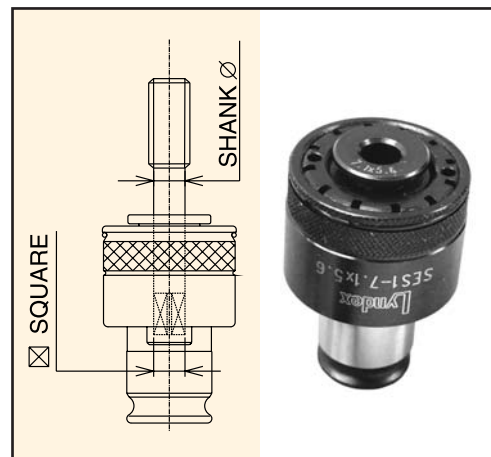
Tap Collets

Torque Control Tap Collets - JIS Standard

Standard collets are used for standard and coolant-thru tap holders, maximum 750 PSI.

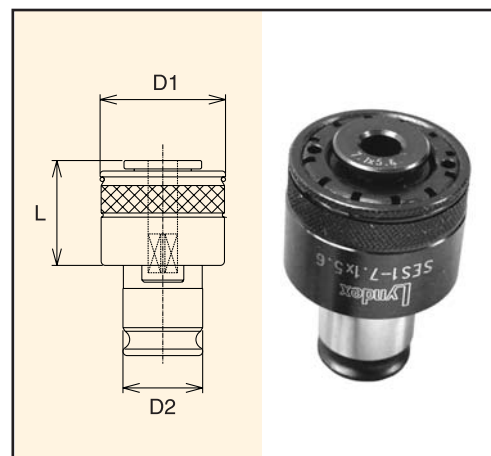
Part Number	System	Tap Size	Tap Shank Ø	Drive Square ☒
SES1-3.0X2.5	#1	M2	3.00	2.50
SES1-4.0X3.2	#1	M3	4.00	3.20
SES1-5.0X4.0	#1	M4, M4.5	5.00	4.00
SES1-5.5X4.5	#1	M5, M5.5	5.50	4.50
SES1-6.0X4.5	#1	M6	6.00	4.50
SES1-6.2X5.0	#1	M7, M8	6.20	5.00
SES1-7.0X5.5 (JIS)	#1	M9, M10	7.00	5.50
SES1-8.0X6.0	#1	M11	8.00	6.00
SES1-8.5X6.5	#1	M12	8.50	6.50
SES1-9.5X7.0	#1	M13	9.50	7.00
SES1-10.5X8.0	#1	M14, M15	10.5	8.00
SES2-6.2X5.0	#2	M7, M8	6.20	5.00
SES2-7.0X5.5 (JIS)	#2	M9, M10	7.00	5.50
SES2-8.0X6.0	#2	M11	8.00	6.00
SES2-8.5X6.5	#2	M12	8.50	6.50
SES2-9.5X7.0	#2	M13	9.50	7.00
SES2-10.5X8.0	#2	M14, M15	10.5	8.00
SES2-12.5X10.0	#2	M16	12.5	10.0
SES2-14.0X11.0 (JIS)	#2	M18	14.0	11.0
SES2-15.0X12.0	#2	M20	15.0	12.0
SES2-17.0X13.0	#2	M22	17.0	13.0
SES3-10.5X8.0	#3	M14, M15	10.5	8.00
SES3-12.5X10.0	#3	M16	12.5	10.0
SES3-13.0X10.0	#3	M17	13.0	10.0
SES3-14.0X11.0 (JIS)	#3	M18	14.0	11.0
SES3-15.0X12.0	#3	M20	15.0	12.0
SES3-17.0X13.0	#3	M22	17.0	13.0
SES3-19.0X15.0	#3	M24, M25	19.0	15.0
SES3-20.0X15.0	#3	M26, M27	20.0	15.0
SES3-21.0X17.0	#3	M28	21.0	17.0
SES3-23.0X17.0	#3	M30	23.0	17.0
SES3-24.0X19.0	#3	M32	24.0	19.0
SES3-25.0X19.0	#3	M33	25.0	19.0
SES3-26.0X21.0	#3	M34, M35	26.0	21.0
SES3-28.0X21.0	#3	M36, M38	28.0	21.0

Note: Dimensions are shown in mm.



Dimensional Data

Type/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"



Accessories:



Tap Collets
Pages 106-117

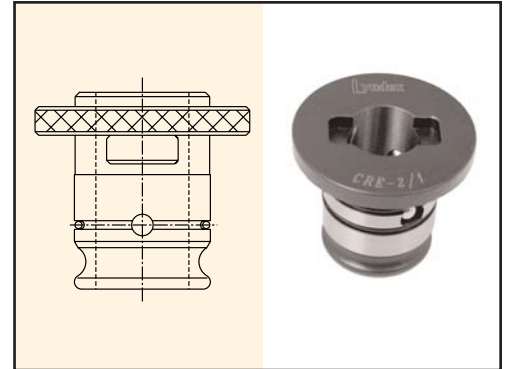


Tap Spanner Wrench
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Accessories

Tap Collet Reducers

Part Number	Description
CRE-2/1	System# 2 Reduction Adapter to System #1
CRE-3/2	System# 3 Reduction Adapter to System #2



Tap Collet Racks

Part Number	Description
RACK-ER20/TAP1	System #1 Tap Collet Rack, 24 pieces capacity
RACK-ER32/TAP2	System #2 Tap Collet Rack, 32 pieces capacity



Spanner Wrench for Tap Holders

Part Number	Description
T05-SPAN	Fits System #1 Torque Control Tap Collets
T10-SPAN	Fits System #2 Torque Control Tap Collets
T15-SPAN	Fits System #3 Torque Control Tap Collets



Coolant Tube Wrench for HSK holders

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

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
HSK40-TUBE	Coolant tube for HSK40 Holders
HSK100-TUBE	Coolant tube for HSK100 Holders



End Mill Holders

ERTG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders



End Mill Holders

ER/TG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders

Stub, Boring, Blank



Current Promotion

Scan these QR Codes



Featured Video

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.



End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders
Stub, Boring, Blank

CAT and BT Stub Mill Holders

- 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

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



TIR: < .0002 run out along pilot



Speed: up to 15,000 rpm



Set-up: quick and easy

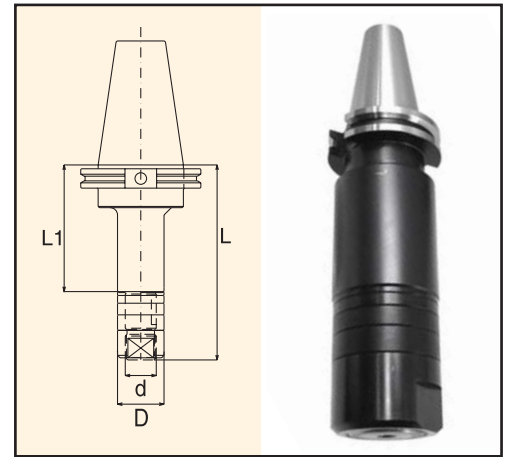


Coolant-thru: opt. not available

CAT40/50

Part Number	Taper	d	L	D	L1	Key Size
C4002-1000-6.17	CT40	1"	6.17"	1.50"	4.00"	1/4"
C4002-1250-6.29	CT40	1-1/4"	6.29"	1.75"	4.00"	5/16"
C4002-1500-6.60	CT40	1-1/2"	6.60"	2.12"	4.00"	3/8"
C5002-1000-6.17	CT50	1"	6.17"	1.50"	4.00"	1/4"
C5002-1250-6.28	CT50	1-1/4"	6.28"	1.75"	4.00"	5/16"
C5002-1500-6.60	CT50	1-1/2"	6.60"	2.12"	4.00"	3/8"

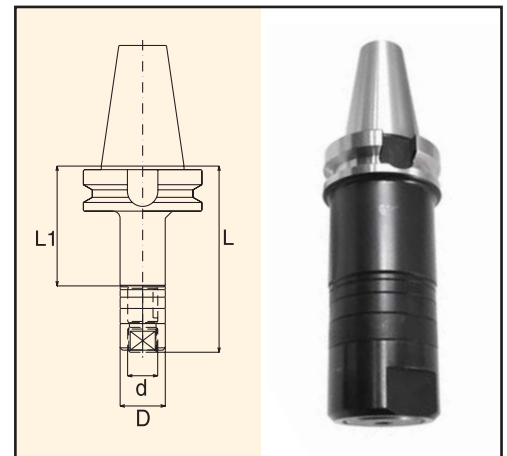
Note: 1/8", 1/4", 3/8" and 1/2" arbor spacers and securing nut included as standard with all listed toolholders.



BT30/40/50

Part Number	Taper	d	L	D	L1	Key Size
B3002-0750-4.97	BT30	3/4"	4.97"	1.25"	3.00"	1/8"
B3002-1000-5.17	BT30	1"	5.17"	1.50"	3.00"	1/4"
B4002-1000-5.18	BT40	1"	5.18"	1.50"	3.00"	1/4"
B4002-1250-5.32	BT40	1-1/4"	5.32"	1.75"	3.00"	5/16"
B4002-1500-5.60	BT40	1-1/2"	5.60"	2.12"	3.00"	3/8"
B5002-1000-6.17	BT50	1"	6.17"	1.50"	4.00"	1/4"
B5002-1250-6.28	BT50	1-1/4"	6.28"	1.75"	4.00"	5/16"
B5002-1500-6.60	BT50	1-1/2"	6.60"	2.12"	4.00"	3/8"

Note: 1/8", 1/4", 3/8" and 1/2" arbor spacers and securing nut included as standard with all listed toolholders.



Accessories:



Replacement Nut
Page 123







Replacement Spacer
Page 123

End Mill Holders
ERT/G/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders
Stub, Boring, Blank

NMTB and R8 Stub Mill Holders

- 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

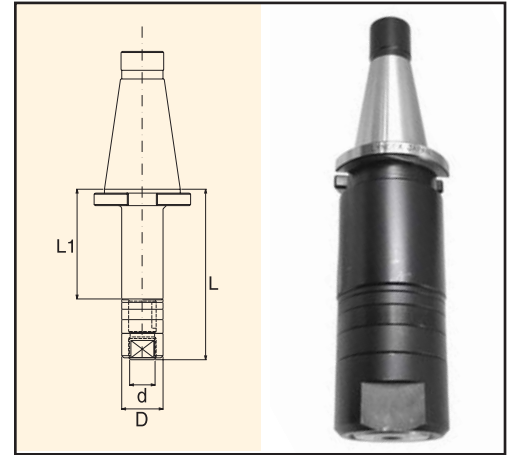
-  **TIR:** < .0002 run out along pilot
-  **Speed:** up to 15,000 rpm
-  **Set-up:** quick and easy
-  **Coolant-thru:** opt. not available

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	Taper	d	L	D	L1	Key Size
N3002-0750-4.97	NMTB30	3/4"	4.97"	1.25"	3.00"	1/8"
N3002-1000-5.18	NMTB30	1"	5.18"	1.50"	3.00"	1/4"
N3002-1250-5.28	NMTB30	1-1/4"	5.28"	1.75"	3.00"	5/16"
N4002-0750-5.00	NMTB40	3/4"	5.00"	1.25"	3.00"	1/8"
N4002-1000-5.18	NMTB40	1"	5.18"	1.50"	3.00"	1/4"
N4002-1250-5.28	NMTB40	1-1/4"	5.28"	1.75"	3.00"	5/16"
N4002-1500-5.62	NMTB40	1-1/2"	5.62"	2.12"	3.00"	3/8"
N5002-1000-6.18	NMTB50	1"	6.18"	1.50"	4.00"	1/4"
N5002-1250-6.28	NMTB50	1-1/4"	6.28"	1.75"	4.00"	5/16"
N5002-1500-6.60	NMTB50	1-1/2"	6.60"	2.12"	4.00"	3/8"

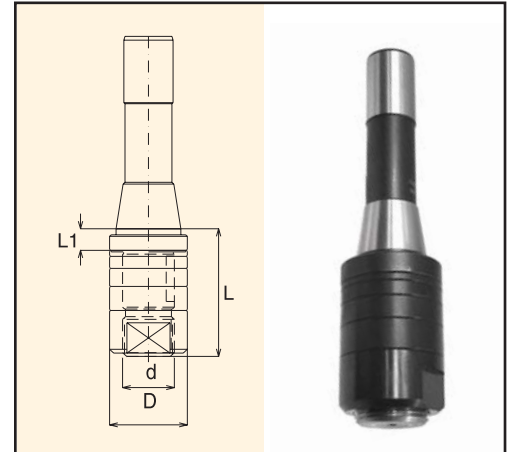
Note: 1/8", 1/4", 3/8" and 1/2" arbor spacers and securing nut included as standard with all listed toolholders. NMTB shanks are suitable for use with Erickson QC spindles.



R8

Part Number	Taper	d	L	D	L1	Key Size
880-064-2.76	R8	1.00"	2.76"	1.50"	0.48"	1/4"
880-080-2.82	R8	1.25"	2.82"	1.75"	0.50"	5/16"

Note: 1/8", 1/4", 3/8" and 1/2" arbor spacers and securing nut included as standard with all listed toolholders.



Accessories:



Replacement Nut
Page 123



Replacement Spacer
Page 123

Accessories

Replacement Nut for Stub Mill Holders

Part Number	Description	Length of Nut
3/4-STUBNUT	3/4"	18 mm (0.70")
1-STUBNUT	1"	22.5 mm (0.88")
1-1/4-STUBNUT	1-1/4"	22.5 mm (0.88")
1-1/2-STUBNUT	1-1/2"	33.5 mm (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



CAT, BT and NMTB Boring Head Holders

- Taper ground to AT3 or better to ensure 80% taper contact
- Ground surfaces



TIR: < .0002 run out along pilot



Speed: up to 15,000 rpm



Set-up: quick and easy

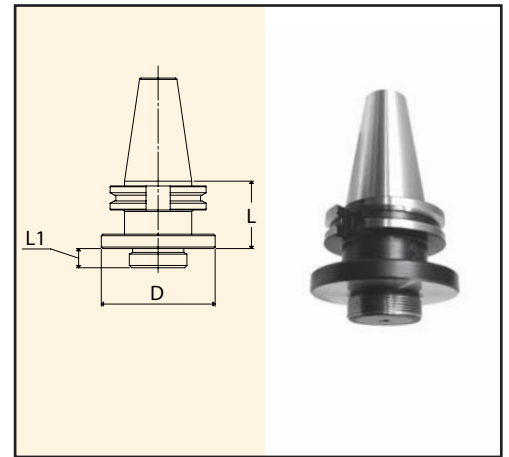


Coolant-thru: opt. modification

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

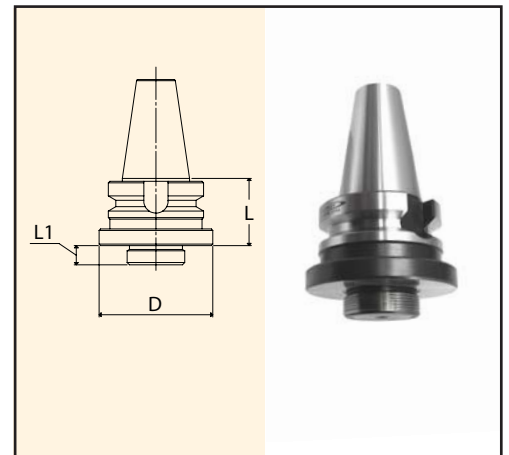
CAT40/50

Part Number	Taper	Thread	L	L1	D
C40BH-0875-1.75	CT40	7/8"-20	1.75"	0.44"	1.75"
C40BH-1500-1.75	CT40	1-1/2"-18	1.75"	0.50"	2.96"
C50BH-0875-1.75	CT50	7/8"-20	1.75"	0.44"	1.75"
C50BH-1500-1.75	CT50	1-1/2"-18	1.75"	0.50"	2.96"



BT30/40/50

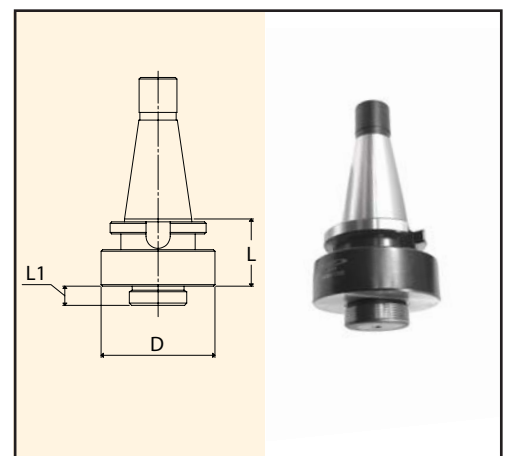
Part Number	Taper	Thread	L	L1	D
B30BH-0875-1.75	BT30	7/8"-20	1.75"	0.44"	1.75"
B30BH-1500-1.75	BT30	1-1/2"-18	1.75"	0.50"	2.96"
B40BH-0875-1.75	BT40	7/8"-20	1.75"	0.44"	1.75"
B40BH-1500-1.75	BT40	1-1/2"-18	1.75"	0.50"	2.96"
B50BH-0875-1.75	BT50	7/8"-20	1.75"	0.44"	1.75"
B50BH-1500-1.75	BT50	1-1/2"-18	1.75"	0.50"	2.96"



NMTB40/50

Part Number	Taper	Thread	L	L1	D
N40BH-0875-1.75	NMTB40	7/8"-20	1.75"	0.44"	1.75"
N40BH-1500-1.75	NMTB40	1-1/2"-18	1.75"	0.50"	2.96"
N50BH-0875-1.75	NMTB50	7/8"-20	1.75"	0.44"	1.75"
N50BH-1500-1.75	NMTB50	1-1/2"-18	1.75"	0.50"	2.94"

NMTB shanks are suitable for use with Erickson QC spindles.



CAT and BT Blank Bars

- 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

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



TIR: < .0002 run out along pilot



Speed: up to 15,000 rpm



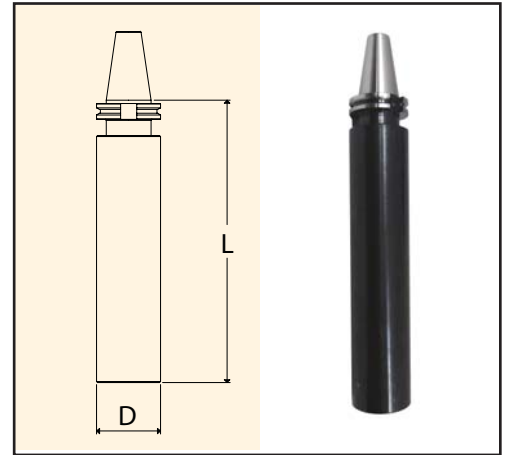
Set-up: quick and easy



Coolant-thru: opt. modification

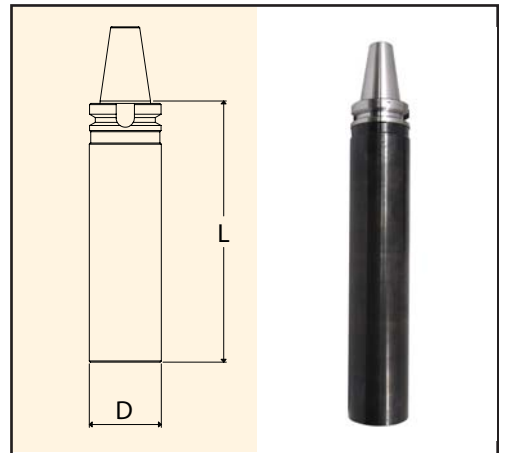
CAT40/50

Part Number	Taper	L	D
C4008-0013	CT40	13.00"	2.50"
C5008-0013	CT50	13.00"	3.88"



BT30/40/50

Part Number	Taper	L	D
B3008-0008	BT30	8.00"	2.25"
B4008-0013	BT40	13.00"	2.50"
B5008-0013	BT50	13.00"	3.88"

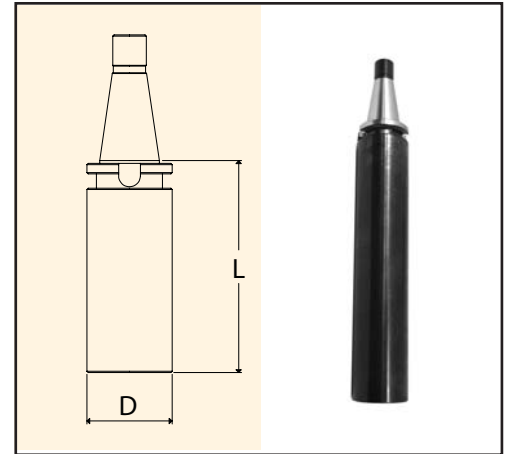


NMTB and HSK Blank Bars

NMTB40/50

Part Number	Taper	L	D
N4008-0013	NMTB40	13.00"	2.50"
N5008-0013	NMTB50	13.00"	3.88"

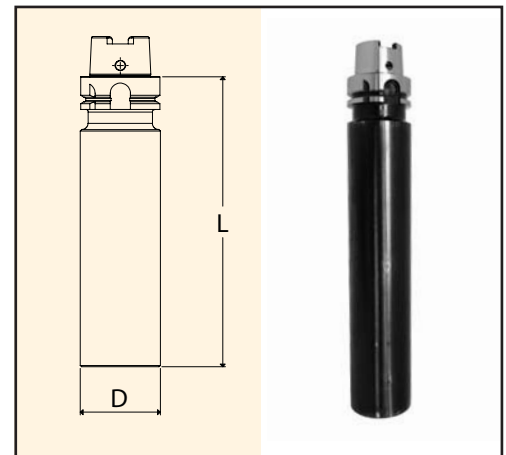
NMTB shanks are suitable for use with Erickson QC spindles.



HSK40A/63A/100A

Part Number	Taper	L	D
HSK40A-BLANK-8.00	HSK40A	8.00"	2.00"
HSK63A-BLANK-13.00	HSK63A	13.00"	2.50"
HSK100A-BLANK-13.00	HSK100A	13.00"	3.75"

Note: Coolant tube and coolant tube wrench are not included.
Other HSK sizes are available as specials. Please contact us for more information.



Coolant Tube Wrench for HSK Holders

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

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
HSK40-TUBE	Coolant Tube for HSK40 Holders
HSK100-TUBE	Coolant Tube for HSK100 Holders





End Mill Holders

ER/TG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders

Stub, Boring, Blank

R8, 5C, 3J, 16C



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R8 Collets

All R8 collets are made with hardened threaded bushing in the back for long life. R8 Collets do not collapse.

INCH					
Part Number	Size	Part Number	Size	Part Number	Size
800-004	1/16"	800-026	13/32"	800-048	3/4"
800-006	3/32"	800-028	7/16"	800-050	25/32"
800-008	1/8"	800-030	15/32"	800-052	13/16"
800-010	5/32"	800-032	1/2"	800-054	27/32"
800-012	3/16"	800-034	17/32"	800-056	7/8"
800-014	7/32"	800-036	9/16"	800-064*	1"
800-016	1/4"	800-038	19/32"	860-001S	R8 Steel Emergency Collet: 1/16" pilot hole
800-018	9/32"	800-040	5/8"		
800-020	5/16"	800-042	21/32"		
800-022	11/32"	800-044	11/16"		
800-024	3/8"	800-046	23/32"		

* Cannot be used with notches, flats, weldon shank. We recommend using End Mill Holders.

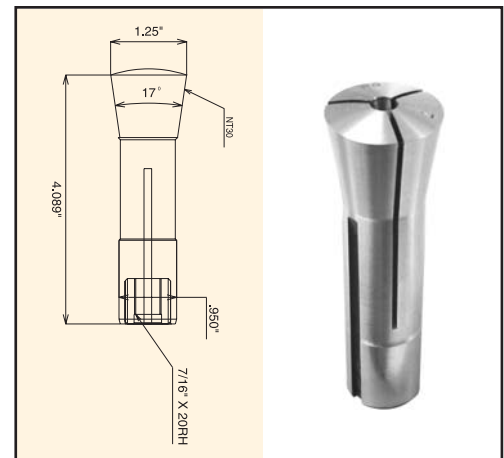
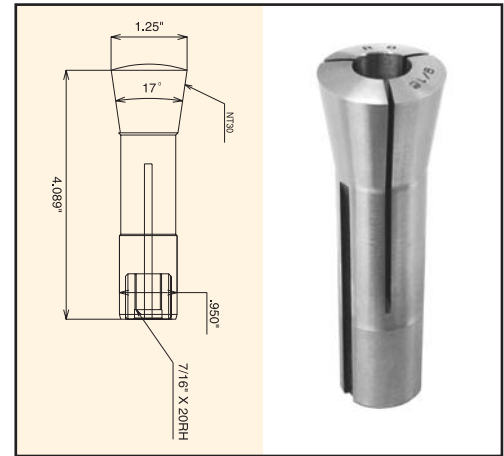
METRIC					
Part Number	Size	Part Number	Size	Part Number	Size
820-003	3mm	820-009	9mm	820-015	15mm
820-004	4mm	820-010	10mm	820-016	16mm
820-005	5mm	820-011	11mm	820-017	17mm
820-006	6mm	820-012	12mm	820-018	18mm
820-007	7mm	820-013	13mm	820-019	19mm
820-008	8mm	820-014	14mm	820-020	20mm

R8 Collet Sets

Part Number	Description	Set Configuration
810-006	6 Piece R8 Collet Set	Size Range: 1/8" - 3/4" by 8ths
810-008	8 Piece R8 Collet Set	Size Range: 1/8" - 1" by 8ths
810-011	11 Piece R8 Collet Set	Size Range: 1/8" - 3/4" by 16ths
810-012	12 Piece R8 Collet Set	Size Range: 1/8" - 3/4" by 16ths + 7/8"
810-013	13 Piece R8 Collet Set	Size Range: 1/8" - 7/8" by 16ths
810-014	14 Piece R8 Collet Set	Size Range: 1/16"-7/8" by 16ths
810-021	21 Piece R8 Collet Set	Size Range: 1/8" - 3/4" by 32nds
810-023	23 Piece R8 Collet Set	Size Range: 1/16" - 3/4" by 32nds
810-025	25 Piece R8 Collet Set	Size Range: 1/8" - 7/8" by 32nds
810-027	27 Piece R8 Collet Set	Size Range: 1/16" - 7/8" by 32nds
820-018S	18 Piece R8 Metric Collet Set	Size Range: 3 - 20mm by 1mm

R8 Collet Rack

Part Number	Description
RACK-R8	Metal Rack, holds 24 piece R8 Collets or R8 chucks



Tolerance

INCH	
Size Range	T.i.R.
1/16" - 3/8"	0.0007
3/32" - 1"	0.0011

METRIC	
Size Range	T.i.R.
3 to 10mm	0.0007
11 to 20mm	0.0011



End Mill Holders

ERTG/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders

Stub, Boring, Blank

R8, 5C, 3J, 16C

5C Collets

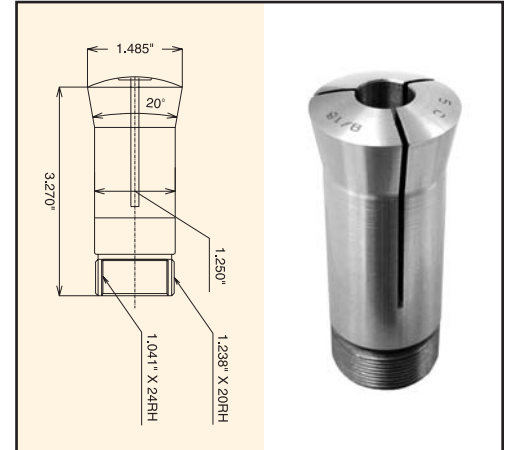
All 5C collets (except 5C Step Collets) have external and internal threads.

5C Round Collets

INCH					
Part Number	Size	Part Number	Size	Part Number	Size
500-003	3/64"	500-028	7/16"	500-053	53/64"
500-004	1/16"	500-029	29/64"	500-054	27/32"
500-005	5/64"	500-030	15/32"	500-055	55/64"
500-006	3/32"	500-031	31/64"	500-056	7/8"
500-007	7/64"	500-032	1/2"	500-057	57/64"
500-008	1/8"	500-033	33/64"	500-058	29/32"
500-009	9/64"	500-034	17/32"	500-059	59/64"
500-010	5/32"	500-035	35/64"	500-060	15/16"
500-011	11/64"	500-036	9/16"	500-061	61/64"
500-012	3/16"	500-037	37/64"	500-062	31/32"
500-013	13/64"	500-038	19/32"	500-063	63/64"
500-014	7/32"	500-039	39/64"	500-064	1"
500-015	15/64"	500-040	5/8"	500-065*	1-1/64"
500-016	1/4"	500-041	41/64"	500-066*	1-1/32"
500-017	17/64"	500-042	21/32"	500-067*	1-3/64"
500-018	9/32"	500-043	43/64"	500-068*	1-1/16"
500-019	19/64"	500-044	11/16"	500-069*	1-5/64"
500-020	5/16"	500-045	45/64"	500-070*	1-3/32"
500-021	21/64"	500-046	23/32"	500-071*	1-7/64"
500-022	11/32"	500-047	47/64"	500-072*	1-1/8"
500-023	23/64"	500-048	3/4"	560-001B	5C Brass collet has 1/16" pilot hole
500-024	3/8"	500-049	49/64"	560-001S	5C Steel emergency collet has 1/16" pilot hole and hardened threads
500-025	25/64"	500-050	25/32"		
500-026	13/32"	500-051	51/64"		
500-027	27/64"	500-052	13/16"		

* Collet has stepped internal diameter and cannot be used for bar feed work.

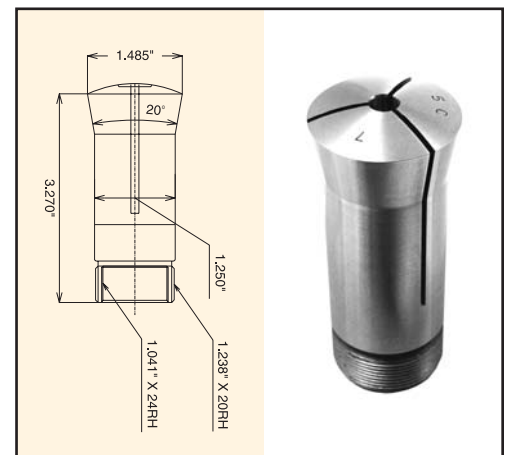
METRIC					
Part Number	Size	Part Number	Size	Part Number	Size
520-003	3mm	520-011	11mm	520-019	19mm
520-004	4mm	520-012	12mm	520-020	20mm
520-005	5mm	520-013	13mm	520-021	21mm
520-006	6mm	520-014	14mm	520-022	22mm
520-007	7mm	520-015	15mm	520-023	23mm
520-008	8mm	520-016	16mm	520-024	24mm
520-009	9mm	520-017	17mm	520-025	25mm
520-010	10mm	520-018	18mm	520-026*	26mm



Tolerance

INCH	
Size Range	T.I.R.
3/64" - 25/64"	0.0007
13/32" - 1.1/8"	0.0011

METRIC	
Size Range	T.I.R.
3 to 10mm	0.0007
11 to 26mm	0.0011



Accessories:



5C Collet Stops
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5C Collet Blocks
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5C Collet Rack
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5C Collet Wrench
Page 131

5C Collets

All 5C collets (except 5C Step Collets) have external and internal threads.

5C Collet Sets

Part Number	Size	Set Configuration
510-008	8 Piece 5C Collet Set	Size Range: 1/8" - 1" by 8ths
510-009	9 Piece 5C Collet Set	Size Range: 1/8" - 1-1/8" by 8ths
510-009S	9 Piece 5C Collet Set	Size Range: 1/16" + 1/8" - 1" by 8ths
510-015	15 Piece 5C Collet Set	Size Range: 1/8" - 1" by 16ths
510-016	16 Piece 5C Collet Set	Size Range: 1/8" - 1-1/16" by 16ths
510-016S	16 Piece 5C Collet Set	Size Range: 1/16" - 1" by 16ths
510-017	17 Piece 5C Collet Set	Size Range: 1/16" - 1-1/16" by 16ths
510-018	18 Piece 5C Collet Set	Size Range: 1/16" - 1-1/8" by 16ths
510-024	24 Piece 5C Collet Set, Metric	Size Range: 3.0 - 26.0mm x 1.0mm
510-029	29 Piece 5C Collet Set	Size Range: 1/8" - 1" by 32nds
510-031	31 Piece 5C Collet Set	Size Range: 1/8" - 1-1/16" by 32nds
510-031S	31 Piece 5C Collet Set	Size Range: 1/16" - 1" by 32nds
510-033	33 Piece 5C Collet Set	Size Range: 1/16" - 1-1/16" by 32nds
510-035	35 Piece 5C Collet Set	Size Range: 1/16" - 1-1/8" by 32nds
510-061	61 Piece 5C Collet Set	Size Range: 1/8" - 1-1/16" by 64ths
510-061S	61 Piece 5C Collet Set	Size Range: 1/16" - 1" by 64ths
510-065	65 Piece 5C Collet Set	Size Range: 1/8" - 1-1/8" by 64ths
510-065S	65 Piece 5C Collet Set	Size Range: 1/16" - 1-1/16" by 64ths
510-069	69 Piece 5C Collet Set	Size Range: 1/16" - 1-1/8" by 64ths
580-007	7 Piece 5C Hex Collet Set	Size Range: 1/8" - 7/8" by 8ths
580-013	13 Piece 5C Hex Collet Set	Size Range: 1/8" - 7/8" by 16ths
580-106	6 Piece 5C Square Collet Set	Size Range: 1/8" - 3/4" by 8ths
580-011	11 Piece 5C Square Collet Set	Size Range: 1/8" - 3/4" by 16ths

5C Square Collets

INCH	
Part Number	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"



5C Square Collet

5C Step Collets

INCH	
Part Number	Size
550-002	2"
550-003	3"
550-004	4"
550-005	5"
550-006	6"



5C Step Collet

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 collet draw bar (no ID threads).

Tolerance (For 5C Hex & Square)

Size Range	T.i.R.
1/8" - 3/16"	0.008
1/4" - 7/8"	0.012

5C Hex Collets

INCH	
Part Number	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"



5C Hex Collet

Accessories:



5C Collet Stops
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5C Collet Blocks
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5C Collet Rack
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5C Collet
Wrench
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5C Collets Accessories

5C Collet Stops

Part Number	Description
570-ADJ	Adjustable Threaded Collet Stop
570-UNI	Universal Collet Stop
570-USA	Non-Threading Depth Retainer Collet Stop



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	Tightening Ring
570-BLOCK	Complete Set (all of the above)



5C Collet Rack

Part Number	Description
RACK-5C/100TG/SK25	Metal rack holds 30 pieces 5C Collets



5C Collet Wrench

Part Number	Description
5C-WRENCH	5C Collet Wrench

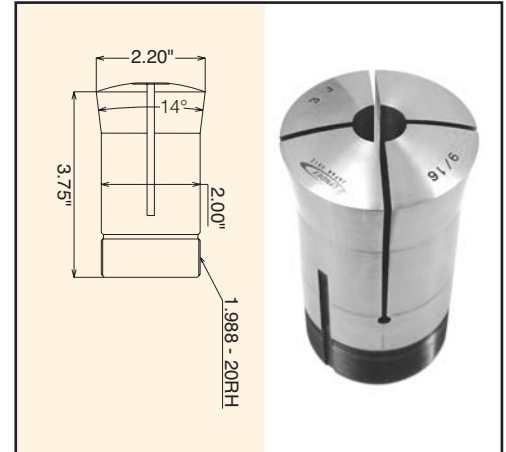


3J Collets

All 3J collets have external threads only.

3J Round Collets

INCH			
Part Number	Size	Part Number	Size
300-004	1/16"	300-042	21/32"
300-005	5/64"	300-043	43/64"
300-006	3/32"	300-044	11/16"
300-007	7/64"	300-045	45/64"
300-008	1/8"	300-046	23/32"
300-009	9/64"	300-047	47/64"
300-010	5/32"	300-048	3/4"
300-011	11/64"	300-049	49/64"
300-012	3/16"	300-050	25/32"
300-013	13/64"	300-051	51/64"
300-014	7/32"	300-052	13/16"
300-015	15/64"	300-053	53/64"
300-016	1/4"	300-054	27/32"
300-017	17/64"	300-055	55/64"
300-018	9/32"	300-056	7/8"
300-019	19/64"	300-057	57/64"
300-020	5/16"	300-058	29/32"
300-021	21/64"	300-059	59/64"
300-022	11/32"	300-060	15/16"
300-023	23/64"	300-061	61/64"
300-024	3/8"	300-062	31/32"
300-025	25/64"	300-063	63/64"
300-026	13/32"	300-064	1"
300-027	27/64"	300-068	1-1/16"
300-028	7/16"	300-072	1-1/8"
300-029	29/64"	300-076	1-3/16"
300-030	15/32"	300-080	1-1/4"
300-031	31/64"	300-084	1-5/16"
300-032	1/2"	300-088	1-3/8"
300-033	33/64"	300-092	1-7/16"
300-034	17/32"	300-096	1-1/2"
300-035	35/64"	300-100	1-9/16"
300-036	9/16"	300-104	1-5/8"
300-037	37/64"	300-108	1-11/16"
300-038	19/32"	300-112	1-3/4"
300-039	39/64"	360-001S	Steel Emergency Collet has 1/16" pilot hole and hardened threads
300-040	5/8"		
300-041	41/64"		



Tolerance

Size Range	T.i.R.
3/64" - 25/64"	0.0007
13/32" - 1.1/8"	0.0011

3J Collet Set

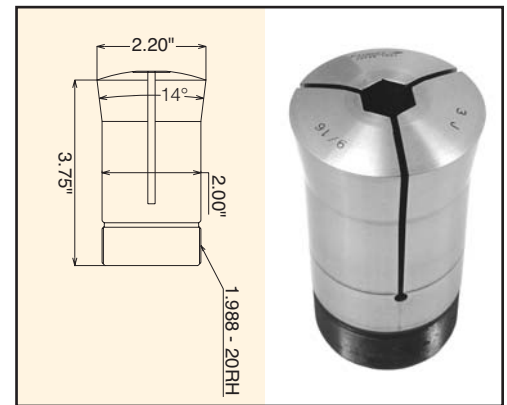
Part Number	Size	Set Configuration
300-008S	8 Piece 3J Collet Set	1/8" - 1" by 8ths
300-018S	18 Piece 3J Collet Set	1/16" - 1.1/8" by 16ths
300-029S	29 Piece 3J Collet Set	1/8" - 1" by 32nds
300-033S	33 Piece 3J Collet Set	1/16" - 1.1/16" by 32nds

End Mill Holders
ERTG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders
Stub, Boring, Blank
R8, 5C, 3J, 16C

3J Collets

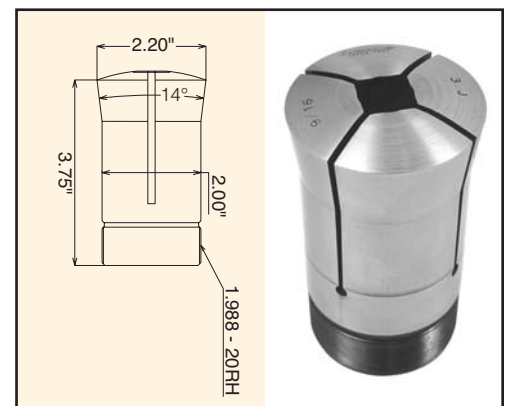
3J Hex Collets

INCH			
Part Number	Size	Part Number	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"		



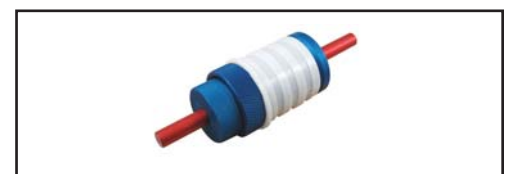
3J Square Collets

INCH			
Part Number	Size	Part Number	Size
340-020	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"		



3J Collet Stop

Part Number	Description
370-USA	Non-Threading Depth Retainer 3J Collet Stop



3J Collet Wrench

Part Number	Description
3J-WRENCH	Wrench for 3J round and square collets
16C-WRENCH	Wrench for 3J hex collets

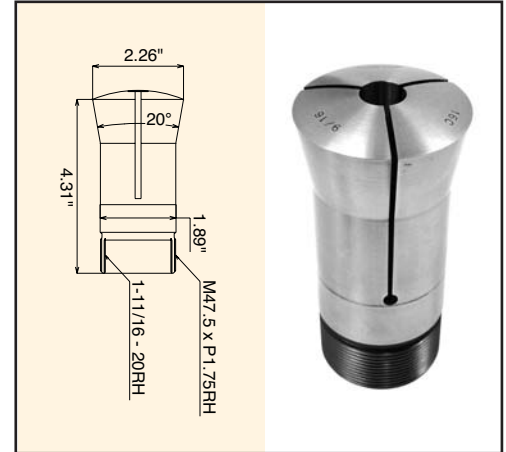


16C Collets

All 16C collets have external and internal threads.

16C Round Collets

INCH			
Part Number	Size	Part Number	Size
160-004	1/16"	160-041	41/64"
160-005	5/64"	160-042	21/32"
160-006	3/32"	160-043	43/64"
160-007	7/64"	160-044	11/16"
160-008	1/8"	160-045	45/64"
160-009	9/64"	160-046	23/32"
160-010	5/32"	160-047	47/64"
160-011	11/64"	160-048	3/4"
160-012	3/16"	160-049	49/64"
160-013	13/64"	160-050	25/32"
160-014	7/32"	160-051	51/64"
160-015	15/64"	160-052	13/16"
160-016	1/4"	160-053	53/64"
160-017	17/64"	160-054	27/32"
160-018	9/32"	160-055	55/64"
160-019	19/64"	160-056	7/8"
160-020	5/16"	160-057	57/64"
160-021	21/64"	160-058	29/32"
160-022	11/32"	160-059	59/64"
160-023	23/64"	160-060	15/16"
160-024	3/8"	160-061	61/64"
160-025	25/64"	160-062	31/32"
160-026	13/32"	160-063	63/64"
160-027	27/64"	160-064	1"
160-028	7/16"	160-068	1-1/16"
160-029	29/64"	160-072	1-1/8"
160-030	15/32"	160-076	1-3/16"
160-031	31/64"	160-080	1-1/4"
160-032	1/2"	160-084	1-5/16"
160-033	33/64"	160-088	1-3/8"
160-034	17/32"	160-092	1-7/16"
160-035	35/64"	160-096	1-1/2"
160-036	9/16"	160-100	1-9/16"
160-037	37/64"	160-104	1-5/8"
160-038	19/32"	166-001S	Steel Emergency Collet has 1/16" pilot hole and hardened threads.
160-039	39/64"		
160-040	5/8"		



Tolerance

Size Range	T.i.R.
3/64" - 25/64"	0.0007
13/32" - 1.1/8"	0.0011

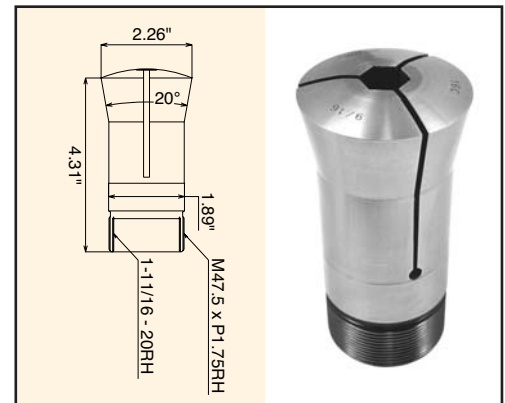
16C Collet Set

Part Number	Size	Set Configuration
160-008S	8 Piece 16C Collet set	1/8" - 1" by 8ths
160-018S	18 Piece 16C Collet se	1/16" - 1.1/16" by 16ths
160-029S	29 Piece 16C Collet sett	1/8" - 1" by 32nds

16C Collets

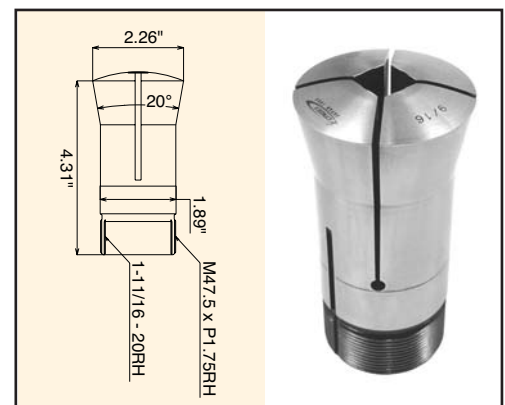
16C Hex Collets

INCH			
Part Number	Size	Part Number	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

INCHES			
Part Number	Size	Part Number	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"



16C Collet Stop

Part Number	Description
160-USA	Non-Threading Depth Retainer 16C Collet Stop

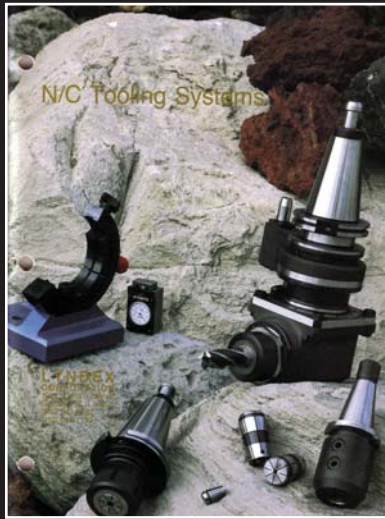
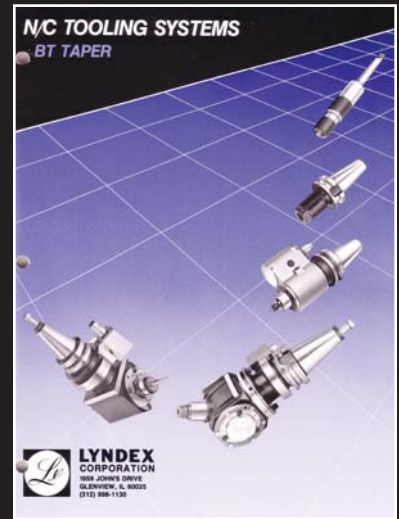
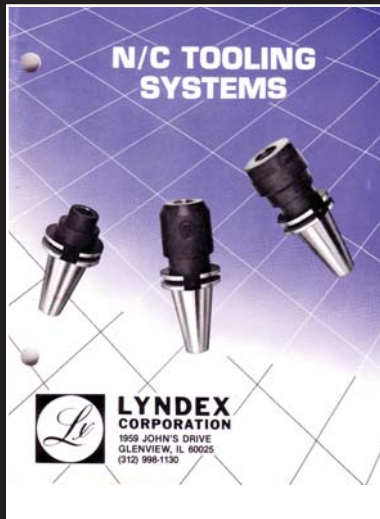
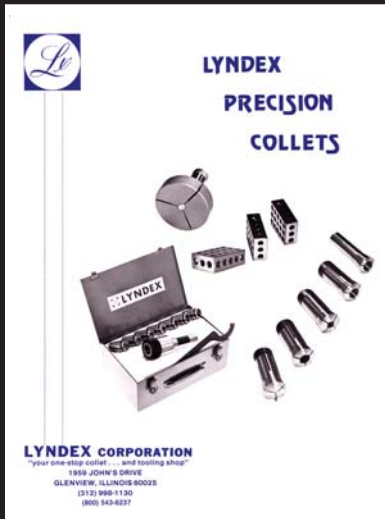


16C Collet Wrench

Part Number	Description
16C-WRENCH	Wrench for 16C round and hex collets
3J-WRENCH	Wrench for 16C square collets



Through the Years...



Lyndex Through the Years

Lyndex began in 1979 as a supplier of 5C and R8 collets and now has become one of the premier suppliers of toolholding solutions. Over the past 30 years we have offered many different products and will continue to offer the best solutions to our customers. Lyndex-Nikken thanks you for your business and hope we can continue to meet your tooling needs for the next 30 years!



End Mill Holders

ERT/G/DA Collet Chucks

Shell Mill Holders

Drill Chucks

Tap Holders

Tap Holders

Tap Holders



Current Promotion

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QR Codes



Featured Video

Retention Studs

Retention Studs

Retention studs 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 studs:

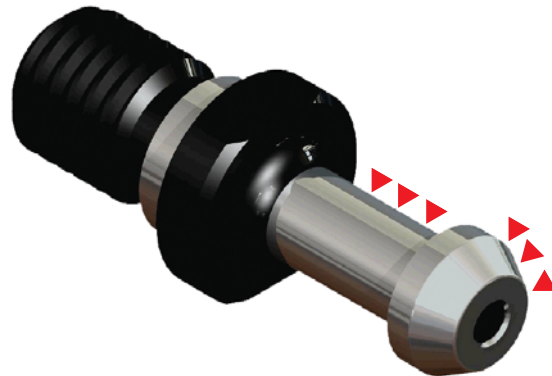
- Your machining center's taper size (40, 50, etc) and flange type (CT or BT)
- The brand name of your machining center
- Its configuration (vertical or horizontal)
- The model number

CAT Retention Studs



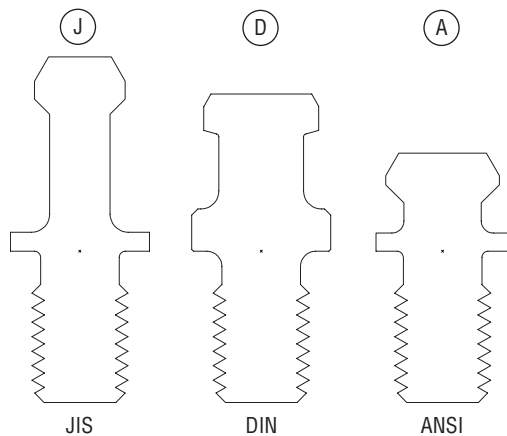
- Class 3A UNC Thread
- Magnetic particle crack tested
- Tensile and shear requirements per ISO and JIS standard
- All locations that make contact with ground spindle mechanism components are ground
- Base of pullstud flange is ground to assure perpendicular alignment between pullstud and taper of toolholder
- Tight pitch diameter tolerance helps maintain accurate concentricity between threads and knob limiting the expansion or flaring of the small end of the taper

BT Retention Studs

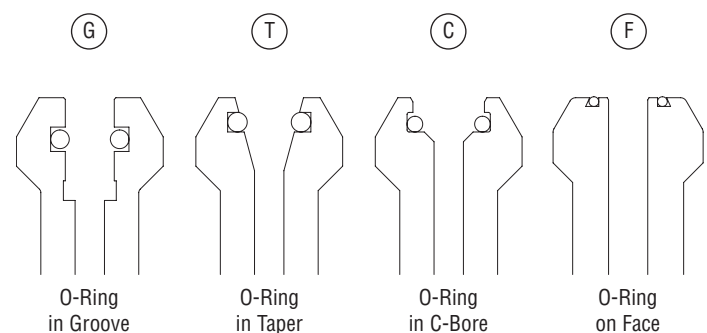


- Class 4g6g metric thread
- Magnetic particle crack tested
- Tensile and shear requirements per JIS 6339
- All locations of the pullstud that make contact with ground spindle mechanism components are ground
- Base of pullstud flange is ground to assure perpendicular alignment between pullstud and taper of toolholder
- Ground Pilot and tight pitch diameter tolerance help maintain accurate concentricity between threads and knob limiting the expansion or flaring of the small end of the taper

Retention Knob Style

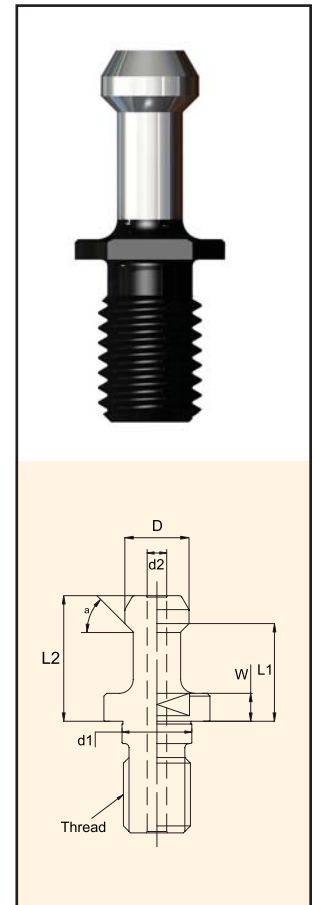


O-Ring Type



CAT Retention Studs

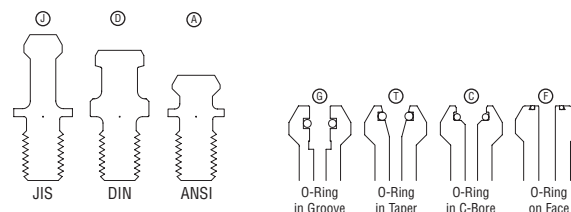
Part Number	D	d1	d2	L1	L2	Angle degree	W	Thread	O-Ring	Max Torque (Ft/lbs)	Style
C40-1500*	0.75	--	0.276	0.79	1.03	75	0.28	5/8"-11	--	85	D
C40-1500(ISO)*	0.75	--	0.276	0.79	1.03	75	0.16	5/8"-11	P9	85	D, T
C40-4500	0.59	--	--	0.99	1.26	45	0.12	5/8"-11	--	85	J
C40-4500(B)	0.59	0.64	--	0.99	1.26	45	0.12	5/8"-11	--	85	J, B
C40-4500(H)	0.59	--	0.177	0.99	1.26	45	0.12	5/8"-11	--	85	J
C40S-4500	0.59	--	--	0.99	1.26	45	0.23	5/8"-11	--	85	J
C40S-4500(H)	0.59	--	--	0.99	1.26	45	0.23	5/8"-11	--	85	J
C40-6000	0.59	--	--	0.99	1.26	60	0.12	5/8"-11	--	85	J
C40-6000(B)	0.59	0.64	--	0.99	1.26	60	0.12	5/8"-11	--	85	J, B
C40-6000(H)	0.59	--	0.177	0.99	1.26	60	0.12	5/8"-11	--	85	J
C40S-6000	0.59	--	--	0.99	1.26	60	0.23	5/8"-11	--	85	J
C40-9000	0.59	--	--	0.99	1.26	90	0.12	5/8"-11	--	85	J
C40-9000(B)	0.59	0.64	--	0.99	1.26	90	0.12	5/8"-11	--	85	J, B
C40-9000(H)	0.59	--	0.177	0.99	1.26	90	0.12	5/8"-11	--	85	J
C40S-9000	0.59	--	--	0.99	1.26	90	0.23	5/8"-11	--	85	J
C40-STD*	0.74	--	0.276	0.44	0.64	45	0.12	5/8"-11	--	85	A
C40-STD(B)	0.74	0.64	0.276	0.44	0.64	45	0.12	5/8"-11	--	85	A, B
C40-HITACHI	0.59	0.64	0.197/0.157	0.992	1.26	45	0.12	5/8"-11	S-16 / P-5	85	J, G
C40-MAZAK	0.59	0.625	--	0.777	1.05	90	0.2	5/8"-11	--	85	--
C40-MITSUI	0.59	--	--	0.59	0.87	90	0.2	5/8"-11	--	85	J
PS-381E	0.74	0.64	0.276	0.793	1.03	75	0.23	5/8"-11	S15 / P9	85	D, T
PS-B641M	0.74	0.64	0.197	0.44	0.64	45	0.118	5/8"-11	S15	85	A
PS-806-1	0.75	0.79	0.24	0.787	1.023	75	0.276	5/8"-11	--	85	D
C50-1500*	1.1	--	0.393	0.992	1.35	75	0.28	1"-8	S24	110	D
C50-1500(ISO)*	1.1	--	0.393	0.98	1.35	75	0.2	1"-8	--	110	D
C50-4500	0.9	--	--	1.386	1.78	45	0.39	1"-8	--	110	J
C50-4500(B)	0.9	1.031	--	1.386	1.78	45	0.39	1"-8	--	110	J, B
C50-4500(H)	0.9	--	0.393	1.386	1.78	45	0.39	1"-8	--	110	J
C50-6000	0.9	--	--	1.386	1.78	60	0.39	1"-8	--	110	J
C50-6000(B)	0.9	1.031	--	1.386	1.78	60	0.39	1"-8	--	110	J, B
C50-6000(H)	0.9	--	0.393	1.386	1.78	60	0.39	1"-8	--	110	J
C50-9000	0.9	--	--	1.386	1.78	90	0.39	1"-8	--	110	J
C50-9000(B)	0.9	1.031	--	1.386	1.78	90	0.39	1"-8	--	110	J, B
C50-9000(H)	0.9	--	0.393	1.386	1.78	90	0.39	1"-8	--	110	J
C50-STD*	1.14	--	0.46	0.7	1	45	0.2	1"-8	--	110	A
C50-STD(B)	1.14	1.031	0.46	0.7	1	45	0.2	1"-8	--	110	A, B
C50-HITACHI	0.9	--	--	1.385	1.78	90	0.39	1"-8	--	110	J
C50-HITACHI(OH)	0.9	--	0.118	1.385	1.78	90	0.39	1"-8	--	110	J, F
C50-MAKINO	0.9	0.984	0.236	1.378	1.772	45	0.39	1"-8	P22	110	J
C50-MAZAK	0.91	0.91	0.91	0.91	0.91	0.91	0.91	1"-8	--	110	--
C50-MITSUI	0.94	--	--	0.905	1.22	90	0.2	1"-8	--	110	J
C50-OKUMA(OH)	0.906	1.023	0.275	1.378	1.772	60	0.39	1"-8	S24	110	J
PS-P14	0.94	--	0.314	0.905	1.22	90	0.39	1"-8	PS-P13	110	D
PS-B61	0.9	1.023	0.236	1.377	1.77	60	0.39	1"-8	N24	110	J



The drawing above details the five 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.

Note: " * " or "H" suffix denote retention studs supplied with a coolant hole.
"B" suffix denotes balanceable toolholder retention studs.

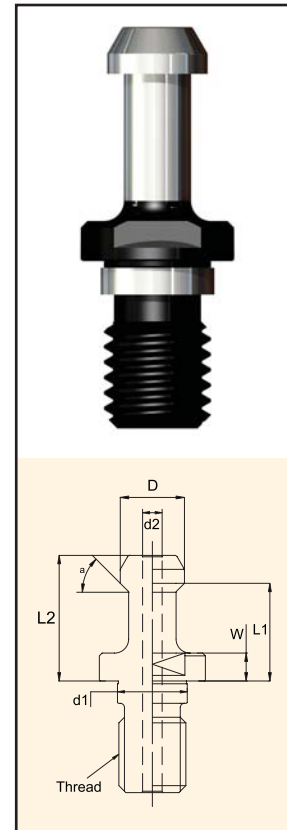
- A = ANSI Style Knob**
- B = Balanced Knob (With Pilot Dia.)**
- C = O-Ring in C-Bore**
- D = DIN Style Knob**
- F = O-Ring on Face**
- G = O-Ring in Groove**
- J = JIS Style Knob**
- T = O-Ring in Taper**



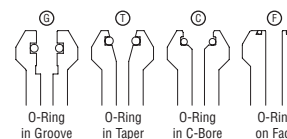
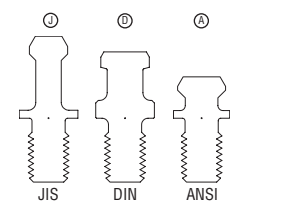
End Mill Holders
ER/TG/DA Collet Chucks
Shell Mill Holders
Drill Chucks
Tap Holders
Stub, Boring, Blank
R8, 5C, 3J, 16C
Retention Studs

BT Retention Studs

Part Number	D	d1	d2	L1	L2	Angle degree	W	Thread	O-Ring	Max Torque (Ft/lbs)	Style
PS-M10	0.55	0.492	--	0.669	0.87	45	0.12	M12P1.75	--	40	D
PS-16	0.43	0.492	--	0.709	0.905	45	0.2	M12P1.75	--	40	J
PS-17	0.43	0.492	--	0.709	0.905	60	0.2	M12P1.75	--	40	J
PS-19	0.512	0.492	--	0.886	1.102	60	0.2	M12P1.75	--	40	J
PS-130E	0.43	0.492	0.157	0.709	0.905	45	0.2	M12P1.75	P9	40	J
PS-132	0.43	0.492	0.157	0.709	0.905	45	0.2	M12P1.75	P9	40	--
PS-801	0.472	0.492	--	0.724"	0.921	75	0.2	M12P1.75	--	40	J
B30-4500	0.43	0.492	--	0.709	0.91	45	0.19	M12P1.75	--	40	J
B30-6000	0.43	0.492	--	0.709	0.91	60	0.19	M12P1.75	--	40	J
PS-1	0.591	0.669	--	1.102	1.378	45	0.23	M16P2	--	40	J
PS-70	0.748	0.669	--	1.102	1.378	45	0.2	M16P2	--	40	J
PS-P5-1	0.591	0.669	--	0.708	0.984	90	0.2	M16P2	--	40	J
PS-G5	0.591	0.669	--	1.165	1.165	90	0.2	M16P2	--	40	--
PS-G58	0.74	0.669	--	0.752	0.752	45	0.2	M16P2	--	40	A
PS-805	0.748	0.669	--	0.905	1.142	75	0.28	M16P2	--	40	J
PS-G51	0.74	0.669	0.275	0.512	0.752	45	0.12	M16P2	--	40	A
PS-G510	0.74	0.669	0.275	0.752	0.752	45	0.12	M16P2	PS-51	40	A
PS-354	0.594	0.669	0.157	0.157	1.55	45	0.19	M16P2	--	40	J
PS-G52	0.74	0.275	0.669	0.44	0.64	45	0.12	M16P2	--	40	A
PS-364	0.59	0.157	0.669	1.116	1.44	45	0.23	M16P2	--	40	J
B40-1500*	0.75	0.669	0.275	0.905	1.14	75	0.27	M16P2	--	85	D
B40-1500(R)	0.75	0.669	0.275	0.905	1.14	75	0.27	M16P2	AS568-015	85	D
B40-1500(ISO)*	0.75	0.669	0.275	0.9	1.14	75	0.16	M16P2	P9	85	D, T
B40-4500	0.59	0.669	--	1.102	1.37	45	0.23	M16P2	--	85	J
B40-4500(H)	0.59	0.669	0.181	1.102	1.37	45	0.23	M16P2	--	85	J
B40-6000	0.59	0.669	--	1.102	1.37	60	0.23	M16P2	--	85	J
B40-6000(H)	0.59	0.669	0.181	1.102	1.37	60	0.23	M16P2	--	85	J
B40-9000	0.59	0.669	--	1.102	1.37	90	0.23	M16P2	--	85	J
B40-9000(H)	0.59	0.669	0.181	1.102	1.37	90	0.23	M16P2	--	85	J
B40-BRIDGEPORT	0.74	0.669	0.275	0.552	0.75	45	0.13	M16P2	--	85	A
B40-FADAL	0.74	0.669	--	0.552	0.75	45	0.24	M16P2	--	85	A
B40-STD*	0.74	0.669	0.275	0.43	0.64	45	0.12	M16P2	--	85	A
PS-874	0.75	0.669	0.236	0.905	1.142	75	0.28	M16P2	AS568-015 / P9	85	D, T
PS-366E-1	0.75	0.669	0.276	0.905	1.142	75	0.16	M16P2	--	85	D, T
PS-50	0.906	0.984	--	0.984	2.756	45	1.38	M24P3	--	85	--
PS-G45	1.14	0.984	--	0.992	0.692	45	0.2	M24P3	--	85	A
PS-B1	0.866	0.984	--	1.063	2.835	60	1.38	M24P3	--	85	--
PS-809	1.102	0.984	--	0.984	1.339	75	0.28	M24P3	--	85	D
PS-C	0.827	0.984	--	2.169	2.484	45	1.14	M24P3	--	85	--
PS-810	1.102	0.984	0.393	0.984	1.339	75	0.28	M24P3	--	85	D
PS-816-1	1.102	0.984	0.236	0.984	1.339	75	0.28	M24P3	P21	85	D
PS-833	1.102	0.984	0.216	0.984	1.339	75	0.28	M24P3	P9 / P21	85	D, T
PS-G41	1.14	0.984	0.393	0.992	0.692	45	0.2	M24P3	--	85	A
PS-P16	0.945	0.984	0.314	0.905	1.22	90	0.2	M24P3	--	85	J
B50-4500	0.91	0.984	--	1.377	1.77	45	0.39	M24P3	--	110	J
B50-4500(H)	0.91	0.984	0.275	1.377	1.77	45	0.39	M24P3	--	110	J
B50-6000	0.91	0.984	--	1.377	1.77	60	0.39	M24P3	--	110	J
B50-6000(H)	0.91	0.984	0.275	1.377	1.77	60	0.39	M24P3	--	110	J
B50-9000	0.91	0.984	--	1.377	1.77	90	0.39	M24P3	--	110	J
B50-9000(H)	0.91	0.984	0.275	1.377	1.77	90	0.39	M24P3	--	110	J
B50-MITSUI	0.95	0.984	--	0.905	1.22	90	0.2	M24P3	--	110	J



Note: " * " or "H" suffix denote retention studs supplied with a coolant hole. "B" suffix denotes balanceable toolholder retention studs.



- A = ANSI Style Knob**
- B = Balanced Knob (With Pilot Dia.)**
- C = O-Ring in C-Bore**
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End Mill Holders | ERTG/DA Collet Chucks | Shell Mill Holders | Drill Chucks | Tap Holders | Stub, Boring, Blank | Retention Studs



Current Promotion

Scan
these
QR Codes



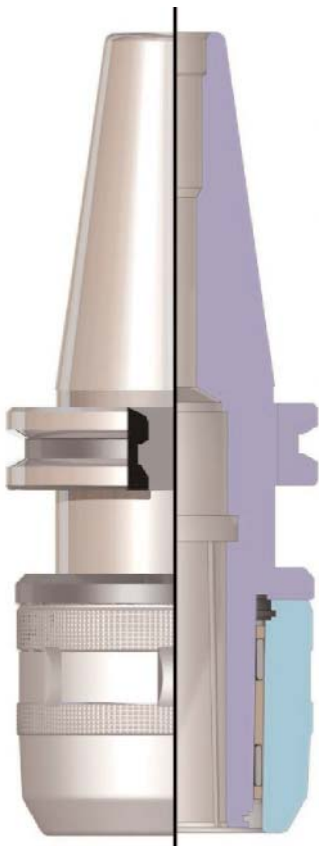
Featured Video

Milling Chuck Features

Since its first introduction into the industry in 1963, Nikken has sold over 2,000,000 Milling Chucks worldwide and never stopped improving 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.

Our latest edition, Nikken Anniversary Multi-Lock Milling Chuck, is more compact and advanced with full-bore clamping for even more incredible gripping power.

With these features, the "Anniversary" Multi-Lock Milling Chuck quickly became one of the most popular tools used in machine shops all over the world.



US Patent (7018919)

Nikken is the inventor of the Milling Chuck.

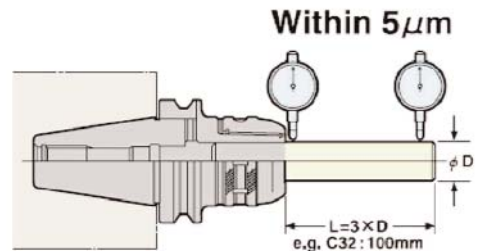
Quiet, Stable Heavy Milling

High strength Nickel Chromium Molybdenum 4340 Alloy. Solid 1-piece base and thick wall design ensure no distortion during heavy machining. Straight collet design virtually eliminates axial movement in clamping, ideal for multi-spindles machining, which requires matched tool-length settings.

High Run-Out Accuracy

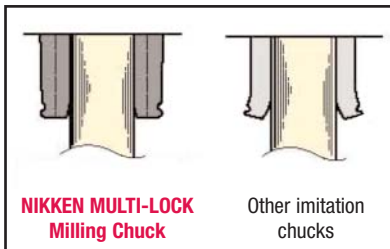
Flange and taper grinding allow for smooth and precise chucking of tool, resulting in minimal TIR.

0.0002 at 4" from the nose guaranteed.



Sub-Zero Treatment (-90°C)

All milling chucks are cryogenically treated after heat treatment to remove residual Austenite. This creates a uniform Martensite state and eliminates warpage and distortion, preventing deformation during the life of the toolholder.



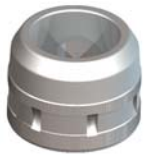
Even Gripping Along Entire Length of Cutter

Clamping along the entire shank is a key condition for precise milling. Without this critical factor, surface finish, tool life, rigidity and run-out accuracy will be jeopardized.

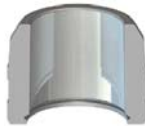
Only Nikken Milling Chuck clamps even at 3mm from the nose. This makes the Anniversary Type Multi-Lock Milling Chuck ideal for roughing and finishing.

Milling Chuck Features

Chucking Torque and Durability



Forged Nickel Chrome Molybdenum 4340 ground on taper and base.



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



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



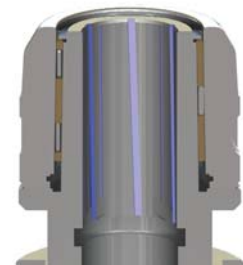
	Nikken Multi-Roller System			Imitation Multi-Roller System	
--	-----------------------------------	--	--	--------------------------------------	--

Chucking Torque and Rigidity: Effect of Internal Slots

Internal slots together with thickened wall of the chuck body ensure no distortion even at heavy milling. Thus, smooth milling work is achieved without the vibration or slipping of the end mill.

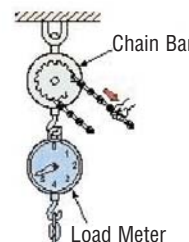
Strongest mechanically gripping holder in the world!

Thick wall and slots provide strong chucking torque and rigidity. Further, slots function as an escape for oil.

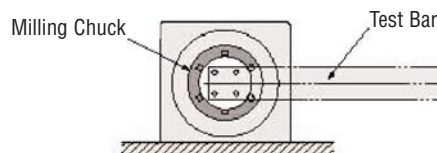
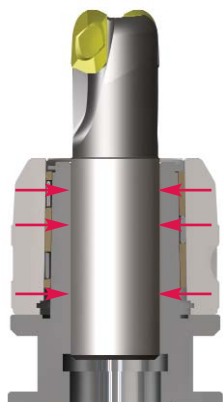


Chucking Torque Test Data (C42)

	Oil is removed completely	Trace amounts of oil	%
Nikken With Slots	3,600 ft. lbs.	3,500 ft. lbs	5% down
Others Without Slots	2,500 ft. lbs.	900 ft. lbs.	67% down



- 2 degree internal directional slots keep high pressure coolant aimed toward the periphery of the cutter
- High pressure capable up to 1200PSI
- Large slot design is also ideal for high volume oil and for high pressure air applications

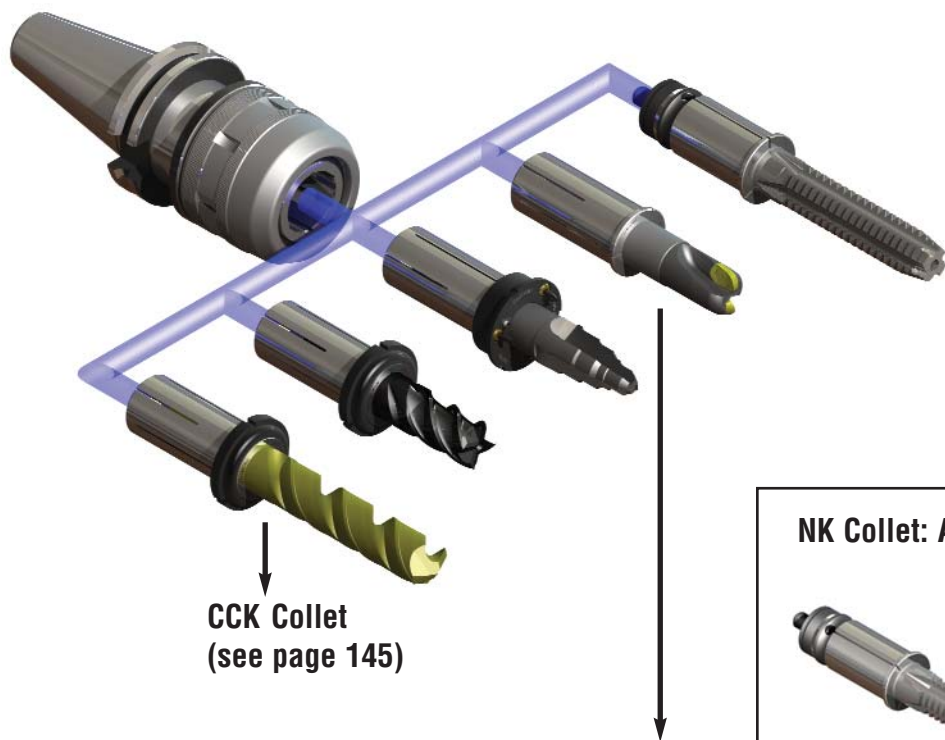


Milling Chuck Collet System

Ultra-lock 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. Collets are available for all Ultra-Lock Milling Chucks in inch and metric sizes including coolant-thru styles. All milling chuck collets will surpass the precision and rigidity of traditional collet chuck systems if the cutting tool shank tolerance is guaranteed to be h7 or better.



KM: standard collet
NK: adjustable collet
CCK: Coolant-thru collet
CCKN: Coolant-thru adjustable collet



CCK Collet
(see page 145)

KM Collet



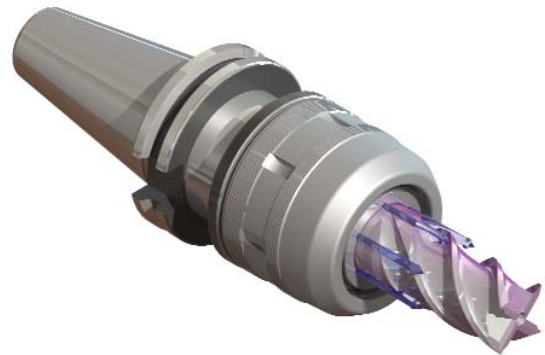
- High precision KM reduction collets extend the chucking flexibility of the milling chuck. All inch and metric standard sizes can be held by the same toolholder
- Can be used in conjunction with a coolant back up screw for high pressure (1200 PSI) applications

NK Collet: Adjustable Collet



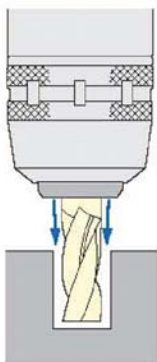
- High precision NK reduction collets extend the chucking flexibility of the milling chuck and offer a built in back up screw for repeatability when replacing cutters
- Available in all inch and metric standard sizes
- Easy set up since the NK fits directly into the inner diameter of the milling chuck

Milling Chuck Coolant Collet System: CCK Collet

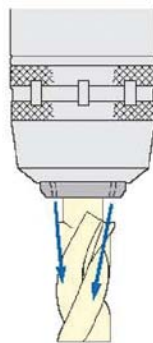


- High pressure coolant application through existing slots
- CCK reduction collets offers flexibility to hold both metric and inch standard shanks
- Straight collet design eliminates taper tolerance variation between mating surfaces
- Many options available to configure how coolant is expelled
- CCK collets are designed with an internal coolant groove that helps channel high pressure coolant to the periphery of your cutter without any reduction of gripping strength and TIR accuracy

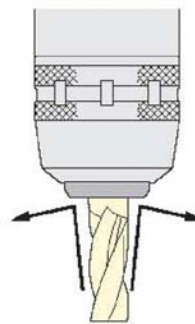
Examples of Coolant-Thru Options



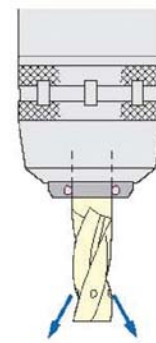
For Grooving



For cutters with cutting diameters larger than the shank diameter



Prevention of the swarf contamination



A front nut with an O-ring seal, for use with coolant thru cutter, is also available as an option

Milling Chuck Coolant Collet System



Coolant-Thru Nut: CKFN-C

When paired with the Ultra-Lock™ 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
- Available for inch and metric shanks
- Prevents swarf and chips from packing on the collet face
- Both the Coolant Collet and the Coolant-Thru Nut must be ordered on size for each cutting tool (see pages 157-158 for sizes and part numbers)



Slotted Nut: CKFN

When paired with the Ultra-Lock™ Milling Chuck Coolant Collet (CCK), the 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 keeps high pressure coolant (up to 1200 PSI) aimed toward the periphery of the cutter, even at high RPM
- Available for inch and metric shanks
- Helps remove chips during deep pocketing applications
- Both the Coolant Collet and the Slotted Nut must be ordered on size for each cutting tool



Slotted Nut: CKFN-MN

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



Direct Coolant Plug (thru-tool)

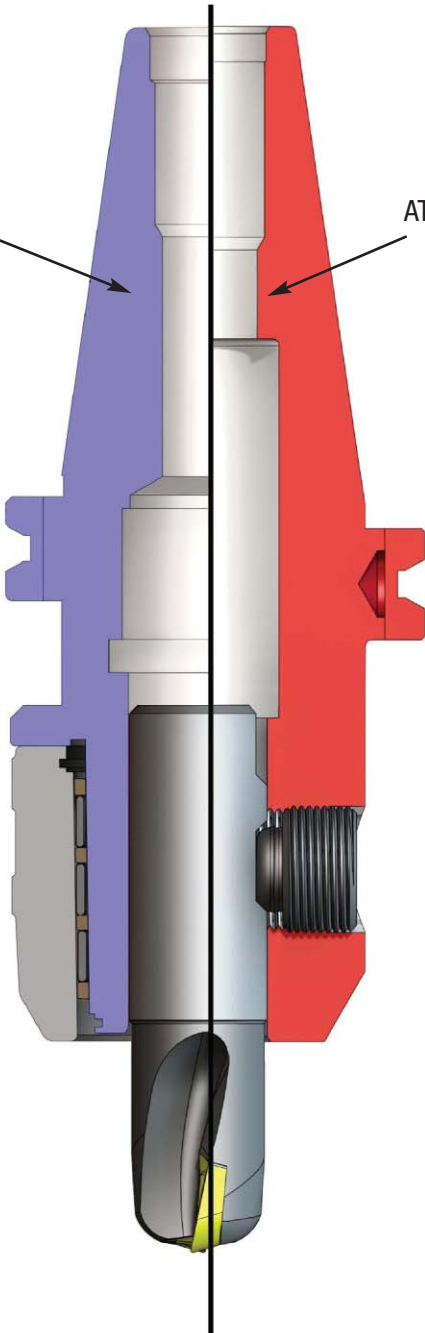
- Adjustable back up screw and coolant plug combination seats and seals within the inner diameter of milling chuck
- Rear coolant ports of cutter seat directly onto face o-ring seal of coolant plug
- 1200 PSI capable
- Available for inch and metric shanks
- Excellent for high torque deep drilling

Why Upgrading to the Ultra-Lock Milling Chuck?

The milling chuck is a renowned universal toolholder which has been proving its efficiency for years all over the world. Featuring a revolutionary design and collet system, the Ultra-Lock Milling Chuck allows for high-speed applications up to 20,000rpm and offers incredible benefits compared to standard End Mill Holders such as higher accuracy and higher rigidity.

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

Lyndex-Nikken Milling Chuck	End Mill Holder
<p>AT3 taper quality or better</p> <ul style="list-style-type: none"> <li>• Most powerful collet chuck in the world <li>• Symmetrical design, pre-balanced body and nut allow the milling chuck to operate beyond 20,000 RPM <li>• Outside bearing nut mechanically induces tight taper of the milling chuck to evenly collapse onto the cutting shank for high precision TIR <li>• 6 angled coolant slots are standard, providing high pressure and high volume of coolant directed toward the periphery of the cutting tool 	<p>AT3 taper quality or better</p> <ul style="list-style-type: none"> <li>• 120 year old concept for holding tools <li>• Set screw shifts cutter off center which creates unacceptable run-out for precision milling <li>• Non symmetrical design creates imbalance <li>• Requires tools with weldon flats which create further imbalance <li>• Coolant slots are optional and are not large enough to create high volume of cutting fluid under high pressure applications



CAT Milling Chucks

- 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



TIR: 0.0002" at 4xD



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★★



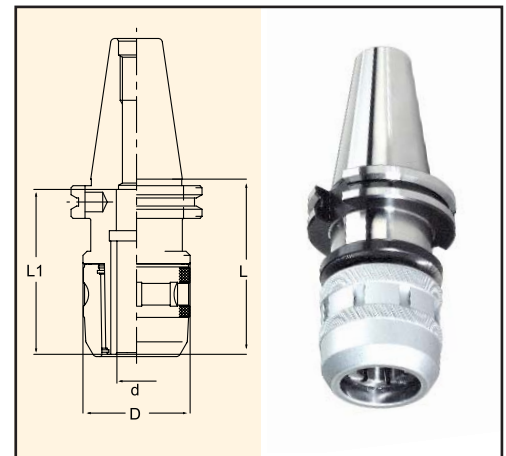
Reaming
★★★★☆

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	Clamping Range	Spanner Wrench	d	L	L1	D
CAT40-C3/4-70U	KM3/4	0.125-0.750"	9HC22	0.750"	2.75"	3.150"	2.047"
CAT40-C3/4-85U	KM3/4	0.125-0.750"	9HC22	0.750"	3.346"	3.150"	2.047"
CAT40-C3/4-105U	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
CAT40-C3/4-120U	KM3/4	0.125-0.750"	9HC22	0.750"	4.724"	3.150"	2.047"
CAT40-C1-85U	KM1	0.125-1.000"	9HC25	1.000"	3.346"	3.150"	2.362"
CAT40-C1-105U	KM1	0.125-1.000"	9HC25	1.000"	4.134"	3.150"	2.362"
CAT40-C1.1/4-85U	KM1-1/4	0.187-1.250"	9HC32	1.250"	3.346"	3.031"	2.717"
CAT40-C1.1/4SL-105U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.134"	3.543"	2.717"
CAT40-C1.1/4SL-120U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.724"	4.134"	2.717"
CAT40-C32-105U	KM32	3mm - 32mm	9HC32	32mm	4.134"	3.543"	2.717"

Note: Shaded red row indicates stubby style.



CAT50

Part Number	Collet Size	Clamping Range	Spanner Wrench	d	L	L1	D
CAT50-C3/4-105U	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
CAT50-C3/4-135U	KM3/4	0.125-0.750"	9HC22	0.750"	5.315"	3.150"	2.047"
CAT50-C3/4-165U	KM3/4	0.125-0.750"	9HC22	0.750"	6.496"	3.150"	2.047"
CAT50-C1-105U	KM1	0.125-1.000"	9HC25	1.000"	4.134"	3.150"	2.362"
CAT50-C1-135U	KM1	0.125-1.000"	9HC25	1.000"	5.315"	3.150"	2.362"
CAT50-C1.1/4-90U	KM1-1/4	0.187-1.250"	9HC32	1.250"	3.543"	4.134"	2.717"
CAT50-C1.1/4-105U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.134"	4.134"	2.717"
CAT50-C1.1/4-135U	KM1-1/4	0.187-1.250"	9HC32	1.250"	5.315"	4.134"	2.717"
CAT50-C1.1/4-165U	KM1-1/4	0.187-1.250"	9HC32	1.250"	6.496"	4.134"	2.717"
CAT50-C32-105U	KM32	3mm - 32mm	9HC32	32mm	4.134"	4.134"	2.717"
CAT50-C32-165U	KM32	3mm - 32mm	9HC32	32mm	6.496"	4.134"	2.717"
CAT50-C2-125U	KM2	1.000-2.000"	9HC50	2.000"	4.921"	3.228"	4.134"

Note: Spanner wrench not included.

Accessories:



KM and NK Collets
Page 155-156



Spanner Wrench
Page 159





Back-Up Screw
Page 159





Coolant-thru and slotted Nuts
Page 157-158

CAT Milling Chucks

CAT40 - DIN



Part Number	Collet Size 	Clamping Range	Spanner Wrench 	d	L	L1	D
CAT40-C3/4F-85U	KM3/4	0.125-0.750"	9HC22	0.750"	3.346"	3.150"	2.047"
CAT40-C3/4F-105U	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
CAT40-C1F-105U	KM1	0.125-1.000"	9HC25	1.000"	4.134"	3.150"	2.362"
CAT40-C1F-85U	KM1	0.125-1.000"	9HC25	1.000"	3.346"	3.150"	2.362"
CAT40-C1.1/4SLF-105U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.134"	3.543"	2.717"
CAT40-C1.1/4SLF-120U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.724"	4.134"	2.717"

CAT50 - DIN



Part Number	Collet Size 	Clamping Range	Spanner Wrench 	d	L	L1	D
CAT50-C3/4F-105U	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
CAT50-C3/4F-135U	KM3/4	0.125-0.750"	9HC22	0.750"	5.315"	3.150"	2.047"
CAT50-C1F-105U	KM1	0.125-1.000"	9HC25	1.000"	4.134"	3.150"	2.362"
CAT50-C1F-135U	KM1	0.125-1.000"	9HC25	1.000"	5.315"	3.150"	2.362"
CAT50-C1.1/4F-105U	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.134"	4.134"	2.717"
CAT50-C1.1/4F-135U	KM1-1/4	0.187-1.250"	9HC32	1.250"	5.315"	4.134"	2.717"

Note: Spanner wrench not included.

CAT40 High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
CAT40-C3/4-85UG	KM3/4	0.125 - 0.750"	GH20	0.750"	3.346"	3.150"	1.890"
CAT40-C3/4-105UG	KM3/4	0.125 - 0.750"	GH20	0.750"	4.134"	3.150"	1.890"
CAT40-C1-85UG	KM1	0.125 - 1.000"	GH25	1.000"	3.346"	3.150"	2.165"
CAT40-C1-105UG	KM1	0.125 - 1.000"	GH25	1.000"	4.134"	3.150"	2.165"
CAT40-C1.1/4-105UG	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.134"	2.500"	2.677"
CAT40-C1.1/4-120UG	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.724"	3.150"	2.677"

CAT50 High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
CAT50-C3/4-105UG	KM3/4	0.125 - 0.750"	GH20	0.750"	4.134"	3.150"	1.890"
CAT50-C3/4-135UG	KM3/4	0.125 - 0.750"	GH20	0.750"	5.315"	3.150"	1.890"
CAT50-C1-105UG	KM1	0.125 - 1.000"	GH25	1.000"	4.134"	3.150"	2.165"
CAT50-C1-135UG	KM1	0.125 - 1.000"	GH25	1.000"	5.315"	3.150"	2.165"
CAT50-C1.1/4-105UG	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.134"	4.134"	2.677"
CAT50-C1.1/4-135UG	KM1.1/4	0.187 - 1.250"	GH32	1.250"	5.315"	4.134"	2.677"

Note: High-speed wrench not included.

3-Lock Milling Chuck Holders for Dual Contact Spindle

3-Lock Milling Chuck Holders are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

Accessories:



KM and NK Collets
Page 155-156



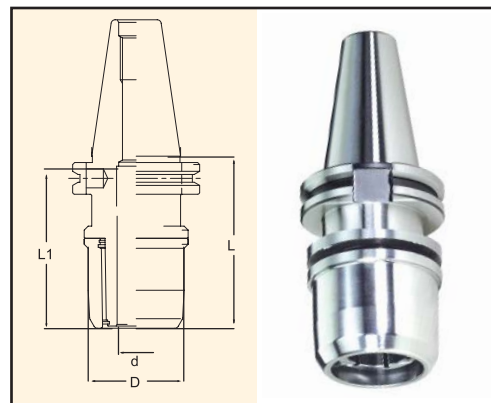
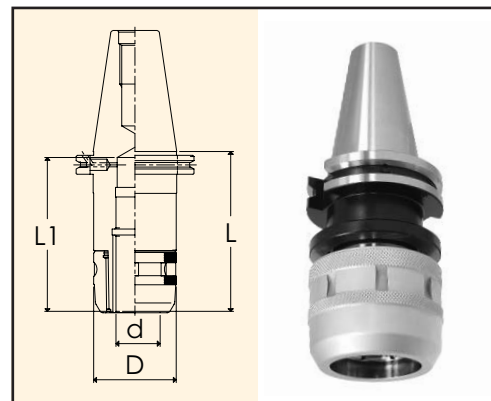
Spanner Wrench
Page 159



Back-Up Screw
Page 159



Coolant-thru and slotted Nuts
Page 157-158



BT Milling Chucks

- 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



TIR: 0.0002" at 4xD



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★★



Reaming
★★★★☆

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	Clamping Range	Spanner Wrench	d	L	L1	D
BT30-C3/4-75	KM3/4	0.125-0.750"	9HC22	0.750"	2.953"	3.150"	2.047"

BT40

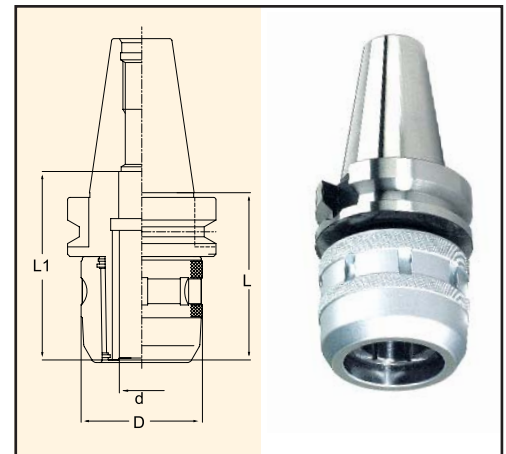
Part Number	Collet Size	Clamping Range	Spanner Wrench	d	L	L1	D
BT40-C3/4-70	KM3/4	0.125-0.750"	9HC22	0.750"	2.756"	3.150"	2.047"
BT40-C3/4-105	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
BT40-C1-70	KM1	0.125-1.000"	9HC25	1.000"	2.756"	3.150"	2.362"
BT40-C1-90	KM1	0.125-1.000"	9HC25	1.000"	3.543"	3.150"	2.362"
BT40-C1.1/4-85	KM1-1/4	0.187-1.250"	9HC32	1.250"	3.346"	3.031"	2.717"
BT40-C1.1/4-120	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.724"	4.134"	2.717"
BT40-C32-105	KM32	3mm - 32mm	9HC32	32mm	4.134"	3.543"	2.717"

Note: Shaded red row indicates stubby style.

BT50

Part Number	Collet Size	Clamping Range	Spanner Wrench	d	L	L1	D
BT50-C3/4-105	KM3/4	0.125-0.750"	9HC22	0.750"	4.134"	3.150"	2.047"
BT50-C3/4-135	KM3/4	0.125-0.750"	9HC22	0.750"	5.315"	3.150"	2.047"
BT50-C1-105	KM1	0.125-1.000"	9HC25	1.000"	4.134"	3.150"	2.362"
BT50-C1-135	KM1	0.125-1.000"	9HC25	1.000"	5.315"	3.150"	2.362"
BT50-C1.1/4-90	KM1-1/4	0.187-1.250"	9HC32	1.250"	3.543"	4.134"	2.717"
BT50-C1.1/4-135	KM1-1/4	0.187-1.250"	9HC32	1.250"	5.315"	4.134"	2.717"
BT50-C2-105	KM2	1.000-2.000"	9HC50	2.000"	4.134"	3.543"	4.134"
BT50-C32-105	KM32	3mm - 32mm	9HC32	32mm	4.134"	4.134"	2.717"
BT50-C32-165	KM32	3mm - 32mm	9HC32	32mm	6.496"	4.134"	2.717"

Note: Spanner wrench not included.





Accessories:





BT Milling Chucks

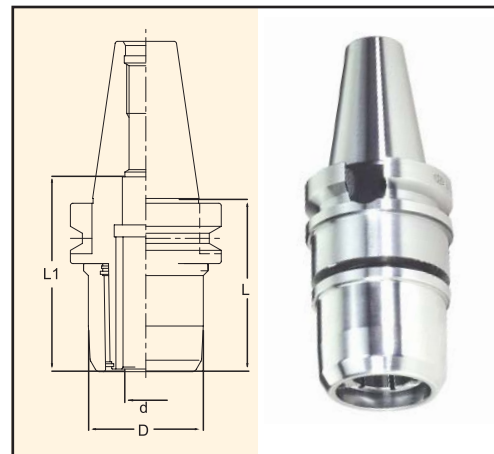
BT30 High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
BT30-C3/4-75G	KM3/4	0.125 - 0.750"	GH20	0.750"	2.953"	1.890"	3.150"



BT40 High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
BT40-C3/4-70G	KM3/4	0.125 - 0.750"	GH20	0.750"	2.795"	1.890"	3.150"
BT40-C3/4-105G	KM3/4	0.125 - 0.750"	GH20	0.750"	4.134"	1.890"	3.150"
BT40-C1-70G	KM1	0.125 - 1.000"	GH25	1.000"	2.756"	2.165"	3.150"
BT40-C1-90G	KM1	0.125 - 1.000"	GH25	1.000"	3.543"	2.165"	3.150"
BT40-C1.1/4-85G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	3.346"	2.677"	3.031"
BT40-C1.1/4-120G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.724"	2.677"	4.134"

Note: Shaded red row indicates stubby style.



BT50 High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
BT50-C3/4-105G	KM3/4	0.125 - 0.750"	GH20	0.750"	4.134"	1.890"	3.150"
BT50-C3/4-135G	KM3/4	0.125 - 0.750"	GH20	0.750"	5.315"	1.890"	3.150"
BT50-C1-105G	KM1	0.125 - 1.000"	GH25	1.000"	4.134"	2.165"	3.150"
BT50-C1-135G	KM1	0.125 - 1.000"	GH25	1.000"	5.315"	2.165"	3.150"
BT50-C1.1/4-90G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	3.543"	2.677"	4.134"
BT50-C1.1/4-135G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	5.315"	2.677"	4.134"

Note: High-speed spanner wrench not included.

3-Lock Milling Chuck Holders for Dual Contact Spindle

3-Lock Milling Chuck Holders are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



KM and NK Collets
Page 155-156



Spanner Wrench
Page 159



Back-Up Screw
Page 159



Coolant-thru and slotted Nuts
Page 157-158

HSK Milling Chucks

- 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



TIR: 0.0002" at 4xD



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆





Milling
★★★★★



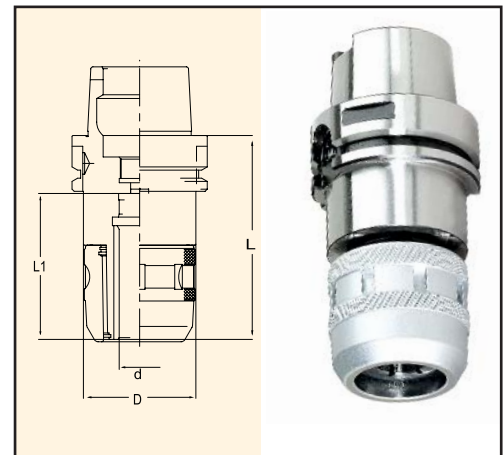
Reaming
★★★★☆

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 	Clamping Range	Spanner Wrench 	d	L	L1	D
HSK63A-C3/4-95	KM3/4	0.125-0.750"	9HC22	0.750"	3.740"	2.480"	2.047"
HSK63A-C3/4-110	KM3/4	0.125-0.750"	9HC22	0.750"	4.331"	3.150"	2.047"
HSK63A-C1-100	KM1	0.125-1.000"	9HC25	1.000"	3.937"	2.972"	2.362"
HSK63A-C1-130	KM1	0.125-1.000"	9HC25	1.000"	5.118"	3.150"	2.362"
HSK63A-C1.1/4-110	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.331"	3.268"	2.717"
HSK63A-C1.1/4-130	KM1-1/4	0.187-1.250"	9HC32	1.250"	5.118"	3.189"	2.717"
HSK63A-C32-130	KM32	3mm - 32mm	9HC32	32mm	5.118"	4.055"	2.717"

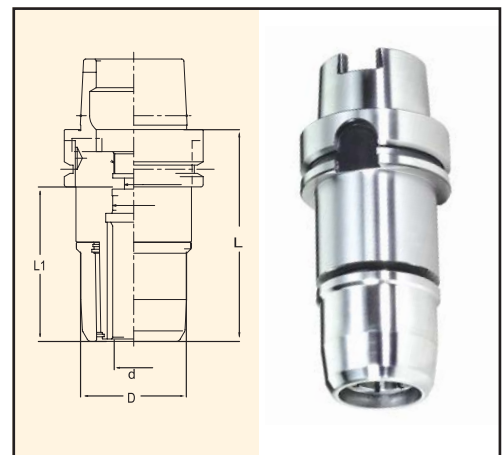
Note: Spanner wrench, coolant tube and coolant tube wrench not included. Please see page 159 for more details.



HSK63A High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
HSK63A-C3/4-95G	KM3/4	0.125 - 0.750"	GH20	0.750"	3.740"	2.244"	1.890"
HSK63A-C3/4-110G	KM3/4	0.125 - 0.750"	GH20	0.750"	4.331"	2.244"	1.890"
HSK63A-C1-100G	KM1	0.125 - 1.000"	GH25	1.000"	3.937"	2.362"	2.165"
HSK63A-C1-130G	KM1	0.125 - 1.000"	GH25	1.000"	5.118"	2.362"	2.165"
HSK63A-C1.1/4-110G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.331"	2.559"	2.677"
HSK63A-C1.1/4-130G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	5.118"	2.756"	2.677"

Note: High-speed wrench, coolant tube and coolant tube wrench not included. Please see page 159 for more details.





Accessories:

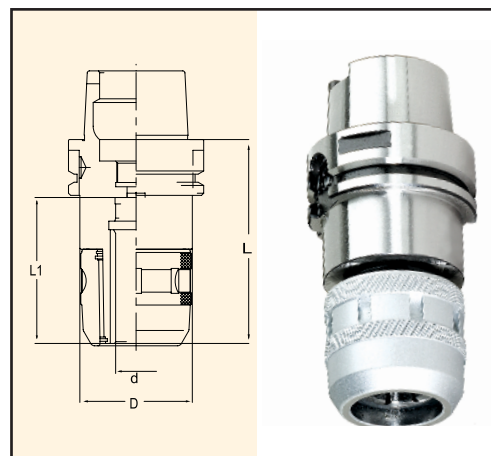


HSK Milling Chucks



HSK100A

Part Number	Collet Size 	Clamping Range	Spanner Wrench 	d	L	L1	D
HSK100A-C3/4-115	KM3/4	0.125-0.750"	9HC22	0.750"	4.528"	3.150"	2.047"
HSK100A-C3/4-135	KM3/4	0.125-0.750"	9HC22	0.750"	5.315"	3.150"	2.047"
HSK100A-C1-115	KM1	0.125-1.000"	9HC25	1.000"	4.528"	3.150"	2.362"
HSK100A-C1-135	KM1	0.125-1.000"	9HC25	1.000"	5.315"	3.150"	2.362"
HSK100A-C1.1/4-115	KM1-1/4	0.187-1.250"	9HC32	1.250"	4.528"	3.268"	2.717"
HSK100A-C1.1/4-165	KM1-1/4	0.187-1.250"	9HC32	1.250"	6.496"	3.189"	2.717"
HSK100A-C32-135	KM32	3mm - 32mm	9HC32	32mm	5.315"	4.055"	2.717"
HSK100A-C2-125	KM2	1.000-2.000"	9HC50	2.000"	4.921"	3.543"	4.134"

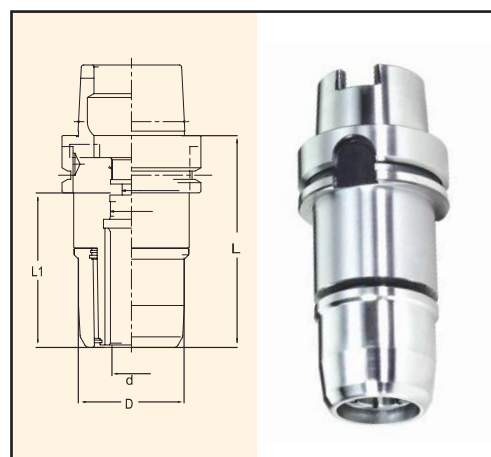
Note: Spanner wrench, coolant tube and coolant tube wrench not included. Please see page 159 for more details





HSK100A High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
HSK100A-C3/4-115G	KM3/4	0.125 - 0.750"	GH20	0.750"	4.528"	2.244"	1.890"
HSK100A-C3/4-135G	KM3/4	0.125 - 0.750"	GH20	0.750"	5.315"	2.244"	1.890"
HSK100A-C1-115G	KM1	0.125 - 1.000"	GH25	1.000"	4.528"	2.362"	2.165"
HSK100A-C1-135G	KM1	0.125 - 1.000"	GH25	1.000"	5.315"	2.362"	2.165"
HSK100A-C1.1/4-115G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	4.528"	2.559"	2.677"
HSK100A-C1.1/4-165G	KM1.1/4	0.187 - 1.250"	GH32	1.250"	6.496"	2.756"	2.677"

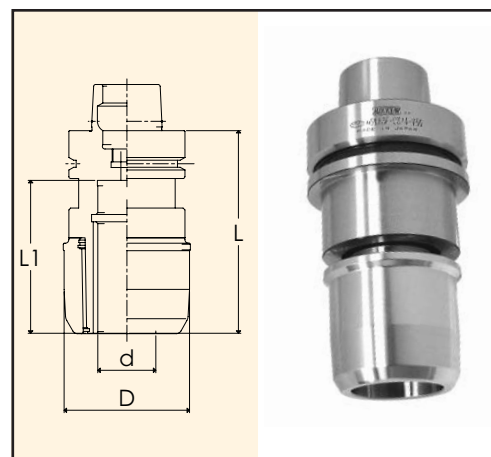
Note: High-speed wrench, coolant tube and coolant tube wrench not included. Please see page 159 for more details.



HSK63F High Speed

Part Number	Collet Size 	Clamping Range	Wrench 	d	L	L1	D
HSK63F-C3/4-95G	KM3/4	0.125-0.750"	GH22	0.750"	3.740"	2.677"	1.890"
HSK63F-C1-100G	KM1	0.125-1.000"	GH25	1.000"	3.937"	2.952"	2.165"
HSK63F-C1.1/4-110G	KM1.1/4	0.187-1.250"	GH32	1.250"	4.331"	3.267"	2.677"

Note: High-speed wrench, coolant tube and coolant tube wrench not included. Please see page 159 for more details.



Accessories:



KM and NK Collets
Page 155-156



Spanner Wrench
Page 159



Back-Up Screw
Page 159



Coolant-thru and slotted Nuts
Page 157-158

NMTB Milling Chucks

- 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



TIR: 0.0002" at 4xD



Speed: up to 20,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆





Milling
★★★★★





Reaming
★★★★☆

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

NMTB40

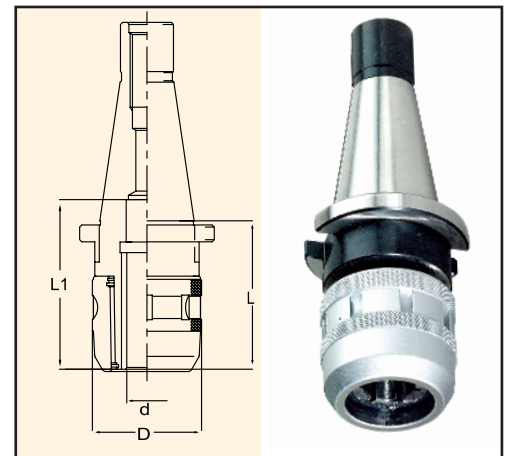
Part Number	Collet Size 	Clamping Range	Spanner Wrench 	d	L	L1	D
NMTB40-C3/4-70	KM3/4	0.125-0.750"	9HC22	0.750"	2.756"	3.150"	2.047"
NMTB40-C1.1/4-105	KM1-1/4	0.187-1.250"	9HC25	1.250"	4.134"	3.150"	2.717"

NMTB50

Part Number	Collet Size 	Clamping Range	Spanner Wrench 	d	L	L1	D
NMTB50-C3/4-65	KM3/4	0.125-0.750"	9HC22	0.750"	2.559"	3.150"	2.047"
NMTB50-C1.1/4-90	KM1-1/4	0.187-1.250"	9HC25	1.250"	3.543"	4.134"	2.717"
NMTB50-C2-105	KM2	1.000-2.000"	9HC50	2.000"	4.134"	3.543"	4.134"

Note: Spanner wrench not included

All NMTB shanks are suitable for use with Erickson QC spindles.



Accessories:



KM and NK Collets
Page 155-156



Spanner Wrench
Page 159



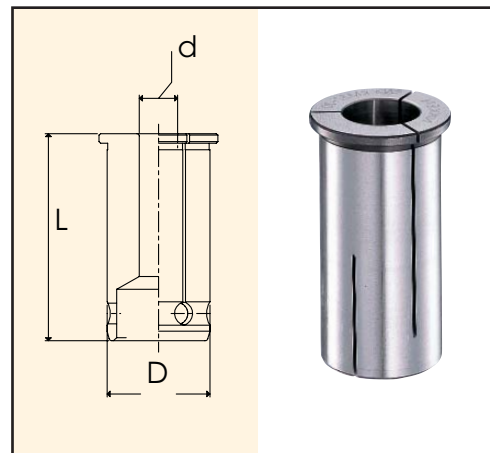
Back-Up Screw
Page 159



Coolant-thru and slotted Nuts
Page 157-158

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	Collet Range
KM3/4	2.08" (53mm)	0.98" (25mm)	1/8" - 5/8"
KM1	2.32" (59mm)	1.14" (29mm)	1/8" - 7/8"
KM1.1/4	2.53" (64.5mm)	1.45" (37mm)	3/16" - 1"
KM2	3.26" (83mm)	2.28" (58mm)	1" - 1.1/2"
KM32mm	2.53" (64.5mm)	1.45" (37mm)	3/16" - 1"

KM collets do not collapse.

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	-	-
1"	5/8"	KM3/4-5/8	-	-
	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
	5/8"	KM1-5/8	20mm	KM1-20
	3/4"	KM1-3/4	-	-
1.1/4"	7/8"	KM1-7/8	-	-
	3/16"	KM1.1/4-3/16	6mm	KM1.1/4-6
	1/4"	KM1.1/4-1/4	8mm	KM1.1/4-8
	5/16"	KM1.1/4-5/16	10mm	KM1.1/4-10
	3/8"	KM1.1/4-3/8	12mm	KM1.1/4-12
	7/16"	KM1.1/4-7/16	14mm	KM1.1/4-14
	1/2"	KM1.1/4-1/2	16mm	KM1.1/4-16
	9/16"	KM1.1/4-9/16	20mm	KM1.1/4-20
	5/8"	KM1.1/4-5/8	25mm	KM1.1/4-25
	3/4"	KM1.1/4-3/4	-	-
	7/8"	KM1.1/4-7/8	-	-
	1"	KM1.1/4-1	-	-

Collet Series	INCH		METRIC	
	Size	Part Number	Size	Part Number
32mm	3/16"	KM32-3/16	6mm	KM32-6
	1/4"	KM32-1/4	8mm	KM32-8
	5/16"	KM32-5/16	10mm	KM32-10
	3/8"	KM32-3/8	12mm	KM32-12
	7/16"	KM32-7/16	14mm	KM32-14
	1/2"	KM32-1/2	16mm	KM32-16
	9/16"	KM32-9/16	20mm	KM32-20
	5/8"	KM32-5/8	25mm	KM32-25
	3/4"	KM32-3/4	26mm	KM32-26
	7/8"	KM32-7/8	-	-
2"	1"	KM2-1	-	-
	1-1/4"	KM2-1-1/4	-	-
	1-1/2"	KM2-1-1/2	-	-

KM Collet Set

Part Number	Description
KM3/4-09S	9 piece set 1/8" - 5/8"
KM3/4-07S	7 piece set 6mm -16mm
KM1-10S	10 piece set 1/8" - 7/8"
KM1-08S	8 piece set 6mm - 20mm
KM1.1/4-11S	11 piece set 3/16" - 1"
KM1.1/4-08S	8 piece set 6mm - 25mm
KM32-11S	11 piece set 3/16" - 1"
KM32-09S	9 piece set 6mm - 26mm

Accessories:



KM and NK Collets
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Spanner Wrench
Page 159



Back-Up Screw
Page 159

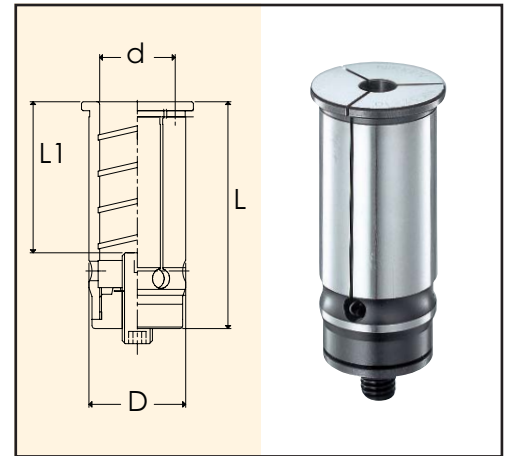


Coolant-thru and Slotted Nuts
Page 157-158

NK Collets - Depth Adjustable

Collet Series	D	L	L1	Collet Range
NK3/4	0.98" (25mm)	2.4" (63mm)	50mm max. depth	1/8" - 5/8"
NK1	1.14" (29mm)	2.67" (68mm)	55mm max. depth	1/8" - 7/8"
NK1.1/4	1.45" (37mm)	2.96" (75.3mm)	61mm max. depth	3/16" - 1"
NK2	2.28" (58mm)	3.67" (93.3mm)	79mm max. depth	1" - 1.1/2"
NK32mm	1.45" (37mm)	2.96" (75.3mm)	61mm max. depth	3/16" - 1"

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	-	-
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	10mm	NK1.1/4-10
	3/8"	NK1.1/4-3/8	12mm	NK1.1/4-12
	7/16"	NK1.1/4-7/16	14mm	NK1.1/4-14
	1/2"	NK1.1/4-1/2	16mm	NK1.1/4-16
	9/16"	NK1.1/4-9/16	20mm	NK1.1/4-20
	5/8"	NK1.1/4-5/8	25mm	NK1.1/4-25
	3/4"	NK1.1/4-3/4	-	-
	7/8"	NK1.1/4-7/8	-	-
1"	NK1.1/4-1	-	-	

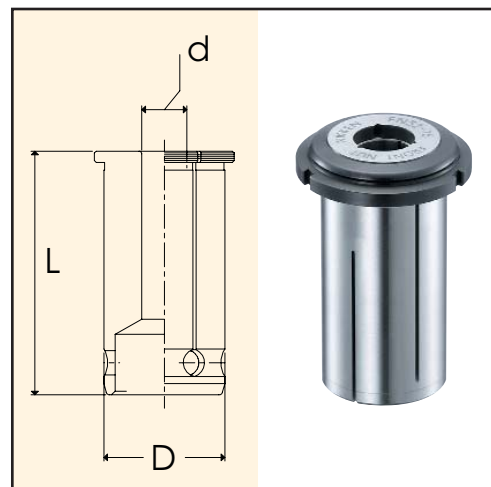
Collet Series	INCH		METRIC	
	Size	Part Number	Size	Part Number
32mm	3/16"	NK32-3/16	6mm	NK32-6
	1/4"	NK32-1/4	8mm	NK32-8
	5/16"	NK32-5/16	10mm	NK32-10
	3/8"	NK32-3/8	12mm	NK32-12
	7/16"	NK32-7/16	14mm	NK32-14
	1/2"	NK32-1/2	16mm	NK32-16
	9/16"	NK32-9/16	20mm	NK32-20
	5/8"	NK32-5/8	25mm	NK32-25
	3/4"	NK32-3/4	26mm	NK32-26
	7/8"	NK32-7/8	-	-
2"	1"	NK32-1	-	-
	1-1/4"	NK2-1-1/4	-	-
	1-1/2"	NK2-1-1/2	-	-

Accessories:



CCK Coolant Collet System

Collet Series	L	D	Collet Range
3/4"	2.08" (53mm)	0.98" (25mm)	1/8" - 5/8"
1"	2.32" (59mm)	1.14" (29mm)	1/8" - 7/8"
1.1/4"	2.53" (64.5mm)	1.45" (37mm)	3/16" - 1"
2"	3.26" (83mm)	2.28" (58mm)	1" - 1.1/2"
32mm	2.53" (64.5mm)	1.45" (37mm)	3/16" - 1"



Collet series	Size	Coolant Collet	Coolant-Thru Nut	Slotted Nut	Disc Wrench
3/4"	1/8"	CCK3/4-1/8	CKFN3/4-1/8C	CKFN3/4-1/8	CCKL20
	3/16"	CCK3/4-3/16	CKFN3/4-3/16C	CKFN3/4-3/16	
	1/4"	CCK3/4-1/4	CKFN3/4-1/4C	CKFN3/4-1/4	
	5/16"	CCK3/4-5/16	CKFN3/4-5/16C	CKFN3/4-5/16	
	3/8"	CCK3/4-3/8	CKFN3/4-3/8C	CKFN3/4-3/8	
	7/16"	CCK3/4-7/16	CKFN3/4-7/16C	CKFN3/4-7/16	
	1/2"	CCK3/4-1/2	CKFN3/4-1/2C	CKFN3/4-1/2	
	9/16"	CCK3/4-9/16	CKFN3/4-9/16C	CKFN3/4-9/16	
	5/8"	CCK3/4-5/8	CKFN3/4-5/8C	CKFN3/4-5/8	
	6mm	CCK3/4-6	CKFN3/4-6C	CKFN3/4-6	
	7mm	CCK3/4-7	CKFN3/4-7C	CKFN3/4-7	
	8mm	CCK3/4-8	CKFN3/4-8C	CKFN3/4-8	
	10mm	CCK3/4-10	CKFN3/4-10C	CKFN3/4-10	
	12mm	CCK3/4-12	CKFN3/4-12C	CKFN3/4-12	
	14mm	CCK3/4-14	CKFN3/4-14C	CKFN3/4-14	
	16mm	CCK3/4-16	CKFN3/4-16C	CKFN3/4-16	
1"	1/8"	CCK1-1/8	CKFN1-1/8C	CKFN1-1/8	CCKL25
	3/16"	CCK1-3/16	CKFN1-3/16C	CKFN1-3/16	
	1/4"	CCK1-1/4	CKFN1-1/4C	CKFN1-1/4	
	5/16"	CCK1-5/16	CKFN1-5/16C	CKFN1-5/16	
	3/8"	CCK1-3/8	CKFN1-3/8C	CKFN1-3/8	
	7/16"	CCK1-7/16	CKFN1-7/16C	CKFN1-7/16	
	1/2"	CCK1-1/2	CKFN1-1/2C	CKFN1-1/2	
	5/8"	CCK1-5/8	CKFN1-5/8C	CKFN1-5/8	
	3/4"	CCK1-3/4	CKFN1-3/4C	CKFN1-3/4	
	7/8"	CCK1-7/8	CKFN1-7/8C	CKFN1-7/8	
	6mm	CCK1-6	CKFN1-6C	CKFN1-6	
	8mm	CCK1-8	CKFN1-8C	CKFN1-8	
10mm	CCK1-10	CKFN1-10C	CKFN1-10		

CCK Coolant Collet System (cont.)

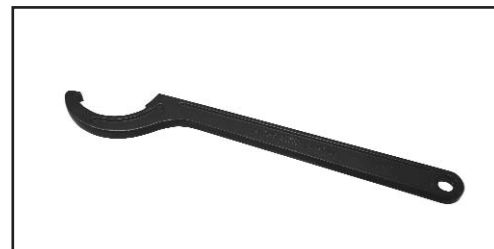


Collet series	Size	Coolant Collet	Coolant-Thru Nut	Slotted Nut	Disc Wrench
1"	12mm	CCK1-12	CKFN1-12C	CKFN1-12	CCKL25
	14mm	CCK1-14	CKFN1-14C	CKFN1-14	
	16mm	CCK1-16	CKFN1-16C	CKFN1-16	
	18mm	CCK1-18	CKFN1-18C	CKFN1-18	
	20mm	CCK1-20	CKFN1-20C	CKFN1-20	
1.1/4"	3/16"	CCK1.1/4-3/16	CKFN1.1/4-3/16C	CKFN1.1/4-3/16	CCKL32
	1/4"	CCK1.1/4-1/4	CKFN1.1/4-1/4C	CKFN1.1/4-1/4	
	5/16"	CCK1.1/4-5/16	CKFN1.1/4-5/16C	CKFN1.1/4-5/16	
	3/8"	CCK1.1/4-3/8	CKFN1.1/4-3/8C	CKFN1.1/4-3/8	
	7/16"	CCK1.1/4-7/16	CKFN1.1/4-7/16C	CKFN1.1/4-7/16	
	1/2"	CCK1.1/4-1/2	CKFN1.1/4-1/2C	CKFN1.1/4-1/2	
	9/16"	CCK1.1/4-9/16	CKFN1.1/4-9/16C	CKFN1.1/4-9/16	
	5/8"	CCK1.1/4-5/8	CKFN1.1/4-5/8C	CKFN1.1/4-5/8	
	3/4"	CCK1.1/4-3/4	CKFN1.1/4-3/4C	CKFN1.1/4-3/4	
	7/8"	CCK1.1/4-7/8	CKFN1.1/4-7/8C	CKFN1.1/4-7/8	
	1"	CCK1.1/4-1	CKFN1.1/4-1C	CKFN1.1/4-1	
	6mm	CCK1.1/4-6	CKFN1.1/4-6C	CKFN1.1/4-6	
	8mm	CCK1.1/4-8	CKFN1.1/4-8C	CKFN1.1/4-8	
	10mm	CCK1.1/4-10	CKFN1.1/4-10C	CKFN1.1/4-10	
	12mm	CCK1.1/4-12	CKFN1.1/4-12C	CKFN1.1/4-12	
	14mm	CCK1.1/4-14	CKFN1.1/4-14C	CKFN1.1/4-14	
	16mm	CCK1.1/4-16	CKFN1.1/4-16C	CKFN1.1/4-16	
	20mm	CCK1.1/4-20	CKFN1.1/4-20C	CKFN1.1/4-20	
	25mm	CCK1.1/4-25	CKFN1.1/4-25C	CKFN1.1/4-25	
	2"	1"	CCK2-1	CKFN2-1C	
1-1/4"		CCK2-1.1/4	CKFN2-1.1/4C	CKFN2-1.1/4	
1-1/2"		CCK2-1.1/2	CKFN2-1.1/2C	CKFN2-1.1/2	
32mm	3/16"	CCK32-3/16	CKFN32-3/16C	CKFN32-3/16	CCKL32
	1/4"	CCK32-1/4	CKFN32-1/4C	CKFN32-1/4	
	5/16"	CCK32-5/16	CKFN32-5/16C	CKFN32-5/16	
	3/8"	CCK32-3/8	CKFN32-3/8C	CKFN32-3/8	
	7/16"	CCK32-7/16	CKFN32-7/16C	CKFN32-7/16	
	1/2"	CCK32-1/2	CKFN32-1/2C	CKFN32-1/2	
	9/16"	CCK32-9/16	CKFN32-9/16C	CKFN32-9/16	
	5/8"	CCK32-5/8	CKFN32-5/8C	CKFN32-5/8	
	3/4"	CCK32-3/4	CKFN32-3/4C	CKFN32-3/4	
	7/8"	CCK32-7/8	CKFN32-7/8C	CKFN32-7/8	
	1"	CCK32-1	CKFN32-1C	CKFN32-1	
	6mm	CCK32-6	CKFN32-6C	CKFN32-6	
	8mm	CCK32-8	CKFN32-8C	CKFN32-8	
	10mm	CCK32-10	CKFN32-10C	CKFN32-10	
	12mm	CCK32-12	CKFN32-12C	CKFN32-12	
	14mm	CCK32-14	CKFN32-14C	CKFN32-14	
	16mm	CCK32-16	CKFN32-16C	CKFN32-16	
	20mm	CCK32-20	CKFN32-20C	CKFN32-20	
25mm	CCK32-25	CKFN32-25C	CKFN32-25		

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



Back-Up Screw

Standard style Part Number	Coolant-thru style Part Number	Use with
750TL-3	750TL-3(C)	3/4" milling chuck
1000TL-3	1000TL-3(C)	1" milling chuck
1250TL-2	1250TL-2(C)	1.1/4" milling chuck with ID depth of 77mm or less
1250TL-3	1250TL-3(C)	1.1/4" milling chuck with ID depth of 105mm or more



Coolant Tube for HSK Holders

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



Direct Chucking Nut

For more information on direct chucking accessories for 32mm milling chucks, please call us at: (800) 543-6237.



4th and 5th Axis Rotary Tables

Maximize Your Machine Capabilities

Nikken's complete line of CNC Rotary Table is recognized worldwide for wear-resistance, rigidity and high-speed rotation. Every part of every table is designed and built to provide high accuracy, increased production and a trouble-free long life.

At the heart of the Nikken CNC Rotary Table is a Carbide Worm System that dramatically reduces frictions between the gears. After years and years of use, this system has proven to offer unparalleled durability and accuracy, when other manufacturers' tables cannot offer long-term wear resistance.

With our unique technological advantages and engineering expertise, we are confident that our rotary tables will keep you far ahead of the global competition.

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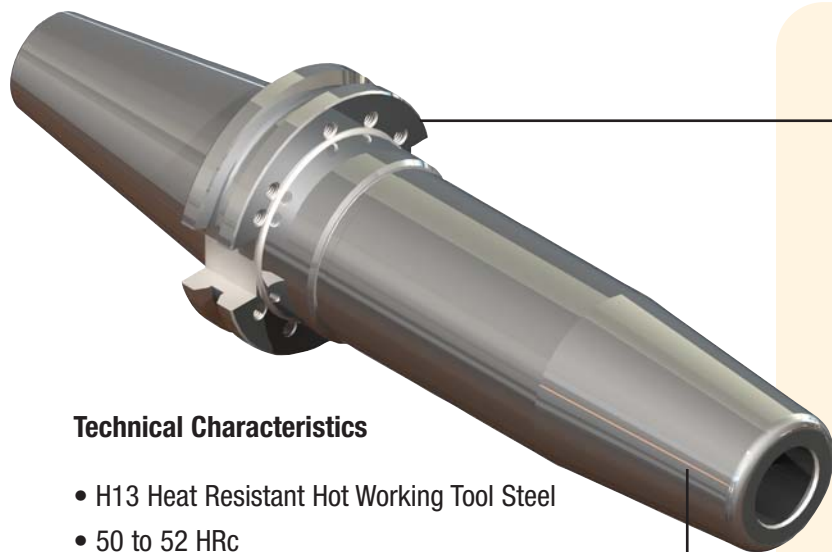
Featured Video

Shrink Fit Holder Features

The Industry's Highest Quality Shrink Fit Line

Our new Shrink Fit holders offer optimal balance and maximum grip characteristics. All our Shrink Fit Holders are made in Japan with the highest quality tool steel ensuring longevity for many heating and shrinking cycles. Symmetrical by design, balanced according to our patented balancing method, our Shrink Fit holders have become ubiquitous for all high precision shrink fit applications. Standard holders do not include balanceable set screw holes

Our complete line of Shrink Fit holders includes CAT40, CAT50, HSK32E, HSK63A, HSK80F, BT30, 40 and 50, available in different lengths, both inch and metric sizes.

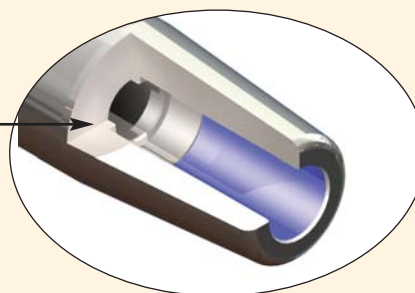


Technical Characteristics

- H13 Heat Resistant Hot Working Tool Steel
- 50 to 52 HRC
- Works excellent on both HSS and Solid Carbide tools
- Pre-balanced and balanceable up to 40,000 RPM

Optional Balancing Screws

- Large tapped balancing set screw PCD gives more set screw location to counterbalance non symmetrical or unbalanced cutters.
- Tapped balancing set screw holes are parallel to the centerline of the holder, ensuring that the set screws will never be ejected from vibration and centrifugal force during high RPM milling applications.



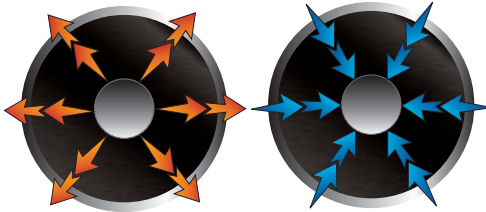
Bore Grind

- Bore grind is 10% longer than other manufacturers shrink fit holders, providing more surface area of contact. This results in stronger gripping strength and better TIR.

Taper Type	G-Grade RPM	Taper Type	G-Grade RPM
CAT40	G2.5	HSK32E	G6.3
	24,000RPM		42,000RPM
CAT50	G2.5	HSK40E	G6.3
	15,000RPM		42,000RPM
BT30	G2.5	HSK63A	G2.5
	24,000RPM		24,000RPM
BT40	G2.5	HSK100A	G2.5
	24,000RPM		15,000RPM
BT50	G2.5	HSK63F	G2.5
	15,000RPM		33,000RPM
		HSK80F	G2.5
			33,000RPM

Shrink Fit Holder Features

Long Term Reliability



Our shrink Fit System gives consistent and highly repeatable results. This repeatability allows for extreme accuracy, rigidity and balance. Our uniform and superior gripping on the tool shank provides the best torque and force capability compared to other manufacturers.



Coolant Options

Our toolholders offer different coolant-thru options which provide coolant directly to the cutting edge. This will extend cutting tool life and increase hole accuracy. Lateral coolant ports can be added to the bore to direct coolant down the flutes of the cutting tool and onto the cutting edge.

Straight Shank Shrink Fit Holder



Patented Balancing Method (Optional)

Lyndex-Nikken HSBalance toolholders employ a series of tapped holes surrounding the holder's centerline. Small set screws and weights are used to achieve balance. The holes are drilled parallel (not perpendicular) to the holder's centerline so the inserted set screws are not depth sensitive. A deeper setting will not affect the weight distribution.



Parallel holes offer an additional advantage: set screws cannot become unscrewed and back out during high-speed operations, so they need not be affixed semi-permanently.



CAT40 Shrink Fit Holders

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced and optionally balanceable for up to 40,000RPM
- Featuring the latest Japanese shrink fit technology
- Increase cutting tool life, removal rate and workpiece accuracy

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



TIR: 0.0002 or better



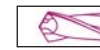
Speed: up to 40,000 rpm



Set-up: quick and easy to operate



Coolant-thru: jet slots (optional)



Drilling
★☆☆☆☆



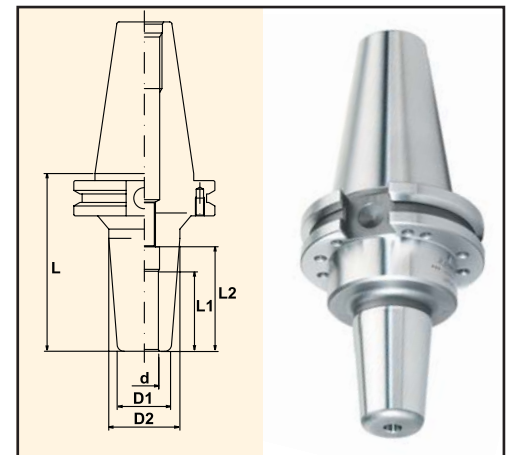
Milling
★★★★★



Reaming
★☆☆☆☆

Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
C40SF-0125-3.15	1/8"	3.15"	0.35"	-	0.39"	0.63"	-
C40SF-0125-6.30	1/8"	6.30"	0.35"	-	0.39"	0.75"	-
C40SF-0187-3.15	3/16"	3.15"	0.47"	-	0.39"	0.63"	-
C40SF-0187-6.30	3/16"	6.30"	0.47"	-	0.39"	0.75"	-
C40SF-0250-3.15	1/4"	3.15"	0.87"	1.42"	0.83"	1.06"	M5
C40SF-0250-5.12	1/4"	5.12"	0.87"	1.42"	0.83"	1.06"	M5
C40SF-0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
C40SF-0375-3.15	3/8"	3.15"	1.22"	1.65"	0.94"	1.26"	M8
C40SF-0375-5.12	3/8"	5.12"	1.22"	1.65"	0.94"	1.26"	M8
C40SF-0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
C40SF-0500-3.15	1/2"	3.15"	1.42"	1.85"	0.94"	1.26"	M10
C40SF-0500-5.12	1/2"	5.12"	1.42"	1.85"	0.94"	1.26"	M10
C40SF-0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
C40SF-0625-3.15	5/8"	3.15"	1.54"	1.97"	1.06"	1.34"	M12
C40SF-0625-5.12	5/8"	5.12"	1.54"	1.97"	1.06"	1.34"	M12
C40SF-0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
C40SF-0750-3.15	3/4"	3.15"	1.61"	2.05"	1.30"	1.65"	M16
C40SF-0750-5.12	3/4"	5.12"	1.61"	2.05"	1.30"	1.65"	M16
C40SF-0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.65"	M16
C40SF-1000-3.94	1"	3.94"	1.85"	2.28"	1.73"	2.09"	M16
C40SF-1000-5.12	1"	5.12"	1.85"	2.28"	1.73"	2.09"	M16
C40SF-1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16
C40SF-1250-3.94	1.1/4"	3.94"	2.01"	2.44"	1.73"	2.09"	M16
C40SF-1250-5.12	1.1/4"	5.12"	2.01"	2.44"	1.73"	2.09"	M16
C40SF-1250-6.30	1.1/4"	6.30"	2.01"	2.44"	1.73"	2.09"	M16



Shown with optional balanceable set screw.
All nose angles are 4.5°.

Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
C40SF-3-80	3mm	80mm	9mm	-	10mm	16mm	-
C40SF-3-160	3mm	160mm	9mm	-	10mm	19mm	-
C40SF-6-80	6mm	80mm	22mm	36mm	21mm	27mm	M5
C40SF-6-160	6mm	160mm	22mm	36mm	21mm	27mm	M5
C40SF-8-80	8mm	80mm	26mm	36mm	21mm	27mm	M6
C40SF-8-160	8mm	160mm	26mm	36mm	21mm	27mm	M6
C40SF-10-80	10mm	80mm	31mm	42mm	24mm	32mm	M8
C40SF-10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
C40SF-12-80	12mm	80mm	36mm	47mm	24mm	32mm	M10
C40SF-12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
C40SF-16-80	16mm	80mm	39mm	50mm	27mm	34mm	M12
C40SF-16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
C40SF-20-80	20mm	80mm	41mm	52mm	33mm	42mm	M16
C40SF-20-160	20mm	160mm	41mm	52mm	33mm	42mm	M16
C40SF-25-100	25mm	100mm	47mm	58mm	44mm	52mm	M16
C40SF-25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
C40SF-32-100	32mm	100mm	51mm	62mm	44mm	52mm	M16
C40SF-32-160	32mm	160mm	51mm	62mm	44mm	53mm	M16

Note: Balancing screw for CT40 is M4. CAT40 Shrink Fit Holders are balanced to G2.5 at 24,000RPM. Standard holders do not include balanceable set screw holes. Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

Accessories:

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100



**Shrink Fit Unit
and Accessories**
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CAT50 Shrink Fit Holders

Inch

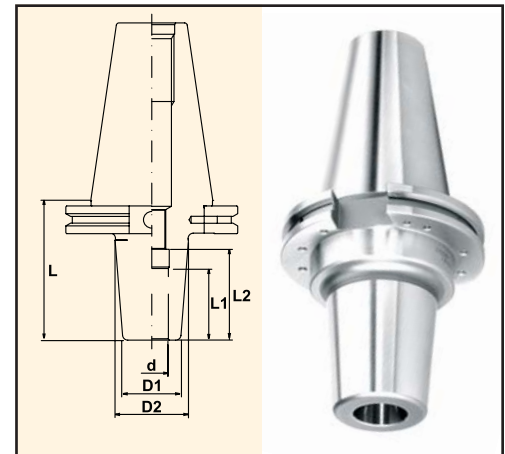
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
C50SF-0125-3.15	1/8"	3.15"	0.35"	-	0.39"	0.77"	-
C50SF-0125-6.30	1/8"	6.30"	0.35"	-	0.39"	1.17"	-
C50SF-0250-3.15	1/4"	3.15"	0.87"	1.42"	0.83"	1.06"	M5
C50SF-0250-5.12	1/4"	5.12"	0.87"	1.42"	0.83"	1.06"	M5
C50SF-0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
C50SF-0375-3.15	3/8"	3.15"	1.22"	1.65"	0.94"	1.26"	M8
C50SF-0375-5.12	3/8"	5.12"	1.22"	1.65"	0.94"	1.26"	M8
C50SF-0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
C50SF-0500-3.15	1/2"	3.15"	1.42"	1.85"	0.94"	1.26"	M10
C50SF-0500-5.12	1/2"	5.12"	1.42"	1.85"	0.94"	1.26"	M10
C50SF-0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
C50SF-0625-3.15	5/8"	3.15"	1.54"	1.97"	1.06"	1.34"	M12
C50SF-0625-5.12	5/8"	5.12"	1.54"	1.97"	1.06"	1.34"	M12
C50SF-0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
C50SF-0750-3.15	3/4"	3.15"	1.61"	2.05"	1.30"	1.65"	M16
C50SF-0750-5.12	3/4"	5.12"	1.61"	2.05"	1.30"	1.65"	M16
C50SF-0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.65"	M16
C50SF-1000-3.94	1"	3.94"	1.85"	2.28"	1.73"	2.09"	M16
C50SF-1000-5.12	1"	5.12"	1.85"	2.28"	1.73"	2.09"	M16
C50SF-1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16
C50SF-1250-3.94	1.1/4"	3.94"	2.01"	2.44"	1.73"	2.09"	M16
C50SF-1250-5.12	1.1/4"	5.12"	2.01"	2.44"	1.73"	2.09"	M16
C50SF-1250-6.30	1.1/4"	6.30"	2.01"	2.44"	1.73"	2.09"	M16

Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
C50SF-3-80	3mm	80mm	9mm	-	10mm	20mm	-
C50SF-3-160	3mm	160mm	9mm	-	10mm	30mm	-
C50SF-6-80	6mm	80mm	22mm	36mm	21mm	27mm	M5
C50SF-8-80	8mm	80mm	26mm	36mm	21mm	27mm	M6
C50SF-8-160	8mm	160mm	26mm	36mm	21mm	38mm	M6
C50SF-10-80	10mm	80mm	31mm	42mm	24mm	32mm	M8
C50SF-10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
C50SF-12-80	12mm	80mm	36mm	47mm	24mm	32mm	M10
C50SF-12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
C50SF-16-80	16mm	80mm	39mm	50mm	27mm	34mm	M12
C50SF-16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
C50SF-20-80	20mm	80mm	41mm	52mm	33mm	42mm	M16
C50SF-20-160	20mm	160mm	41mm	52mm	33mm	42mm	M16
C50SF-25-100	25mm	100mm	47mm	58mm	44mm	53mm	M16
C50SF-25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
C50SF-32-100	32mm	100mm	51mm	62mm	44mm	53mm	M16
C50SF-32-160	32mm	160mm	51mm	62mm	44mm	53mm	M16

Note: CAT50 Shrink Fit Holders are balanced to G2.5 at 15,000RPM. Standard holders do not include balanceable set screw holes. Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

Accessories:



Shown with optional balanceable set screw. All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100



BT30/40 Shrink Fit Holders

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced and optionally balanceable for up to 40,000RPM
- Featuring the latest Japanese shrink fit technology
- Increase cutting tool life, removal rate and workpiece accuracy

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



TIR: 0.0002 or better



Speed: up to 40,000 rpm



Set-up: quick and easy to operate



Coolant-thru: jet slots (optional)



Drilling
★☆☆☆☆



Milling
★☆☆☆☆



Reaming
★☆☆☆☆

BT30 - Inch

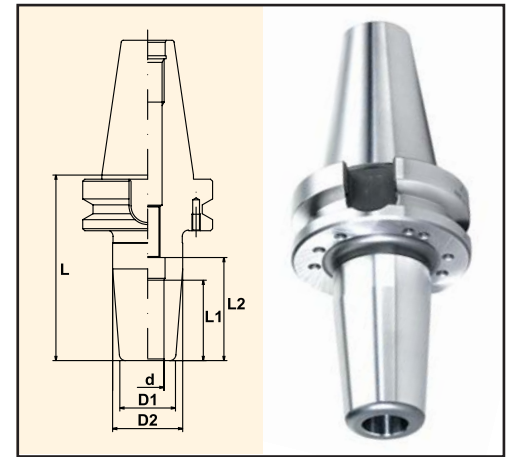
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
B30SF-0125-3.15	1/8"	3.15"	0.35"	-	0.39"	0.71"	-
B30SF-0250-3.15	1/4"	3.15"	0.87"	1.42"	0.83"	1.06"	M5
B30SF-0375-3.15	3/8"	3.15"	1.22"	1.65"	0.94"	1.22"	M8
B30SF-0500-3.15	1/2"	3.15"	1.42"	1.85"	0.94"	1.22"	M10
B30SF-0625-3.15	5/8"	3.15"	1.54"	1.97"	1.06"	1.34"	M12
B30SF-0750-3.15	3/4"	3.15"	1.61"	2.05"	1.30"	1.54"	M16

Note: Balancing screw for BT30 is M3.

BT30 Shrink Fit Holders are balanced to G2.5 at 24,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).



Shown with optional balanceable set screw.
All nose angles are 4.5°.

BT40 - Inch

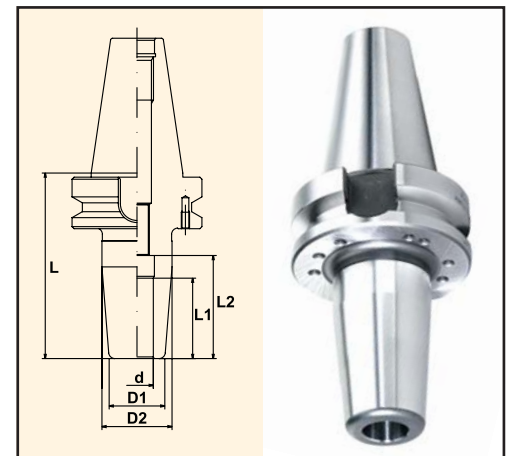
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
B40SF-0125-3.54	1/8"	3.54"	0.35"	-	0.39"	0.71"	-
B40SF-0125-6.30	1/8"	6.30"	0.35"	-	0.39"	0.71"	-
B40SF-0250-3.54	1/4"	3.54"	0.87"	1.42"	0.83"	1.06"	M5
B40SF-0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
B40SF-0375-3.54	3/8"	3.54"	1.22"	1.65"	0.94"	1.26"	M8
B40SF-0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
B40SF-0500-3.54	1/2"	3.54"	1.42"	1.85"	0.94"	1.26"	M10
B40SF-0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
B40SF-0625-3.54	5/8"	3.54"	1.54"	1.97"	1.06"	1.34"	M12
B40SF-0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
B40SF-0750-3.54	3/4"	3.54"	1.61"	2.05"	1.30"	1.61"	M16
B40SF-0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.61"	M16
B40SF-1000-3.94	1"	3.94"	1.85"	2.28"	1.73"	2.05"	M16
B40SF-1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16
B40SF-1250-3.94	1.1/4"	3.94"	2.01"	2.44"	1.73"	2.05"	M16
B40SF-1250-6.30	1.1/4"	6.30"	2.01"	2.44"	1.73"	2.09"	M16

Note: Balancing screw for BT40 is M4.

BT40 Shrink Fit Holders are balanced to G2.5 at 24,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).



Shown with optional balanceable set screw.
All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

Accessories:



Shrink Fit Unit and Accessories
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BT40/50 Shrink Fit Holders

BT40 - Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
B40SF-6-90	6mm	90mm	22mm	36mm	21mm	27mm	M5
B40SF-6-160	6mm	160mm	22mm	36mm	21mm	27mm	M5
B40SF-8-90	8mm	90mm	26mm	36mm	21mm	27mm	M6
B40SF-8-160	8mm	160mm	26mm	36mm	21mm	27mm	M6
B40SF-10-90	10mm	90mm	31mm	42mm	24mm	32mm	M8
B40SF-10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
B40SF-12-90	12mm	90mm	36mm	47mm	24mm	32mm	M10
B40SF-12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
B40SF-16-90	16mm	90mm	39mm	50mm	27mm	34mm	M12
B40SF-16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
B40SF-20-90	20mm	90mm	41mm	52mm	33mm	41mm	M16
B40SF-20-160	20mm	160mm	41mm	52mm	33mm	41mm	M16
B40SF-25-100	25mm	100mm	47mm	58mm	44mm	52mm	M16
B40SF-25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
B40SF-32-100	32mm	100mm	51mm	62mm	44mm	52mm	M16
B40SF-32-160	32mm	160mm	51mm	62mm	44mm	53mm	M16

Note: Balancing screw for BT40 is M4.

BT40 Shrink Fit Holders are balanced to G2.5 at 24,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

BT50 - Inch

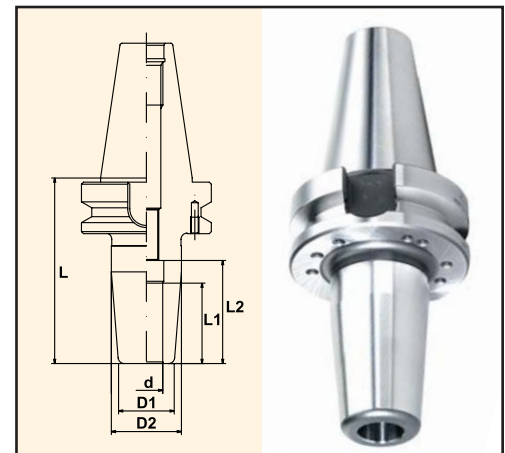
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
B50SF-0125-3.94	1/8"	3.94"	0.35"	-	0.39"	0.78"	-
B50SF-0125-6.30	1/8"	6.30"	0.35"	-	0.39"	1.15"	-
B50SF-0250-3.94	1/4"	3.94"	0.87"	1.42"	0.83"	1.06"	M5
B50SF-0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
B50SF-0375-3.94	3/8"	3.94"	1.22"	1.65"	0.94"	1.26"	M8
B50SF-0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
B50SF-0500-3.94	1/2"	3.94"	1.42"	1.85"	0.94"	1.26"	M10
B50SF-0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
B50SF-0625-3.94	5/8"	3.94"	1.54"	1.97"	1.06"	1.34"	M12
B50SF-0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
B50SF-0750-3.94	3/4"	3.94"	1.61"	2.05"	1.30"	1.61"	M16
B50SF-0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.65"	M16
B50SF-1000-3.94	1"	3.94"	1.85"	2.28"	1.73"	2.05"	M16
B50SF-1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16
B50SF-1250-3.94	1.1/4"	3.94"	2.01"	2.44"	1.73"	2.05"	M16
B50SF-1250-6.30	1.1/4"	6.30"	2.01"	2.44"	1.73"	2.09"	M16

Note: Balancing screw for BT50 is M4.

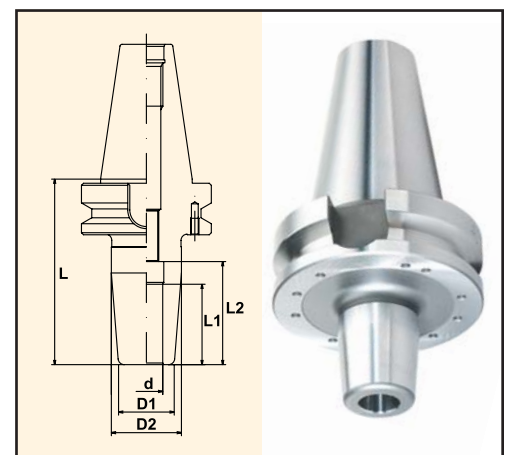
BT50 Shrink Fit Holders are balanced to G2.5 at 15,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).



Shown with optional balanceable set screw. All nose angles are 4.5°.



Shown with optional balanceable set screw. All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

Accessories:



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and Accessories
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BT50 Shrink Fit Holders

BT50 - Metric

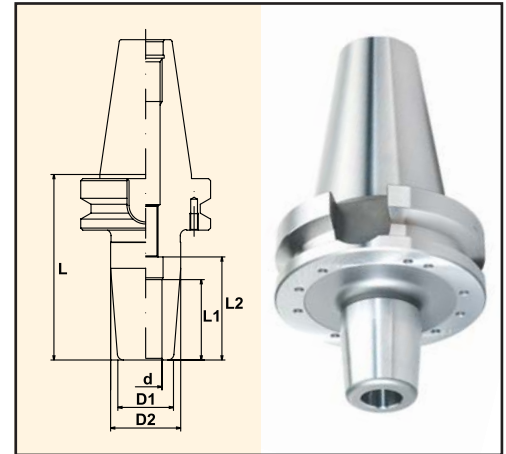
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
B50SF-3-100	3mm	100mm	9mm	-	10mm	20mm	-
B50SF-3-160	3mm	160mm	9mm	-	10mm	30mm	-
B50SF-6-100	6mm	100mm	22mm	36mm	21mm	27mm	M5
B50SF-6-160	6mm	160mm	22mm	36mm	21mm	27mm	M5
B50SF-8-100	8mm	100mm	26mm	36mm	21mm	27mm	M6
B50SF-8-160	8mm	160mm	26mm	36mm	21mm	27mm	M6
B50SF-10-100	10mm	100mm	31mm	42mm	24mm	32mm	M8
B50SF-10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
B50SF-12-100	12mm	100mm	36mm	47mm	24mm	32mm	M10
B50SF-12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
B50SF-16-100	16mm	100mm	39mm	50mm	27mm	34mm	M12
B50SF-16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
B50SF-20-100	20mm	100mm	41mm	52mm	33mm	41mm	M16
B50SF-20-160	20mm	160mm	41mm	52mm	33mm	42mm	M16
B50SF-25-100	25mm	100mm	47mm	58mm	44mm	52mm	M16
B50SF-25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
B50SF-32-100	32mm	100mm	51mm	62mm	44mm	52mm	M16
B50SF-32-160	32mm	160mm	51mm	62mm	44mm	53mm	M16

Note: Balancing screw for BT50 is M4.

BT50 Shrink Fit Holders are balanced to G2.5 at 15,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).



Shown with optional balanceable set screw.

All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

Accessories:



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HSK63A Shrink Fit Holders

- Excellent surface finish, extreme gripping and ideal for high-speed applications
- Pre-balanced and optionally balanceable for up to 40,000RPM
- Featuring the latest Japanese shrink fit technology
- Increase cutting tool life, removal rate and workpiece accuracy

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



TIR: 0.0002 or better



Speed: up to 40,000 rpm



Set-up: quick and easy to operate



Coolant-thru: jet slots (optional)



Drilling
★☆☆☆☆



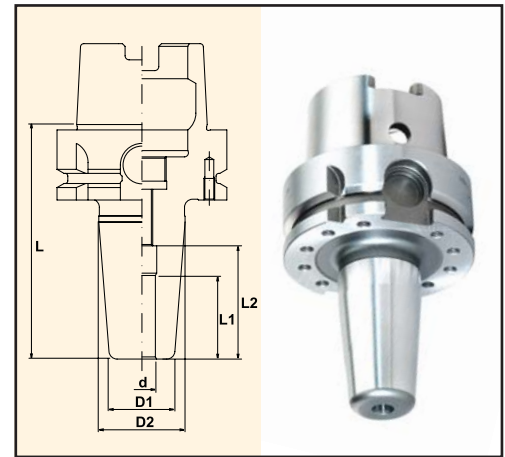
Milling
★★★★☆



Reaming
★☆☆☆☆

Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK63A-SF0125-3.15	1/8"	3.15"	0.35"	-	0.39"	0.63"	-
HSK63A-SF0125-6.30	1/8"	6.30"	0.35"	-	0.39"	0.75"	-
HSK63A-SF0250-3.15	1/4"	3.15"	0.87"	1.42"	0.83"	1.06"	M5
HSK63A-SF0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
HSK63A-SF0375-3.35	3/8"	3.35"	1.22"	1.65"	0.94"	1.26"	M8
HSK63A-SF0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
HSK63A-SF0500-3.54	1/2"	3.54"	1.42"	1.85"	0.94"	1.26"	M10
HSK63A-SF0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
HSK63A-SF0625-3.74	5/8"	3.74"	1.54"	1.97"	1.06"	1.34"	M12
HSK63A-SF0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
HSK63A-SF0750-3.94	3/4"	3.94"	1.61"	2.05"	1.30"	1.65"	M16
HSK63A-SF0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.65"	M16
HSK63A-SF1000-4.53	1"	4.53"	1.85"	2.28"	1.73"	2.09"	M16
HSK63A-SF1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16



Shown with optional balanceable set screw.
All nose angles are 4.5°.

Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK63A-SF3-80	3mm	80mm	9mm	-	10mm	16mm	-
HSK63A-SF3-160	3mm	160mm	9mm	-	10mm	19mm	-
HSK63A-SF6-80	6mm	80mm	22mm	36mm	21mm	27mm	M5
HSK63A-SF6-160	6mm	160mm	22mm	36mm	21mm	27mm	M5
HSK63A-SF8-80	8mm	80mm	26mm	36mm	21mm	27mm	M6
HSK63A-SF8-160	8mm	160mm	26mm	36mm	21mm	27mm	M6
HSK63A-SF10-85	10mm	85mm	31mm	42mm	24mm	32mm	M8
HSK63A-SF10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
HSK63A-SF12-90	12mm	90mm	36mm	47mm	24mm	32mm	M10
HSK63A-SF12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
HSK63A-SF16-95	16mm	95mm	39mm	50mm	27mm	34mm	M12
HSK63A-SF16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
HSK63A-SF20-100	20mm	100mm	41mm	52mm	33mm	42mm	M16
HSK63A-SF20-160	20mm	160mm	41mm	52mm	33mm	42mm	M16
HSK63A-SF25-115	25mm	115mm	47mm	58mm	44mm	53mm	M16
HSK63A-SF25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
HSK63A-SF32-120	32mm	120mm	51mm	62mm	44mm	53mm	M16

Note: Balancing screw for HSK63A is M4.

HSK63A Shrink Fit Holders are balanced to G2.5 at 24,000RPM.

Coolant tube and coolant tube wrench are sold separately. See details on page 159.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

Accessories:

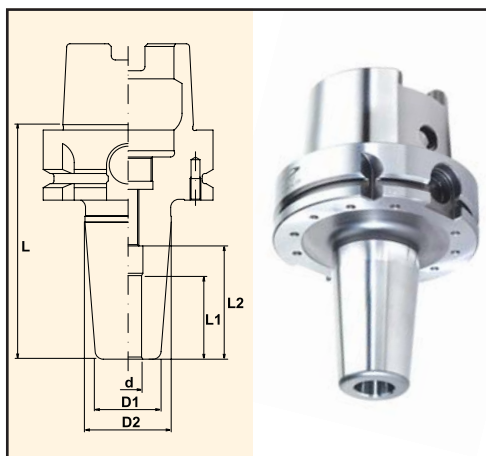


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HSK100A Shrink Fit Holders

Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK100A-SF0250-3.54	1/4"	3.54"	0.87"	1.42"	0.83"	1.14"	M5
HSK100A-SF0250-6.30	1/4"	6.30"	0.87"	1.42"	0.83"	1.06"	M5
SK100A-SF0375-3.54	3/8"	3.54"	1.22"	1.65"	0.94"	1.26"	M8
HSK100A-SF0375-6.30	3/8"	6.30"	1.22"	1.65"	0.94"	1.26"	M8
HSK100A-SF0500-3.74	1/2"	3.74"	1.42"	1.85"	0.94"	1.26"	M10
HSK100A-SF0500-6.30	1/2"	6.30"	1.42"	1.85"	0.94"	1.26"	M10
HSK100A-SF0625-3.94	5/8"	3.94"	1.54"	1.97"	1.06"	1.34"	M12
HSK100A-SF0625-6.30	5/8"	6.30"	1.54"	1.97"	1.06"	1.34"	M12
HSK100A-SF0750-4.13	3/4"	4.13"	1.61"	2.05"	1.30"	1.65"	M16
HSK100A-SF0750-6.30	3/4"	6.30"	1.61"	2.05"	1.30"	1.65"	M16
HSK100A-SF1000-4.53	1"	4.53"	1.85"	2.28"	1.73"	2.09"	M16
HSK100A-SF1000-6.30	1"	6.30"	1.85"	2.28"	1.73"	2.09"	M16
HSK100A-SF1250-4.72	1.1/4"	4.72"	2.01"	2.44"	1.73"	2.09"	M16
HSK100A-SF1250-6.30	1.1/4"	6.30"	2.01"	2.44"	1.73"	2.09"	M16



Shown with optional balanceable set screw.
All nose angles are 4.5°.

Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK100A-SF6-85	6mm	85mm	22mm	36mm	21mm	27mm	M5
HSK100A-SF6-160	6mm	160mm	22mm	36mm	21mm	27mm	M5
HSK100A-SF8-85	8mm	85mm	26mm	36mm	21mm	27mm	M6
HSK100A-SF8-160	8mm	160mm	26mm	36mm	21mm	27mm	M6
HSK100A-SF10-90	10mm	90mm	31mm	42mm	24mm	32mm	M8
HSK100A-SF10-160	10mm	160mm	31mm	42mm	24mm	32mm	M8
HSK100A-SF12-95	12mm	95mm	36mm	47mm	24mm	32mm	M10
HSK100A-SF12-160	12mm	160mm	36mm	47mm	24mm	32mm	M10
HSK100A-SF16-100	16mm	100mm	39mm	50mm	27mm	34mm	M12
HSK100A-SF16-160	16mm	160mm	39mm	50mm	27mm	34mm	M12
HSK100A-SF20-105	20mm	105mm	41mm	52mm	33mm	42mm	M16
HSK100A-SF20-160	20mm	160mm	41mm	52mm	33mm	42mm	M16
HSK100A-SF25-115	25mm	115mm	47mm	58mm	44mm	53mm	M16
HSK100A-SF25-160	25mm	160mm	47mm	58mm	44mm	53mm	M16
HSK100A-SF32-120	32mm	120mm	51mm	62mm	44mm	53mm	M16
HSK100A-SF32-160	32mm	160mm	51mm	62mm	44mm	53mm	M16

Note: Balancing screw for HSK100A is M4.

HSK63A Shrink Fit Holders are balanced to G2.5 at 15,000RPM.

Coolant tube and coolant tube wrench are sold separately. See details on page 159.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end SF-START2-COOL-FAN40

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

Accessories:



**Shrink Fit Unit
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HSK63F/80F Shrink Fit Holders

HSK63F - Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK63F-SF0125-3.00	1/8"	3.00"	0.35"	-	0.39"	0.67"	-
HSK63F-SF0125-6.00	1/8"	6.00"	0.35"	-	0.39"	0.75"	-
HSK63F-SF0250-3.00	1/4"	3.00"	0.87"	1.42"	0.83"	1.06"	M5
HSK63F-SF0250-6.00	1/4"	6.00"	0.87"	1.42"	0.83"	1.06"	M5
HSK63F-SF0375-3.00	3/8"	3.00"	1.22"	1.65"	0.94"	1.18"	-
HSK63F-SF0375-6.00	3/8"	6.00"	1.22"	1.65"	0.94"	1.26"	M8
HSK63F-SF0500-3.00	1/2"	3.00"	1.42"	1.85"	0.94"	1.18"	-
HSK63F-SF0500-6.00	1/2"	6.00"	1.42"	1.85"	0.94"	1.26"	M10
HSK63F-SF0625-3.00	5/8"	3.00"	1.54"	1.97"	1.06"	1.30"	-
HSK63F-SF0625-6.00	5/8"	6.00"	1.54"	1.97"	1.06"	1.34"	M12
HSK63F-SF0750-3.00	3/4"	3.00"	1.61"	2.05"	1.30"	1.61"	-
HSK63F-SF0750-6.00	3/4"	6.00"	1.61"	2.05"	1.30"	1.65"	-
HSK63F-SF1000-3.00	1"	3.00"	1.85"	2.28"	1.73"	2.01"	M16
HSK63F-SF1000-6.00	1"	6.00"	1.85"	2.28"	1.73"	2.09"	M16

Note: Balancing screw for HSK63F is M3. HSK63F Shrink Fit Holders are balanced to G2.5 at 33,000RPM. Coolant tube and coolant wrench are sold separately. See details on page 159. Standard holders do not include balanceable set screw holes. Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

HSK80F - Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK80F-SF0125-3.00	1/8"	3.00"	0.35"	-	0.39"	0.63"	-
HSK80F-SF0125-6.00	1/8"	6.00"	0.35"	-	0.39"	0.75"	-
HSK80F-SF0250-3.00	1/4"	3.00"	0.87"	1.42"	0.83"	1.06"	M5
HSK80F-SF0250-6.00	1/4"	6.00"	0.87"	1.42"	0.83"	1.06"	M5
HSK80F-SF0375-3.00	3/8"	3.00"	1.22"	1.65"	0.94"	1.18"	M8
HSK80F-SF0375-6.00	3/8"	6.00"	1.22"	1.65"	0.94"	1.26"	M8
HSK80F-SF0500-3.00	1/2"	3.00"	1.42"	1.85"	0.94"	1.18"	M10
HSK80F-SF0500-6.00	1/2"	6.00"	1.42"	1.85"	0.94"	1.26"	M10
HSK80F-SF0625-3.00	5/8"	3.00"	1.54"	1.97"	1.06"	1.30"	M12
HSK80F-SF0625-6.00	5/8"	6.00"	1.54"	1.97"	1.06"	1.34"	M12
HSK80F-SF0750-3.50	3/4"	3.50"	1.61"	2.05"	1.30"	1.61"	M16
HSK80F-SF0750-6.00	3/4"	6.00"	1.61"	2.05"	1.30"	1.65"	M16
HSK80F-SF1000-4.00	1"	4.00"	1.85"	2.28"	1.73"	2.09"	M16
HSK80F-SF1000-6.00	1"	6.00"	1.85"	2.28"	1.73"	2.09"	M16

Custom Sizes

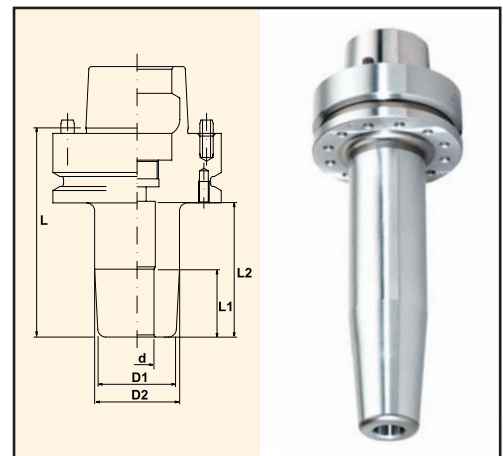
Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK80F-SF0250-2.36	1/4"	2.36	0.87"	-	0.83"	0.98	No Back-up Screw
HSK80F-SF0375-2.56	3/8"	2.56	1.22"	1.57	0.94"	1.14	
HSK80F-SF0500-2.96	1/2"	2.96	1.42"	1.85	0.94"	1.18	
HSK80F-SF0625-3.15	5/8"	3.15	1.54"	1.97	1.06"	1.34	
HSK80F-SF0750-3.15	3/4"	3.15	1.61"	2.05	1.30"	1.57	
HSK80F-SF1000-2.75	1"	2.75	1.85"	1.69	1.73"	1.97	

Note: Balancing screw for HSK80F is M4. HSK80F Shrink Fit Holders are balanced to G2.5 at 33,000RPM. Coolant tube and coolant wrench are sold separately. See details on page 159. Standard holders do not include balanceable set screw holes. Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

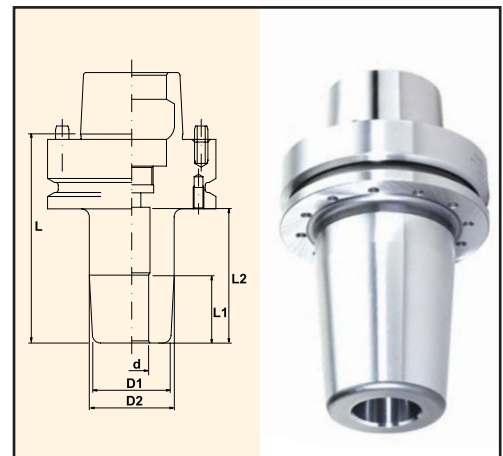
Accessories:



Shrink Fit Unit
and Accessories
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Shown with optional balanceable set screw. All nose angles are 4.5°.



Shown with optional balanceable set screw. All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100

HSK32E/40E Shrink Fit Holders

HSK32E - Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK32E-SF3-60	3mm	60mm	9mm	-	10mm	-	-
HSK32E-SF4-60	4mm	60mm	12mm	-	10mm	-	-
HSK32E-SF6-100	6mm	100mm	22mm	36mm	21mm	26mm	M5
HSK32E-SF8-100	8mm	100mm	26mm	36mm	21mm	26mm	M6
HSK32E-SF10-80	10mm	80mm	31mm	42mm	24mm	30mm	M8

Note: Balancing screw for HSK32E is M3.

HSK32E Shrink Fit Holders are balanced to G6.3 at 42,000RPM.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

HSK40E - Inch

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK40E-SF0125-2.36	1/8"	2.36"	0.35"	-	0.39"	-	-
HSK40E-SF0187-2.36	3/16"	2.36"	0.47"	-	0.39"	-	-
HSK40E-SF0250-3.15	1/4"	3.15"	0.87"	1.42"	0.83"	1.06"	M5
HSK40E-SF0250-5.12	1/4"	5.12"	0.87"	1.42"	0.83"	1.06"	M5
HSK40E-SF0375-3.15	3/8"	3.15"	1.22"	1.65"	0.94"	1.22"	M8
HSK40E-SF0375-5.12	3/8"	5.12"	1.22"	1.65"	0.94"	1.26"	M8
HSK40E-SF0500-3.54	1/2"	3.54"	1.42"	1.85"	0.94"	1.26"	M10
HSK40E-SF0500-5.12	1/2"	5.12"	1.42"	1.85"	0.94"	1.26"	M10
HSK40E-SF0625-3.54	5/8"	3.54"	1.54"	1.97"	1.06"	1.34"	M12
HSK40E-SF0625-5.12	5/8"	5.12"	1.54"	1.97"	1.06"	1.34"	M12

HSK40E - Metric

Part Number	d	L	L1	L2	D1	D2	Back-up Screw
HSK40E-SF3-60	3mm	60mm	9mm	-	10mm	-	-
HSK40E-SF4-60	4mm	60mm	12mm	-	10mm	-	-
HSK40E-SF6-80	6mm	80mm	22mm	36mm	21mm	27mm	M5
HSK40E-SF6-130	6mm	130mm	22mm	36mm	21mm	27mm	M5
HSK40E-SF8-80	8mm	80mm	26mm	36mm	21mm	27mm	M6
HSK40E-SF8-130	8mm	130mm	26mm	36mm	21mm	27mm	M6
HSK40E-SF10-80	10mm	80mm	31mm	42mm	24mm	31mm	M8
HSK40E-SF10-130	10mm	130mm	31mm	42mm	24mm	32mm	M8
HSK40E-SF12-90	12mm	90mm	36mm	47mm	24mm	32mm	M10
HSK40E-SF12-130	12mm	130mm	36mm	47mm	24mm	32mm	M10
HSK40E-SF16-90	16mm	90mm	39mm	50mm	27mm	34mm	M12
HSK40E-SF16-130	16mm	130mm	39mm	50mm	27mm	34mm	M12

Note: Balancing screw for HSK40E is M3.

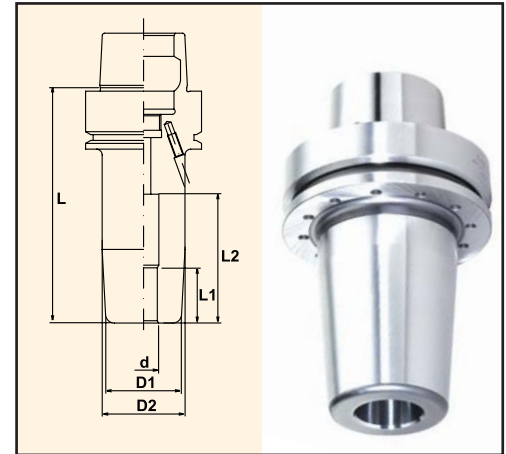
HSK40E Shrink Fit Holders are balanced to G6.3 at 42,000RPM.

Coolant tube and coolant tube wrench are sold separately. See details on page 159.

Standard holders do not include balanceable set screw holes.

Balanceable Part Numbers are identical to standard Shrink Fit Holders except that there is a "B" at the end (Ex. C40SF-0250-3.15B).

Accessories:



Shown with optional balanceable set screw.

All nose angles are 4.5°.

Balancing Kits

(for optional balanceable shrink fit toolholders only)

Part Number	Taper Size
BAL-KIT(M3)-200-SET	BT30, HSK40, HSK32E
BAL-KIT(M4)-200-SET	BT40, BT50, CAT40, CAT50, HSK63, HSK80F, HSK100



Straight Shank Shrink Fit Holders

- Straight shank tooling may be used to extend tooling reach for extended length operations
- Reduced OD allows milling applications within large holes or whenever tight clearances are encountered
- Ideal for small diameter cutting

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



TIR: 0.0002 or better



Speed: up to 40,000 rpm



Set-up: quick and easy to operate



Coolant-thru: jet slots (optional)



Drilling

★☆☆☆☆



Milling

★★★★☆

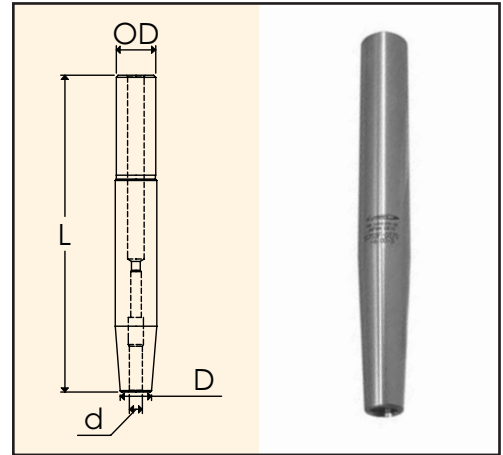


Reaming

★★★★☆

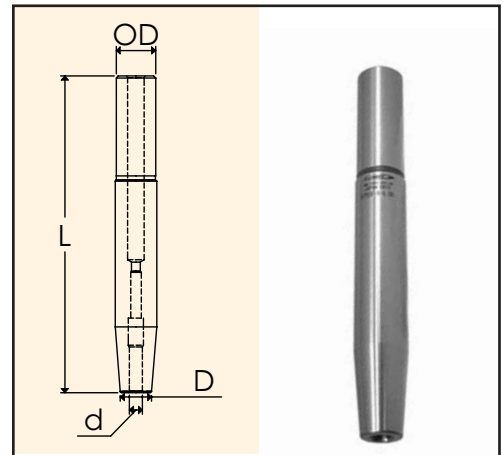
3° Slim Style (light duty)

Part Number	d	L	OD	D
S62SF-0187-4.00-3	3/16"	4"	5/8"	8mm
S62SF-0250-4.00-3	1/4"	4"	5/8"	9mm
S75SF-0250-6.00-3	1/4"	6"	3/4"	9mm
S75SF-0375-6.00-3	3/8"	6"	3/4"	13mm
S10SF-0375-6.00-3	3/8"	6"	1"	13mm
S10SF-0500-6.00-3	1/2"	6"	1"	15mm
S62SF-4-4.00-3	4mm	4"	5/8"	7mm
S62SF-5-4.00-3	5mm	4"	5/8"	8mm
S62SF-6-4.00-3	6mm	4"	5/8"	9mm
S75SF-6-6.00-3	6mm	6"	3/4"	9mm
S75SF-8-6.00-3	8mm	6"	3/4"	11mm
S10SF-10-6.00-3	10mm	6"	1"	13mm
S10SF-12-6.00-3	12mm	6"	1"	15mm



4.5° Standard Style

Part Number	d	L	OD	D
S75SF-0250-6.00	1/4"	6"	3/4"	15mm
S75SF-0375-6.00	3/8"	6"	3/4"	20mm
S10SF-0375-6.00	3/8"	6"	1"	20mm
S10SF-0500-6.00	1/2"	6"	1"	20mm
S75SF-6-6.00	6mm	6"	3/4"	15mm
S75SF-8-6.00	8mm	6"	3/4"	15mm
S75SF-10-6.00	10mm	6"	3/4"	20mm
S10SF-10-6.00	10mm	6"	1"	20mm
S10SF-12-6.00	12mm	6"	1"	20mm



Accessories:



**Shrink Fit Unit
and Accessories**
Page 174

Shrink Fit Unit and Accessories



Shrink Fit Unit (with 200-240V Power Supply)

Part Number (Unit only)	Dimensions
SF-START2-UNIT	H: 30", W: 10", L:19"

Shrink Fit Unit Set (with 200-240V Power Supply)

Part Number	Taper Size
SF-START2-SET-#40	Shrink Fit unit for 40 taper
SF-START2-SET-#50	Shrink Fit unit for 50 taper
SF-START2-SET-HSK32	Shrink Fit unit for HSK32A/C/E
SF-START2-SET-HSK40	Shrink Fit unit for HSK40A/C/E
SF-START2-SET-HSK50	Shrink Fit unit for HSK50A/C/E-HSK63B/D/F
SF-START2-SET-HSK63	Shrink Fit unit for HSK63A/C/E-HSK80B/D/F
SF-START2-SET-HSK80	Shrink Fit unit for HSK80A/C/E-HSK100B/D/F
SF-START2-SET-HSK100	Shrink Fit unit for HSK100A/C/E

Set includes 1 taper pot and the following accessories denoted with an X.

Accessories

Shrink Fit Cabinet



Part Number
SF-CABINET

Cooling Brackets



Part Number	Included in set	Size
SF-COOL-BRACKET2-6	X	2~5mm
SF-COOL-BRACKET6-14	X	6~13mm
SF-COOL-BRACKET14-25	X	14~24mm
SF-COOL-BRACKET25-33	X	25~32mm
SF-COOL-BRACKET33-41	X	33~40mm

Features

- Shrink and unshrink of any type of tools and cutters (HSS, Carbide, Tool-inserts, etc.)
- Compatible with all holders with different geometries
- Quick, Safe and Easy to Use
- Shrinking time cycle: from 2 to 7 seconds
- Shrinking 2-40mm with the same inductor
- 220V power allows for mobility. Plug-in & Go
- Removable electronic pack allows service within 24 hours
- Inductor rotates 180° to allow easy removal of broken tool shanks and small diameter tools
- Auto detect eliminates the need for setting of cutter shank
- Compact table top with big range (2-40mm X 370mm height)
- 14.68"(373mm) of travel

Cooling Fan



Part Number	Included in set
SF-START2-COOL-FAN40	X

Flux Concentrator - Heat Ring (Split Ring)



Part Number	Included in set	Size
SF-HEAT-RING-2-5	X	2~5mm
SF-HEAT-RING-6-13	X	6~13mm
SF-HEAT-RING-14-24	X	14~24mm
SF-HEAT-RING-25-32	X	25~32mm
SF-HEAT-RING-33-40	X	33~40mm
SF-HEAT-RING-2-5(SP)		2~5mm
SF-HEAT-RING-6-13(SP)		6~13mm
SF-HEAT-RING-14-24(SP)		14~24mm
SF-HEAT-RING-25-32(SP)		25~32mm
SF-HEAT-RING-33-40(SP)		33~40mm

Pot/Chuck Holder



Part Number	Taper Size
SF-POT-#40	#40
SF-POT-#50	#50
SF-POT-HSK32	HSK32A/C/E
SF-POT-HSK40	HSK40A/C/E
SF-POT-HSK50	HSK50A/C/E - HSK63B/D/F
SF-POT-HSK63	HSK63A/C/E - HSK80B/D/F
SF-POT-HSK80	HSK80A/C/E - HSK100B/D/F
SF-POT-HSK100	HSK100A/C/E

Set includes 1 taper corresponding taper pot.
(For example, SF-START2-SET#40 includes SF-POT-#40)



Milling Chucks

Shrink Fit Holders

SK Collet Chucks



Current Promotion

Scan
these
QR Codes



Featured Video

SK Collet Chuck Features

LEAN, TOUGH AND EFFICIENT

- Lean:** narrow body design accesses tight spots
- Versatile:** applicable for all milling, drilling, reaming and rigid tapping applications
- Flexible:** covers sizes from .027" to 1"
- Accurate:** two times more accurate than ER Collet Chucks, within 10 times better repeatability
- Extremely Precise:** 0.00012" or less concentricity guarantee with on-size collets all the time
- 8° versus 16° collet taper:** twice more gripping power than ER Collet Chucks
- Extremely Successful:** over 1 million SK Collet Chucks and 15 million SK collets sold worldwide



SK Collet Range



SK6
(0.7-6.0mm)
(0.027-0.236")



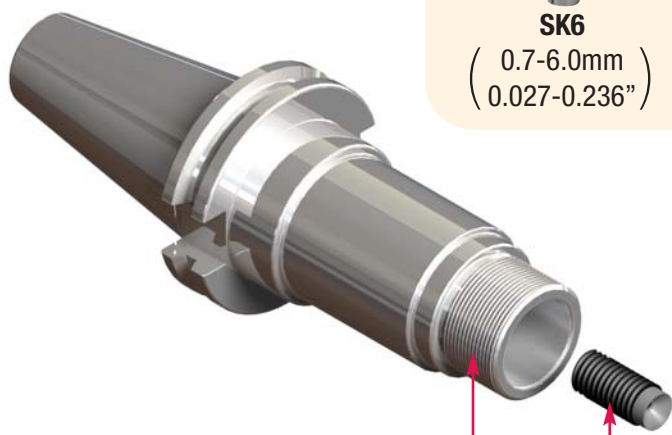
SK10
(1.75-10.0mm)
(0.069-0.393")



SK16
(2.75-16.0mm)
(0.108-0.629")



SK25
(16.0-25.4mm)
(0.629-1.000")

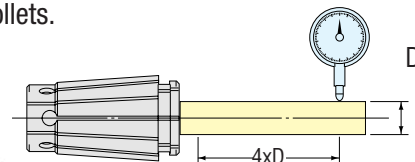


Grinding of threads allows accurate and strong collet compression and prevents collet rocking.

Fine adjustment back up screw (see detailed next page) and chamfered plastic tip creates additional seal for 1000PSI coolant through applications.

Accuracy and Flexibility

Due to Nikken's special heat treatment, grinding and custom slotting process, they are the only collet chuck manufacturer in the world that guarantees a 3 micron runout tolerance for their "on size" fractional and metric size precision collets.



- Collet edge is flush with front surface of nut maximizing gripping rigidity
- Extreme 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 Chuck Features

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 twice more clamping force and twice more precision than traditional 16° ER collets.



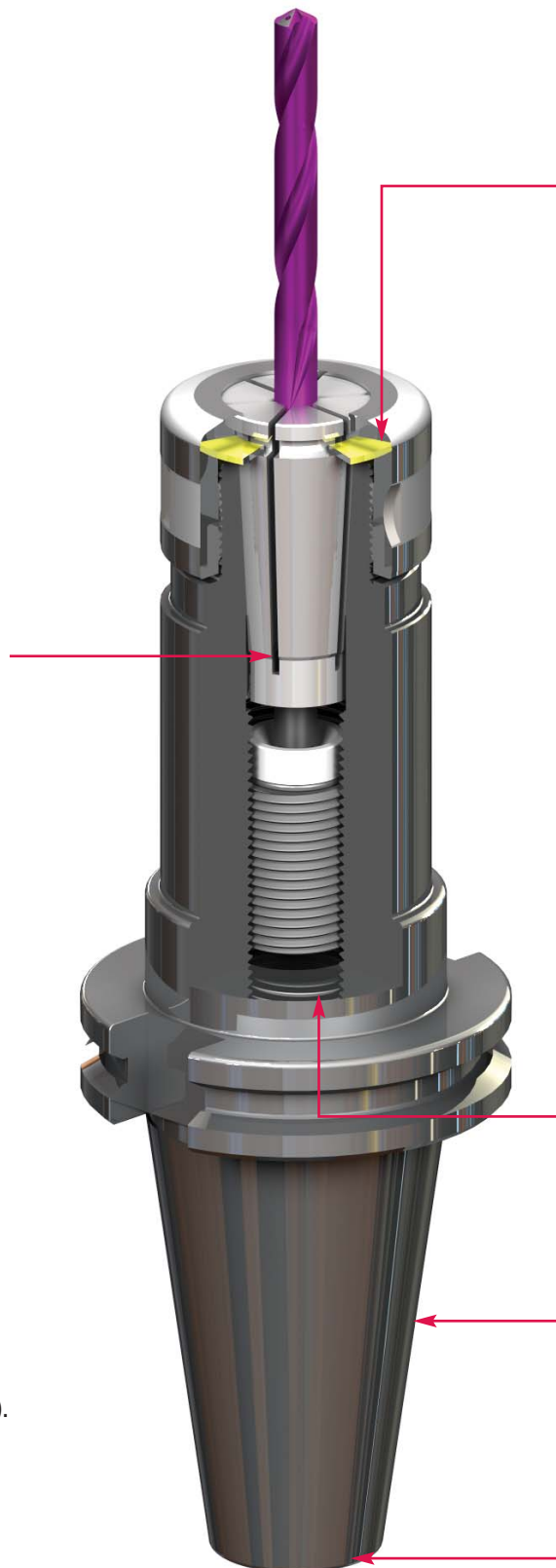
Tightening



Loosening

GH Handle

Easy, safe and reliable handling with GH wrench (see page 193).



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
- No damage, no friction
- No corrosion occurs internally
- Less micro vibration with collet flange contact
- Increase cutting performance and tool life durability
- More cutting rigidity

High pressure 1200 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 for accurate perpendicular contact between pull stud and taper

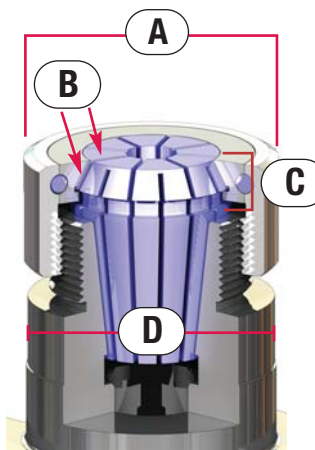
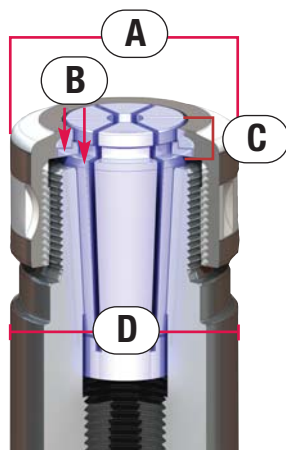
SK Collet

SK Collets can be used for all applications, from milling to reaming. Standard collets can be used in coolant thru applications (with coolant back-up screws).

SK Collet VS ER Collet

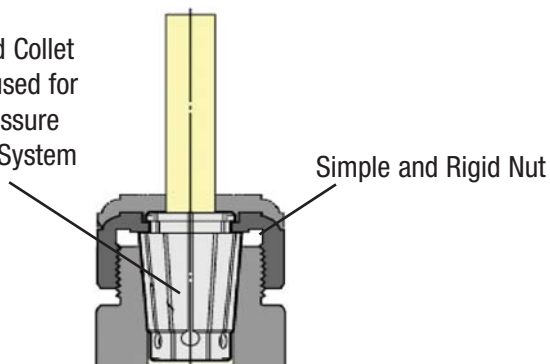
- A. Slim design allows for clearance
- B. Force is perpendicular to centerline of toolholder for strong grip
- C. Deep position creates greater accuracy
- D. Rigid body is flush with nut to maintain rigidity throughout

- A. Wide collets= wide nut design
- B. Force is angular to centerline of toolholder
- C. Shallow position creates collet rocking
- D. Body diameter is smaller than nut compromising rigidity



Lyndex-Nikken Slim Chuck -Flat shoulder pushing

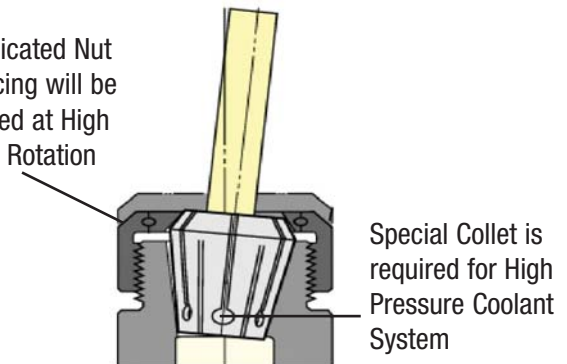
Standard Collet can be used for High Pressure Coolant System



- High Accuracy Due to Flat Shoulder Pushing
- High Gripping Torque of 8° taper

Others -Taper shoulder pushing

Complicated Nut Balancing will be changed at High Speed Rotation

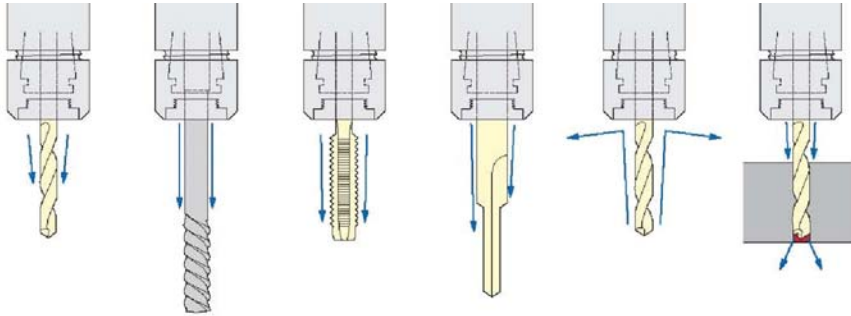


- Unstable Run-out Due to Taper Part Pushing
- Poor Gripping Torque of 12°, 16° taper

Superior SK Coolant System

Our Slim Chuck features a unique High-Pressure Coolant Collet System which allows for higher accuracy and gripping torque.

SK Coolant thru options:



Slotted Disc:

When the Coolant Nut is paired with the Slotted Disc, 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**.

Back-up Screw for SK Collet Chuck

SKG12



- 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 1200 psi
- Solid steel black oxide coated back up screws with plastic caps
- 80% thread engagement on fine thread to prevent coolant leakage
- External O ring provides additional seals to prevent coolant build up within the toolholder

SKG-18H



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

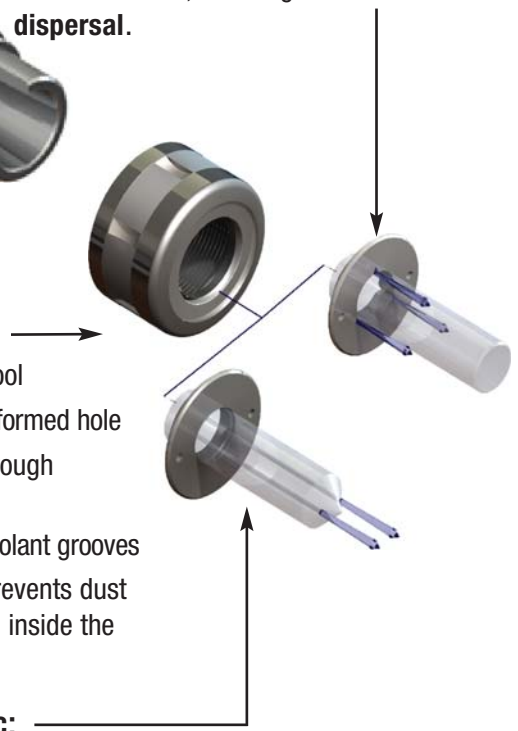


Applications for SK J Type Nut:

- 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 Disc:

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

- 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 twice more clamping force and precision than ER Collet Chucks



TIR: 0.0002" at 4xD



Speed: up to 30,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆

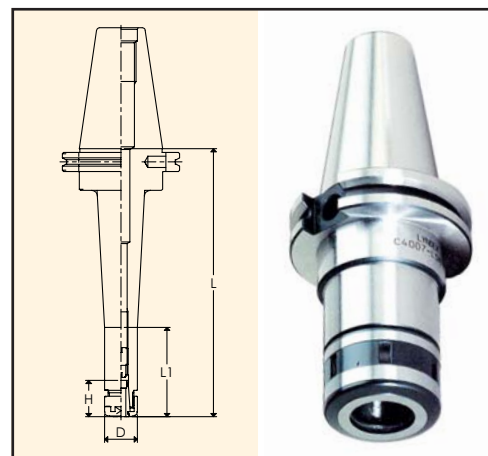


Reaming
★★★★☆

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	L1	H	D	Back-up Screw
CAT40-SK6-90U	SK6	SKL-6W	3.543"	1.969"	0.827-1.378"	0.768"	SKG-8
CAT40-SK6-120U	SK6	SKL-6W	4.724"	2.441"	0.827-1.378"	0.768"	SKG-8
CAT40-SK6-150U	SK6	SKL-6W	5.906"	2.362"	0.827-1.378"	0.768"	SKG-8
CAT40-SK10-90U	SK10	SKL-10	3.543"	1.969"	1.181-1.969"	1.083"	SKG-12L
CAT40-SK10-120U	SK10	SKL-10	4.724"	2.756"	1.181-1.969"	1.083"	SKG-12L
CAT40-SK10-150U	SK10	SKL-10	5.906"	2.874"	1.181-1.969"	1.083"	SKG-12L
CAT40-SK10-180U	SK10	SKL-10	7.086"	2.874"	1.378-1.614"	1.083"	SKG-12L
CAT40-SK16-90U	SK16	9HC16	3.543"	1.969"	1.772-2.756"	1.575"	SKG-18L
CAT40-SK16-120U	SK16	9HC16	4.724"	3.150"	1.772-2.756"	1.575"	SKG-18L
CAT40-SK16-150U	SK16	9HC16	5.906"	4.331"	1.772-2.756"	1.575"	SKG-18L
CAT40-SK16-180U	SK16	9HC16	7.086"	5.710"	1.654-2.244"	1.575"	SKG-18L
CAT40-SK25-90U	SK25	9HC22	3.543"	2.165"	2.165-2.756"	2.165"	SKG-28
CAT40-SK25-120U	SK25	9HC22	4.724"	3.346"	2.165-3.346"	2.165"	SKG-28



CAT50

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
CAT50-SK6-105U	SK6	SKL-6W	4.134"	2.362"	0.827-1.378"	0.768"	SKG-8
CAT50-SK6-165U	SK6	SKL-6W	6.496"	2.441"	0.827-1.378"	0.768"	SKG-8
CAT50-SK6-195U	SK6	SKL-6W	7.677"	2.362"	0.827-1.378"	0.768"	SKG-8
CAT50-SK10-105U	SK10	SKL-10	4.134"	2.362"	1.181-1.969"	1.083"	SKG-12L
CAT50-SK10-165U	SK10	SKL-10	6.496"	2.953"	1.181-1.969"	1.083"	SKG-12L
CAT50-SK10-195U	SK10	SKL-10	7.677"	2.953"	1.181-1.969"	1.083"	SKG-12L
CAT50-SK10-225U	SK10	SKL-10	8.858"	2.953"	1.378-1.614"	1.083"	SKG-12L
CAT50-SK16-105U	SK16	9HC16	4.134"	2.559"	1.772-2.756"	1.575"	SKG-18L
CAT50-SK16-165U	SK16	9HC16	6.496"	3.543"	1.772-2.756"	1.575"	SKG-18L
CAT50-SK16-195U	SK16	9HC16	7.677"	3.543"	1.772-2.756"	1.575"	SKG-18L
CAT50-SK25-105U	SK25	9HC22	4.134"	2.559"	2.165-3.346"	2.165"	SKG-28
CAT50-SK25-165U	SK25	9HC22	6.496"	4.921"	2.165-3.346"	2.165"	SKG-28
CAT50-SK25-195U	SK25	9HC22	7.677"	6.102"	2.165-3.346"	2.165"	SKG-28

Note: Wrench and back-up screw not included.

3-Lock SK Collet Chucks for Dual Contact Spindle

3-Lock SK Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



SK Collets
Page 188



Wrench
Page 193



Back-up screw
Page 194

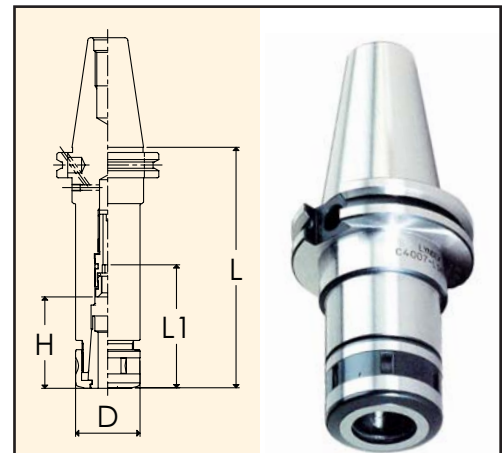


Coolant-thru and Slotted Nuts
Page 192

CAT SK Collet Chucks

CAT40 - DIN

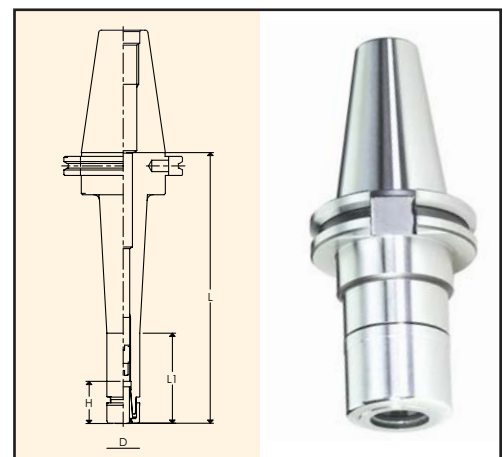
Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
CAT40-SK6F-90U	SK6	SKL-6W	3.543"	1.969"	0.827-1.378"	0.768"	SKG6-6HG
CAT40-SK6F-120U	SK6	SKL-6W	4.724"	2.441"	0.827-1.378"	0.768"	SKG6-6HG
CAT40-SK6F-150U	SK6	SKL-6W	5.906"	2.362"	0.827-1.378"	0.768"	SKG6-6HG
CAT40-SK10F-90U	SK10	SKL-10	3.543"	1.969"	1.181-1.969"	1.083"	SKG10-10HG
CAT40-SK10F-120U	SK10	SKL-10	4.724"	2.756"	1.181-1.969"	1.083"	SKG10-10HG
CAT40-SK10F-150U	SK10	SKL-10	5.906"	2.874"	1.181-1.969"	1.083"	SKG10-10HG
CAT40-SK16F-60U	SK16	9HC16	2.362"	1.181"	1.772-2.756"	1.575"	N/A
CAT40-SK16F-90U	SK16	9HC16	3.543"	1.969"	1.772-2.756"	1.575"	SKG16-12HG
CAT40-SK16F-120U	SK16	9HC16	4.724"	3.150"	1.772-2.756"	1.575"	SKG16-12HG
CAT40-SK16F-150U	SK16	9HC16	5.906"	4.331"	1.772-2.756"	1.575"	SKG16-12HG
CAT40-SK25F-90U	SK25	9HC22	3.543"	2.165"	2.165-2.756"	2.165"	SKG25-18HGE
CAT40-SK25F-120U	SK25	9HC22	4.724"	3.346"	2.165-3.346"	2.165"	SKG25-18HGE



CAT40 - DIN Note: Wrench and back-up screw not included. No back adjustment screw.

CAT40 High-Speed

Part Number	Collet	Wrench	L	L1	H	D	Back-up Screw
CAT40-SK6-90UP	SK6	GH6	3.543"	2.165"	0.827"-1.378"	0.768"	SKG-8
CAT40-SK6-120UP	SK6	GH6	4.724"	2.637"	0.827"-1.378"	0.768"	SKG-8
CAT40-SK6-150UP	SK6	GH6	5.906"	4.528"	0.827"-1.378"	0.768"	SKG-8
CAT40-SK10-90UP	SK10	GH10	3.543"	2.165"	1.181"-1.969"	1.083"	SKG-12L
CAT40-SK10-120UP	SK10	GH10	4.724"	3.346"	1.181"-1.969"	1.083"	SKG-12L
CAT40-SK10-150UP	SK10	GH10	5.906"	4.528"	1.181"-1.969"	1.083"	SKG-12L
CAT40-SK16-60UP	SK16	GH16	2.362"	1.181"	1.574"-2.756"	1.575"	N/A
CAT40-SK16-90UP	SK16	GH16	3.543"	2.165"	1.574"-2.756"	1.575"	SKG-18L
CAT40-SK16-120UP	SK16	GH16	4.724"	3.346"	1.574"-2.756"	1.575"	SKG-18L
CAT40-SK16-150UP	SK16	GH16	5.906"	4.528"	1.574"-2.756"	1.575"	SKG-18L
CAT40-SK25-90UP	SK25	GH25	3.543"	2.165"	2.165"-2.952"	2.165"	SKG-28
CAT40-SK25-120UP	SK25	GH25	4.724"	3.346"	2.165"-2.952"	2.165"	SKG-28



CAT40 - High-Speed Note: No back adjustment screw. DIN type high-speed toolholders available. Please contact us for more information.

CAT50 High-Speed

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
CAT50-SK6-105UP	SK6	GH6	4.134"	2.756"	0.827"-1.378"	0.768"	SKG-8
CAT50-SK6-165UP	SK6	GH6	6.496"	5.118"	0.827"-1.378"	0.768"	SKG-8
CAT50-SK10-105UP	SK10	GH10	4.134"	2.756"	1.181"-1.969"	1.083"	SKG-12L
CAT50-SK10-165UP	SK10	GH10	6.496"	5.118"	1.181"-1.969"	1.083"	SKG-12L
CAT50-SK10-195UP	SK10	GH10	7.677"	6.299"	1.181"-1.969"	1.083"	SKG-12L
CAT50-SK16-105UP	SK16	GH16	4.134"	2.756"	1.574"-2.756"	1.575"	SKG-18L
CAT50-SK16-165UP	SK16	GH16	6.496"	5.118"	1.574"-2.756"	1.575"	SKG-18L
CAT50-SK16-195UP	SK16	GH16	7.677"	6.299"	1.574"-2.756"	1.575"	SKG-18L
CAT50-SK25-105UP	SK25	GH25	4.134"	2.756"	2.165"-2.952"	2.165"	SKG-28
CAT50-SK25-165UP	SK25	GH25	6.496"	5.118"	2.165"-2.952"	2.165"	SKG-28
CAT50-SK25-195UP	SK25	GH25	7.677"	6.299"	2.165"-2.952"	2.165"	SKG-28

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

Accessories:



SK Collets
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Wrench
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Back-up screw
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Coolant-thru and
Slotted Nuts
Page 192

BT SK Collet Chucks

- 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 twice more clamping force and precision than ER Collet Chucks



TIR: 0.0002" at 4xD



Speed: up to 30,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆

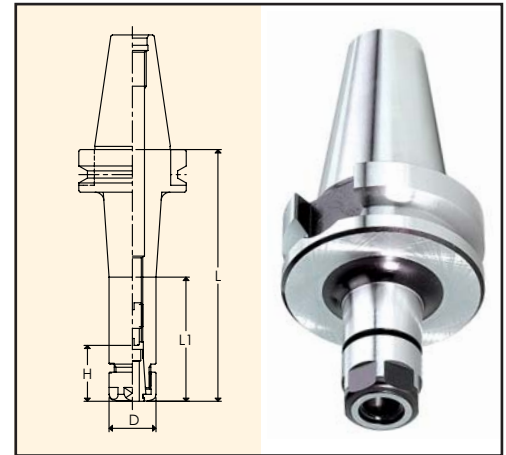


Reaming
★★★★☆

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	L1	H	D	Back-up Screw
BT30-SK6-60	SK6	SKL-6W	2.362"	1.299"	0.827-1.378"	0.768"	SKG-8
BT30-SK6-90	SK6	SKL-6W	3.543"	2.205"	0.827-1.378"	0.768"	SKG-8
BT30-SK10-45	SK10	SKL-10	1.772"	0.866"	1.181-1.969"	1.083"	SKG-12S
BT30-SK10-60	SK10	SKL-10	2.362"	1.378"	1.181-1.969"	1.083"	SKG-12L
BT30-SK10-90	SK10	SKL-10	3.543"	2.559"	1.181-1.969"	1.083"	SKG-12L
BT30-SK16-60	SK16	9HC16	2.362"	1.457"	1.772-2.362"	1.575"	SKG-12L
BT30-SK16-90	SK16	9HC16	3.543"	2.638"	1.772-2.559"	1.575"	SKG-12
BT30-SK25-90	SK25	9HC22	3.543"	2.559"	2.165-2.953"	2.165"	SKG-12



BT40

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
BT40-SK6-90	SK6	SKL-6W	3.543"	2.008"	0.827-1.378"	0.768"	SKG-8
BT40-SK6-120	SK6	SKL-6W	4.724"	2.362"	0.827-1.378"	0.768"	SKG-8
BT40-SK6-150	SK6	SKL-6W	5.906"	2.362"	0.827-1.378"	0.768"	SKG-8
BT40-SK10-90	SK10	SKL-10	3.543"	1.890"	1.181-1.969"	1.083"	SKG-12L
BT40-SK10-120	SK10	SKL-10	4.724"	2.874"	1.181-1.969"	1.083"	SKG-12L
BT40-SK10-150	SK10	SKL-10	5.906"	2.874"	1.181-1.969"	1.083"	SKG-12L
BT40-SK10-180	SK10	SKL-10	7.086"	-	1.378-1.614"	1.083"	SKG-12L
BT40-SK16-90	SK16	9HC16	3.543"	2.283"	1.772-2.756"	1.575"	SKG-18L
BT40-SK16-120	SK16	9HC16	4.724"	3.465"	1.772-2.756"	1.575"	SKG-18L
BT40-SK16-150	SK16	9HC16	5.906"	4.646"	1.772-2.756"	1.575"	SKG-18L
BT40-SK16-180	SK16	9HC16	7.086"	6.023"	1.654-2.244"	1.575"	SKG-18L
BT40-SK25-75	SK25	9HC22	2.953"	1.850"	2.165-2.953"	2.165"	SKG-12
BT40-SK25-90	SK25	9HC22	3.543"	2.402"	2.165-2.953"	2.165"	SKG-28
BT40-SK25-120	SK25	9HC22	4.724"	3.583"	2.165-3.346"	2.165"	SKG-28

Note: Wrench and back-up screw not included.

Accessories:



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Wrench
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Back-up screw
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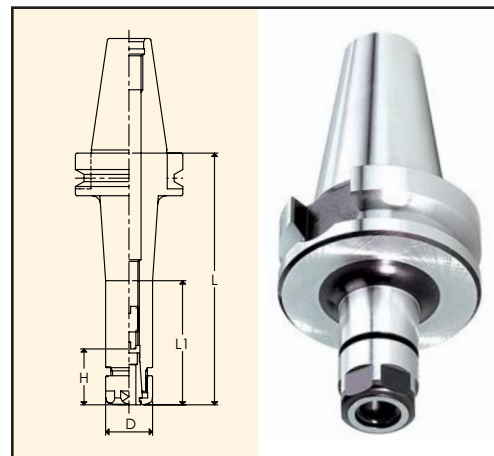
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BT SK Collet Chucks

BT50

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
BT50-SK6-105	SK6	SKL-6W	4.134"	2.165"	0.827-1.378"	0.768"	SKG-8
BT50-SK6-165	SK6	SKL-6W	6.496"	2.362"	0.827-1.378"	0.768"	SKG-8
BT50-SK6-195	SK6	SKL-6W	7.677"	2.362"	0.827-1.378"	0.768"	SKG-8
BT50-SK10-105	SK10	SKL-10	4.134"	2.244"	1.181-1.969"	1.083"	SKG-12L
BT50-SK10-165	SK10	SKL-10	6.496"	2.953"	1.181-1.969"	1.083"	SKG-12L
BT50-SK10-195	SK10	SKL-10	7.677"	2.953"	1.181-1.969"	1.083"	SKG-12L
BT50-SK16-105	SK16	9HC16	4.134"	2.441"	1.772-2.756"	1.575"	SKG-18L
BT50-SK16-165	SK16	9HC16	6.496"	3.543"	1.772-2.756"	1.575"	SKG-18L
BT50-SK16-195	SK16	9HC16	7.677"	3.543"	1.772-2.756"	1.575"	SKG-18L
BT50-SK25-105	SK25	9HC22	4.134"	2.441"	2.165-3.346"	2.165"	SKG-28
BT50-SK25-165	SK25	9HC22	6.496"	4.803"	2.165-3.346"	2.165"	SKG-28
BT50-SK25-195	SK25	9HC22	7.677"	5.984"	2.165-3.346"	2.165"	SKG-28

Note: Wrench and back-up screw not included.



Accessories:



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Back-up screw
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BT SK Collet Chucks - High Speed

BT30 High-Speed

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
BT30-SK6-60P	SK6	GH6	2.362"	1.496"	0.827" - 1.378"	0.768"	SKG-8
BT30-SK6-90P	SK6	GH6	3.543"	2.480"	0.827" - 1.378"	0.768"	SKG-8
BT30-SK10-45P	SK10	GH10	1.772"	0.906"	1.181" - 1.969"	1.083"	SKG-12S
BT30-SK10-60P	SK10	GH10	2.362"	2.677"	1.181" - 1.969"	1.083"	SKG-12L
BT30-SK10-90P	SK10	GH10	3.543"	1.496"	1.181" - 1.969"	1.083"	SKG-12L
BT30-SK16-60P	SK16	GH16	2.362"	1.496"	1.772" - 2.362"	1.575"	SKG-12L
BT30-SK16-90P	SK16	GH16	3.543"	2.677"	1.772" - 2.559"	1.575"	SKG-12
BT30-SK25-90P	SK25	GH25	3.543"	1.693"	2.165" - 2.953"	2.165"	SKG-28

BT40 High-Speed

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
BT40-SK6-90P	SK6	GH6	3.543"	2.086"	0.827" - 1.378"	0.768"	SKG-8
BT40-SK6-120P	SK6	GH6	4.724"	3.661"	0.827" - 1.378"	0.768"	SKG-8
BT40-SK6-150P	SK6	GH6	5.906"	4.843"	0.827" - 1.378"	0.768"	SKG-8
BT40-SK10-90P	SK10	GH10	3.543"	2.480"	1.181" - 1.969"	1.083"	SKG-12L
BT40-SK10-120P	SK10	GH10	4.724"	3.661"	1.181" - 1.969"	1.083"	SKG-12L
BT40-SK10-150P	SK10	GH10	5.906"	2.874"	1.181" - 1.969"	1.083"	SKG-12L
BT40-SK16-90P	SK16	GH16	3.543"	2.480"	1.575" - 2.756"	1.575"	SKG-18L
BT40-SK16-120P	SK16	GH16	4.724"	3.661"	1.575" - 2.756"	1.575"	SKG-18L
BT40-SK16-150P	SK16	GH16	5.906"	4.646"	1.575" - 2.756"	1.575"	SKG-18L
BT40-SK25-75P	SK25	GH25	2.953"	1.890"	2.165" - 2.953"	2.165"	SKG-12
BT40-SK25-90P	SK25	GH25	3.543"	2.480"	2.165" - 2.953"	2.165"	SKG-28
BT40-SK25-120P	SK25	GH25	4.724"	3.661"	2.165" - 2.953"	2.165"	SKG-28

BT50 High-Speed

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
BT50-SK6-105P	SK6	GH6	4.134"	2.638"	0.827" - 1.378"	0.768"	SKG-8
BT50-SK6-165P	SK6	GH6	6.496"	5.00"	0.827" - 1.378"	0.768"	SKG-8
BT50-SK6-195P	SK6	GH6	7.677"	2.362"	0.827" - 1.378"	0.768"	SKG-8
BT50-SK10-105P	SK10	GH10	4.134"	2.638"	1.181" - 1.969"	1.083"	SKG-12L
BT50-SK10-165P	SK10	GH10	6.496"	5.00"	1.181" - 1.969"	1.083"	SKG-12L
BT50-SK10-195P	SK10	GH10	7.677"	6.181"	1.181" - 1.969"	1.083"	SKG-12L
BT50-SK16-105P	SK16	GH16	4.134"	2.638"	1.575" - 2.756"	1.575"	SKG-18L
BT50-SK16-165P	SK16	GH16	6.496"	5.00"	1.575" - 2.756"	1.575"	SKG-18L
BT50-SK16-195P	SK16	GH16	7.677"	3.543"	1.575" - 2.756"	1.575"	SKG-18L
BT50-SK25-105P	SK25	GH25	4.134"	2.638"	2.165" - 2.953"	2.165"	SKG-28
BT50-SK25-165P	SK25	GH25	6.496"	5.00"	2.165" - 2.953"	2.165"	SKG-28
BT50-SK25-195P	SK25	GH25	7.677"	5.984"	2.165" - 2.953"	2.165"	SKG-28

Note: Wrench and back-up screw not included.

Accessories:



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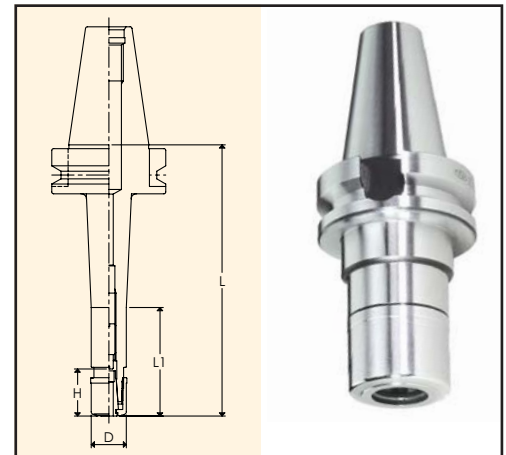
Wrench
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Back-up screw
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Coolant-thru and Slotted Nuts
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3-Lock SK Collet Chucks for Dual Contact Spindle

3-Lock SK Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Straight Shank SK Collet Chucks

- 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 twice more clamping force and precision than ER Collet Chucks



TIR: 0.0002" at 4xD



Speed: up to 30,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆





Milling
★★★★☆



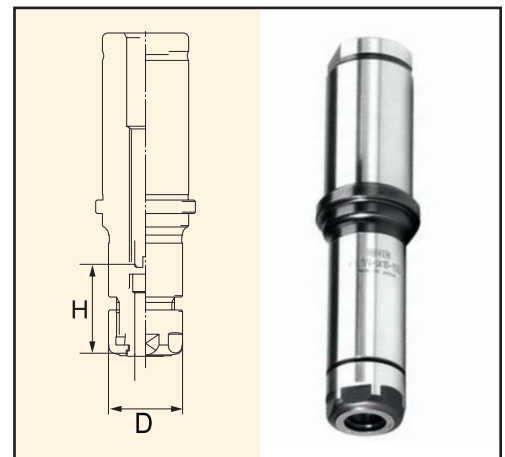
Reaming
★★★★☆

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 	Wrench 	H	D
K3/4-SK10-100	SK10	SKL-10	1.378-1.614"	1.083"
K3/4-SK10-120	SK10	SKL-10	1.378-1.614"	1.083"
K1.1/4-SK6-120	SK6	SKL-6W	0.827-1.378"	0.768"
K1.1/4-SK6-170	SK6	SKL-6W	0.827-1.378"	0.768"
K1.1/4-SK10-120	SK10	SKL-10	1.378-1.614"	1.083"
K1.1/4-SK10-150	SK10	SKL-10	1.378-1.614"	1.083"
K1.1/4-SK10-210	SK10	SKL-10	1.378-1.614"	1.083"
K1.1/4-SK16-120	SK16	9HC16	1.654-2.244"	1.575"
K1.1/4-SK16-150	SK16	9HC16	1.654-2.244"	1.575"
K1.1/4-SK16-210	SK16	9HC16	1.654-2.244"	1.575"
K1.1/4-SK25-150	SK25	9HC22	2.362-2.559"	2.165"

Note: Wrench and back-up screw not included.



Accessories:



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Wrench
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Back-up screw
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Coolant-thru and Slotted Nuts
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HSK SK Collet Chucks

- 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 twice more clamping force and precision than ER Collet Chucks



TIR: 0.0002" at 4xD



Speed: up to 30,000 rpm



Set-up: quick and easy



Coolant-thru: thru-tool coolant



Drilling
★★★★☆



Milling
★★★★☆



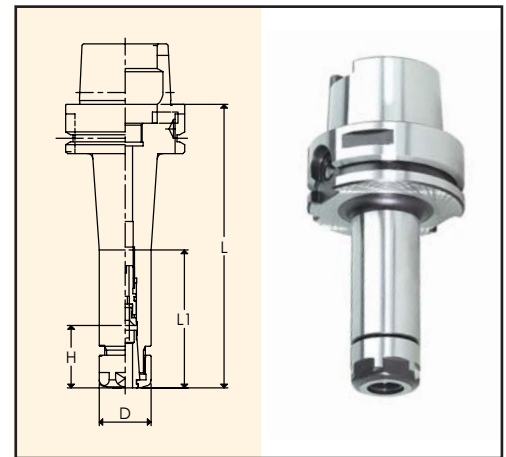
Reaming
★★★★☆

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	L1	H	D	Back-up Screw
HSK63A-SK6C-100	SK6	SKL-6W	3.937"	2.441"	1.024-1.220"	0.768"	SKG6-6HG
HSK63A-SK6C-120	SK6	SKL-6W	4.724"	2.441"	1.024-1.220"	0.768"	SKG6-6HG
HSK63A-SK6C-150	SK6	SKL-6W	5.906"	2.362"	1.024-1.220"	0.768"	SKG6-6HG
HSK63A-SK10C-105	SK10	SKL-10	4.134"	2.913"	1.378-1.614"	1.083"	SKG10-10HG
HSK63A-SK10C-120	SK10	SKL-10	4.724"	2.362"	1.378-1.614"	1.083"	SKG10-10HG
HSK63A-SK10C-150	SK10	SKL-10	5.906"	2.874"	1.378-1.614"	1.083"	SKG10-10HG
HSK63A-SK16C-120	SK16	9HC16	4.724"	3.583"	1.772-2.047"	1.575"	SKG16-10HG
HSK63A-SK16C-150	SK16	9HC16	5.906"	4.764"	1.772-2.244"	1.575"	SKG16-12HG
HSK63A-SK25C-135	SK25	9HC22	5.315"	4.252"	2.362-2.559"	2.165"	SKG25-18HGE

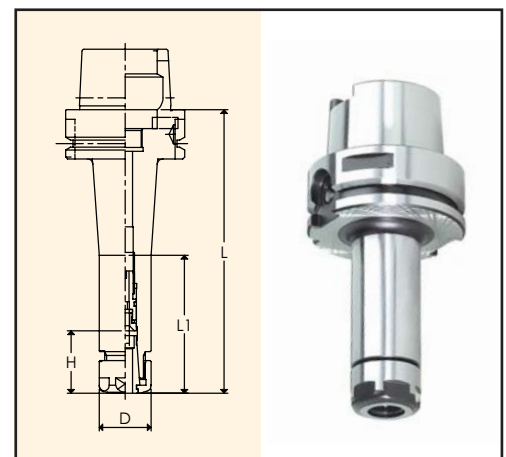
Note: Wrench and back-up screw not included.
Coolant tube and coolant tube wrench are sold separately. See page 210 for details.



HSK100A

Part Number	Collet Size	Wrench	L	L1	H	D	Back-up Screw
HSK100A-SK6C-105	SK6	SKL-6W	4.134"	2.441"	1.024-1.220"	0.768"	SKG6-6HG
HSK100A-SK10C-105	SK10	SKL-10	4.134"	2.244"	1.378-1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-120	SK10	SKL-10	4.724"	2.913"	1.378-1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-150	SK10	SKL-10	5.906"	3.150"	1.378-1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-200	SK10	SKL-10	7.874"	2.953"	1.378-1.614"	1.083"	SKG10-10HG
HSK100A-SK16C-120	SK16	9HC16	4.724"	3.386"	1.654-2.047"	1.575"	SKG16-10HG
HSK100A-SK16C-150	SK16	9HC16	5.906"	3.543"	1.654-2.244"	1.575"	SKG16-12HG
HSK100A-SK16C-200	SK16	9HC16	7.874"	3.543"	1.654-2.244"	1.575"	SKG16-12HG
HSK100A-SK25C-145	SK25	9HC22	5.709"	4.370"	2.362-2.559"	2.165"	SKG25-18HGE

Note: Wrench and back-up screw not included.
Coolant tube and coolant tube wrench are sold separately. See page 210 for details.



Accessories:



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Wrench
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Back-up screw
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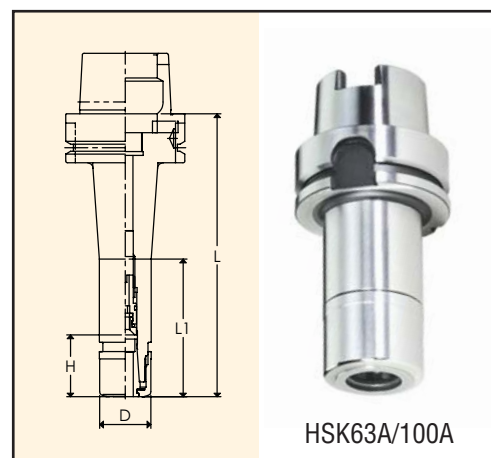


Coolant-thru and Slotted Nuts
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HSK SK Collet Chucks - High Speed

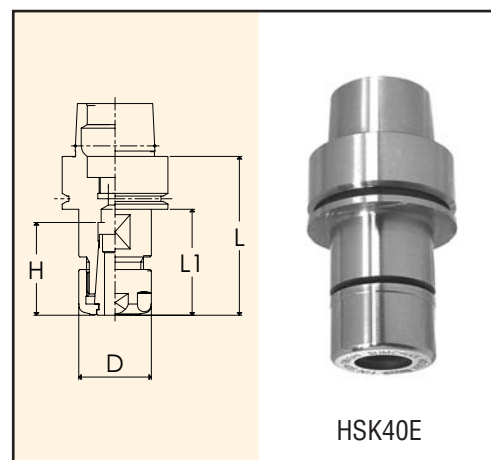
HSK63A High-Speed

Part Number	Collet Size 	Wrench 	L	L1	H	D	Back-up Screw
HSK63A-SK6C-100P	SK6	GH6	3.937"	2.913"	1.024" - 1.220"	0.768"	SKG6-6HG
HSK63A-SK6C-120P	SK6	GH6	4.724"	3.700"	1.024" - 1.220"	0.768"	SKG6-6HG
HSK63A-SK6C-150P	SK6	GH6	5.906"	4.882"	1.024" - 1.220"	0.768"	SKG6-6HG
HSK63A-SK10C-105P	SK10	GH10	4.134"	3.110"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK63A-SK10C-120P	SK10	GH10	4.724"	3.700"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK63A-SK10C-150P	SK10	GH10	5.906"	4.882"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK63A-SK16C-120P	SK16	GH16	4.724"	3.700"	1.772" - 2.047"	1.575"	SKG16-10HG
HSK63A-SK16C-150P	SK16	GH16	5.906"	4.882"	1.772" - 2.244"	1.575"	SKG16-12HG
HSK63A-SK25C-135P	SK25	GH25	5.315"	4.252"	2.362" - 2.559"	2.165"	SKG25-18HGE





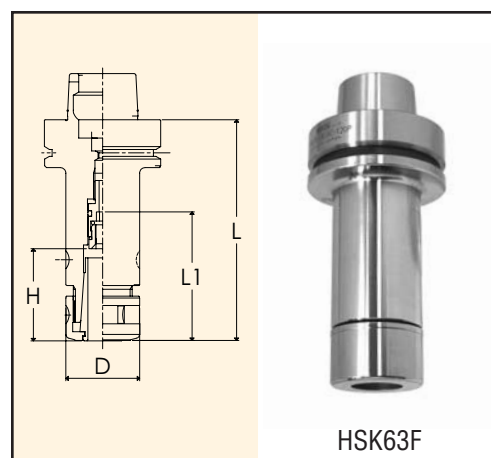
HSK100A High-Speed

Part Number	Collet Size 	Wrench 	L	L1	H	D	Back-up Screw
HSK100A-SK6C-105P	SK6	GH6	4.134"	2.637"	1.024" - 1.220"	0.768"	SKG6-6HG
HSK100A-SK10C-105P	SK10	GH10	4.134"	2.441"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-120P	SK10	GH10	4.724"	3.031"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-150P	SK10	GH10	5.906"	4.213"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK100A-SK10C-200P	SK10	GH10	7.874"	6.732"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK100A-SK16C-120P	SK16	GH16	4.724"	3.583"	1.771" - 2.047"	1.575"	SKG16-10HG
HSK100A-SK16C-150P	SK16	GH16	5.906"	3.740"	1.771" - 2.047"	1.575"	SKG16-12HG
HSK100A-SK16C-200P	SK16	GH16	7.874"	6.732"	1.771" - 2.047"	1.575"	SKG16-12HG
HSK100A-SK25C-145P	SK25	GH25	5.709"	4.567"	2.362" - 2.559"	2.165"	SKG25-18HGE





HSK32E and HSK40E High-Speed

Part Number	Collet Size 	Wrench 	L	L1	H	D	Back-up Screw
HSK32E-SK6-50P	SK6	GH6	1.969"	1.260"	1.024" - 1.142"	0.768"	SKG-5L
HSK32E-SK10-60P	SK10	GH10	2.362"	1.732"	1.142" - 1.417"	1.083"	SKG-6L
HSK40E-SK6-60P	SK6	GH6	2.362"	1.456"	1.024" - 1.142"	0.768"	SKG-5L
HSK40E-SK10-60P	SK10	GH10	2.362"	2.047"	1.142" - 1.417"	1.083"	SKG-6L
HSK40E-SK16-80P	SK16	GH16	3.149"	-	2.322"	1.575"	-



HSK63F High-Speed

Part Number	Collet Size 	Wrench 	L	L1	H	D	Back-up Screw
HSK63F-SK10C-105P	SK10	GH10	4.134"	2.913"	1.299" - 1.614"	1.083"	SKG10-10HG
HSK63F-SK16C-120P	SK16	GH16	4.724"	3.583"	2.637"	1.575"	SKG16-10HG

Note: Wrench and back-up screw not included.
Coolant tube and coolant tube wrench are sold separately. See page 210 for details.

Accessories:



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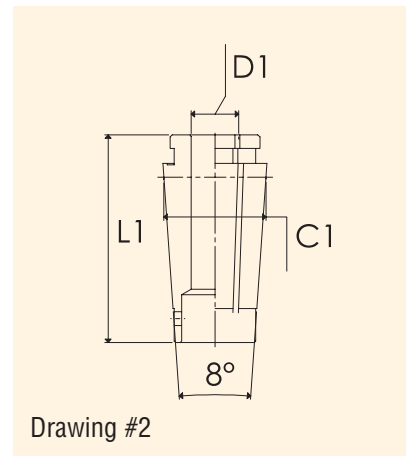
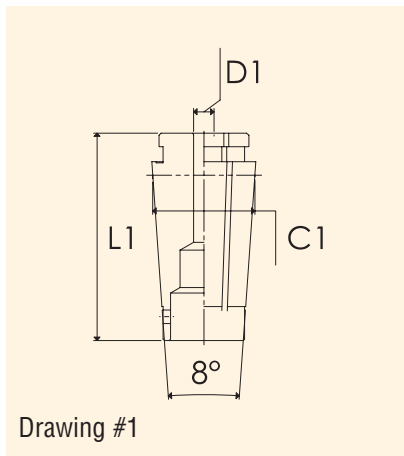


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SK6 Collets



Dimensional Data

Collet Series	C1	L1	Collet Range (D1)
SK6	0.39" (10mm)	0.96" (24.6mm)	0.027-0.23" (0.7-6.0mm)
SK10	0.59" (15mm)	1.20" (30.5mm)	0.06-0.39" (1.75-10.0mm)
SK16	0.94" (24mm)	1.77" (45mm)	0.10-0.62" (2.75-16.0mm)
SK25	1.37" (35mm)	2.24" (57mm)	0.62-1.0" (16.0-25.4mm)

SK6 Collets - Metric

Part Number	Collapse Range (mm)	Collapse Range (")	Drawing #	
SK6-0.8	0.7-0.8	0.027-0.031"	#1	
SK6-1	0.9-1.0	0.035-0.039"		
SK6-1.25	1.15-1.25	0.045-0.049"		
SK6-1.5	1.3-1.5	0.051-0.059"		
SK6-1.75	1.5-1.75	0.059-0.068"		
SK6-2	1.8-2.0	0.070-0.078"		
SK6-2.25	2.05-2.25	0.080-0.088"		
SK6-2.5	2.3-2.5	0.090-0.098"		
SK6-2.75	2.55-2.75	0.100-0.108"		
SK6-3	2.8-3.0	0.110-0.118"		
SK6-3.5	3.0-3.5	0.118-0.137"		#2
SK6-4	3.5-4.0	0.137-0.157"		
SK6-4.5	4.0-4.5	0.157-0.177"		
SK6-5	4.5-5.0	0.177-0.196"		
SK6-5.5	5.0-5.5	0.196-0.216"		
SK6-6	5.5-6.0	0.216-0.236"		
SK6-16S	16 Piece SK6 Collet Set - 0.7mm - 6.0mm			

SK6 Collets - Inch

Part Number	Size
SK6-1/8A	0.125"
SK6-3/16A	0.187"

These inch size collets do not collapse.

SK Collet Drill Chart available on page 229 in the Technical section.



SK6 Collet Rack

Part Number	Description
RACK-ER11/SK6	SK6 collet rack, 24 collets capacity

Accessories:



SK Collets
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Wrench
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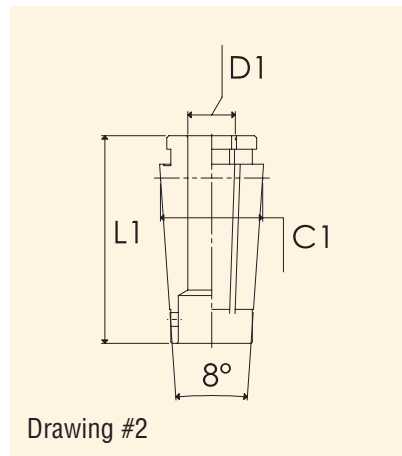
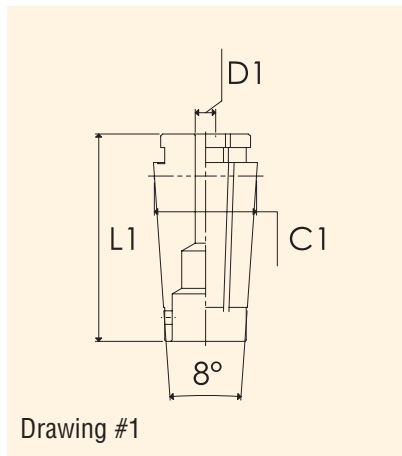


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Coolant-thru and
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SK10 Collets



See dimensional data for SK Collets on page 188

SK10 Collets - Metric

Part Number	Collapse Range (mm)	Collapse Range (")	Drawing	
SK10-2	1.75-2.0	0.068-0.078"	#1	
SK10-2.25	2.0-2.25	0.078-0.088"		
SK10-2.5	2.25-2.5	0.088-0.098"		
SK10-2.75	2.5-2.75	0.098-0.108"		
SK10-3	2.75-3.0	0.108-0.118"		
SK10-3.5	3.0-3.5	0.118-0.137"		
SK10-4	3.5-4.0	0.137-0.157"		
SK10-4.5	4.0-4.5	0.157-0.177"		
SK10-5	4.5-5.0	0.177-0.196"		#2
SK10-5.5	5.0-5.5	0.196-0.216"		
SK10-6	5.5-6.0	0.216-0.236"		
SK10-6.5	6.0-6.5	0.236-0.255"		
SK10-7	6.5-7.0	0.255-0.275"		
SK10-7.5	7.0-7.5	0.275-0.295"		
SK10-8	7.5-8.0	0.295-0.314"		
SK10-8.5	8.0-8.5	0.314-0.334"		
SK10-9	8.5-9.0	0.334-0.354"		
SK10-9.5	9.0-9.5	0.354-0.374"		
SK10-10	9.5-10.0	0.374-0.393"		
SK10-19S	19 Piece SK10 Collet Set - 1.75mm - 10.0mm			

SK10 Collets - Inch

Part Number	Size	Drawing
SK10-1/8A	0.125"	#2
SK10-3/16A	0.187"	
SK10-1/4A	0.25"	
SK10-5/16A	0.312"	
SK10-3/8A	0.375"	
SK10-05S	5 piece SK10 Collet Set 1/8 - 3/8" x16th	

These inch size collets do not collapse.

SK Collet Drill Chart available on page 229 in the Technical section.

SK10 Coolant Collets

Part Number	Size	Drawing
SK10-1/4AC	0.25"	#2
SK10-5/16AC	0.312"	
SK10-3/8AC	0.375"	
SK10-6AC	6mm	
SK10-7AC	7mm	
SK10-8AC	8mm	
SK10-9AC	9mm	
SK10-10AC	10mm	

Note: Cutter must be inserted to the full length of the collet.

SK10 Collet Rack

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



Accessories:



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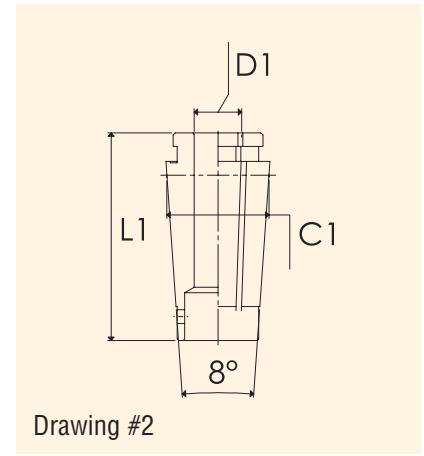
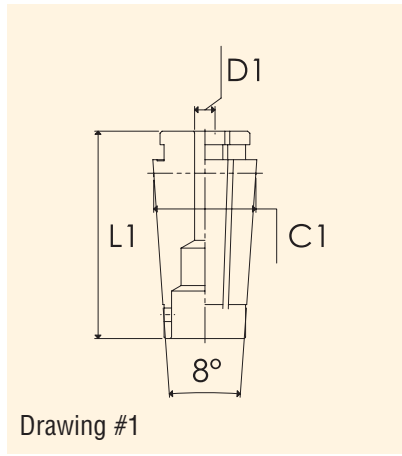


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SK16 Collets



See dimensional data for SK Collets on page 188

SK16 Collets - Metric

Part Number	Collapse Range (mm)	Collapse Range (")	Drawing
SK16-3	2.75-3.0	0.108-0.118"	#1
SK16-3.5	3.0-3.5	0.118-0.137"	
SK16-4	3.5-4.0	0.137-0.157"	
SK16-4.5	4.0-4.5	0.157-0.177"	
SK16-5	4.5-5.0	0.177-0.196"	
SK16-5.5	5.0-5.5	0.196-0.216"	
SK16-6	5.5-6.0	0.216-0.236"	
SK16-6.5	6.0-6.5	0.236-0.255"	
SK16-7	6.5-7.0	0.255-0.275"	
SK16-7.5	7.0-7.5	0.275-0.295"	
SK16-8	7.5-8.0	0.295-0.314"	
SK16-8.5	8.0-8.5	0.314-0.334"	
SK16-9	8.5-9.0	0.334-0.354"	
SK16-9.5	9.0-9.5	0.354-0.374"	
SK16-10	9.5-10.0	0.374-0.393"	
SK16-10.5	10.0-10.5	0.393-0.413"	
SK16-11	10.5-11.0	0.413-0.433"	
SK16-11.5	11.0-11.5	0.433-0.452"	
SK16-12	11.5-12.0	0.452-0.472"	
SK16-12.5	12.0-12.5	0.472-0.492"	
SK16-13	12.5-13.0	0.492-0.511"	
SK16-13.5	13.0-13.5	0.511-0.531"	
SK16-14	13.5-14.0	0.531-0.551"	
SK16-14.5	14.0-14.5	0.551-0.570"	
SK16-15	14.5-15.0	0.570-0.590"	
SK16-15.5	15.0-15.5	0.590-0.610"	
SK16-16	15.5-16.0	0.610-0.629"	

SK16-27S	27 Piece SK16 Collet Set - 2.75mm - 16.0mm
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SK16 Collets - Inch

Part Number	Size
SK16-1/8A	0.125"
SK16-3/16A	0.187"
SK16-1/4A	0.25"
SK16-5/16A	0.312"
SK16-3/8A	0.375"
SK16-7/16A	0.437"
SK16-1/2A	0.5"
SK16-9/16A	0.562"
SK16-5/8A	0.625"

SK16-09S	9 Piece SK16 Collet Set - 1/8 -5/8" X16th
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These inch size collets do not collapse.

SK Collet Drill Chart available on page 229 in the Technical section.



SK16 Collet Rack

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

Accessories:



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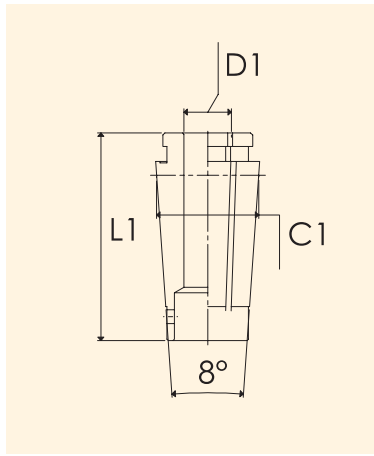


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SK25 Collets



See dimensional data for SK Collets on page 188

SK25 Collets - Metric

Part Number	Collapse Range (mm)	Collapse Range (")
SK25-16.5	16.0-16.5	0.629-0.649"
SK25-17	16.5-17.0	0.649-0.669"
SK25-17.5	17.0-17.5	0.669-0.688"
SK25-18	17.5-18.0	0.688-0.708"
SK25-18.5	18.0-18.5	0.708-0.728"
SK25-19	18.5-19.0	0.728-0.748"
SK25-19.5	19.0-19.5	0.748-0.767"
SK25-20	19.5-20.0	0.767-0.787"
SK25-20.5	20.0-20.5	0.787-0.807"
SK25-21	20.5-21.0	0.807-0.826"
SK25-21.5	21.0-21.5	0.826-0.846"
SK25-22	21.5-22.0	0.846-0.866"
SK25-22.5	22.0-22.5	0.866-0.885"
SK25-23	22.5-23.0	0.885-0.905"
SK25-23.5	23.0-23.5	0.905-0.925"
SK25-24	23.5-24.0	0.925-0.944"
SK25-24.5	24.0-24.5	0.944-0.964"
SK25-25	24.5-25.0	0.964-0.984"
SK25-25.4	25.0-25.4	0.984-0.1000"

SK25-19S	19 Piece SK25 Collet Set - 16.0mm - 25.4mm
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SK25 Collets - Inch

Part Number	Size
SK25-3/16A	0.187"
SK25-1/4A	0.25"
SK25-5/16A	0.312"
SK25-3/8A	0.375"
SK25-7/16A	0.437"
SK25-1/2A	0.5"
SK25-5/8A	0.625"
SK25-3/4A	0.75"

SK25-08S	8 Piece SK25 Collet Set - 3/16 - 3/4" X16th
----------	---

These inch size collets do not collapse.

SK Collet Drill Chart available on page 229 in the Technical section.

SK25 Collet Rack

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



Accessories:



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SK Coolant Collet System



Collet Chuck	Collet Series	Coolant Nut Part Number	High-Speed 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
SK6	SK6-range: 0.7-6.0mm [0.027-0.236"]	SKN-6WBJ	SKN-6WBJ(GH)	3mm	SKJ6-3C	SKJ6-3	SKJL-6	SKJ6-BLANK
				4mm	SKJ6-4C	SKJ6-4		
				5mm	SKJ6-5C	SKJ6-5		
				6mm	SKJ6-6C	SKJ6-6		
				1/8"	SKJ6-1/8C	SKJ6-1/8		
				3/16"	SKJ6-3/16C	SKJ6-3/16		
SK10	SK10-range: 1.75-10.0mm [0.068-0.393"]	SKN-10BJ	SKN-10BJ(GH)	3mm	SKJ10-3C	SKJ10-3	SKJL-10	SKJ10-BLANK
				4mm	SKJ10-4C	SKJ10-4		
				5mm	SKJ10-5C	SKJ10-5		
				6mm	SKJ10-6C	SKJ10-6		
				8mm	SKJ10-8C	SKJ10-8		
				10mm	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		
3/8"	SKJ10-3/8C	SKJ10-3/8						
SK16	SK16-range: 2.75-16.0mm [0.108-0.629"]	SKN-16BJ	SKN-16BJ(GH)	6mm	SKJ16-6C	SKJ16-6	SKJL-16	SKJ16-BLANK
				8mm	SKJ16-8C	SKJ16-8		
				10mm	SKJ16-10C	SKJ16-10		
				12mm	SKJ16-12C	SKJ16-12		
				16mm	SKJ16-16C	SKJ16-16		
				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		
9/16"	SKJ16-9/16C	SKJ16-9/16						
5/8"	SKJ16-5/8C	SKJ16-5/8						
SK25	SK25-range: 16.0-25.4mm [0.629-0.1000"]	SKN-25BJ	SKN-25BJ(GH)	16mm	SKJ25-16C	SKJ25-16	SKJL-25	SKJ25-BLANK
				20mm	SKJ25-20C	SKJ25-20		
				25mm	SKJ25-25C	SKJ25-25		
				5/8"	SKJ25-5/8C	SKJ25-5/8		
				11/16"	SKJ25-11/16C	SKJ25-11/16		
				3/4"	SKJ25-3/4C	SKJ25-3/4		
				13/16"	SKJ25-13/16C	SKJ25-13/16		
				7/8"	SKJ25-7/8C	SKJ25-7/8		
				15/16"	SKJ25-15/16C	SKJ25-15/16		
1"	SKJ25-1C	SKJ25-1						

Note: Coolant-Thru Disk and Slotted Disk must be ordered on size for the cutting tool.
When using the Coolant Nut, add 6mm (0.236") to the toolholder gage length.
Assembly of the Coolant Nut and Disk is easily accomplished with the Disk Wrench (sold separately).

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-6WB	Nut for SK6 Collet Chuck
SKN-10B	Nut for SK10 Collet Chuck
SKN-16B	Nut for SK16 Collet Chuck
SKN-25B	Nut for SK25 Collet Chuck



• High-Speed Style

Part Number	Description
SKN-6WB (GH)	Nut for SK6 High-Speed Collet Chuck
SKN-10B (GH)	Nut for SK10 High-Speed Collet Chuck
SKN-16B (GH)	Nut for SK16 High-Speed Collet Chuck
SKN-25B (GH)	Nut for SK25 High-Speed 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
9HC16	GH16	Wrench for SK16 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-150	Torque wrench for SK10/16/25 Collet Chuck Nut
TQW-SK06(18)	SK6 attachment for TQW-025 torque wrench
TQW-SK10(1)	SK10 attachment for TQW-150 torque wrench
TQW-SK16(43)	SK16 attachment for TQW-150 torque wrench
TQW-SK25(60)	SK25 attachment for TQW-150 torque wrench



See the torque wrenches specifications and details on page 222.

Back Up Screws

For Standard SK Collet Chuck

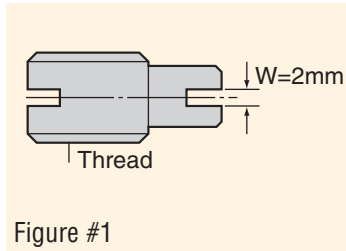


Figure #1

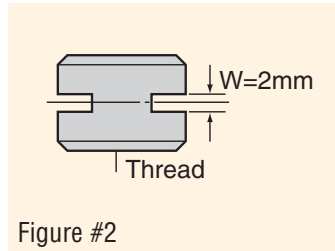


Figure #2

For DIN and Coolant-Thru SK Collet Chuck

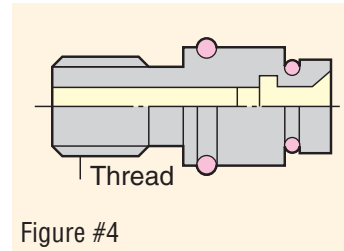


Figure #4

Collet Chuck Type	Part Number	Thread	Figure #
SK6	SKG-8	M8	#1
SK10	SKG-12L	M12	#1
SK16	SKG-18L	M12/M18 P1.5	#1
SK25	SKG-28	M12/M28 P2.0	#1

***Exceptions:**

Collet Chuck Type	Part Number	Thread	Figure #
BT30-SK10-45	SKG-12S	M12	#2
BT30-SK16-90	SKG-12S	M12/M18 P1.5	#2
BT30-SK16-60	SKG-12L	M12/M18 P1.5	#1
BT40-SK16-60	SKG-18S	M12/M18 P1.5	#2
BT30-SK25-90	SKG-12	M12/M28 P2.0	#2
BT40-SK25-75			

Coolant-Thru Back-Up Screw

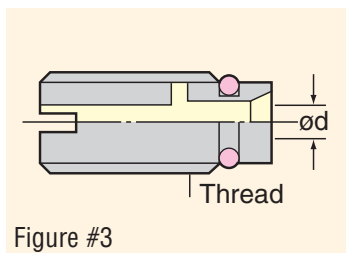


Figure #3

Collet Chuck Type	Part No.	Cutter Shank	d	Thread
SK10	SKG-12HA	4mm	ø2.5mm	M12
	SKG-12H	6mm	ø4mm	
SK16	SKG-18HA	5mm	ø3.5mm	M12/M18 P1.5
	SKG-18H	10mm	ø10mm	
SK25	SKG-28H	16mm	ø12mm	M12/M28 P2.0

***Exceptions:**

Collet Chuck Type	Part No.	Cutter Shank	d	Thread
BT30-SK16-60, -90	SKG-12HA	4mm	ø2.5mm	M12/M18 P1.5
	SKG-12H	6mm	ø4mm	
BT30-SK25-90	SKG-12HA	4mm	ø2.5mm	M12/M28 P2.0
BT40-SK25-75	SKG-12H	6mm	ø4mm	

Collet Chuck Type	Part Number	Cutter Shank	Thread
SK6-...C, ...F	SKG6-6HG	4mm	M8
SK10...C, ...F	SKG10-10HGA	4mm	M12
	SKG10-10HG	6mm	
SK16...C, ...F	SKG16-12HGA	5mm	M12/M18 P1.5
	SKG16-12HG	10mm	
SK25...C, ...F	SKG25-24HG	16mm	M12/M28 P2.0

***Exceptions:**

Collet Chuck Type	Part Number	Cutter Shank	Thread
BT40-SK16F-90	SKG16-12HGBA SKG16-12GB	5mm 10mm	M12/M18 P1.5
HSK50A-SK16C-120 HSK63A-SK16C-120	SKG16-10HGA	5mm	M12/M18 P1.5
HSK100A-SK16C-120			
NC5-46-SK16C-90 NC5-46-SK16C-120	SKG16-10HG	10mm	
BT40-SK25F-120 BT50-SK25F-105	SKG25-24HGA	16mm	M12/M28 P2.0
BT40-SK25F-90	SKG25-18HGC		
BT40-SK25C-90			
NC5-63-SK25C-135 NC5-85-SK25C-135	SKG25-18HGD		
HSK63A-SK25C-135 HSK100A-SK25C-145	SKG25-18HGE		

Note: The back-up screw for the high-speed slim chuck (-P type) is identical for the standard slim chuck.



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks



Current Promotion

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Featured Video

VC Collet Chuck Features

ULTRA PERFORMANCE

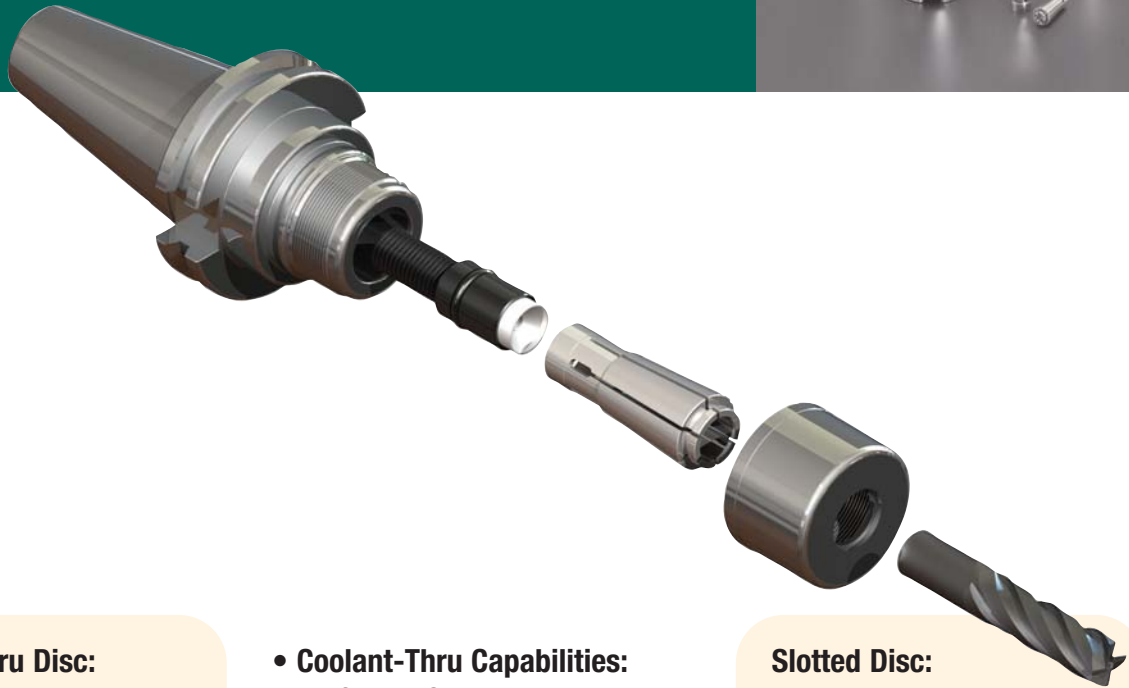
Extremely precise: 0.00012" or less concentricity guarantee with any collet

Extremely efficient: ideal for high-speed machining, thread milling, ultra precision reaming

Flexible: covers sizes from 0.079" to 0.5"

Extremely accurate: twice more accurate than a ER collet chuck, with 10 times better repeatability

8° versus 16° collet taper: twice more gripping power than 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



Discs and wrench for SK10 and SK16 type can be used for VC6 and VC13 type respectively.

Slotted Disc:

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



VC Collet Chuck Features

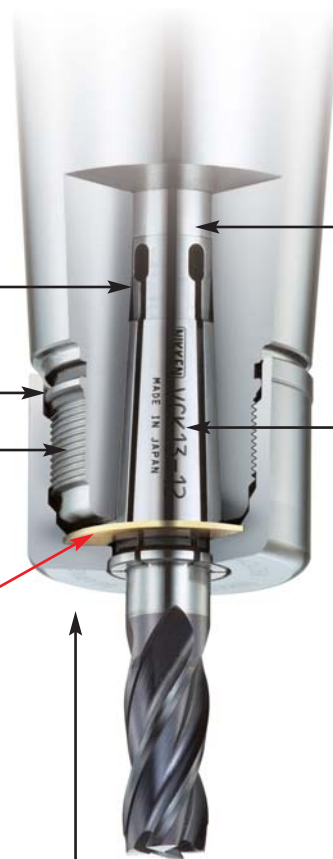
Symmetrical and simple external design without notch for ultra high speed rotation

8° internal taper collet for greater accuracy and clamping capability

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

TiN BEARING NUT
(Hardness: HV2,200)
US Patent 6923451

Collet compression force is perpendicular to the centerline of collet bore maximizing run out accuracy



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

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

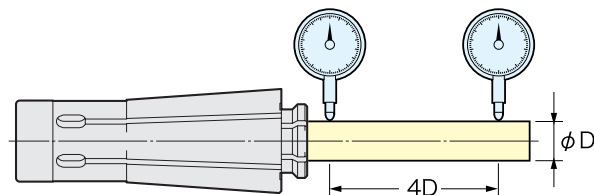
Extended Collet to minimize runout and to increase surface area contact of tooling

Easy, safe and reliable handling with GH wrench (see page 204)



High Runout Accuracy:

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



VC Collet Range:



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

VC Collet vs. Others:



VCK Collet

- Runout: 0.00012"
- 170N.m gripping power



ER Collet

- Runout: 0.0001"
- 80N.m gripping power










TG Collet

- Runout: 0.0003"
- 100N.m gripping power

CAT VC Collet Chucks

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

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

	TIR: 0.00012 or better		Drilling ★★★★☆
	Speed: up to 40,000 rpm		Milling ★★★★☆
	Set-up: quick and easy to operate		Reaming ★★★★☆
	Coolant-thru: thru tool coolant		

CAT40

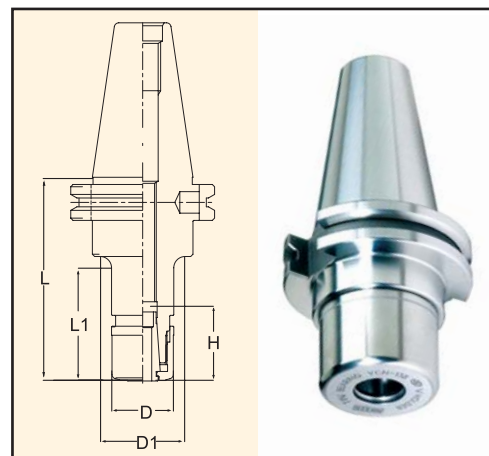
Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
CAT40-VC6-60U	VCK6	GH10	2.362"	0.906"	1.378"-1.772"	1.083"	1.083"	VCG6-8A
CAT40-VC6-90U	VCK6	GH10	3.543"	2.047"	1.378"-1.772"	1.083"	1.244"	VCG6-8A
CAT40-VC6-120U	VCK6	GH10	4.724"	3.228"	1.378"-1.772"	1.083"	1.409"	VCG6-8A
CAT40-VC13-60U	VCK13	GH16	2.362"	1.142"	1.969"-2.362"	1.575"	1.575"	VCG13-15A
CAT40-VC13-90U	VCK13	GH16	3.543"	2.756"	1.969"-2.362"	1.575"	1.083"	VCG13-15A
CAT40-VC13-120U	VCK13	GH16	4.724"	3.937"	1.969"-2.362"	1.575"	1.083"	VCG13-15A

Note:wrench sold separately.

CAT50

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
CAT50-VC6-105U	VCK6	GH10	4.134"	2.559"	1.378"-1.772"	1.083"	1.315"	VCG6-8A
CAT50-VC6-135U	VCK6	GH10	5.315"	3.740"	1.378"-1.772"	1.083"	1.480"	VCG6-8A
CAT50-VC6-165U	VCK6	GH10	6.496"	4.921"	1.378"-1.772"	1.083"	1.646"	VCG6-8A
CAT50-VC13-105U	VCK13	GH16	4.134"	2.559"	1.969"-2.362"	1.575"	1.772"	VCG13-15A
CAT50-VC13-135U	VCK13	GH16	5.315"	3.740"	1.969"-2.362"	1.575"	1.937"	VCG13-15A
CAT50-VC13-165U	VCK13	GH16	6.496"	4.921"	1.969"-2.362"	1.575"	2.102"	VCG13-15A

Note:wrench sold separately.



3-Lock VC Collet Chucks for Dual Contact Spindle

3-Lock VC Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



VCK Collets
Page 202



Nut Wrench
Page 204



Back-up screw
Page 204



Coolant-thru nut
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BT VC Collet Chucks

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

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



TIR: 0.00012 or better



Drilling
★★★★☆



Speed: up to 40,000 rpm



Milling
★★★★☆



Set-up: quick and easy to operate



Reaming
★★★★☆



Coolant-thru: thru tool coolant

BT30

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
BT30-VC6-45	VCK6	GH10	1.772"	0.906"	1.38"-1.77"	1.083"	1.083"	VCG6-8A
BT30-VC6-60	VCK6	GH10	2.362"	1.378"	1.38"-1.77"	1.083"	1.248"	VCG6-8A
BT30-VC6-90	VCK6	GH10	3.543"	2.559"	1.38"-1.77"	1.083"	1.315"	VCG6-8A
BT30-VC13-60	VCK13	GH16	2.362"	1.457"	1.97"-2.36"	1.575"	1.618"	VCG13-15A
BT30-VC13-90	VCK13	GH16	3.543"	2.638"	1.97"-2.36"	1.575"	1.626"	VCG13-15A
BT30-VC13-120	VCK13	GH16	4.724"	3.819"	1.97"-2.36"	1.575"	1.669"	VCG13-15A

Note: wrench sold separately.

BT40

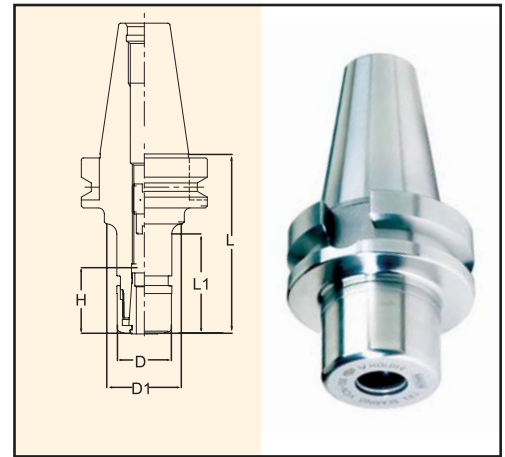
Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
BT40-VC6-60	VCK6	GH10	2.362"	1.181"	1.38"-1.77"	1.083"	1.181"	VCG6-8A
BT40-VC6-90	VCK6	GH10	3.543"	2.362"	1.38"-1.77"	1.083"	1.287"	VCG6-8A
BT40-VC6-120	VCK6	GH10	4.724"	3.543"	1.38"-1.77"	1.083"	1.452"	VCG6-8A
BT40-VC13-60	VCK13	GH16	2.362"	1.220"	1.97"-2.36"	1.575"	1.586"	VCG13-15A
BT40-VC13-90	VCK13	GH16	3.543"	2.362"	1.97"-2.36"	1.575"	1.744"	VCG13-15A
BT40-VC13-120	VCK13	GH16	4.724"	3.543"	1.97"-2.36"	1.575"	1.909"	VCG13-15A

Note: wrench sold separately.

BT50

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
BT50-VC6-105	VCK6	GH10	4.134"	2.441"	1.38"-1.77"	1.083"	1.299"	VCG6-8A
BT50-VC6-135	VCK6	GH10	5.315"	3.622"	1.38"-1.77"	1.083"	1.461"	VCG6-8A
BT50-VC6-165	VCK6	GH10	6.496"	4.803"	1.38"-1.77"	1.083"	1.626"	VCG6-8A
BT50-VC13-105	VCK13	GH16	4.134"	2.441"	1.97"-2.36"	1.575"	1.756"	VCG13-15A
BT50-VC13-135	VCK13	GH16	5.315"	3.622"	1.97"-2.36"	1.575"	1.921"	VCG13-15A
BT50-VC13-165	VCK13	GH16	6.496"	4.803"	1.97"-2.36"	1.575"	1.890"	VCG13-15A

Note: wrench sold separately.



3-Lock VC Collet Chucks for Dual Contact Spindle

3-Lock VC Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



VCK Collets
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Nut Wrench
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Back-up screw
Page 204



Coolant-thru nut
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HSK VC Collet Chucks

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

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



TIR: 0.00012 or better



Speed: up to 40,000 rpm



Set-up: quick and easy to operate



Coolant-thru: thru tool coolant



Drilling
★★★★☆



Milling
★★★★☆

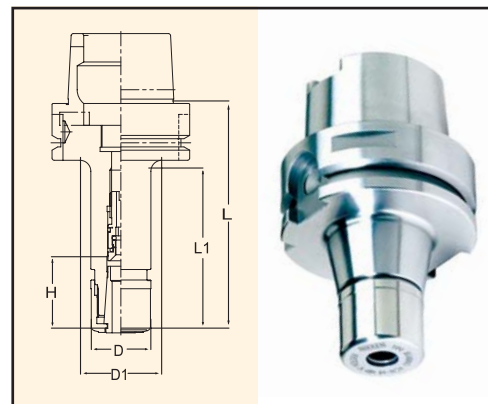


Reaming
★★★★☆

HSK40A

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
HSK40A-VC6-65	VCK6	GH10	2.559"	1.693"	1.38"-1.77"	1.083"	1.362"	VCG6-8A
HSK40A-VC6-90	VCK6	GH10	3.543"	2.677"	1.38"-1.77"	1.083"	1.330"	VCG6-8A
HSK40A-VC13-90	VCK13	GH16	3.543"	2.756"	1.97"-2.36"	1.575"	1.575"	VCG13-15A
HSK40A-VC13-120	VCK13	GH16	4.724"	3.937"	1.97"-2.36"	1.575"	1.575"	VCG13-15A

Note: wrench, coolant tubes and coolant tube wrenches are sold separately. See page 204 for more details.



HSK63A

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
HSK63A-VC6-70	VCK6	GH10	2.76"	1.614"	1.38"-1.77"	1.083"	1.330"	VCG6-8A
HSK63A-VC6-90	VCK6	GH10	2.54"	2.402"	1.38"-1.77"	1.083"	1.291"	VCG6-8A
HSK63A-VC6-120	VCK6	GH10	4.724"	3.583"	1.38"-1.77"	1.083"	1.457"	VCG6-8A
HSK63A-VC13-90	VCK13	GH16	3.543"	2.520"	1.97"-2.36"	1.575"	1.752"	VCG13-15A
HSK63A-VC13-120	VCK13	GH16	4.724"	3.622"	1.97"-2.36"	1.575"	1.921"	VCG13-15A

Note: wrench, coolant tubes and coolant tube wrenches are sold separately. See page 204 for more details.

HSK100A

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
HSK100A-VC6-105	VCK6	GH10	4.134"	2.795"	1.38"-1.77"	1.083"	1.346"	VCG6-8A
HSK100A-VC6-135	VCK6	GH10	5.315"	3.976"	1.38"-1.77"	1.083"	1.512"	VCG6-8A
HSK100A-VC6-165	VCK6	GH10	6.496"	5.157"	1.38"-1.77"	1.083"	1.677"	VCG6-8A
HSK100A-VC13-105	VCK13	GH16	4.134"	2.795"	1.97"-2.36"	1.575"	1.807"	VCG13-15A
HSK100A-VC13-135	VCK13	GH16	5.315"	3.976"	1.97"-2.36"	1.575"	1.972"	VCG13-15A
HSK100A-VC13-165	VCK13	GH16	6.496"	5.157"	1.97"-2.36"	1.575"	2.138"	VCG13-15A

Note: wrench, coolant tubes and coolant tube wrenches are sold separately. See page 204 for more details.

Accessories:



VCK Collets
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Nut Wrench
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Back-up screw
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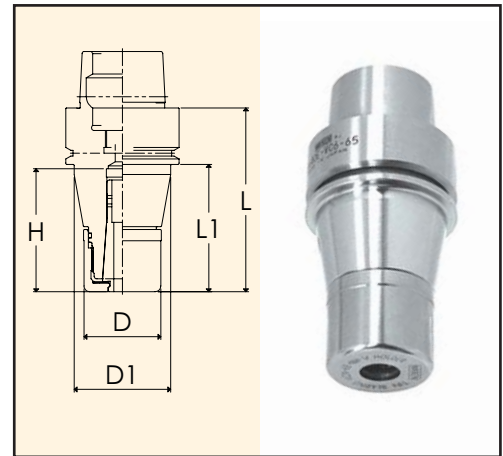
Coolant-thru nut
Page 204

HSK VC Collet Chucks

HSK40E

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
HSK40E-VC6-65	VCK6	GH10	2.559"	1.693"	-	1.083"	1.362"	VCG6-8A
HSK40E-VC6-90	VCK6	GH10	3.543"	2.677"	1.38"-1.77"	1.083"	1.330"	VCG6-8A
HSK40E-VC13-90	VCK13	GH16	3.543"	2.756"	1.97"-2.36"	1.575"	1.575"	VCG13-15A
HSK40E-VC13-120	VCK13	GH16	4.724"	3.937"	1.97"-2.36"	1.575"	1.575"	VCG13-15A

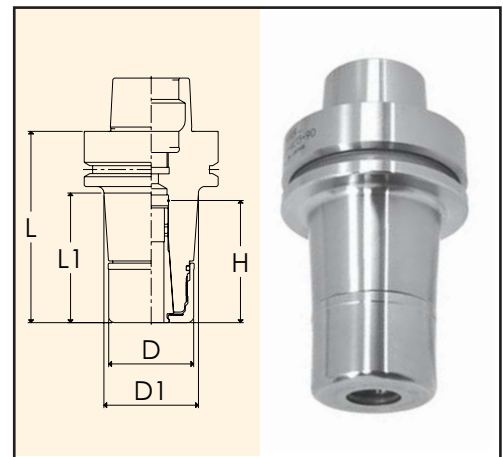
Note: wrench, coolant tubes and coolant tube wrenches are sold separately.
See page 204 for more details.



HSK63F

Part Number	Collet Size	Wrench	L	L1	H	D	D1	Back-up Screw
HSK63F-VC6-65	VCK6	GH10	2.559"	1.457"	1.38"-1.77"	1.083"	1.083"	VCG6-8A
HSK63F-VC6-90	VCK6	GH10	3.543"	2.402"	1.38"-1.77"	1.083"	1.205"	VCG6-8A
HSK63F-VC6-120	VCK6	GH10	4.724"	3.583"	1.38"-1.77"	1.083"	1.370"	VCG6-8A
HSK63F-VC13-90	VCK13	GH16	3.543"	2.520"	1.97"-2.36"	1.575"	1.670"	VCG13-15A
HSK63F-VC13-120	VCK13	GH16	4.724"	3.622"	1.97"-2.36"	1.575"	1.835"	VCG13-15A

Note: wrench, coolant tubes and coolant tube wrenches are sold separately.
See page 204 for more details.



Accessories:



VCK Collets
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Nut Wrench
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Back-up screw
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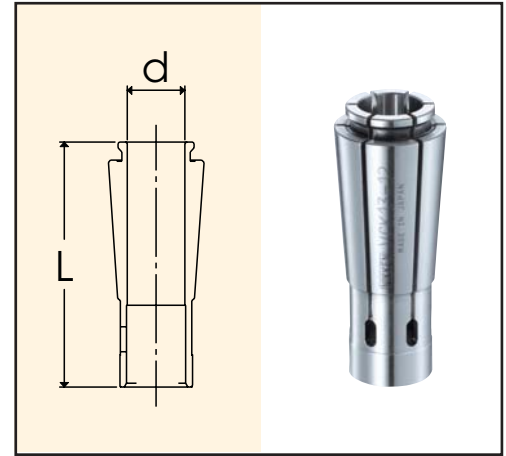


Coolant-thru nut
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VCK Collets

Dimensional Data

Collet Series	D	L	Collet Range
VCK6	0.55" (14mm)	1.56" (39.8mm)	1/8" - 1/4" (2mm-6mm)
VCK13	0.82" (21mm)	2.12" (54mm)	1/8" - 1/2" (3mm-12mm)



These collets do not collapse.

INCH			METRIC	
Collet series	Size	Part Number	Size	Part Number
VCK6	1/8"	VCK6-1/8	2.0mm	VCK6-2
	3/16"	VCK6-3/16	3.0mm	VCK6-3
	1/4"	VCK6-1/4	4.0mm	VCK6-4
VCK13	5/16"	VCK13-5/16	5.0mm	VCK6-5
	3/8"	VCK13-3/8	6.0mm	VCK6-6
	7/16"	VCK13-7/16	3.0mm	VCK13-3
	1/2"	VCK13-1/2	4.0mm	VCK13-4
			5.0mm	VCK13-5
			6.0mm	VCK13-6
			7.0mm	VCK13-7
			8.0mm	VCK13-8
			9.0mm	VCK13-9
			10.0mm	VCK13-10
			11.0mm	VCK13-11
			12.0mm	VCK13-12

Accessories:



VCK Collets
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Nut Wrench
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Back-up screw
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Coolant-thru nut
Page 204

VC Coolant 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
VC6	VCK6- range: 2 -6mm [1/8" - 1/4"]	VCN-6BJ	2mm	-	-	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		
VC13	VCK13- range: 3 -12mm [1/8" - 1/2"]	VCN-13BJ	3mm	-	-	SKJL-16	SKJ16-BLANK
			4mm	-	-		
			5mm	-	-		
			6mm	SKJ16-6C	SKJ16-6		
			7mm	-	-		
			8mm	SKJ16-8C-	SKJ16-8		
			10mm	SKJ16-10C	SKJ16-10		
		12mm	SKJ16-12C	SKJ16-12			
		1/8"	-	-			
		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					

Note: Coolant-Thru Disk and Slotted Disk must be ordered on size for the cutting tool.
When using the Coolant Nut, add 6mm (0.236") to the toolholder gage length.
Assembly of the Coolant Nut and Disk is easily accomplished with the Disk Wrench (sold separately).

VC Collet Chucks Accessories

VC Back-up Screw (coolant-thru)

Part Number	Description
VCG6-8A	use with VC6 chucks
VCG13-15A	use with VC13 chucks



VC Nut

Part Number	Description
VCN-6B	standard nut for VC6 chucks
VCN-6BJ	J type coolant nut for VC6 chucks
VCN-13B	standard nut for VC13 chucks
VCN-13BJ	J type coolant nut for VC13 chucks



VC Nut Wrench

Part Number	Description
GH10	VC6 chuck wrench
GH16	VC13 chuck wrench



Coolant Tube Wrench

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

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



Coolant Tube

Part Number	Description
HSK63-TUBE	Coolant tube for HSK63 holders
HSK40-TUBE	Coolant tube for HSK40 holders
HSK100-TUBE	Coolant tube for HSK100 holders





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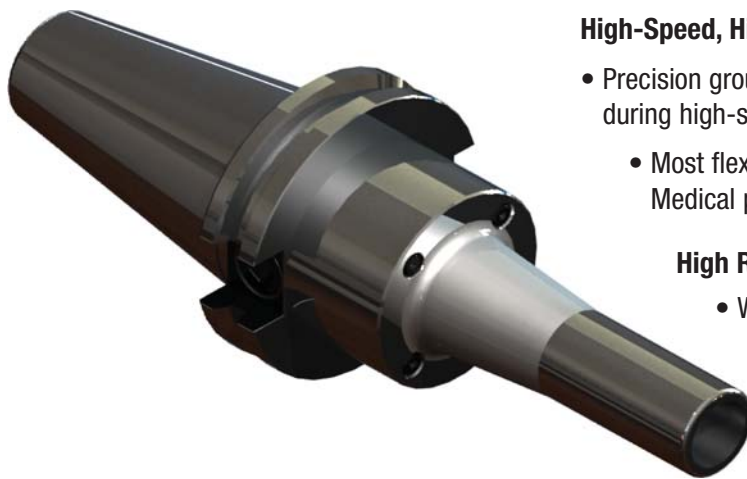


Featured Video

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.



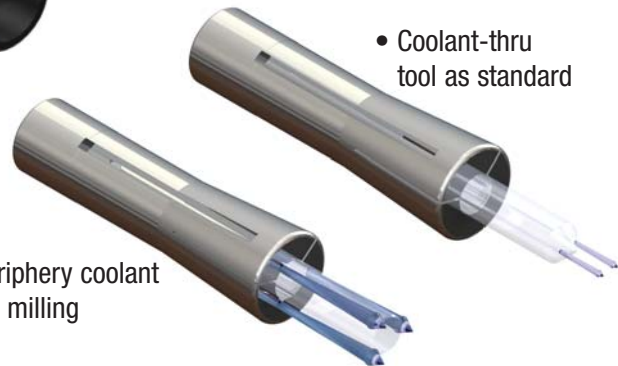
High-Speed, High-Precision: Max. 30,000 RPM (balanced at G2.5)

- Precision ground and pre-balanced, ensuring accuracy and reliability 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:



- Coolant-thru tool as standard

- Periphery coolant for milling

Easy-to-use draw-in collet clamping mechanism: clamp/unclamp just with a wrench!

Standard type Mini-Mini Collet Chuck

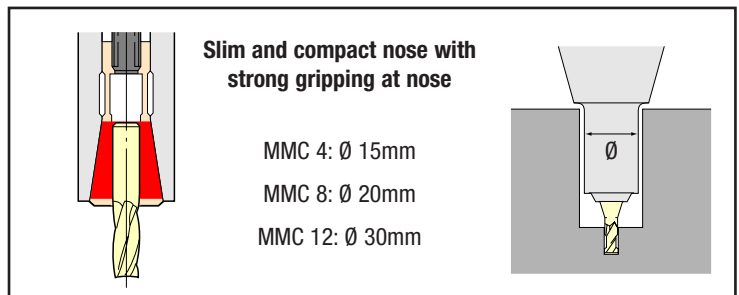


"A" type Mini-Mini Collet Chuck



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.



Slim and compact nose with strong gripping at nose

- MMC 4: Ø 15mm
- MMC 8: Ø 20mm
- MMC 12: Ø 30mm

CAT MMC Collet Chucks

- No nut required. Slim, compact nose and front clamping allow 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

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



TIR: 0.00012 or better



Speed: up to 30,000 rpm



Set-up: quick and easy to operate



Coolant-thru: thru tool coolant



Drilling
★★★★☆



Milling
★★★★☆



Reaming
★★★★☆

CAT40/50

Part Number	Taper	Coolant-thru	Collet Series	Wrench	L	L1	D
CAT40-MMC4-90U	CT40	-	MPK4	Wrench-ALLEN6	3.543"	1.181"	0.591"
CAT40-MMC8C-85U-A	CT40	yes	VMK8	Wrench-THEX5	3.287"	1.476"	0.787"
CAT40-MMC8C-90U	CT40	yes	VMK8	Wrench-ALLEN6	3.543"	1.299"	0.787"
CAT40-MMC8C-125U-A	CT40	yes	VMK8	Wrench-ALLEN6	4.92"	1.574"	0.787"
CAT40-MMC8C-120U	CT40	yes	VMK8	Wrench-ALLEN6	4.724"	1.574"	0.787"
CAT40-MMC12C-90U	CT40	yes	VMK12	Wrench-ALLEN6	3.543"	1.378"	1.181"
CAT40-MMC12C-120U	CT40	yes	VMK12	Wrench-ALLEN6	4.724"	2.362"	1.181"
CAT50-MMC4-105U	CT50	-	MPK4	Wrench-ALLEN6	4.134"	1.181"	0.591"
CAT50-MMC8C-105U	CT50	yes	VMK8	Wrench-ALLEN6	4.134"	1.299"	0.787"
CAT50-MMC8C-135U	CT50	yes	VMK8	Wrench-ALLEN6	5.315"	1.574"	0.787"
CAT50-MMC8C-165U	CT50	yes	VMK8	Wrench-ALLEN6	6.496"	1.574"	0.787"
CAT50-MMC12C-105U	CT50	yes	VMK12	Wrench-ALLEN6	4.134"	1.378"	1.181"
CAT50-MMC12C-135U	CT50	yes	VMK12	Wrench-ALLEN6	5.315"	2.362"	1.181"
CAT50-MMC12C-165U	CT50	yes	VMK12	Wrench-ALLEN6	6.496"	2.756"	1.181"

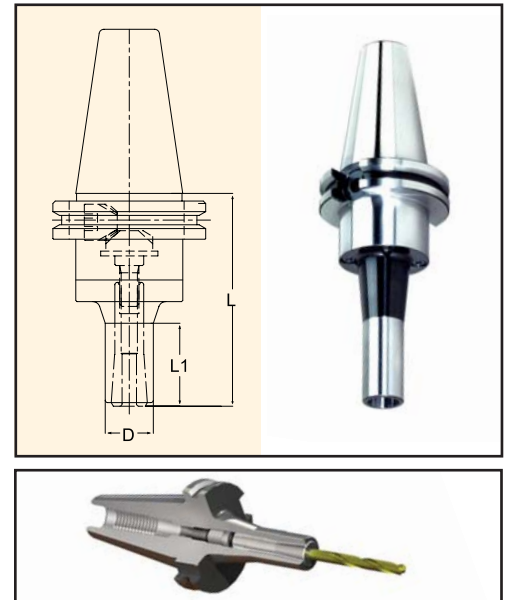
Note: wrench included with holder except for CAT40-MMC8C-85U-A.



Wrench-THEX5



Wrench-ALLEN6



A Style MMC Chuck

3-Lock MMC Collet Chucks for Dual Contact Spindle

3-Lock MMC Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



MPK and VMK Collets
Page 210



Tool Jaw
Page 212



Pull Stud
Pages 139-140

BT MMC Collet Chucks

- No nut required. Slim, compact nose and front clamping allow 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

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



TIR: 0.00012 or better



Speed: up to 30,000 rpm



Set-up: quick and easy to operate



Coolant-thru: thru tool coolant



Drilling
★★★★☆




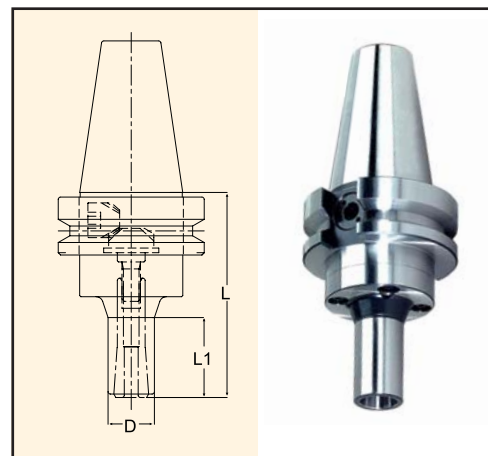
Milling
★★★★☆



Reaming
★★★★☆

BT30/40/50

Part Number	Taper	Coolant-thru	Collet Series 	Wrench	L	L1	D
BT30-MMC4-105	BT30	-	MPK4	Wrench-ALLEN6	4.134"	1.181"	0.591"
BT30-MMC8C-75-A	BT30	yes	VMK8	Wrench-THEX5	2.893"	1.476"	0.787"
BT30-MMC8-105	BT30	-	VMK8	Wrench-ALLEN6	4.134"	1.417"	0.787"
BT30-MMC12-105	BT30	-	VMK12	Wrench-ALLEN6	4.134"	1.378"	1.181"
BT40-MMC4-90	BT40	-	MPK4	Wrench-ALLEN6	3.543"	1.181"	0.591"
BT40-MMC8C-90	BT40	yes	VMK8	Wrench-ALLEN6	3.543"	1.417"	0.787"
BT40-MMC8C-120	BT40	yes	VMK8	Wrench-ALLEN6	4.724"	1.693"	0.787"
BT40-MMC12C-90	BT40	yes	VMK12	Wrench-ALLEN6	3.543"	1.378"	1.181"
BT40-MMC12C-120	BT40	yes	VMK12	Wrench-ALLEN6	4.724"	2.362"	1.181"
BT50-MMC4-105	BT50	-	MPK4	Wrench-ALLEN6	4.134"	1.181"	0.591"
BT50-MMC8C-105	BT50	yes	VMK8	Wrench-ALLEN6	4.134"	1.417"	0.787"
BT50-MMC8C-135	BT50	yes	VMK8	Wrench-ALLEN6	5.315"	1.693"	0.787"
BT50-MMC8C-165	BT50	yes	VMK8	Wrench-ALLEN6	6.496"	1.693"	0.787"
BT50-MMC12C-105	BT50	yes	VMK12	Wrench-ALLEN6	4.134"	1.378"	1.181"
BT50-MMC12C-135	BT50	yes	VMK12	Wrench-ALLEN6	5.315"	2.362"	1.181"
BT50-MMC12C-165	BT50	yes	VMK12	Wrench-ALLEN6	6.496"	2.756"	1.181"



A Style MMC Chuck

Note: wrench included with holder except for BT-30-MMC8C-75-A.



Wrench-THEX5



Wrench-ALLEN6

3-Lock MMC Collet Chucks for Dual Contact Spindle

3-Lock MMC Collet Chucks are available from stock and feature Nikken unique Triple Contact System. Please refer to page 239 in our technical section to learn more about Nikken's revolutionary 3-Lock System and tooling line.

For a complete list of part numbers and pricing, please contact our office at (800) 543-6237



Accessories:



MPK and VMK Collets
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Pull Stud
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HSK and Straight Shank MMC Collet Chucks

- No nut required. Slim, compact nose and front clamping allow 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

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



TIR: 0.00012 or better



Speed: up to 30,000 rpm



Set-up: quick and easy to operate



Coolant-thru: thru tool coolant



Drilling
★☆☆☆☆



Milling
★★★★☆

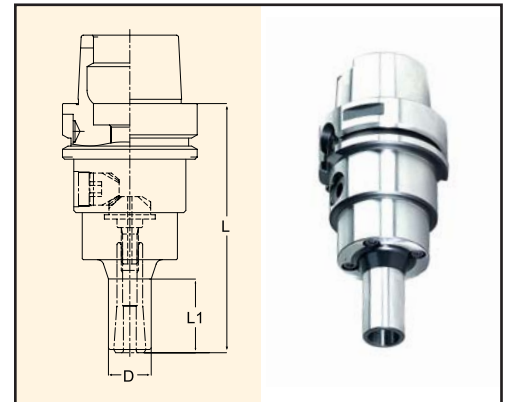


Reaming
★★★★☆

HSK63A/100A

Part Number	Coolant-thru	Collet Series	Wrench	L	L1	D
HSK63A-MMC8C-107-A*	yes	VMK8	Wrench-THEX5	4.153"	1.476"	0.787"
HSK63A-MMC8C-115	yes	VMK8	Wrench-ALLEN6	4.528"	1.299"	0.787"
HSK63A-MMC12C-110-A*	yes	VMK12	Wrench-THEX6	4.331"	1.417"	1.181"
HSK63A-MMC12C-117	yes	VMK12	Wrench-ALLEN6	4.606"	1.417"	1.181"
HSK100A-MMC8C-130	yes	VMK8	Wrench-ALLEN6	5.118"	1.299"	0.787"
HSK100A-MMC12C-130	yes	VMK12	Wrench-ALLEN6	5.118"	1.417"	1.181"

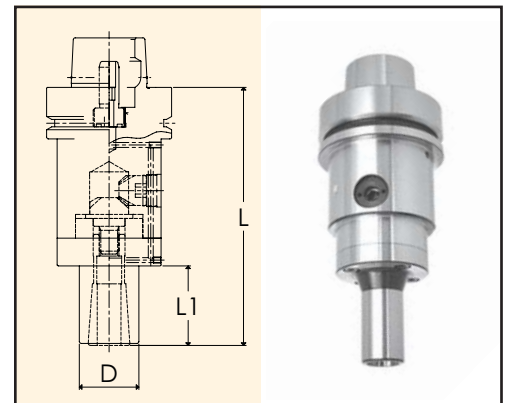
Note: wrench included with holder except for A type holders. Coolant tube and coolant tube wrench are sold separately. *"A"denotes collet is drawn directly from the rear of the holder by a bolt.



HSK63F

Part Number	Coolant-thru	Collet Series	Wrench	L	L1	D
HSK63F-MMC8C-127	yes	VMK8	Wrench-ALLEN6	5.000"	1.299"	0.787"
HSK63F-MMC12C-129	yes	VMK12	Wrench-ALLEN6	5.078"	1.417"	1.181"

Note: wrench included with holder. Coolant tube and coolant tube wrench are sold separately.



Straight Shank

Part Number	Coolant-thru	Collet Series	Wrench	L	L1	L2	D
K3/4-MMC8C-100	yes	VMK8	Wrench-ALLEN6	3.937"	0.787"	3.149"	0.787"
K1.1/4-MMC8C-122	yes	VMK8	Wrench-ALLEN6	4.803"	1.574"	2.637"	0.787"
K1.1/4-MMC8C-160	yes	VMK8	Wrench-ALLEN6	6.299"	1.574"	2.637"	0.787"

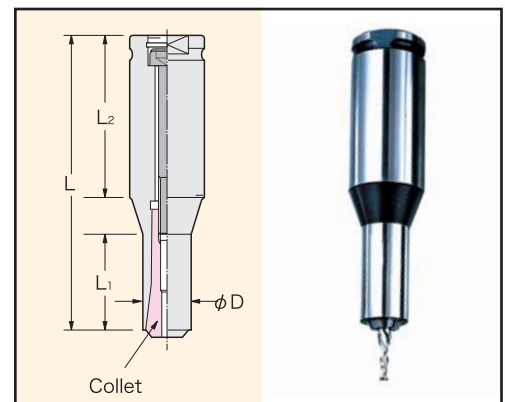
Note: wrench included with holder.



Wrench-THEX5
Wrench-THEX6



Wrench-ALLEN6



Accessories:



MPK and VMK Collets
Page 210



HSK Coolant Tube
Page 210



HSK Coolant Tube Wrench
Page 210

MMC Collets

These collets do not collapse.

Standard Collets

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

Coolant Collets

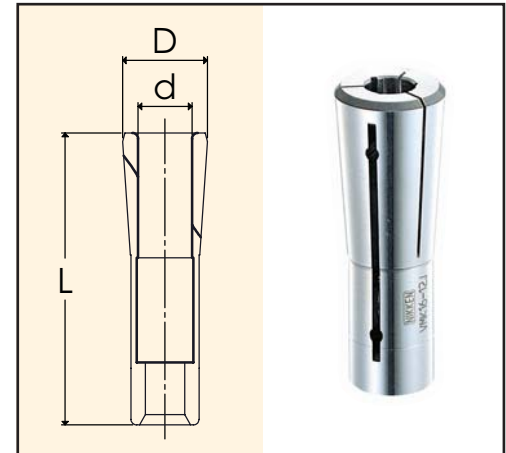
Collet series	Size	Part Number
VMK8	1/8"	VMK8-1/8
	3/16"	VMK8-3/16
	1/4"	VMK8-1/4
	5/16"	VMK8-5/16
	3/8"	VMK8-3/8
	2.0mm	VMK8-2
	3.0mm	VMK8-3
	4.0mm	VMK8-4
	5.0mm	VMK8-5
	6.0mm	VMK8-6
	8.0mm	VMK8-8
	10.0mm	VMK8-10

Slotted Collets

Part Number
VMK8-1/8J
VMK8-3/16J
VMK8-1/4J
VMK8-5/16J
VMK8-3/8J
VMK8-2J
VMK8-3J
VMK8-4J
VMK8-5J
VMK8-6J
VMK8-8J
VMK8-10J
VMK12-3/16J
VMK12-1/4J
VMK12-5/16J
VMK12-3/8J
VMK12-7/16J
VMK12-1/2J
VMK12-4J
VMK12-5J
VMK12-6J
VMK12-8J
VMK12-10J
VMK12-12J

Dimensional Data

Collet Series	D	L	Collet Range
MPK4	0.39" (10mm)	1.25" (32mm)	1/16" - 3/32" (1mm-4mm)
VMK8	0.59" (15mm)	2.02" (51.5mm)	1/8" - 3/8" (2mm-8mm)
VMK12	0.82" (21mm)	2.20" (56mm)	3/16" - 1/2" (4mm-12mm)



Note: these collets can be used for non-coolant application as well.

Coolant Tube and Coolant Tube Wrench for HSK Holders

Part Number	Description
HSK63-Tube	Coolant tube for HSK63 holders
HSK100-Tube	Coolant tube for HSK100 holders
HSK63-Wrench	Wrench for HSK63 coolant tube
HSK100-Wrench	Wrench for HSK100 coolant tube



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories



Current Promotion

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these
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Featured Video

TOOLJAW® — The Toolholder Clamp Champ



Lyndex-Nikken ToolJaws are machinists' favorite tooling setup fixtures because they are so handy and practical. Load a toolholder into a ToolJaw. 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 ToolJaw 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.

ToolJaw 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.
- Proven performance in the world's top shops.
- Convenient and practical.
- Easy to use.

TOOLJAW® CLAMPS

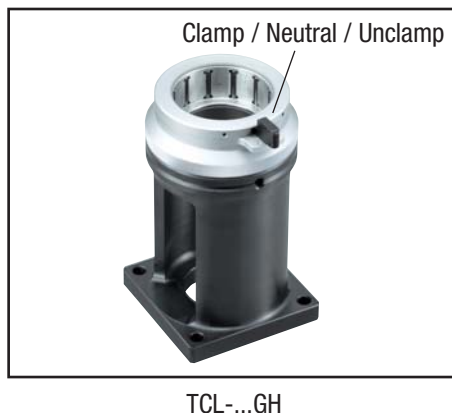
REPLACEMENT KEYS

REPLACEMENT JAWS

Description	Part Number	Part Number	Part Number
BT30 Taper TOOLJAW	B30-TOOLJAW	B30-KEY	B30-JAW
BT35 Taper TOOLJAW	B35-TOOLJAW	B35-KEY	B35-JAW
BT40 Taper TOOLJAW	B40-TOOLJAW	B40-KEY	B40-JAW
BT45 Taper TOOLJAW	B45-TOOLJAW	B45-KEY	B45-JAW
BT50 Taper TOOLJAW	B50-TOOLJAW	B50-KEY	B50-JAW
CT30 Taper TOOLJAW	C30-TOOLJAW	C30-KEY	C30-JAW
CT40 Taper TOOLJAW	C40-TOOLJAW	C40-KEY	C40-JAW
CT45 Taper TOOLJAW	C45-TOOLJAW	C45-KEY	C45-JAW
CT50 Taper TOOLJAW	C50-TOOLJAW	C50-KEY	C50-JAW
HSK40A TOOLJAW	HSK40A-TOOLJAW	HSK40A-KEY	HSK40A-JAW
HSK63A TOOLJAW	HSK63A-TOOLJAW	HSK63A-KEY	HSK63A-JAW
HSK100A TOOLJAW	HSK100A-TOOLJAW	HSK100A-KEY	HSK100A-JAW

Nikken Tool Clamper, Tightening Fixtures and 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.



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

TIGHTENING FIXTURES

Part Number	Taper	Length	Diameter
30-LCFX	30	3.54"	2.17"
35-LCFX	35	3.61"	2.36"
40-LCFX	40	4.27"	2.76"
45-LCFX	45	5.31"	2.95"
50-LCFX	50	6.20"	3.94"



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. One taper adapter can be used with multiple flange adapters. For example: the 40 taper adapter can accommodate both CT40 and BT40 flange adapters.

Part Number	Taper
ATC-ALIGN-#40	#40
ATC-ALIGN-#50	#50
ATC-ALIGN-HSK63A	HSK63A
ATC-ALIGN-HSK100A	HSK100A

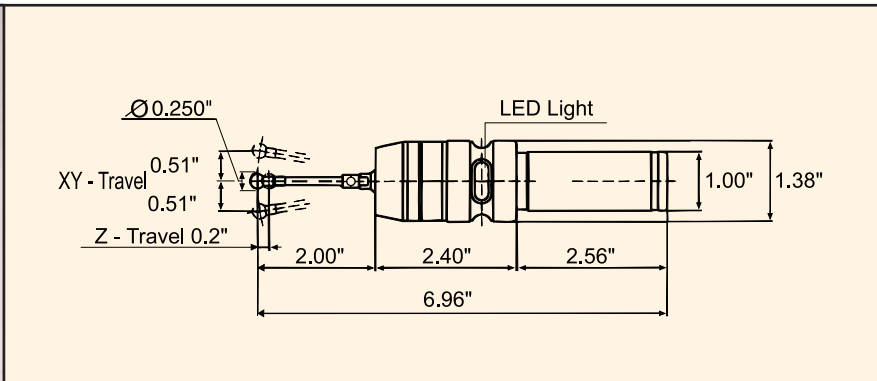


The ATC Alignment Kit consists of :

- a taper adapter
- a flange adapter
- a bushing
- a centering pin

PointFinder™

**Locate the precise relative positioning of the workpiece to the spindle
– measuring directly from the spindle itself.**



• 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: +/- 0.00004"
- Stylus to shank concentricity: +/- 0.0008"

• 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

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.

Features

- Position your workpiece without primary axis setters.
- Measure without calipers.
- Set depths, find centers without gauges.
- Fast, easy and accurate.
- Turn expensive setup time into profit-making production time.

Part Number	Description
PF-2	PointFinder with a 2" Stylus
PF-Stylus-2	Replacement Stylus for PointFinder PF-2

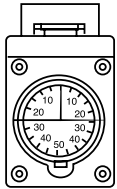
XYZSetter™ and ZeroSetter™

XYZSETTER™

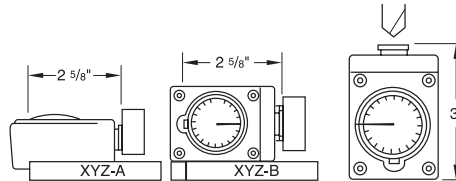
Easy, accurate setting of any axis.

XYZSetters minimize your setup time to maximize your production time. These unique instruments allow you to precisely establish all primary references quickly and dependably. Two models are available for either front or side reading. Both models are precision made of ground, hardened tool steel. Both have dial indicators graduated in thousandths (0.001”).

Part Number	Description
XYZ-A	Front Reading XYZSetter™
XYZ-B	Side Reading XYZSetter™



Zero the dial with the master cap held in place.



Remove the master cap and position the XYZSetter™ on your workpiece. Adjust your spindle until the cutter (or a test bar) touches the unit's measuring face. Your absolute reference point is established when the unit's dial rests at zero.

ZeroSetter™

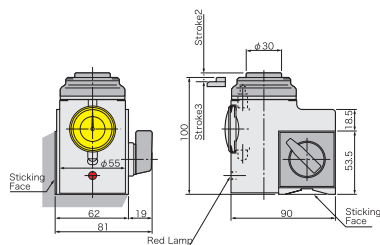
Quick, simple, precise Z-axis off setting.

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”).

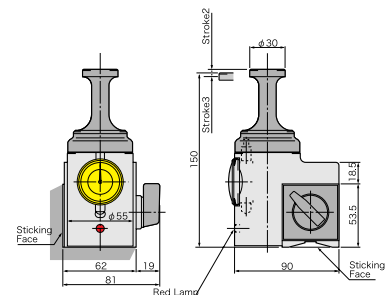
Part Number	Description
ZERO-SET4	4" Gauge Length ZeroSetter
HP-4	4" Gauge Length Height Presetter
HP-6	6" Gauge Length Height Presetter



HP-4



HP-6



Spindle Wipes



Spindle Wipes

These handy wipers 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 and Morse Taper holders.

FOR MACHINE SPINDLES

Part Number	Description
W30	30-Taper Spindle Clean equipped with cleaning blades
30-ST	W30 Standard cleaning blade set
30-VR	W30 Varnish removing blade set
30-EP	W30 Polishing blade set
W35	35-Taper Spindle Clean equipped with cleaning blades
35-ST	W35 Standard cleaning blade set
35-VR	W35 Varnish removing blade set
35-EP	W35 Polishing blade set
W40	40-Taper Spindle Clean equipped with cleaning blades
40-ST	W40 Standard cleaning blade set
40-VR	W40 Varnish removing blade set
40-EP	W40 Polishing blade set
W45	45-Taper Spindle Clean equipped with cleaning blades
45-ST	W45 Standard cleaning blade set
45-VR	W45 Varnish removing blade set
45-EP	W45 Polishing blade set
W50	50-Taper Spindle Clean equipped with cleaning blades
50-ST	W50 Standard cleaning blade set
50-VR	W50 Varnish removing blade set
50-EP	W50 Polishing blade set

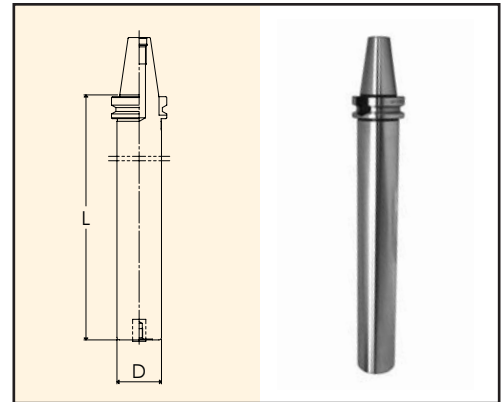
For Morse Taper, R8 Taper, TG and ER Collet Chuck Spindles Clean, please contact us directly at 800-543-6237.

Test Bars

- Precision ground
- Maximum T.I.R. of 0.0002"
- Excellent for gauging spindle runout

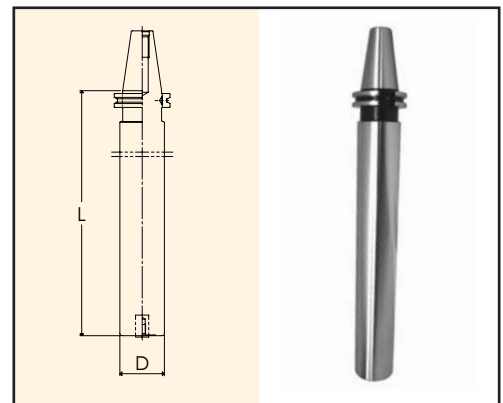
BT30/40/50

Part Number	Taper	L	D
B30-TESTBAR-8.0	BT30	8.00"	1.50"
B40-TESTBAR-14.0	BT40	14.00"	2.00"
B50-TESTBAR-14.0	BT50	14.00"	2.00"



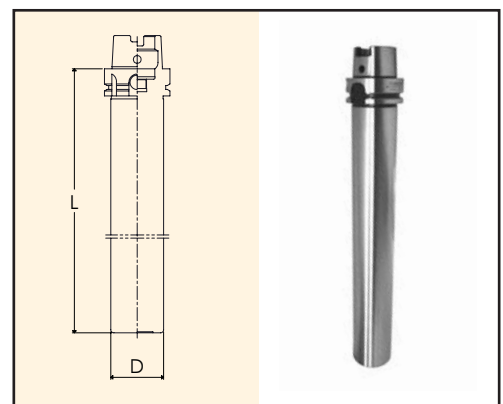
CAT40/50

Part Number	Taper	L	D
C40-TESTBAR-14.0	CT40	14.00"	2.00"
C50-TESTBAR-14.0	CT50	14.00"	2.00"



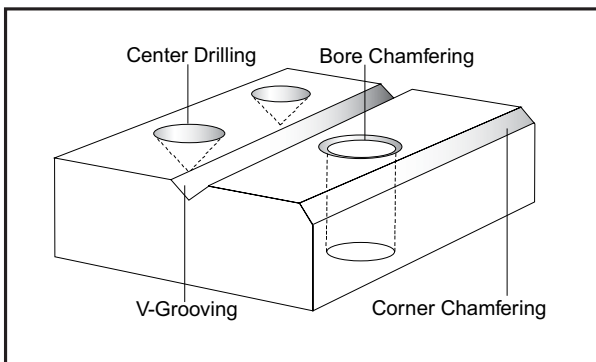
HSK63A/100A

Part Number	Taper	L	D
HSK63A-TESTBAR-14.0	HSK63A	14.00"	2.00"
HSK100A-TESTBAR-14.0	HSK100A	14.00"	2.00"



Momimem Carbide Indexable Chamfering & Center-Drilling Tools

Achieve super long life and ultra fast cutting performance.



Features

- Our new 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 toolholding system assures high accuracy and saves time when replacing inserts.
- Our single blade system eliminates cutting vibration.
- Momimem is durable (even for high speed cutting) which greatly improves productivity.
- Momimem enables centering and chamfering work to be done on the same center.

Applications

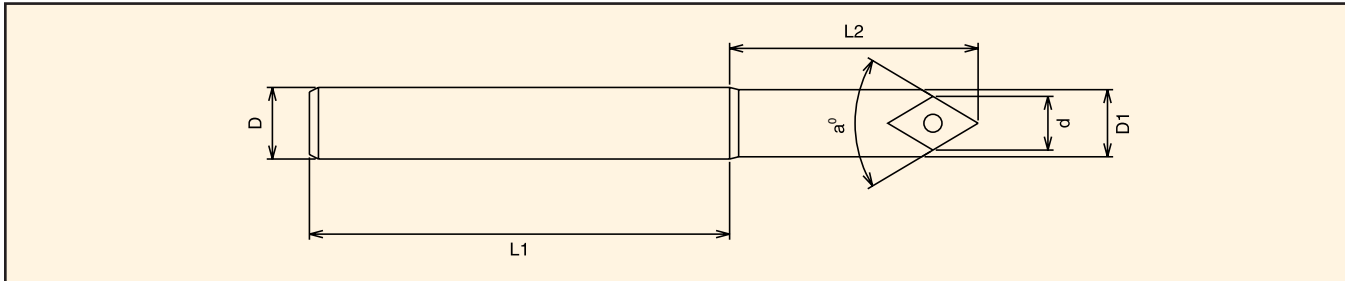
- Center Drilling
 - Corner Chamfering
 - Bore Chamfering
 - V-Groove Cutting
- Tough, accurate, economical and excellent performance.

Multi-Purpose Functions

- Spot Drilling (Center Drilling)
- Countersink and Chamfering (Plunging)
- Spiral Cutting (Milling)
- "V" Grooving (Milling)

Momimem Carbide Indexable Chamfering & Center-Drilling Tools

Indexable carbide tools for chamfering, center-drilling and v-grooving with one tool.



Momimem Chamfer/Center Drill

Part Number	L1	L2	D	d	a°	D1
SC1630C	3.27"	1.23"	5/8"	.625"	118°	.650"
SC1645C	3.35"	1.15"	5/8"	.500"	90°	.551"
SC1660D	3.75"	2.05"	5/8"	.472"	60°	.472"

Note: radius for SC1660D, SC1645C and SC1630C is 0.4, 0.6 and 0.6 respectively.

Insert

Part Number	Grade	Application
C32GUX-NK1010	NK1010	Aluminum Cast Iron (Momimen 1630 and 1645)
C32GUX-NK2020	NK2020	Steels (Momimen 1630 and 1645)
D43GUX-NK1010	NK1010	Aluminum Cast Iron (Momimen 1660)
D43GUX-NK5050	NK5050	Steels (Momimen 1660)

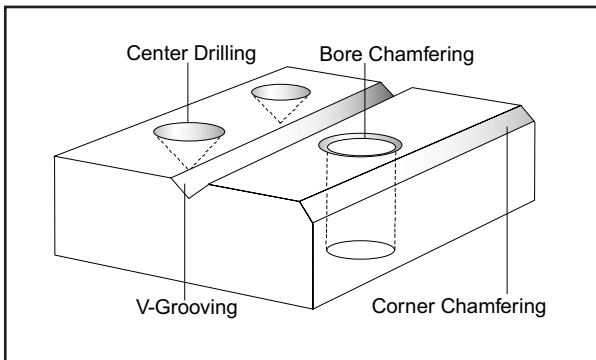
Note: insert package quantity: 12 pieces.

Recommended Speeds & Feeds

Material	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	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 - CNC Multi-Purpose Center Drill and Chamfering Tools

Achieve super long life and ultra fast cutting performance.



Features

- 3/8" shank and 5/16" lip assure highly accurate machining in narrow and limited space points.
- Our originally designed patented insert eliminates cutting vibration and cracking.
- Our originally designed 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 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

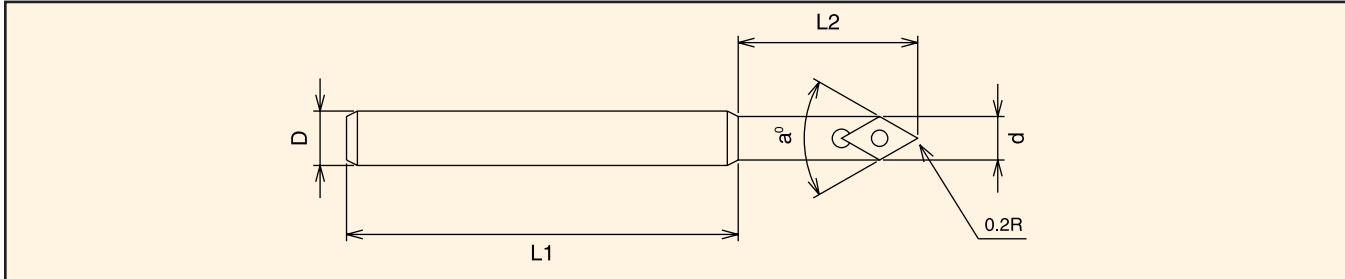
Tough, accurate, economical and excellent performance.

Multi-Purpose Functions

- Spot Drilling (Center Drilling)
- Countersink and Chamfering (Plunging)
- Spiral Cutting (Milling)
- "V" Grooving (Milling)

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"	3/8"	.315"	90°
SCM1045CL	5.14"	1.37"	3/8"	.315"	90°

Insert

Part Number	Grade	Application
C22GUX-NK1010	NK1010	Aluminum, Cast Iron
C22GUX-NK5050	NK5050	Steels

Recommended Speeds & Feeds

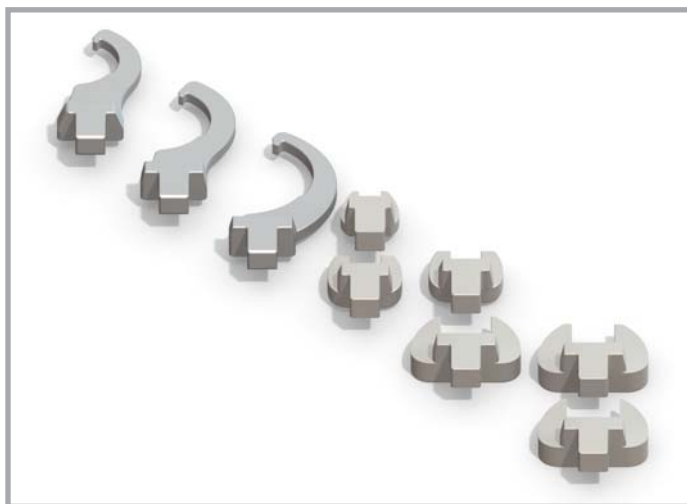
Material	For Center drilling & V-Grooving			For Chamfer Milling (down cut)		
	RPM	IPM	Grade	RPM	IPM	Grade
Mild Steels	3000	2	NK5050	3500	19	NK5050
Stainless	2800	2	NK5050	3000	13	NK5050
Aluminum	4000	4	NK1010	5000	39	NK1010

TQW Torque Wrench



The TQW Torque Wrench is very accurate and easy-to-use, guaranteeing maximum accuracy and preventing tool overtightening or breakage.

- Variable torque adjustable wrench
- Robust and durable
- Ergonomic grip
- Easy to read inch and metric scale
- Strong steel shaft is highly corrosion resistant
- Easy to set up and operation:
 - A. Set wrench to desired torque setting
 - B. Insert attachment
 - C. Torque down on collet nut until it clicks in place



A wide selection of attachments are available: ER, SK, TG, Pull Stud, Milling Chuck, Capto

Design and Construction



A "Push-Button Locking Device" securely locks the preset torque and prevents inadvertent adjustment.



Handle is shaped to provide a firm and ergonomic grip.

Collet Number	Part Number	Attachments (Type and Size)			Torque Range		Torque Wrench	
		Description	mm	inch	lbs	Nm	Part Number	Description
ER8	TQW-ER08	Blank	Special Attachment - Call		4	6	TQW-025	14X18, 25ft.lbs
ER11	TQW-ER11(17)	Hex/OE	17	0.67	11	15		
ER16	TQW-ER16(32)	Hook	32 [+/-5mm]	1.25	40	54	TQW-150	14X18, 150ft.lbs
ER20	TQW-ER20(32)		32 [+/-5mm]	1.25	60	81		
ER25	TQW-ER25(43)		43 [+/-5mm]	1.69	75	102		
ER32	TQW-ER32(50)		50 [+/-5mm]	1.96	100	136		
ER40	TQW-ER40(63)		63 [+/-5mm]	2.48	125	169		
SK6	TQW-SK06(18)	Hex/OE	18	0.71	14	19	TQW-025	14X18, 25ft.lbs
SK10	TQW-SK10(1)		25.4	1.00	33-34	45-46		
SK16	TQW-SK16(43)	Hook	43 [+/-5mm]	1.69	55-62	74-84	TQW-150	14X18, 150ft.lbs
SK25	TQW-SK25(60)		60 [+/-5mm]	2.36	66-73	90-99		
TG75	TQW-TG075(50)	Hook	50 [+/-5mm]	1.96	55	75	TQW-150	14X18, 150ft.lbs
TG100	TQW-TG100(63)		63 [+/-5mm]	2.48	75	102		
TG150	TQW-TG150(82)		82 [+/-5mm]	3.22	100	136		
Pull-Stud-13mm	TQW-PS(13)	Hex/OE	13	0.51	14 ~ 18	19 to 25	TQW-025	14X18, 25ft.lbs
Pull-Stud-3/4 (19mm)	TQW-PS(19)		19	0.75	44 ~ 59	60 to 80	TQW-150	14X18, 150ft.lbs
Pull-Stud-30mm	TQW-PS(30)		30	1.18	147 ~ 185	200 to 250		
Pull-Stud-1.1/4	TQW-PS(32)		31.75	1/1/2004	147 ~ 185	200 to 250		
Milling Chuck 3/4"	TQW-C3/4(50)	Hook	50 [+/-5mm]	1.96	19 to 24	26-32	TQW-150	14X18, 150ft.lbs
Milling Chuck 1"	TQW-C1(60)		60 [+/-5mm]	2.36	27 to 31	36-42		
Milling Chuck 1.1/4"	TQW-C1/4(72)		72 [+/-5mm]	2.83	48 to 59	65-80		
Capto C3	TQW-CAPTO3(8)	Hex	8	0.31	26	35	TQW-150	14X18, 150ft.lbs
Capto C4	TQW-CAPTO4(10)		10	0.39	37	50		
Capto C5	TQW-CAPTO5(12)		12	0.47	52	70		



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

WC Collet Chucks

MMC Collet Chucks

Accessories

Technical

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Lyndex-Nikken Product Warranty

Standard Product

Lyndex-Nikken Inc., the seller, warrants to the user, who purchases and uses (the “User”) the Standard Product, as hereinafter defined against defects in materials and workmanship for one year from the date of delivery of the Standard Product to the User.

A “Standard Product” is defined as a product sold by which is not:

- A Lyndex-Nikken Tool Presetter and/or Custom Tool line Product, which is separately warranted. (Please see the separate warranty information included with each of these respective products).
- Special Tooling manufactured by Lyndex-Nikken at the User’s request and to the User’s specifications and/or plans, which shall have been approved by User, or,
- Modified Standard Product, which is modified by Lyndex-Nikken at the User’s request and to User’s specifications and/or plans, which shall have been approved by User.

From time to time in this Warranty, the Standard Product, Special Tooling or Modified Standard Product may be collectively referred to as the “Product.”

Special Tooling or Modified Product

If the User first provides Lyndex-Nikken with all the required manufacturing specifications, then Lyndex-Nikken warrants that the Special Tooling and/or Modified Standard Product (1) will be manufactured to the User’s specifications and (2) shall be free from defects in materials and workmanship for one year from the date of delivery of the product to the User, but Lyndex-Nikken is not warranting that the Special Tooling and/or Modified Standard Product can perform the task anticipated by the User’s specifications.

Additional Provisions

- Any attempts to repair, disassemble, modify, alter or otherwise change the Product voids this Warranty.
- It is the User’s responsibility to see that the Product is suitable for the User’s applications of the Product.
- Common wear parts such as bearings, seals & rotary unions (and the like), which are subject to wear and tear, are not included in this Warranty.
- To use the Products and avoid injury to persons or property, the User acknowledges that it is the User’s sole responsibility to confirm that the supplied retention knobs are correct for the machine tool and taper type.
- The User agrees to indemnify and hold harmless Lyndex-Nikken, including reasonable attorneys’ fees it might incur, for any claims arising out of an incorrect fit of the retention knobs.
- Our obligation under this warranty is to the initial User only.
- This Warranty may not be assigned without the express written approval of Lyndex-Nikken.
- This Warranty is limited exclusively to the repair or replacement of parts found defective by Lyndex-Nikken’ Service Department.
- This Warranty provides for no credit or cash refund to the User.
- This Warranty is subject to change without notice, provided however, even though Lyndex-Nikken shall not be required to give notice of a change in its Warranty, Lyndex-Nikken will make a reasonable effort to notify customers and Distributors, who shall be obligated to notify its customers, of any substantive changes in the Warranty by either written notice to the customer, written notice to its Distributors, notice when an order is placed, or by including a copy of a changed Warranty in the product’s package.

All other warranties, express or implied, are excluded.

Milling Chucks
Shrink Fit Holders
SK Collet Chucks
VC Collet Chucks
MMC Collet Chucks
Accessories

Technical

Application Guide & Balancing Chart

Application Guide

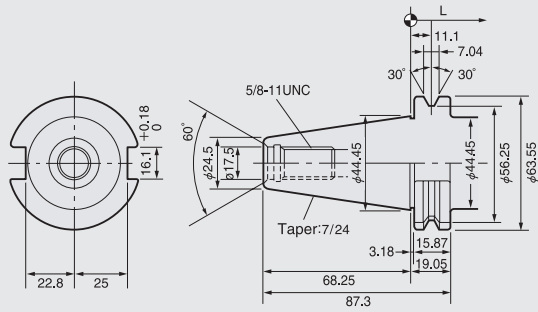
Toolholder type	Page	Max Capacity	TIR	TIR location	Tapping	Milling	Drilling	Reaming
End Mill Holders	9-28	2.500"	0.0002"	nose	*	****	-	-
ER Collet Chucks	29-45	1.338"	0.0001"	4 x dia.	**	***	****	****
TG Collet Chucks	56-60	1.500"	0.0003"	collet face	-	**	***	***
DA Collet Chucks	67-68	0.750"	0.0020"	4 x dia.	-	-	**	**
Shell Mill Holders	73-83	2.000"	0.0002"	arbor	-	***	-	-
Face Mill Holders	73-83	2.500"	0.0002"	arbor	-	-	-	-
Integral Drill Chucks	85-88	0.500"	-	-	-	-	**	**
Jacobs Drill Chucks	90-92	0.750"	-	-	-	-	**	**
Morse Drill Chucks	93-94	MT#5	-	-	-	-	**	**
Stub Mill Holders	119-122	1.500"	0.0002"	holder arbor	-	-	-	-
Milling Chucks	141-154	1.250"	0.0002"	4" from nose	-	****	**	**
Shrink Fit Holders	161-173	2.000"	0.0002"	4 x dia.	-	****	*	*
SK Collet Chucks	175-187	1.000"	0.0002"	4 x dia.	-	***	****	****
VC Collet Chucks	195-201	0.500"	0.0001"	4 x dia.	-	****	**	**
MMC Collet Chucks	205-209	0.500"	0.0001"	4 x dia.	-	***	**	**

Balancing Chart

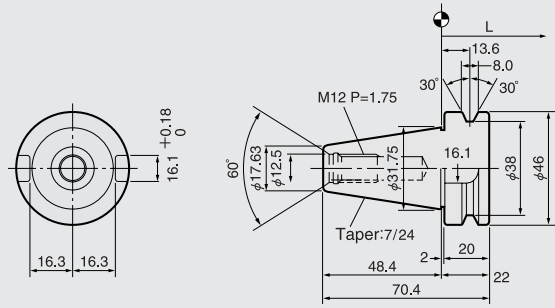
Taper Type	End Mill Holders		ER Collet Chuck		Shell Mill Holders	Shrink Fit Holders	TG Collet Chuck	
	Standard	High-Speed	Standard	High-Speed			Standard	High-Speed
CAT40	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	G6.3	G2.5
	15,000RPM	24,000RPM	18,000RPM	24,000RPM	24,000RPM	24,000RPM	12,000RPM	24,000RPM
CAT50	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	G6.3	G2.5
	10,000RPM	15,000RPM	10,000RPM	15,000RPM	15,000RPM	15,000RPM	10,000RPM	15,000RPM
BT30	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	-	-
	15,000RPM	24,000RPM	18,000RPM	24,000RPM	24,000RPM	24,000RPM	-	-
BT40	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	-	-
	15,000RPM	24,000RPM	18,000RPM	24,000RPM	24,000RPM	24,000RPM	-	-
BT50	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	-	-
	10,000RPM	15,000RPM	10,000RPM	15,000RPM	15,000RPM	15,000RPM	-	-
HSK32E	-	-	-	-	-	G6.3	-	-
	-	-	-	-	-	42,000RPM	-	-
HSK40A	G6.3	-	G6.3	-	-	-	-	-
	12,000RPM	-	20,000RPM	-	-	-	-	-
HSK40E	-	-	-	-	-	G6.3	-	-
	-	-	-	-	-	42,000RPM	-	-
HSK63A	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	-	-
	15,000RPM	24,000RPM	18,000RPM	24,000RPM	24,000RPM	24,000RPM	-	-
HSK63F	-	-	G2.5	G2.5	G6.3	G2.5	-	-
	-	-	20,000RPM	24,000RPM	15,000RPM	33,000RPM	-	-
HSK80F	-	-	G2.5	-	-	G2.5	-	-
	-	-	20,000RPM	-	-	33,000RPM	-	-
HSK100A	G6.3	G2.5	G6.3	G2.5	G2.5	G2.5	-	-
	10,000RPM	15,000RPM	10,000RPM	15,000RPM	15,000RPM	15,000RPM	-	-

Taper Specifications

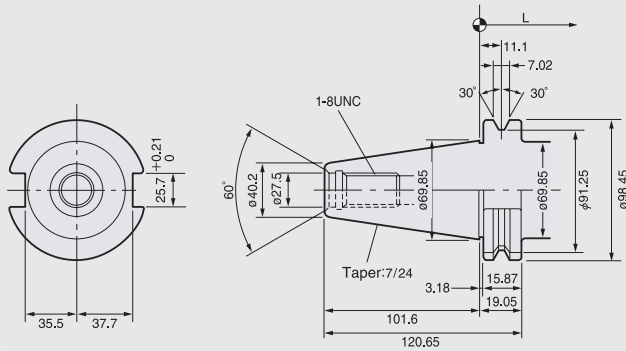
CAT40



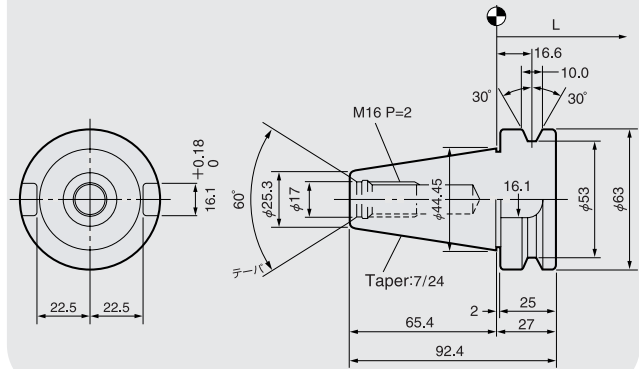
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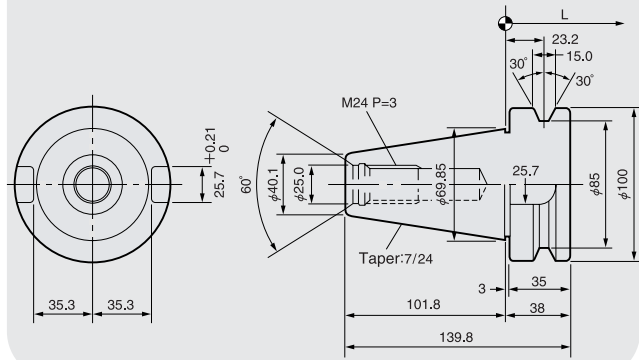
CAT50



BT40



BT50



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

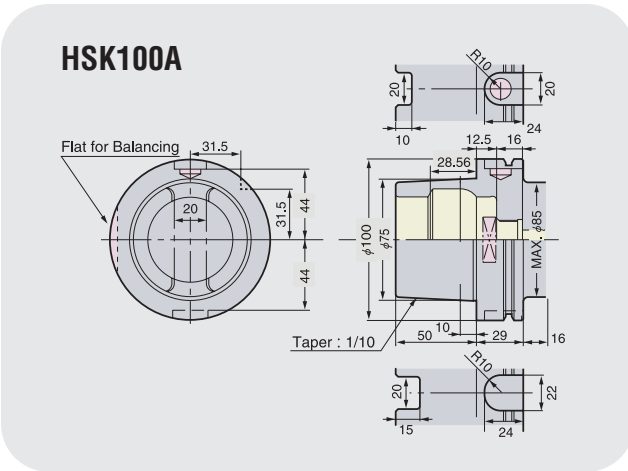
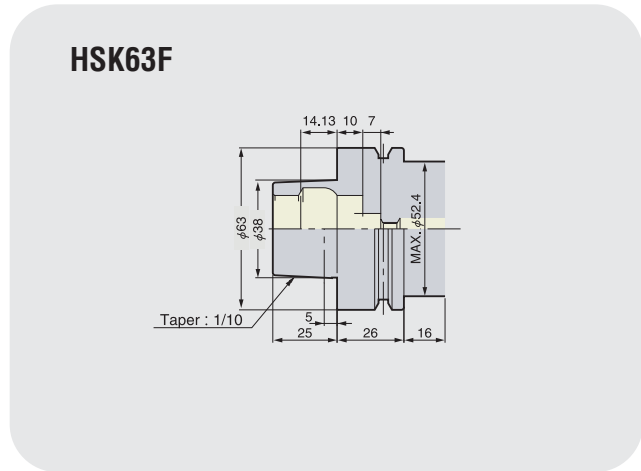
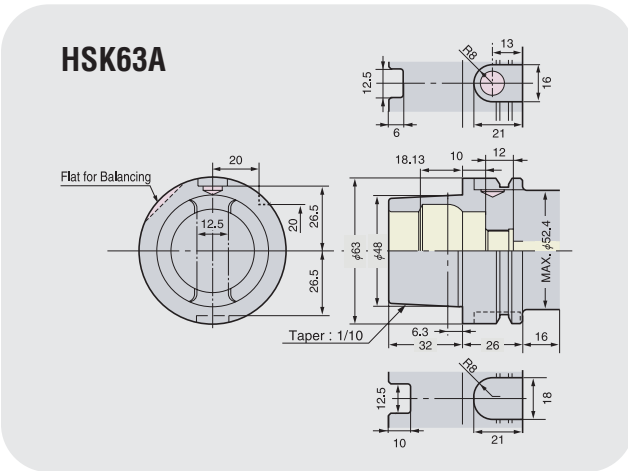
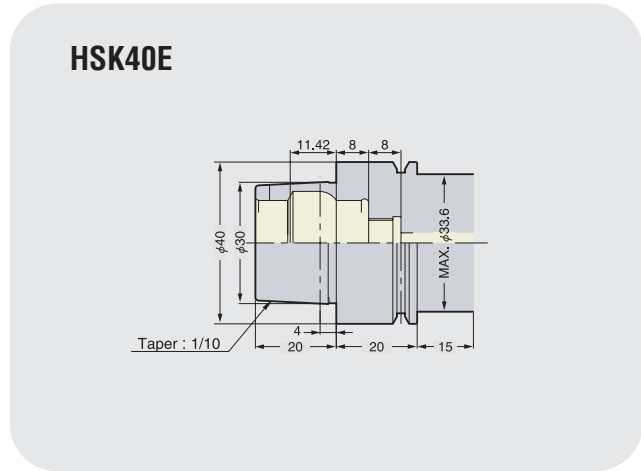
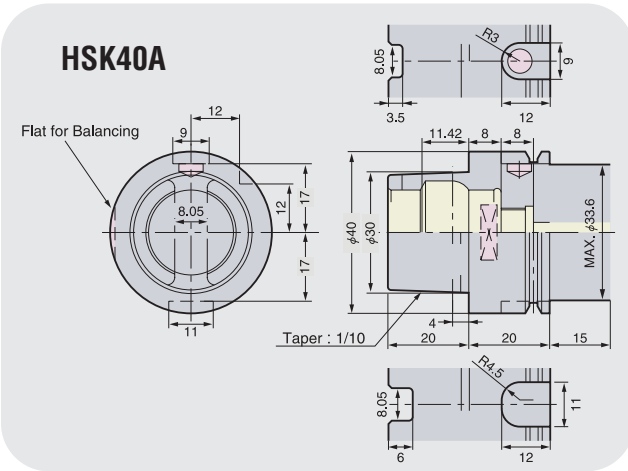
VC Collet Chucks

MMC Collet Chucks

Accessories

Technical

Taper Specifications



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

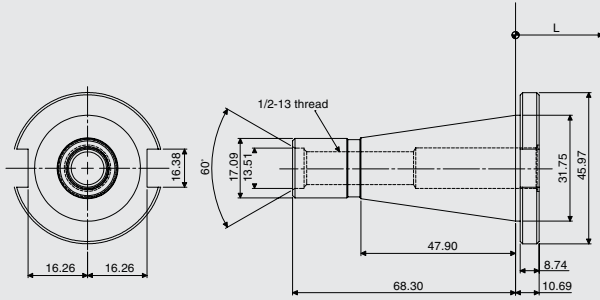
MMC Collet Chucks

Accessories

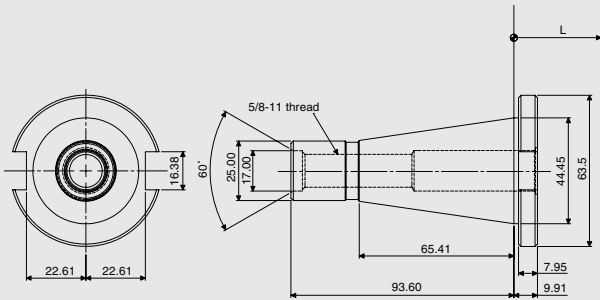
Technical

Taper Specifications

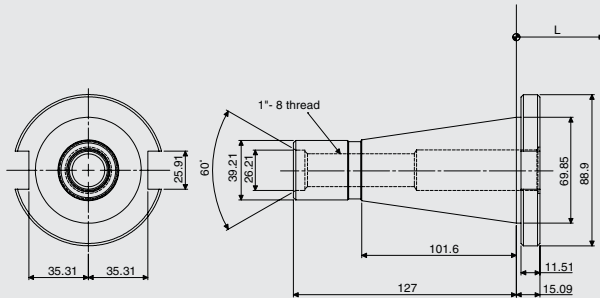
NMTB30



NMTB40



NMTB50



SK Drill Chart

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 Collets	SK10 Collets	SK16 Collets	SK25 Collets
	80			0.0135				
	79			0.0145				
1/64				0.0156				
	78			0.0160				
	77			0.0180				
			.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			
			.75	0.0295	SK6-0.8			
	68			0.0310	SK6-0.8			
1/32				0.0312	SK6-0.8			
	67			0.0320	SK6-1			
	66			0.0330	SK6-1			
	65			0.0350	SK6-1			
	64			0.0360	SK6-1			
	63			0.0370	SK6-1			
	62			0.0380	SK6-1			
	61			0.0390	SK6-1			
			1	0.0394	SK6-1			
	60			0.0400				
	59			0.0410				
	58			0.0420				
	57			0.0430	SK6-1.25			
	56			0.0465	SK6-1.25			
3/64				0.0469	SK6-1.25			
			1.25	0.0492	SK6-1.25			
	55			0.0520	SK6-1.5			
	54			0.0550	SK6-1.5			
			1.5	0.0591	SK6-1.5			
	53			0.0595	SK6-1.75			
1/16				0.0625	SK6-1.75			
	52			0.0635	SK6-1.75			
	51			0.0670	SK6-1.75			
			1.75	0.0689	SK6-1.75	SK10-2		
	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		

Milling Chucks
Shrink Fit Holders
SK Collet Chucks
VC Collet Chucks
MMC Collet Chucks
Accessories

SK Drill Chart

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 Collets	SK10 Collets	SK16 Collets	SK25 Collets
	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		
			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		
	24			0.1520	SK6-4	SK10-4	SK16-4	
	23			0.1540	SK6-4	SK10-4	SK16-4	
5/32				0.1562	SK6-4	SK10-4	SK16-4	
	22			0.1570	SK6-4	SK10-4	SK16-4	
			4	0.1575	SK6-4	SK10-4	SK16-4	
	21			0.1590	SK6-4.5	SK10-4.5	SK16-4.5	
	20			0.1610	SK6-4.5	SK10-4.5	SK16-4.5	
	19			0.1660	SK6-4.5	SK10-4.5	SK16-4.5	
			4.25	0.1673	SK6-4.5	SK10-4.5	SK16-4.5	
	18			0.1695	SK6-4.5	SK10-4.5	SK16-4.5	
11/64				0.1719	SK6-4.5	SK10-4.5	SK16-4.5	
	17			0.1730	SK6-4.5	SK10-4.5	SK16-4.5	
	16			0.1770	SK6-4.5	SK10-4.5	SK16-4.5	
			4.5	0.1772	SK6-4.5	SK10-4.5	SK16-4.5	
	15			0.1800	SK6-5.0	SK10-5	SK16-5	
	14			0.1820	SK6-5.0	SK10-5	SK16-5	
	13			0.1850	SK6-5.0	SK10-5	SK16-5	
			4.75	0.1870	SK6-5.0	SK10-5	SK16-5	
3/16				0.1875	SK6-5.0	SK10-5/ SK10-3/16A	SK16-5/ SK16-3/16A	SK25-3/16A
	12			0.1890	SK6-5.0	SK10-5	SK16-5	
	11			0.1910	SK6-5.0	SK10-5	SK16-5	
	10			0.1935	SK6-5.0	SK10-5	SK16-5	
	9			0.1960	SK6-5.0	SK10-5	SK16-5	
			5	0.1969	SK6-5.0	SK10-5	SK16-5	
	8			0.1990	SK6-5.5	SK10-5.5	SK16-5.5	
	7			0.2010	SK6-5.5	SK10-5.5	SK16-5.5	
13/64				0.2031	SK6-5.5	SK10-5.5	SK16-5.5	
	6			0.2040	SK6-5.5	SK10-5.5	SK16-5.5	
	5			0.2055	SK6-5.5	SK10-5.5	SK16-5.5	
			5.25	0.2067	SK6-5.5	SK10-5.5	SK16-5.5	
	4			0.2090	SK6-5.5	SK10-5.5	SK16-5.5	
	3			0.2130	SK6-5.5	SK10-5.5	SK16-5.5	
			5.5	0.2165	SK6-5.5	SK10-5.5	SK16-5.5	
7/32				0.2188	SK6-6	SK10-6	SK16-6	

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SK Drill Chart

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 Collets	SK10 Collets	SK16 Collets	SK25 Collets
	2			0.2210	SK6-6	SK10-6	SK16-6	
			5.75	0.2264	SK6-6	SK10-6	SK16-6	
	1			0.2280	SK6-6	SK10-6	SK16-6	
		A		0.2340	SK6-6	SK10-6	SK16-6	
15/64				0.2344	SK6-6	SK10-6	SK16-6	
			6	0.2362	SK6-6	SK10-6	SK16-6	
		B		0.2380		SK10-6.5	SK16-6.5	
		C		0.2420		SK10-6.5	SK16-6.5	
		D		0.2460		SK10-6.5	SK16-6.5	
			6.25	0.2461		SK10-6.5	SK16-6.5	
1/4		E		0.2500		SK10-6.5/ SK10-1/4A	SK16-6.5/ SK16-1/4A	SK25-1/4A
			6.5	0.2559		SK10-6.5	SK16-6.5	
		F		0.2570		SK10-7	SK16-7	
		G		0.2610		SK10-7	SK16-7	
17/64				0.2656		SK10-7	SK16-7	
			6.75	0.2657		SK10-7	SK16-7	
		H		0.2660		SK10-7	SK16-7	
		I		0.2720		SK10-7	SK16-7	
			7	0.2756		SK10-7	SK16-7	
		J		0.2770		SK10-7.5	SK16-7.5	
		K		0.2810		SK10-7.5	SK16-7.5	
9/32				0.2812		SK10-7.5	SK16-7.5	
			7.25	0.2854		SK10-7.5	SK16-7.5	
		L		0.2900		SK10-7.5	SK16-7.5	
		M		0.2950		SK10-7.5	SK16-7.5	
			7.5	0.2953		SK10-7.5	SK16-7.5	
19/64				0.2969		SK10-8	SK16-8	
		N		0.3020		SK10-8	SK16-8	
			7.75	0.3051		SK10-8	SK16-8	
5/16				0.3125		SK10-8/ SK10-5/16A	SK16-8/ SK16-5/16A	SK25-5/16A
			8	0.3150		SK10-8	SK16-8	
		O		0.3160		SK10-8.5	SK16-8.5	
		P		0.3230		SK10-8.5	SK16-8.5	
			8.25	0.3248		SK10-8.5	SK16-8.5	
21/64				0.3281		SK10-8.5	SK16-8.5	
		Q		0.3320		SK10-8.5	SK16-8.5	
			8.5	0.3346		SK10-8.5	SK16-8.5	
		R		0.3390		SK10-9	SK16-9	
11/32				0.3438		SK10-9	SK16-9	
			8.75	0.3445		SK10-9	SK16-9	
		S		0.3480		SK10-9	SK16-9	
			9	0.3543		SK10-9	SK16-9	
		T		0.3580		SK10-9.5	SK16-9.5	
23/64				0.3594		SK10-9.5	SK16-9.5	
			9.25	0.3642		SK10-9.5	SK16-9.5	
		U		0.3680		SK10-9.5	SK16-9.5	

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SK Drill Chart

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 Collets	SK10 Collets	SK16 Collets	SK25 Collets
			9.5	0.3740		SK10-9.5	SK16-9.5	
3/8				0.3750		SK10-10/ SK10-3/8A	SK16-10/ SK16-3/8A	SK25-3/8A
		V		0.3770		SK10-10	SK16-10	
			9.75	0.3839		SK10-10	SK16-10	
		W		0.3860		SK10-10	SK16-10	
25/64				0.3906		SK10-10	SK16-10	
			10	0.3937		SK10-10	SK16-10	
		X		0.3970			SK16-10.5	
		Y		0.4040			SK16-10.5	
13/32				0.4063			SK16-10.5	
		Z		0.4130			SK16-10.5	
			10.5	0.4134			SK16-10.5	
27/64				0.4219			SK16-11	
			11	0.4331			SK16-11	
7/16				0.4375			SK16-11.5/ SK16-7/16A	SK25-7/16A
			11.5	0.4528			SK16-11.5	
29/64				0.4531			SK16-12	
15/32				0.4688			SK16-12	
			12	0.4724			SK16-12	
31/64				0.4844			SK16-12.5	
			12.5	0.4921			SK16-12.5	
1/2				0.5000			SK16-13/ SK16-1/2A	SK25-1/2A
			13	0.5118			SK16-13	
33/64				0.5156			SK16-13.5	
17/32				0.5312			SK16-13.5	
			13.5	0.5315			SK16-13.5	
35/64				0.5469			SK16-14	
			14	0.5512			SK16-14	
9/16				0.5625			SK16-14.5/ SK16-9/16A	
			14.5	0.5709			SK16-14.5	
37/64				0.5781			SK16-15	
			15	0.5906			SK16-15	
19/32				0.5938			SK16-15.5	
39/64				0.6094			SK16-15.5	
			15.5	0.6102			SK16-15.5	
5/8				0.6250			SK16-16/ SK16-5/8A	SK25-5/8A
			16	0.6299			SK16-16	SK25-16.5
41/64				0.6406				SK25-16.5
			16.5	0.6496				SK25-16.5
21/32				0.6562				SK25-17
			17	0.6693				SK25-17
43/64				0.6719				SK25-17.5
11/16				0.6875				SK25-17.5
			17.5	0.6890				SK25-17.5
45/64				0.7031				SK25-18
			18	0.7087				SK25-18

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SK Drill Chart

FRACTION SIZE	# SIZE	LETTER SIZE	METRIC SIZE	DECIMAL INCHES	SK6 Collets	SK10 Collets	SK16 Collets	SK25 Collets
23/32				0.7188				SK25-18.5
			18.5	0.7283				SK25-18.5
47/64				0.7344				SK25-19
			19	0.7480				SK25-19
3/4				0.7500				SK25-19.5/ SK25-3/4A
49/64				0.7656				SK25-19.5
			19.5	0.7677				SK25-19.5
25/32				0.7813				SK25-20
			20	0.7874				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
			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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Technical

Tightening Torque

Tightening Torque for End Mill Holder Set Screws

I.D.	Set Screw Size	Tightening Torque	Hex Wrench Size
1/8"	6-32 x 1/4	0.6 ft/lbs	1/16"
3/16"	8-32 x 1/4	0.8 ft/lbs	5/6"
1/4"	1/4-28 x 1/4	6.5 ft/lbs	1/8"
5/16"	5/16-24 x 1/4	14 ft/lbs	5/32"
3/8"	3/8-24 x 5/16	16 ft/lbs	3/16"
7/16"	3/8-24 x 5/16	16 ft/lbs	3/16"
1/2"	7/16-20 x 3/8	24 ft/lbs	7/32"
5/8"	9/16-18 x 1/2	36 ft/lbs	9/32"
3/4"	5/8-18 x 1/2	36 ft/lbs	5/16"
7/8"	5/8-18 x 1/2	76 ft/lbs	5/16"
1"	3/4-16 x 11/16	150 fl/lbs	3/8"
1-1/4"	3/4-16 x 11/16	150 fl/lbs	3/8"
1-1/2"	3/4-16 x 11/16	150 fl/lbs	3/8"
2"	1-14 x 7/8	270 ft/lbs	9/16"
2-1/2"	1-14 x 7/8	270 ft/lbs	9/16"
6.00mm	1/4-28 x 1/4	6.5 ft/lbs	1/8"
8.00mm	5/16-24 x 1/4	14 ft/lbs	5/32"
10.00mm	3/8-24 x 5/16	16 ft/lbs	3/16"
12.00mm	7/16-20 x 3/8	24 ft/lbs	7/32"
14.00mm	9/16-18 x 1/2	36 ft/lbs	9/32"
16.00mm	9/16-18 x 1/2	36 ft/lbs	9/32"
18.00mm	5/8-18 x 1/2	36 ft/lbs	5/16"
20.00mm	5/8-18 x 1/2	36 ft/lbs	5/16"
25.00mm	3/4-16 x 11/16	150 fl/lbs	3/8"
32.00mm	3/4-16 x 11/16	150 fl/lbs	3/8"
40.00mm	3/4-16 x 11/16	150 fl/lbs	3/8"
42.00mm	3/4-16 x 11/16	150 fl/lbs	3/8"

Tightening Torque for SK Collet Chucks

Collet Type	Collet Size	Nut Tightening Torque (ft/lbs)			
		< Ø3mm	Ø4-Ø6mm	Ø8-Ø10mm	Ø12mm
SK	SK6	7-15	15-22		
	SK10	15-22	22-30	33-41	
	SK16		29-37	41-48	48-55
	SK25			44-52	52-85

Tightening Torque for ER/TG/DA Collet Chucks, MMC Collet Chucks and VC Collet Chucks

Collet Type	Collet Size	Nut Tightening Torque (ft/lbs)	
		< Ø3mm	Ø3-Ø6mm
ER	ER8	4	
	ER11	18	
	ER16	40	
	ER20	60	
	ER25	75	
	ER32	100	
	ER40	125	
TG	ER50	175	
	TG25	20	
	TG50	35	
	TG75	55	
	TG100	75	
DA	TG150	100	
	300DA	18	
	200DA	25	
	100DA	35	
MMC	180DA	40	
	MPK4	15-18	
	VMK8	15-18	
VC	VMK12	29-33	
	VCK6	7-22	22-37
	VCK13	29-55	

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Tapping

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 advanced 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) would suit 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.

Positive Drive Tap Collets and Holders

- Positive drive tap collets 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”.
- Positive-drive tapping systems 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, worn-out taps or misplaced cored holes in castings.
- Rigid-Tap holders must only be used with Positive-Drive tapping collets. 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

Shank diameter		Square diameter		US		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		#12				
0.225	5.7	0.191	4.9	M6	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			

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Tap Dimensional Data

Shank diameter		Square diameter		US		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	

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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 (Nm)	
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	○
6.3 x 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 9	12	■
10 x 8	M 12	22	○
	M 10	16	○
11.2 x 9	M 14	36	○
	M 16	40	○
12.5 x 10	M 20	70	■
	M 18	63	○
14 x 11.2	M 22	80	○
	M 24	125	○
16 x 12.5	M 27	140	○
	M 30	220	○
18 x 14	M 33	240	○
	M 36	280	■
20 x 16	M 39	320	○
	M 42	420	■

Preset Torque for Tap Collets - DIN

Tap Shank x Square	Tap Size	Torque Setting (Nm)	
2.5 x 2.1	M 1.8	0.3	○
	M 3	0.5	■
	M 2	0.3	■
2.8 x 2.1	M 2.2	0.35	■
	M 2.5	0.4	○
	M 4	1.2	■
	M 3	0.5	○
3.5 x 2.7	M 5	2	■
	M 3.5	0.8	○
4 x 3	M 4	1.2	○
	M 6	4	■
4.5 x 3.4	M 5	2	■
	M 6	4	■
6 x 4.9	M 8	8	○
	M 6	4	■
	M 8	8	○
	M 11	18	■
7 x 5.5	M 10	16	○
8 x 6.2	M 8	8	○
	M 12	22	○
9 x 7	M 12	22	○
10 x 8	M 10	16	○
	M 14	36	○
11 x 9	M 16	40	○
	M 16	40	■
12 x 9	M 18	63	○
	M 20	70	○
14 x 11	M 22	80	■
	M 24	125	○
16 x 12	M 27	140	○
	M 30	220	○
18 x 14.5	M 33	240	○
	M 36	280	■
20 x 16	M 36	280	○
	M 36	280	○

Preset Torque for Tap Collets - JIS

Tap Shank x Square	Tap Size	Torque Setting (Nm)
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

○ - Standard setting.
■ - Setting on request.

Milling Chucks
Shrink Fit Holders
SK Collet Chucks
VC Collet Chucks
MMC Collet Chucks
Accessories
Technical

Nikken 3-Lock Tooling System – Original Double Contact Technology

The 3-Lock System uses internal expanding pressure to maintain the correct taper to flange ratio achieving full face contact of the flange to the spindle, for unsurpassed cutting performance and cutting tool life. The 3-Lock Nikken holder counteracts the centrifugal forces produced on the machine spindle during high speed processes.

Benefits of Nikken 3-Lock holders:

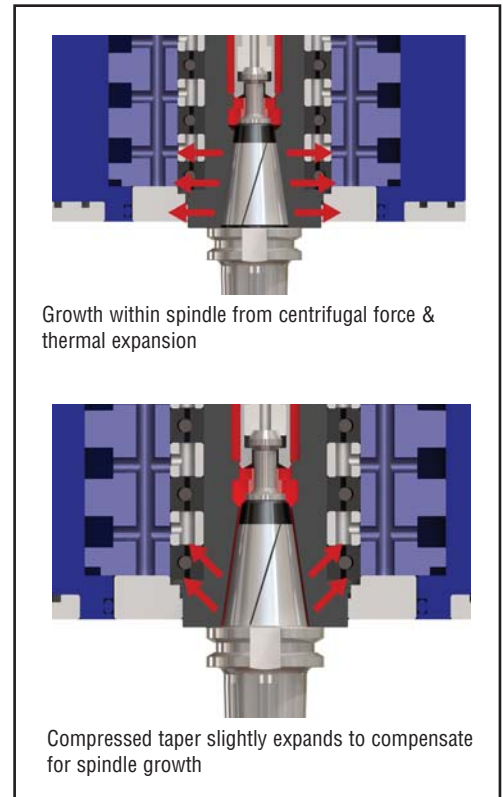
- Outstanding runout accuracy – longer cutting tool life
- Vibration dampening –increased productivity
- Extremely rigid toolholder – stable and smooth cutting

3-Lock Toolholders Construction

The 3-Lock system consists of a main body with an internal taper configuration housed inside a taper cone. The taper cone is shaped to deform to a 7/24 external taper. This taper cone is pre-loaded on the body with the disc springs. The combination of the taper cone and the disc springs create a dampening effect reducing cutting vibration and extending the cutting tool life.

When the tool is clamped, the taper cone slightly slides in an axial direction to absorb any minute gauge line errors.

During a tool change, the internal taper of the 3-Lock body expands. The internal taper of the holder continues to expand until the flange of the tool holder makes contact with the spindle face. The combination of the taper expansion and the contact between the flange of the holder and the spindle face, results in the full pull force of the machine tool being maximized.

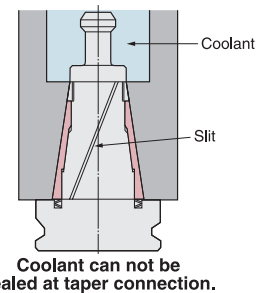
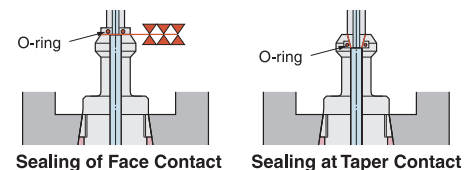


Technical tips:

Caution must be taken for center through tool coolant applications. There are two methods to seal coolant at the retention stud: sealing the face contact and sealing of the taper contact. Please choose the proper retention stud for your milling center.

If your milling machine has center through coolant but does not have the sealing at the retention stud, the coolant may get inside the spindle and can be sealed by a standard tool holder connection. However the 3-Lock tool cannot seal the coolant at the taper connection because of the slit within the taper of the 3-Lock holder.

If the pulling force of the machine spindle decreases substantially, the Nikken 3-Lock tooling cannot perform 100% of its capability. We would recommend that regular inspection of the pulling force is carried out to prevent any reduction in the pulling force at an early stage.



Live Tools

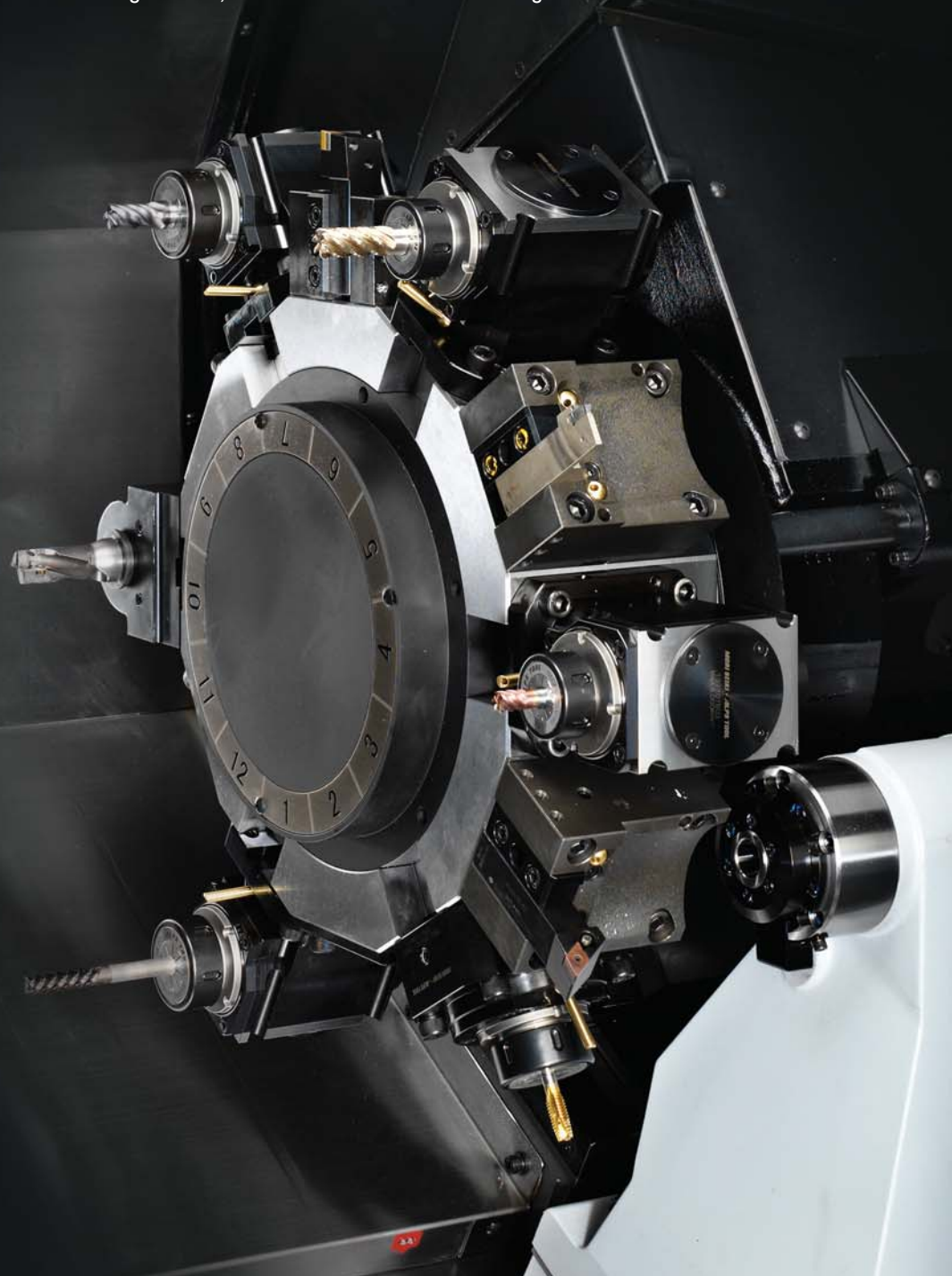
Turn Your CNC Lathe into a Precision Profit Center

We are an OEM manufacturer and supplier for all high quality machine tool builders including Mori-Seiki, Nakamura, Mazak and Okuma. We offer the latest technology you can expect for turning operations.

Our live tools feature gears, bearings and seals built to provide the highest accuracy, rigidity and stability.

Enhanced with our live tooling, your machine will allow you to reduce cycle times, eliminate extra operations and achieve maximum efficiency.

Visit us online at www.lyndexnikken.com to learn more about our complete line of live and static tools. Standard and custom designs, axial and radial configurations, as well as various shank tooling and collets are available.





Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories



Current Promotion

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For Live Tools see page 271



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Accessories

Technical

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AngleHeads™

Lyndex-Nikken AngleHeads are designed to easily and effectively upgrade your machine tool capabilities. RiteAngleHeads, FixedAngleHeads, FlexHeads, Slim RiteAngleHeads and Twin Spindle AngleHeads expand the capabilities of your existing machines.



HiSpinners™

HiSpinners increase your tooling RPMs by up to 10 times (up to 40,000 RPM), enabling you to reduce your cycle times and per-piece costs with your current machines. Minimize spindle wear by letting the tool do the work.

FluidHeads™

Lyndex-Nikken FluidHeads deliver coolant to the point of contact. Heat generated from cutting is eliminated so there is no warping, while cutting tool life is increased and tool breakage is reduced. FluidHeads also provide lubrication and promote superior chip breakage and chip evacuation.

AngleHeads™ Technical Characteristics and Features

Our AngleHeads 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.



Vernier Scales and Positioning Rings

Vernier scales help to orient the cutting tool location (0 - 360°).



Wrenches

The proper wrenches are included with the purchase of your AngleHead.



Collet Seats

Our new Collet Seats provide stable and secure gripping force by having the collet sit totally inserted within the body of the AngleHead.



Locking Pin / Stopper Pin

The positioning pin and ring can also be oriented (0– 360°) to match your machining center's spindle and automatic tool changer configuration by simply adjusting the positioning ring. Their design allows them to be used in most ATCs and machine tool magazines without interference.



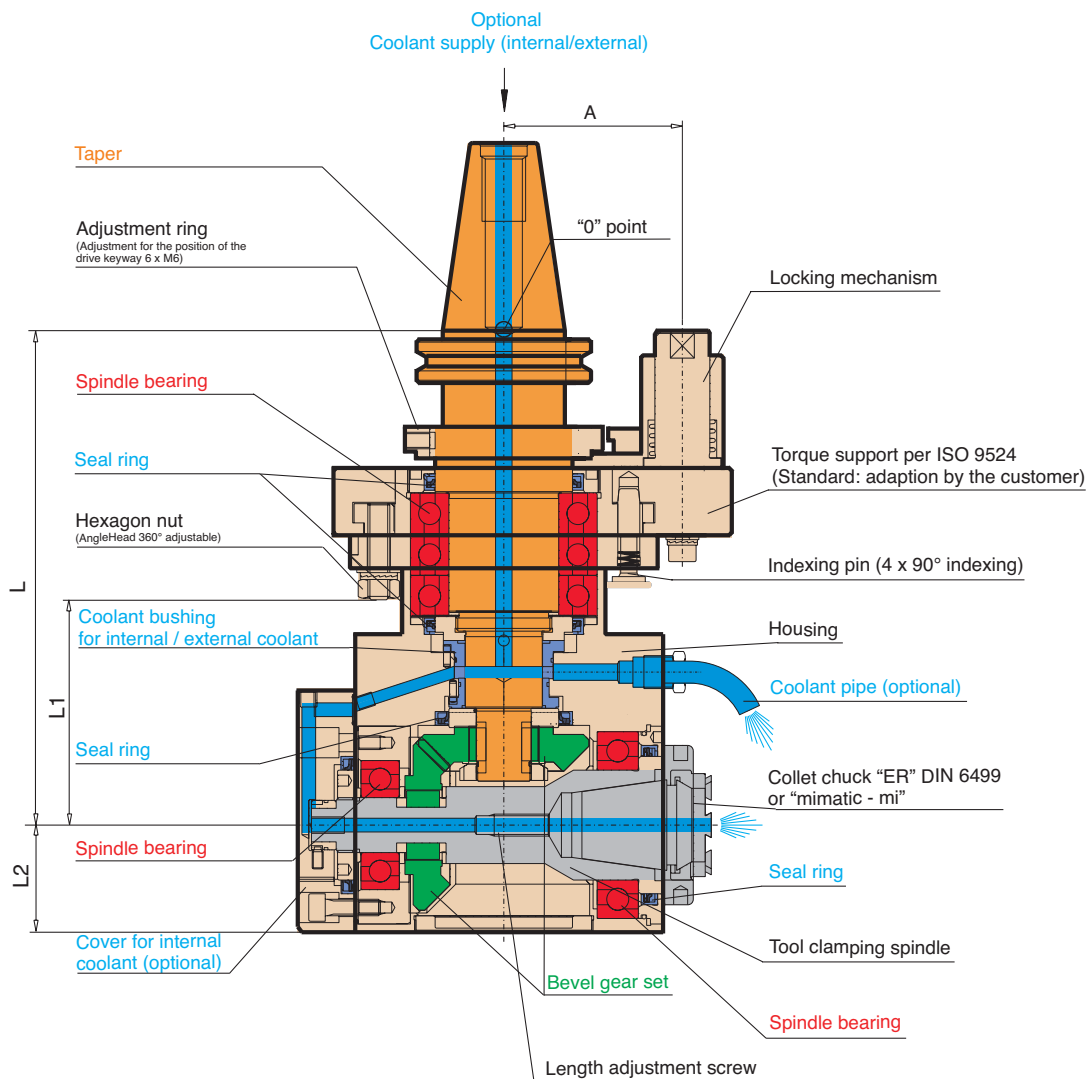
Collet Nut

Combined with our new Collet Seat, featuring grooves and ridges for tightening, the absence of the external nut creates better rigidity and a smaller profile.

AngleHeads™ Technical Characteristics and Features



- High-precision spindle bearing, P4 quality
- Stabilized spindle bearing
- Bevel gear sets with helical toothing
- Permanent lubrication
- AngleHead can be rotated through 360° and is infinitely variable
- 4 x fixed 90° positioning points/ indexations
- High speeds up to 15,000 rpm and high torques up to 150 Nm



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

Technical

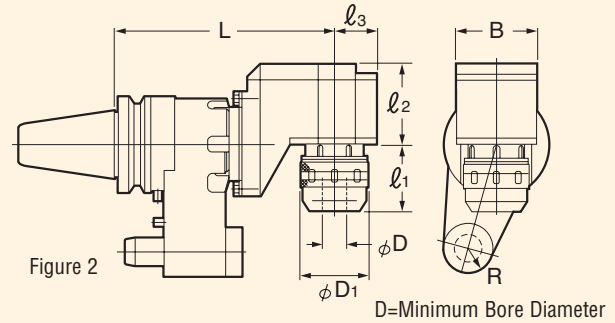
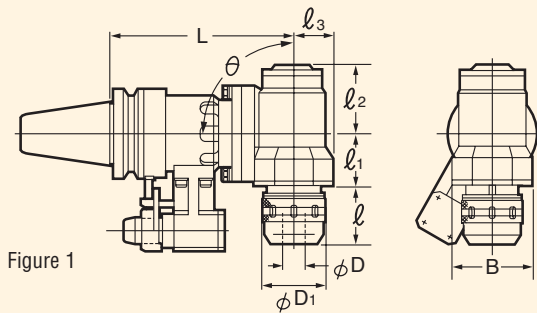
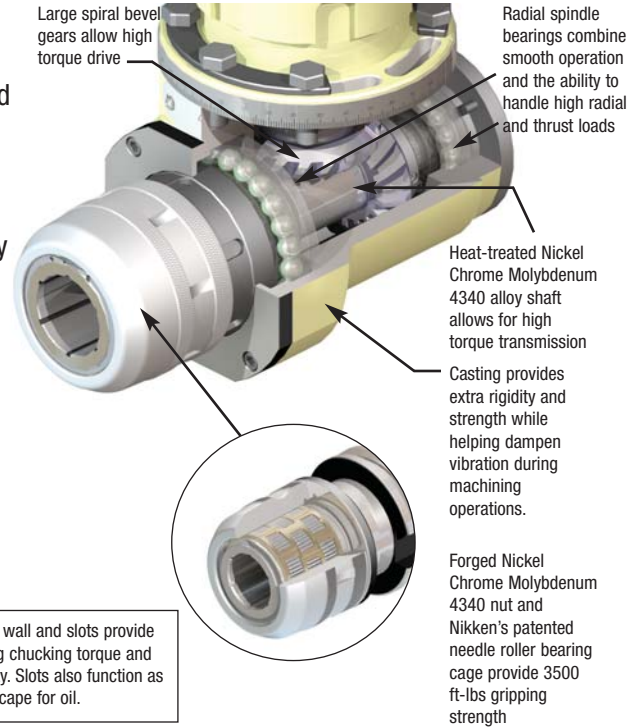
CustomTools™ / Live Tools

Nikken Heavy Duty RiteAngleHeads™



Features

- High torque design for heavy milling and drilling capabilities
- Multi Lock milling chuck nose ensures rigidity and accuracy
- Full 360° body rotation
- Storage case, wrenches, and instruction manual included



Part Number	Taper	Fig.	Collet Series	Weight (lbs.)	D	D1	I	I1	I2	I3	B	RPM
CAT40U-AHC3/4-160-90	CAT40	1	KM3/4	16	2-20mm (.079-.787")	2.047"	2.244"	2.283"	2.402"	1.457"	3.150"	2,000
BT40-AHC3/4-160-90	BT40	1	KM3/4	16	2-20mm (.079-.787")	2.047"	2.244"	2.283"	2.402"	1.457"	3.150"	2,000
CAT50U-AHC1.1/4-210-90	CAT50	1	KM 1-1/4	39	33-32 (.118-1.260")	2.717"	2.244"	2.362"	3.228"	1.772"	3.543"	2,000

40 taper pitch from centerline of taper to centerline of positioning pin=65mm
50 taper pitch from centerline of taper to centerline of positioning pin=110mm

Part Number	Taper	Fig.	Collet Series	Weight (lbs.)	D	D1	I1	I2	I3	B	R	RPM
CAT40U-AFC3/4-205-90	CAT40	2	KM3/4	19	2-20mm (.079-.787")	2.047"	2.205"	3.346"	1.387"	2.756"	0.689"	2,000
BT40-AFC3/4-200-90	BT40	2	KM3/4	19	2-20mm (.079-.787")	2.047"	2.205"	3.346"	1.387"	2.756"	0.689"	2,000
CAT50U-AFC1.1/4-230-90	CAT50	2	KM 1-1/4	37	2-20mm (.079-.787")	2.047"	2.283"	3.346"	1.772"	3.307"	0.984"	2,000

40 taper pitch from centerline of taper to centerline of positioning pin=65mm
50 taper pitch from centerline of taper to centerline of positioning pin=110mm

Accessories:



**KM and NK
Collets**
Page 155-156

Standard RiteAngleHeads™



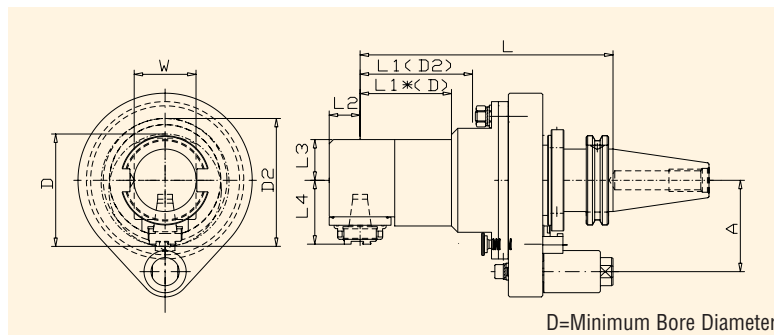
Features

- Ideal for milling, drilling and tapping applications
- Submerged ER collet bore for greater rigidity
- Full 360° body rotation
- Accommodated by most ATC's
- Spiral Bevel Gears for higher cutting torque capabilities
- 1000 PSI Center Thru Coolant versions available
- Storage case, wrenches, and instruction manual included



ER16 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER16 Collet Nut for greater rigidity
- ER Collet capacity 1/32 to 13/32 (.0313 to .406")
- 12 Nm Torque
- Max RPM 6500
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L1*	L2	L3	L4	A	W	D	D2
C40RAM-ER16-180	CAT40	13	7.087"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"
B40RAM-ER16-187	BT40	13	7.362"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"
H63ARAM-ER16-187	HSK63	13	7.362"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"



For Coolant Thru Version, please add (C) after part number.
Machine must have center thru spindle coolant.
Coolant versions cannot be run dry (coolant must be flowing at all times).

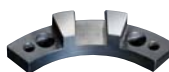
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



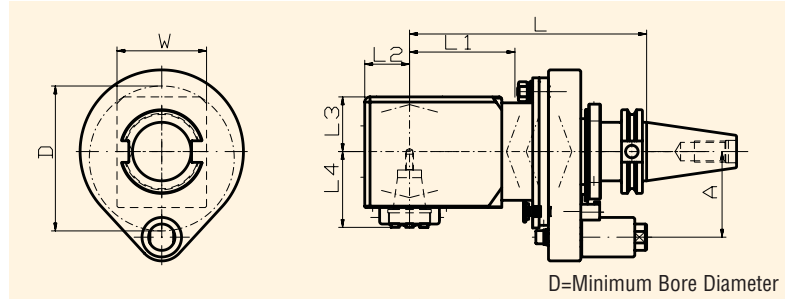
Positioning Block
Page 263

Standard RiteAngleHeads™



ER25 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER25 Collet Nut for greater rigidity
- ER25 Collet capacity 1/16 to 5/8 (.0625 to .625")
- 30 Nm Torque
- Max RPM 8000
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-ER25-180	CAT40	14	7.087"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
B40RAM-ER25-187	BT40	14	7.362"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
H63ARAM-ER25-187	HSK63	14	7.362"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
C50RAM-ER25-180	CAT50	23	7.087"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"
B50RAM-ER25-190	BT50	23	7.480"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"
H10ARAM-ER25-190	HSK100	23	7.480"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"

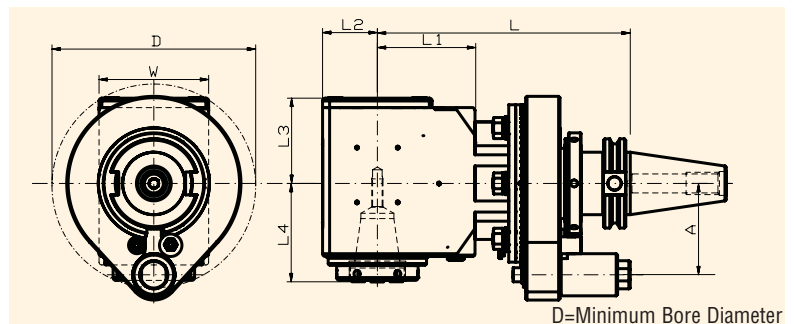


For Coolant Thru Version, please add (C) after part number. Machine must have center thru spindle coolant. Coolant versions cannot be run dry (coolant must be flowing at all times).



ER32 and 40 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER32 and 40 Collet Nut for greater rigidity
- ER32 Collet capacity 1/8 to 25/32 (.125 to .781")
- ER40 Collet capacity 5/32 to 1" (.156 to 1")
- 70 Nm Torque for ER32 Type
- 150 Nm Torque for ER40 Type
- Max RPM 8000
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-ER32-180	CAT40	18	7.087"	3.150"	1.457"	2.402"	2.756"	2.559"	3.071"	5.709"
B40RAM-ER32-187	BT40	18	7.362"	3.150"	1.535"	2.402"	2.756"	2.559"	3.071"	5.709"
H63ARAM-ER32-187	HSK63	18	7.362"	3.150"	1.535"	2.402"	2.756"	2.559"	3.071"	5.709"
C50RAM-ER32-180	CAT50	26	7.087"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
B50RAM-ER32-190	BT50	26	7.480"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
H10ARAM-ER32-190	HSK100	26	7.480"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
C50RAM-ER40-215	CAT50	36	8.465"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"
B50RAM-ER40-225	BT50	36	8.858"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"
H10ARAM-ER40-225	HSK100	36	8.858"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"



For Coolant Thru Version, please add (C) after part number. Machine must have center thru spindle coolant. Coolant versions cannot be run dry (coolant must be flowing at all times).

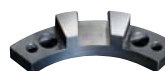
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



Positioning Block
Page 263

Offset Type RiteAngleHeads™



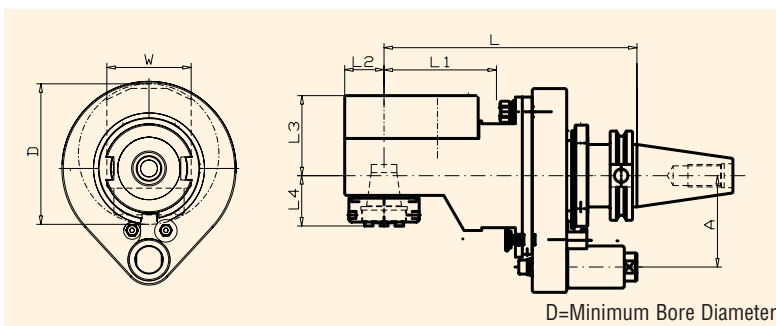
Features

- Offset type provides additional clearance and rigidity by minimizing the distance between the spindle centerline to the face of the collet nut
- Submerged ER collet bore for greater rigidity
- Full 360° body rotation
- Accommodated by most ATC's
- Spiral Bevel Gears for higher cutting torque capabilities
- 1000 PSI Center Thru Coolant versions available
- Storage case, wrenches, and instructional manual included



ER25 Type Specifications

- Spindle rotation matches machine spindle
Input Clockwise: Output Clockwise
- Gear Ratio 1:1
- Submerged ER25 Collet Nut for greater rigidity
- ER Collet capacity 1/16 to 5/8 (.0625 to .625")
- 30 Nm Torque
- Max RPM 8000
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-ER25-1800T	CAT40	14	7.087"	2.205"	1.102"	2.244"	1.409"	2.559"	2.362"	3.937"
B40RAM-ER25-1870T	BT40	15	7.362"	2.205"	1.102"	2.244"	1.409"	2.559"	2.362"	3.937"
H63ARAM-ER25-1870T	HSK63A	14	7.362"	2.205"	1.102"	2.244"	1.409"	2.559"	2.362"	3.937"
C50RAM-ER25-1850T	CAT50	25	7.283"	2.205"	1.102"	2.244"	1.409"	3.150"	2.362"	3.937"
B50RAM-ER25-1950T	BT50	26	7.677"	2.205"	1.102"	2.244"	1.409"	3.150"	2.362"	3.937"
H10ARAM-ER25-1950T	HSK100A	24	7.677"	2.205"	1.102"	2.244"	1.409"	3.150"	2.362"	3.937"



Min. dia.
without tool

For Coolant Thru Version, please add (C) after part number.
Machine must have center thru spindle coolant.
Coolant versions cannot be run dry (coolant must be flowing at all times).

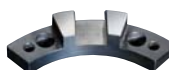
Accessories:



ER Collets
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ER Torque Wrench
Page 55



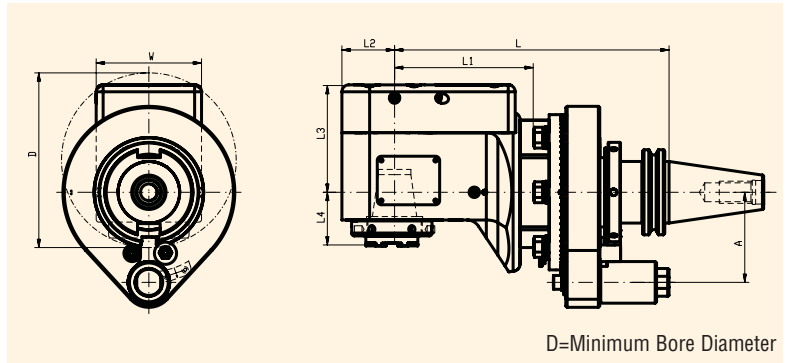
Positioning Block
Page 263

Offset Type RiteAngleHeads™



ER32 and 40 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER32 and 40 Nut for greater rigidity
- ER32 Collet capacity 1/8 to 25/32 (.125 to .781")
- ER40 Collet capacity 5/32 to 1" (.156 to 1")
- 70 Nm Torque for ER32 Type
- 150 Nm Torque for ER40 Type
- Max RPM 6000 for ER32
- Max RPM 5000 for ER40
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-ER32-2000T	CAT40	19	7.874"	2.539"	1.496"	3.051"	1.268"	2.559"	3.150"	4.961"
B40RAM-ER32-2070T	BT40	19	8.150"	2.539"	1.496"	3.051"	1.268"	2.559"	3.150"	4.961"
H63ARAM-ER32-2070T	HSK63A	19	8.150"	2.539"	1.496"	3.051"	1.268"	2.559"	3.150"	4.961"
C50RAM-ER32-2000T	CAT50	29	7.874"	2.539"	1.496"	3.051"	1.268"	3.150"	3.150"	4.961"
B50RAM-ER32-2100T	BT50	29	8.268"	2.539"	1.496"	3.051"	1.268"	3.150"	3.150"	4.961"
H10ARAM-ER32-2100T	HSK100A	29	8.268"	2.539"	1.496"	3.051"	1.268"	3.150"	3.150"	4.961"
C50RAM-ER40-2600T	CAT50	40	10.236"	3.831"	2.047"	3.504"	1.370"	3.150"	4.094"	5.512"
B50RAM-ER40-2700T	BT50	42	10.630"	3.831"	2.047"	3.504"	1.370"	3.150"	4.094"	5.512"
H10ARAM-ER40-2700T	HSK100A	39	10.630"	3.831"	2.047"	3.504"	1.370"	3.150"	4.094"	5.512"



Min. dia.
without tool

For Coolant Thru Version, please add (C) after part number.
Machine must have center thru spindle coolant.
Coolant versions cannot be run dry (coolant must be flowing at all times).

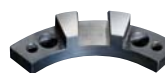
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



Positioning Block
Page 263

Economy 40 Taper RiteAngleHeads™

Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

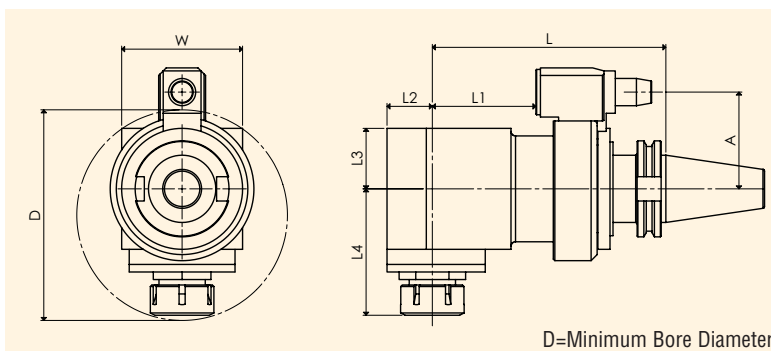
Technical

CustomTools™ / Live Tools



Features

- The ER 25 Economy RiteAngleHead permits you to realize the benefits of a RiteAngleHead at a lower cost than one of our deluxe models - Its speed and work load ratings are sufficient for most operations
- Full 360° body rotation with positive compression locking
- Accommodated by most ATC's
- Positioning block adapter, chuck nut wrench and instruction manual included



ER25 Type Specifications

- Max RPM 8000
- ER 25 Collet Type (.039" to 0.629" capacity)
- Spindle rotation opposite to machine spindle (Input Clockwise: Output Counterclockwise)
- 50 Nm Torque
- Gear Ratio 1:1

Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RA-0025M	CAT40	12	6.102"	2.047"	1.181"	1.575"	3.335"	2.559"	3.150"	5.433"
B40RA-0025*	BT40	16	5.906"	2.677"	1.181"	1.575"	3.294"	2.559"	3.150"	5.591"

*BT40 version max RPM is 2000.



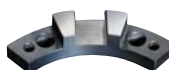
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
Page 55



Positioning Block
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Slim Type RiteAngleHeads™



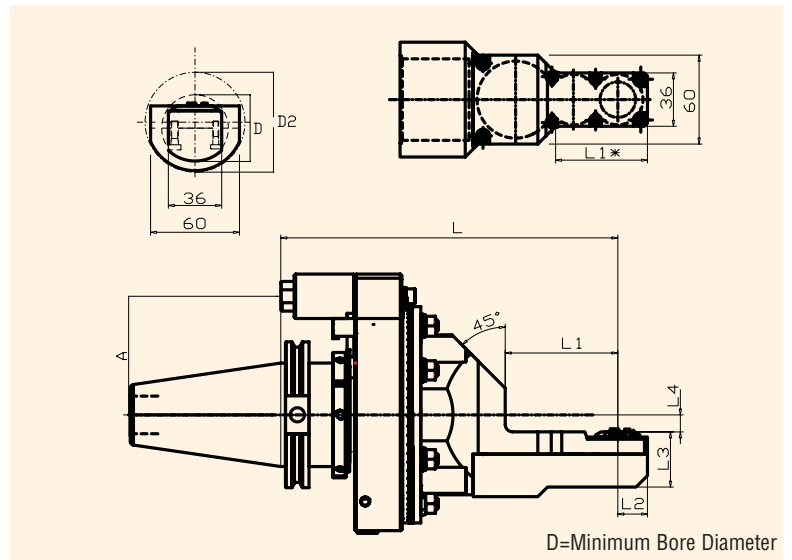
Features

- Ideal for machining operations in tight quarters
- Submerged ER collet bore for greater rigidity
- Full 360° body rotation
- Accommodated by most ATC's
- Spiral Bevel Gears for higher cutting torque capabilities
- Storage case, wrenches, and instructional manual included



ER11 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER11 Collet Nut for greater rigidity
- ER11 Collet capacity 1/32 to 17/64 (.0313 to .266")
- 15 Nm Torque
- Max RPM 10,000



Part Number	Taper	Weight (lbs.)	L	L1	L1*	L2	L3	L4	A	D	D2
C40RAM-ER11-208ST	CAT40	15.5	8.957"	2.992"	2.441"	0.787"	1.465"	0.453"	3.150"	1.772"	2.654"
C50RAM-ER11-208ST	CAT50	26	8.957"	2.992"	2.441"	0.787"	1.465"	0.453"	3.150"	1.772"	2.654"



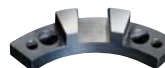
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
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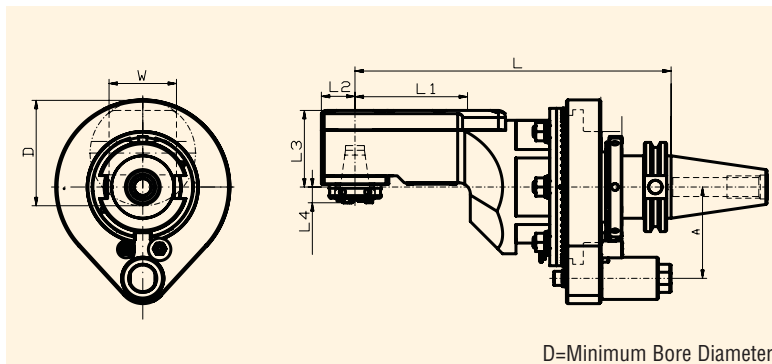


Positioning Block
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Slim Type RiteAngleHeads™

ER20 and ER25 Type Specifications

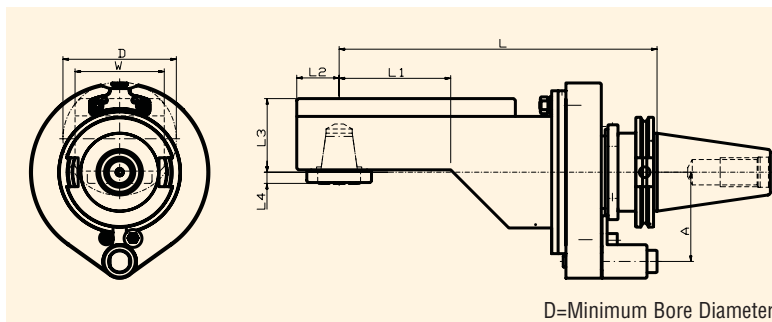
- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER20 and ER25 Collet Nut for greater rigidity
- ER20 Collet capacity 1/16 to 5/8 (.0625 to .625")
- ER 25 Collet capacity 1/16 to 5/8 (.0625 to .625")
- ER20 15Nm Torque
- ER25 30 Nm Torque
- ER20 max RPM 10,000
- ER25 max RPM 8,000



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-ER20-225ST	CAT40	13	8.858"	3.150"	0.945"	2.146"	0.441"	2.559"	1.890"	2.756"
B40RAM-ER20-232ST	BT40	13	9.134"	3.150"	0.945"	2.146"	0.441"	2.559"	1.890"	2.756"
H63ARAM-ER20-232ST	HSK63A	13	9.134"	3.150"	0.945"	2.146"	0.441"	2.559"	1.890"	2.756"
C40RAM-ER25-215ST	CAT40	14	8.465"	3.150"	1.102"	2.559"	0.394"	2.559"	2.205"	3.228"
B40RAM-ER25-222ST	BT40	14	8.740"	3.150"	1.102"	2.559"	0.394"	2.559"	2.205"	3.228"
H63ARAM-ER25-222ST	HSK63A	14	8.740"	3.150"	1.102"	2.559"	0.394"	2.559"	2.205"	3.228"

ER32 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- Submerged ER32 Nut for greater rigidity
- ER32 Collet capacity 1/8 to 25/32 (.125 to .781")
- 70 Nm Torque for ER32 Type
- Max RPM 6000



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C50RAM-ER32-285ST	CAT50	27.5	11.220"	3.937"	1.496"	2.598"	0.394"	3.150"	3.150"	4.016"
B50RAM-ER32-295ST	BT50	30	11.614"	3.937"	1.496"	2.598"	0.394"	3.150"	3.150"	4.016"
H10ARAM-ER32-295ST	HSK100A	26	11.614"	3.937"	1.496"	2.598"	0.394"	3.150"	3.150"	4.016"

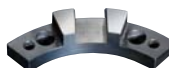
Accessories:



ER Collets
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Twin Spindle AngleHeads™

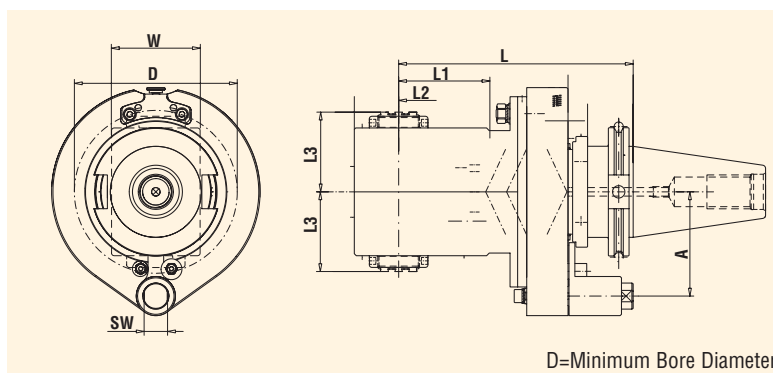


Features

- Capable to perform machining operations in opposite directions with 1 right angle head
- Full 360° body rotation
- Storage case, wrenches, and instruction manual included

ER25, ER32 and ER40 Type Specifications

- Gear Ratio 1:1
- Spindle rotation matches machine spindle Input Clockwise: Output Clockwise
- ER25: 30 Nm Torque, Max RPM 8000
- ER32: 70 Nm Torque, Max RPM 6500
- ER25: 150 Nm Torque, Max RPM 4000



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	A	W	D
C40RAM-ER25-180TS	CAT40	16.5	7.087"	3.150"	1.339"	2.407"	2.559"	2.677"	4.921"
B40RAM-ER25-187TS	BT40	16.5	7.362"	3.150"	1.339"	2.407"	2.559"	2.677"	4.921"
H63ARAM-ER25-187TS	HSK63A	16.5	7.362"	3.150"	1.339"	2.407"	2.559"	2.677"	4.921"
C50RAM-ER25-180TS	CAT50	25	7.087"	2.756"	1.339"	2.407"	3.150"	2.677"	4.921"
B50RAM-ER25-190TS	BT50	25	7.480"	2.756"	1.339"	2.407"	3.150"	2.677"	4.921"
H10ARAM-ER25-190TS	HSK100A	25	7.480"	2.756"	1.339"	2.407"	3.150"	2.677"	4.921"
C40RAM-ER32-180TS	CAT40	19	7.087"	3.150"	1.535"	2.803"	2.559"	3.071"	5.984"
B40RAM-ER32-187TS	BT40	19	7.362"	3.150"	1.535"	2.803"	2.559"	3.071"	5.984"
H63ARAM-ER32-187TS	HSK63A	19	7.362"	3.150"	1.535"	2.803"	2.559"	3.071"	5.984"
C50RAM-ER32-180TS	CAT50	30	7.087"	2.756"	1.535"	2.803"	3.150"	3.071"	5.984"
B50RAM-ER32-190TS	BT50	30	7.480"	2.756"	1.535"	2.803"	3.150"	3.071"	5.984"
H10ARAM-ER32-190TS	HSK100A	27.5	7.480"	2.756"	1.535"	2.803"	3.150"	3.071"	5.984"
C50RAM-ER40-215TS	CAT50	43	8.465"	6.496"	2.126"	4.055"	3.150"	4.252"	8.268"
B50RAM-ER40-225TS	BT50	44	8.858"	6.496"	2.126"	4.055"	3.150"	4.252"	8.268"
H10ARAM-ER40-225TS	HSK100A	42	8.858"	6.496"	2.126"	4.055"	3.150"	4.252"	8.268"



Min. bore diameter without cutter

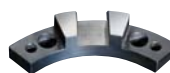
Accessories:



ER Collets
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ER Torque Wrench
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Positioning Block
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Universal FlexHeads™

Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

Technical

CustomTools™ / Live Tools

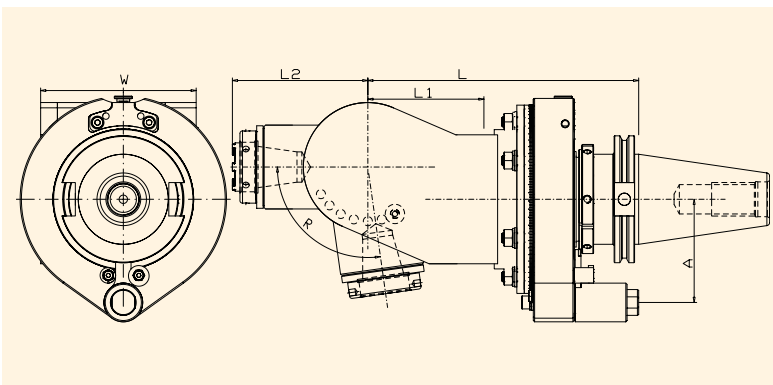


Features and Specifications

- 0-98° angle positioning with precise vernier alignment
- Body can be rotated 360°
- Compatible with most Automatic Tool Changes (ATC's)
- Wrenches, case and manual included
- Available in Coolant Thru (1000PSI)
(All coolant units must be ran with coolant-no dry running at anytime)

ER20, ER25 and ER32 Type Specifications

- Spindle rotation opposite to machine spindle Input Clockwise: Output Counterclockwise
- ER20: 15 Nm Torque, 1/16-1/2 (.0625 to .500") capacity
- ER25: 30 Nm Torque, 1/16-5/8 (.0625 to .625") capacity
- ER32: 70 Nm Torque, 1/8-25/32 (.125 to .781") capacity



Part Number	Taper	Weight (lbs.)	RPM (gear ratio)	L	L1	L2	A	W	R
C40FHM-ER20-198	CAT40	17.6	8000 (1:1)*	7.795"	3.543"	3.098"	2.559"	3.780"	0-98°
B40FHM-ER20-205	BT40	17.6	8000 (1:1)*	8.071"	3.543"	3.098"	2.559"	3.780"	0-98°
H63AFHM-ER20-205	HSK63A	17.6	8000 (1:1)*	8.071"	3.543"	3.098"	2.559"	3.780"	0-98°
C40FHM-ER25-195	CAT40	21.2	7000 (1:1)*	7.677"	3.543"	3.150"	2.559"	4.370"	0-98°
B40FHM-ER25-202	BT40	21.2	7000 (1:1)*	7.953"	3.543"	3.150"	2.559"	4.370"	0-98°
H63AFHM-ER25-202	HSK63A	21.2	7000 (1:1)*	7.953"	3.543"	3.150"	2.559"	4.370"	0-98°
C50FHM-ER25-195	CAT50	31	7000 (1:1)*	7.677"	3.346"	3.150"	3.150"	4.370"	0-98°
B50FHM-ER25-205	BT50	31	7000 (1:1)*	8.071"	3.346"	3.150"	3.150"	4.370"	0-98°
H100AFHM-ER25-205	HSK100A	31	7000 (1:1)*	8.071"	3.346"	3.150"	3.150"	4.370"	0-98°
C50FHM-ER32-210	CAT50	33	6000 (1:1)*	8.465"	4.134"	3.740"	3.150"	5.197"	0-98°
B50FHM-ER32-220	BT50	33	6000 (1:1)*	8.858"	4.134"	3.740"	3.150"	5.197"	0-98°
H100AFHM-ER32-220	HSK100A	33	6000 (1:1)*	8.858"	4.134"	3.740"	3.150"	5.197"	0-98°



Lyndex-Nikken will gladly help verify clearance and application. Contact us for 3D models or send us the dimensions of your workpiece!

Add C to part number for Internal Coolant Thru Style.

*Optional 15000 RPM (for ER20 type), 13500 RPM (for ER25 type) and 12000 RPM (1:2.25 gear ratio)(for ER32 type) also available.

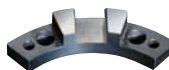
Accessories:



ER Collets
Pages 46-53



ER Torque Wrench
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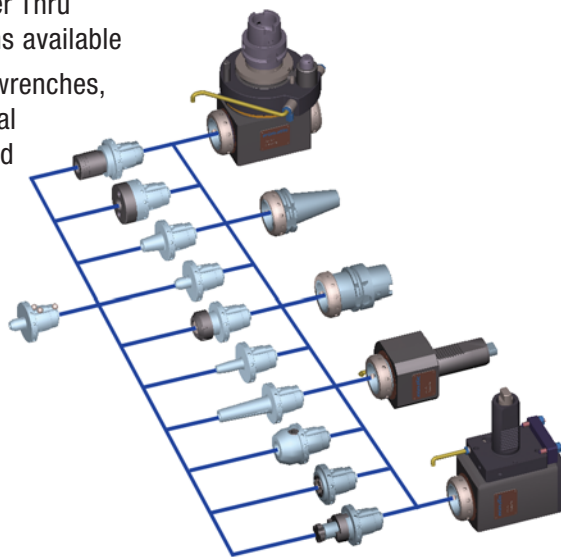
Positioning Block
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Quick Change AngleHeads™



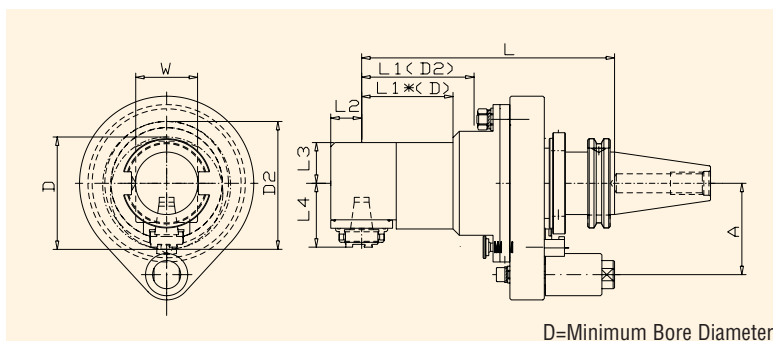
Features

- Ideal for milling, drilling and tapping applications
- Submerged ER collet bore for greater rigidity
- Full 360° body rotation
- Accommodated by most ATC's
- Spiral Bevel Gears for higher cutting torque capabilities
- 1000 PSI Center Thru Coolant versions available
- Storage case, wrenches, and instructional manual included



MI32 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- .0002" MI 32 Quick Change adapter repeatability
- Many options offer flexibility for all milling, drilling, and tapping operations
- 12 Nm Torque
- Max RPM 6500
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L1*	L2	L3	L4	A	W	D	D2
C40RAM-MI32-180	CAT40	13	7.087"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"
B40RAM-MI32-187	BT40	13	7.362"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"
H63ARAM-MI32-187	HSK63	13	7.362"	3.150"	2.559"	0.866"	1.142"	1.772"	2.559"	1.732"	3.150"	3.583"

For Coolant Thru Version, please add (C) after part number.
Machine must have center thru spindle coolant.
Coolant versions cannot be run dry (coolant must be flowing at all times).

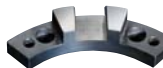
Accessories:



ER Collets
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MI Attachments
Pages 257-261

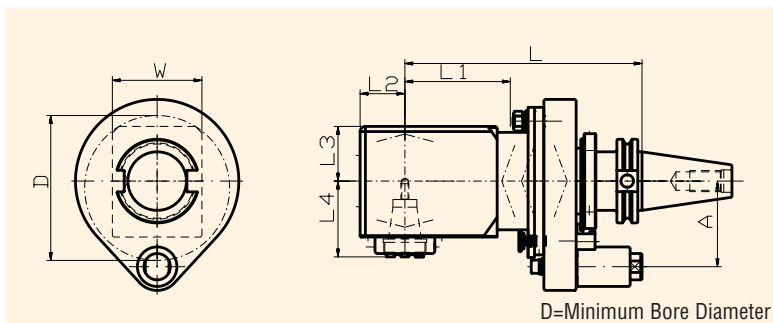


Positioning Block
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Quick Change AngleHeads™

MI40 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- .0002" MI32 Quick Change adapter repeatability
- Many options offer flexibility for all milling, drilling, and tapping operations
- 30 Nm Torque
- Max RPM 8000
- Coolant Thru Type are 1000 PSI capable

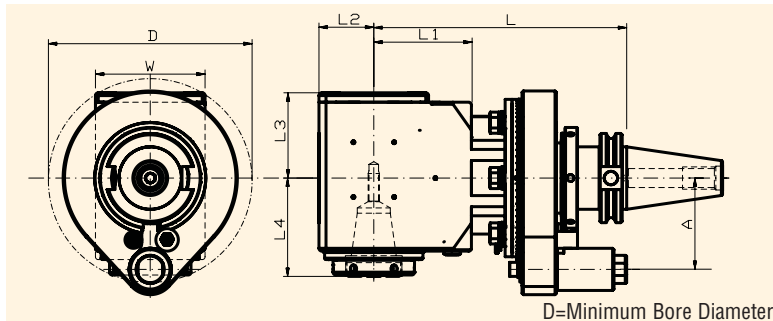


Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-MI40-180	CAT40	14	7.087"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
B40RAM-MI40-187	BT40	14	7.362"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
H63ARAM-MI40-187	HSK63	14	7.362"	3.150"	1.339"	1.634"	2.264"	2.559"	2.677"	4.331"
C50RAM-MI40-180	CAT50	23	7.087"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"
B50RAM-MI40-190	BT50	23	7.480"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"
H10ARAM-MI40-190	HSK100	23	7.480"	2.756"	1.339"	1.634"	2.264"	3.150"	2.677"	4.331"

For Coolant Thru Version, please add (C) after part number. Machine must have center thru spindle coolant. Coolant versions cannot be run dry (coolant must be flowing at all times).

MI50 and 63 Type Specifications

- Spindle rotation opposite to machine spindle
Input Clockwise: Output Counterclockwise
- Gear Ratio 1:1
- .0002" MI50 and 63 Quick Change adapter repeatability
- Many options offer flexibility for all milling, drilling, and tapping operations
- 70 Nm Torque for MI50 Type
- 150 Nm Torque for MI63 Type
- Max RPM 8000
- Coolant Thru Type are 1000 PSI capable



Part Number	Taper	Weight (lbs.)	L	L1	L2	L3	L4	A	W	D
C40RAM-MI50-180	CAT40	18	7.087"	3.150"	1.457"	2.402"	2.756"	2.559"	3.071"	5.709"
B40RAM-MI50-187	BT40	18	7.362"	3.150"	1.535"	2.402"	2.756"	2.559"	3.071"	5.709"
H63ARAM-MI50-187	HSK63	18	7.362"	3.150"	1.535"	2.402"	2.756"	2.559"	3.071"	5.709"
C50RAM-MI50-180	CAT50	26	7.087"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
B50RAM-MI50-190	BT50	26	7.480"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
H10ARAM-MI50-190	HSK100	26	7.480"	2.756"	1.535"	2.402"	2.756"	3.150"	3.071"	5.709"
C50RAM-MI63-215	CAT50	36	8.465"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"
B50RAM-MI63-225	BT50	36	8.858"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"
H10ARAM-MI63-225	HSK100	36	8.858"	4.134"	2.047"	2.756"	3.799"	3.150"	4.094"	7.283"

For Coolant Thru Version, please add (C) after part number. Machine must have center thru spindle coolant. Coolant versions cannot be run dry (coolant must be flowing at all times).

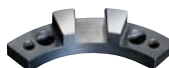
Accessories:



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MI Attachments
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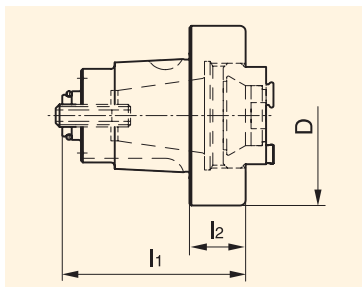


Positioning Block
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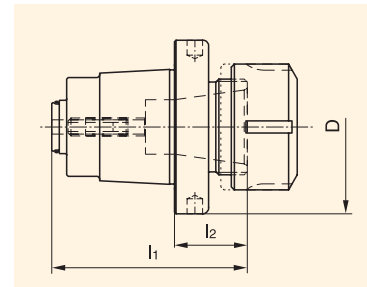
Mimatic® MI Attachments

Collet Chuck DIN 6499 - Type ER

Short type, clamping nut inside



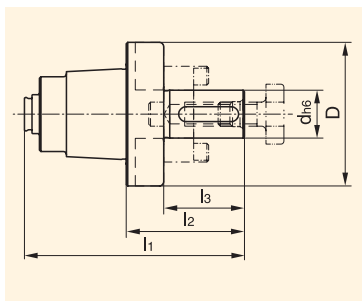
Long type, clamping nut outside



Part Number	Size	Collet	I1	I2	D
121479	MI32	ER11	1.634"	0.591"	1.654"
155357	MI32	ER16	1.634"	0.591"	1.654"
155388	MI40	ER16	1.772"	0.433"	1.890"
155335	MI40	ER20	1.929"	0.591"	1.890"
155367	MI40	ER25	2.165"	0.827"	1.890"
155418	MI50	ER25	2.165"	0.551"	2.283"
155460	MI50	ER32	2.323"	0.709"	2.283"
155471	MI63	ER32	2.480"	0.551"	2.953"
155496	MI63	ER40	2.717"	0.787"	2.953"

Part Number	Size	Collet	I1	I2	D
155358	MI32	ER11	2.461"	1.417"	1.654"
155319	MI32	ER16	1.988"	0.945"	1.654"
121460	MI40	ER16	2.283"	0.945"	1.890"
121502	MI40	ER20	2.520"	1.181"	1.890"
155448	MI50	ER25	2.571"	1.614"	2.283"
155445	MI50	ER32	2.835"	1.850"	2.283"
155475	MI63	ER32	3.150"	1.850"	2.953"
155451	MI63	ER40	3.307"	0.791"	2.953"

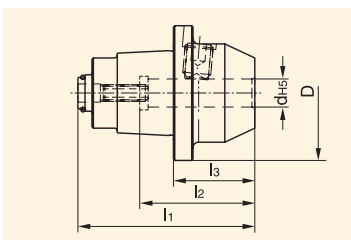
Combination Shell End Mill Arbor



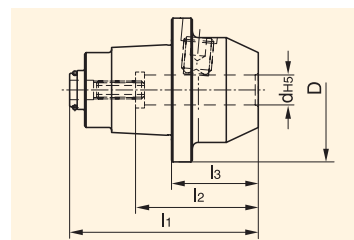
Part Number	Size	I1	I2	I3	d(h6)	D
121486	MI32	2.598"	1.555"	1.063"	16mm (.630")	1.654"
155365	MI40	2.894"	1.555"	0.984"	16mm (.630")	1.890"
155447	MI50	3.228"	1.614"	1.063"	16mm (.630")	2.283"
155413	MI50	3.465"	1.850"	1.220"	22mm (.866")	2.283"
SM3/4	MI50	3.150"	1.496"	1.260"	.750" (3/4")	2.283"
155512	MI63	3.780"	1.850"	1.220"	22mm (.866")	2.953"
155465	MI63	3.858"	1.929"	1.299"	27mm (1.063")	2.953"

Mimatic® MI Attachments

Weldon Toolholder DIN 1835 B



Whistle Notch Toolholder DIN 1835 E



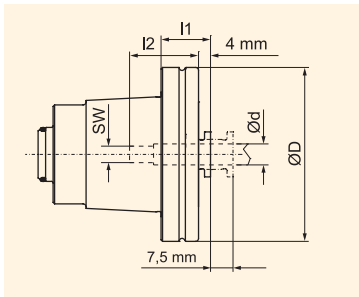
Part Number	Size	I1	I2	I3	d(H5)	D
121436	MI32	2.067"	1.457"	1.024"	6	1.654"
121478	MI32	2.067"	1.457"	1.024"	8	1.654"
121469	MI32	2.185"	1.614"	1.142"	10	1.654"
121439	MI32	2.264"	1.811"	1.220"	12	1.654"
121449	MI32	2.067"	1.457"	1.024"	1/4"	1.654"
121472	MI32	2.185"	1.614"	1.142"	3/8"	1.654"
121448	MI32	2.264"	1.811"	1.220"	1/2"	1.654"
155330	MI40	2.362"	1.457"	1.024"	6	1.890"
155346	MI40	2.362"	1.457"	1.024"	8	1.890"
155321	MI40	2.480"	1.614"	1.142"	10	1.890"
155331	MI40	2.559"	1.811"	1.220"	12	1.890"
155326	MI40	2.559"	1.811"	1.220"	14	1.890"
155379	MI40	2.677"	1.929"	1.339"	16	1.890"
121497	MI40	2.362"	1.457"	1.024"	1/4"	1.890"
121475	MI40	2.480"	1.614"	1.142"	3/8"	1.890"
121474	MI40	2.559"	1.811"	1.220"	1/2"	1.890"
121499	MI40	2.677"	1.929"	1.339"	5/8"	1.890"
155419	MI50	2.559"	1.457"	0.945"	6	2.283"
155411	MI50	2.598"	1.614"	0.984"	8	2.283"
155400	MI50	2.756"	1.811"	1.142"	10	2.283"
155406	MI50	2.874"	1.929"	1.260"	12	2.283"
155412	MI50	2.874"	1.457"	1.260"	14	2.283"
155407	MI50	2.913"	1.614"	1.299"	16	2.283"
155427	MI50	3.071"	1.811"	1.457"	20	2.283"
121489	MI50	2.559"	1.457"	0.945"	1/4"	2.283"
121529	MI50	1.575"	1.614"	1.142"	3/8"	2.283"
121525	MI50	2.874"	1.811"	1.260"	1/2"	2.283"
121520	MI50	2.953"	1.929"	1.339"	5/8"	2.283"
121526	MI50	3.071"	2.008"	1.457"	3/4"	2.283"
155470	MI63	3.189"	1.457"	1.457"	6	2.953"
155459	MI63	3.228"	1.457"	1.457"	8	2.953"
155490	MI63	3.346"	1.614"	1.417"	10	2.953"
155509	MI63	3.484"	1.811"	1.535"	12	2.953"
155463	MI63	3.484"	1.811"	1.535"	14	2.953"
155482	MI63	3.583"	1.929"	1.654"	16	2.953"
155474	MI63	3.661"	2.008"	1.732"	20	2.953"
155464	MI63	4.331"	2.323"	2.402"	25	2.953"
166815	MI63	3.189"	1.457"	1.260"	1/4"	2.953"
166805	MI63	3.346"	1.614"	1.417"	3/8"	2.953"
166813	MI63	3.484"	1.811"	1.555"	1/2"	2.953"
166807	MI63	3.583"	1.929"	1.654"	5/8"	2.953"
166804	MI63	3.661"	2.008"	1.732"	3/4"	2.953"
166812	MI63	4.331"	2.323"	2.402"	1"	2.953"

Part Number	Size	I1	I2	I3	d(H5)	D
121463	MI32	2.067"	1.417"	1.024"	6	1.654"
121464	MI32	2.067"	1.417"	1.024"	8	1.654"
121443	MI32	2.185"	1.575"	1.142"	10	1.654"
121453	MI32	2.264"	1.772"	1.220"	12	1.654"
121442	MI32	2.067"	1.417"	1.024"	1/4"	1.654"
121485	MI32	2.185"	1.575"	1.142"	3/8"	1.654"
121480	MI32	2.264"	1.772"	1.220"	1/2"	1.654"
155369	MI40	2.362"	1.417"	1.024"	6	1.890"
155363	MI40	2.362"	1.417"	1.024"	8	1.890"
155370	MI40	2.480"	1.575"	1.142"	10	1.890"
155364	MI40	2.559"	1.772"	1.220"	12	1.890"
155333	MI40	2.559"	1.772"	1.220"	14	1.890"
155382	MI40	2.677"	1.890"	1.339"	16	1.890"
121492	MI40	2.362"	1.417"	1.024"	1/4"	1.890"
121493	MI40	2.480"	1.575"	1.142"	3/8"	1.890"
121455	MI40	2.559"	1.772"	1.220"	1/2"	1.890"
121494	MI40	2.677"	1.890"	1.339"	5/8"	1.890"
155416	MI50	2.559"	1.417"	0.945"	6	2.283"
155401	MI50	2.598"	1.417"	0.984"	8	2.283"
155383	MI50	2.756"	1.575"	1.142"	10	2.283"
155408	MI50	2.874"	1.772"	1.260"	12	2.283"
155435	MI50	2.874"	1.772"	1.260"	14	2.283"
155436	MI50	2.972"	1.890"	1.358"	16	2.283"
155384	MI50	3.071"	1.969"	1.457"	20	2.283"
166816	MI50	2.559"	1.417"	0.945"	1/4"	2.283"
155440	MI50	2.756"	1.575"	1.142"	3/8"	2.283"
155434	MI50	2.874"	1.772"	1.260"	1/2"	2.283"
155428	MI50	2.953"	1.890"	1.339"	5/8"	2.283"
155385	MI50	3.071"	1.969"	1.457"	3/4"	2.283"
166104	MI63	3.189"	1.417"	1.260"	6	2.953"
166105	MI63	3.228"	1.417"	1.299"	8	2.953"
166110	MI63	3.346"	1.575"	1.417"	10	2.953"
166112	MI63	3.484"	1.772"	1.555"	12	2.953"
166113	MI63	3.484"	1.772"	1.555"	14	2.953"
166114	MI63	3.583"	1.890"	1.654"	16	2.953"
166115	MI63	3.661"	1.969"	1.732"	20	2.953"
166116	MI63	4.331"	2.205"	2.402"	25	2.953"
166797	MI63	3.189"	1.417"	1.260"	1/4"	2.953"
166799	MI63	3.346"	1.575"	1.417"	3/8"	2.953"
166796	MI63	3.484"	1.772"	1.555"	1/2"	2.953"
166803	MI63	3.583"	1.890"	1.654"	5/8"	2.953"
166798	MI63	3.661"	1.969"	1.732"	3/4"	2.953"
166795	MI63	4.331"	2.205"	2.402"	1"	2.953"

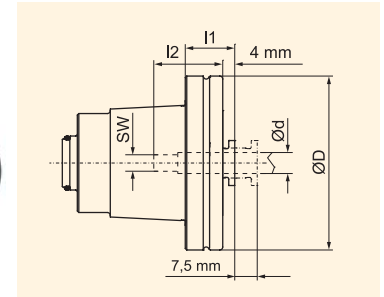
Mimatic® MI Attachments

SYNTAX® Tapping Quick Change Holder

without internal coolant,
with synchronization and length
compensation



with internal coolant (70 bar),
only synchronization



Part Number	Size	I1	I2	d	D	SW
121510	MI40	0.669"	0.984"	3.5mm (.138")	1.890"	0.106"
155397	MI40	0.669"	0.984"	4.5mm (.177")	1.890"	0.134"
155377	MI40	0.669"	1.063"	6mm (.236")	1.890"	0.193"
155378	MI40	0.669"	1.063"	8mm (.315")	1.890"	0.244"
155403	MI40	1.496"	1.102"	9mm (.354")	1.890"	0.276"
121451	MI40	1.496"	1.142"	10mm (.394")	1.890"	0.315"
121498	MI40	1.496"	1.181"	12mm (.472")	1.890"	0.354"
155450	MI50	0.650"	0.984"	3.5mm (.138")	2.283"	0.106"
155487	MI50	0.650"	0.984"	4.5mm (.177")	2.283"	0.134"
155422	MI50	0.650"	1.063"	6mm (.236")	2.283"	0.193"
155455	MI50	0.650"	1.063"	8mm (.315")	2.283"	0.244"
155423	MI50	0.650"	1.102"	9mm (.354")	2.283"	0.276"
155466	MI50	0.650"	1.142"	10mm (.394")	2.283"	0.315"
155449	MI50	0.650"	1.181"	12mm (.472")	2.283"	0.354"
155479	MI50	1.732"	1.299"	16mm (.630")	2.283"	0.472"

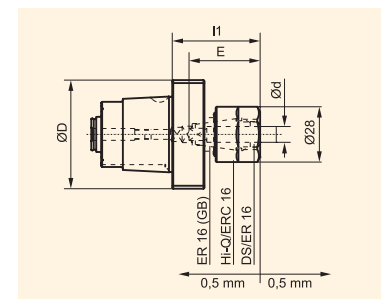
Part Number	Size	I1	I2	d	D	SW
155389	MI40	0.669"	1.063"	6mm (.236")	1.890"	0.193"
121522	MI40	0.669"	1.063"	8mm (.315")	1.890"	0.244"
121515	MI40	1.496"	1.102"	9mm (.354")	1.890"	0.276"
121504	MI40	1.496"	1.142"	10mm (.394")	1.890"	0.315"
121517	MI40	1.496"	1.181"	12mm (.472")	1.890"	0.354"
155432	MI50	0.650"	1.063"	6mm (.236")	2.283"	0.193"
155498	MI50	0.650"	1.063"	8mm (.315")	2.283"	0.244"
155473	MI50	0.650"	1.102"	9mm (.354")	2.283"	0.276"
155467	MI50	0.650"	1.142"	10mm (.394")	2.283"	0.315"
155446	MI50	0.650"	1.181"	12mm (.472")	2.283"	0.354"
121534	MI50	1.732"	1.299"	16mm (.630")	2.283"	0.472"

Quick Change AngleHeads™

Part Number	Description
MI50-STA-#6	#6 Synax Tap Adapter
MI50-STA-#8	#8 Synax Tap Adapter
MI50-STA-#10	#10 Synax Tap Adapter
MI50-STA-#12	#12 Synax Tap Adapter
MI50-STA-1/4	1/4 Synax Tap Adapter
MI50-STA-5/16	5/16 Synax Tap Adapter
MI50-STA-3/8	3/8 Synax Tap Adapter
MI50-STA-7/16	7/16 Synax Tap Adapter
MI50-STA-1/2	1/2 Synax Tap Adapter
MI50-STA-9/16	9/16 Synax Tap Adapter
MI50-STA-5/8	5/8 Synax Tap Adapter

Softsynchro Chuck (Licence Emuge)

with internal coolant,
with push and pull length
compensation 0.5mm



Part Number	Size	Collet	Thread	I1	d	D
121503	MI40	ER-GB16	M4-M12	1.870"	.177-.394"	1.772"
121530	MI50	ER-GB16	M4-M12	1.752"	.177-.394"	1.969"

Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

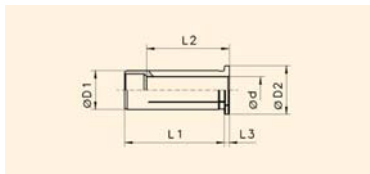
Technical

CustomTools™ / Live Tools

Mimatic® MI Attachments

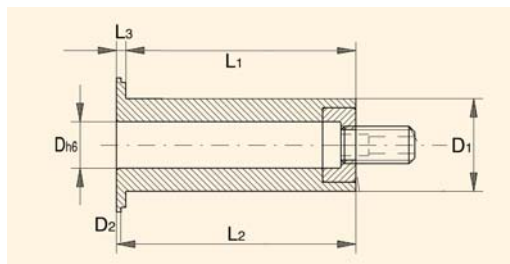
Accessories for Hydraulic Chucks

Sleeve



Part Number	D1	d(h6)	I1	I2	I3	D2
119790	0.472"	3	1.575"	1.142"	0.157"	0.630"
119793	0.472"	1/8"	1.575"	1.142"	0.157"	0.630"
119797	0.472"	4	1.575"	1.142"	0.157"	0.630"
119798	0.472"	3/16"	1.575"	1.142"	0.157"	0.630"
119819	0.472"	5	1.575"	1.142"	0.157"	0.630"
119812	0.472"	6	1.575"	1.417"	0.157"	0.630"
119813	0.472"	1/4"	1.575"	1.417"	0.157"	0.630"
119791	0.472"	7	1.575"	1.457"	0.157"	0.630"
119799	0.472"	5/16"	1.575"	1.457"	0.157"	0.630"
119810	0.472"	8	1.575"	1.457"	0.157"	0.630"
119792	0.472"	9	1.575"	1.457"	0.157"	0.630"
119815	0.472"	3/8"	1.575"	1.575"	0.157"	0.630"
119814	0.472"	10	1.575"	1.575"	0.157"	0.630"
119816	0.787"	3	1.969"	1.102"	0.157"	0.984"
119823	0.787"	1/8"	1.969"	1.102"	0.157"	0.984"
119817	0.787"	4	1.969"	1.102"	0.157"	0.984"
119837	0.787"	3/16"	1.969"	1.102"	0.157"	0.984"
119800	0.787"	5	1.969"	1.102"	0.157"	0.984"
119801	0.787"	6	1.969"	1.417"	0.157"	0.984"
119822	0.787"	1/4"	1.969"	1.417"	0.157"	0.984"
119818	0.787"	7	1.969"	1.496"	0.157"	0.984"
119839	0.787"	5/16"	1.969"	1.457"	0.157"	0.984"
119820	0.787"	8	1.969"	1.457"	0.157"	0.984"
119802	0.787"	9	1.969"	1.496"	0.157"	0.984"
119838	0.787"	3/8"	1.969"	1.496"	0.157"	0.984"
119824	0.787"	10	1.969"	1.575"	0.157"	0.984"
119825	0.787"	11	1.969"	1.575"	0.157"	0.984"
119830	0.787"	7/16"	1.969"	1.772"	0.157"	0.984"
119826	0.787"	12	1.969"	1.772"	0.157"	0.984"
119821	0.787"	1/2"	1.969"	1.772"	0.157"	0.984"
119827	0.787"	14	1.969"	1.772"	0.157"	0.984"
119846	0.787"	9/16"	1.969"	1.772"	0.157"	0.984"
119829	0.787"	5/8"	1.969"	1.890"	0.157"	0.984"
119828	0.787"	16	1.969"	1.890"	0.157"	0.984"
119847	0.984"	3	2.205"	1.142"	0.157"	1.181"
119848	0.984"	4	2.205"	1.142"	0.157"	1.181"
119831	0.984"	5	2.205"	1.142"	0.157"	1.181"
119849	0.984"	6	2.205"	1.457"	0.157"	1.181"
119832	0.984"	7	2.205"	1.457"	0.157"	1.181"
119833	0.984"	8	2.205"	1.457"	0.157"	1.181"
119834	0.984"	9	2.205"	1.496"	0.157"	1.181"
119850	0.984"	10	2.205"	1.575"	0.157"	1.181"
119835	0.984"	12	2.205"	1.811"	0.157"	1.181"

Part Number	D1	d(h6)	I1	I2	I3	D2
119851	0.984"	14	2.205"	1.850"	0.157"	1.181"
119836	0.984"	16	2.205"	1.890"	0.157"	1.181"
119841	0.984"	18	2.205"	1.890"	0.157"	1.181"
119842	0.984"	20	2.205"	1.969"	0.157"	1.181"
119844	1.260"	6	2.362"	1.417"	0.157"	1.417"
119857	1.260"	1/4"	2.362"	1.417"	0.157"	1.417"
119845	1.260"	7	2.362"	1.457"	0.157"	1.417"
119879	1.260"	5/16"	2.362"	1.417"	0.157"	1.417"
119852	1.260"	8	2.362"	1.417"	0.157"	1.417"
119855	1.260"	9	2.362"	1.457"	0.157"	1.417"
119884	1.260"	3/8"	2.362"	1.457"	0.157"	1.417"
119864	1.260"	10	2.362"	1.575"	0.157"	1.417"
119853	1.260"	11	2.362"	1.575"	0.157"	1.417"
119858	1.260"	12	2.362"	1.772"	0.157"	1.417"
119856	1.260"	1/2"	2.362"	1.772"	0.157"	1.417"
119859	1.260"	3/16"	2.362"	1.772"	0.157"	1.417"
119865	1.260"	14	2.362"	1.811"	0.157"	1.417"
119854	1.260"	15/16"	2.362"	1.811"	0.157"	1.417"
119861	1.260"	5/8"	2.362"	1.811"	0.157"	1.417"
119866	1.260"	16	2.362"	1.890"	0.157"	1.417"
119870	1.260"	18	2.362"	1.929"	0.157"	1.417"
119878	1.260"	3/4"	2.362"	1.969"	0.157"	1.417"
119877	1.260"	20	2.362"	1.969"	0.157"	1.417"
119867	1.260"	25	2.362"	2.205"	0.157"	1.417"

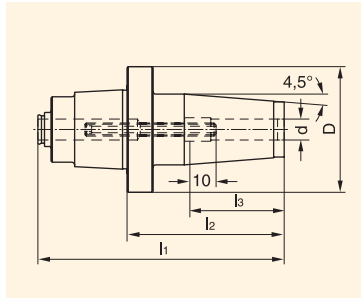


with horizontal adjustment

Part Number	D1	d(h6)	I1	I2	I3	D2
119909	0.787"	6	1.969"	2.047"	-	1.102"
119889	0.787"	8	1.969"	2.047"	-	1.102"
152696	0.787"	10	1.969"	2.047"	-	1.102"
119910	0.787"	12	1.969"	2.047"	-	1.102"
119901	0.787"	14	1.969"	2.047"	-	1.102"
119911	0.787"	16	1.969"	2.047"	-	1.102"
119892	0.787"	18	1.969"	2.047"	-	1.102"
119893	0.984"	10	2.205"	2.323"	-	1.260"
119912	0.984"	12	2.205"	2.323"	-	1.260"
119894	0.984"	14	2.205"	2.323"	-	1.260"
119895	0.984"	16	2.205"	2.323"	-	1.260"
167144	0.984"	18	2.205"	2.323"	-	1.260"
167045	0.984"	20	2.205"	2.323"	-	1.260"

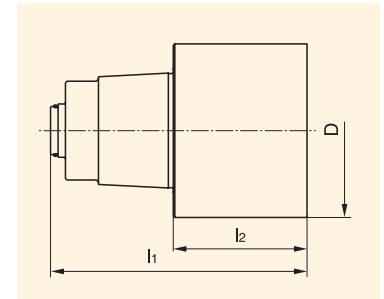
Mimatic® MI Attachments

Shrink Fit Chuck



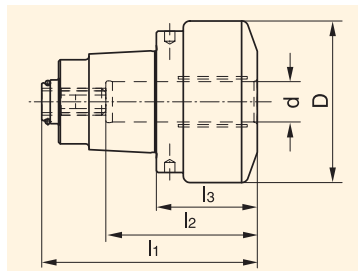
Part Number	Size	I1	I2	I3	d(h6)	D
155381	MI40	3.701"	2.362"	1.417"	8mm (.315")	1.890"
121482	MI40	3.701"	2.362"	1.654"	10mm (.394")	1.890"
155334	MI40	3.898"	2.559"	1.850"	12mm (.472")	1.890"
121501	MI40	4.094"	2.756"	1.969"	16mm (.630")	1.890"
155421	MI50	3.976"	2.362"	1.417"	8mm (.315")	2.283"
155409	MI50	3.976"	2.362"	1.654"	10mm (.394")	2.283"
155444	MI50	4.137"	2.559"	1.850"	12mm (.472")	2.283"
155438	MI50	4.137"	2.559"	1.850"	14mm (.551")	2.283"
155430	MI50	4.370"	2.756"	1.969"	16mm (.630")	2.283"
155431	MI50	4.567"	2.953"	1.969"	18mm (.709")	2.283"
155454	MI50	4.567"	2.953"	2.047"	20mm (.787")	2.283"

Blank



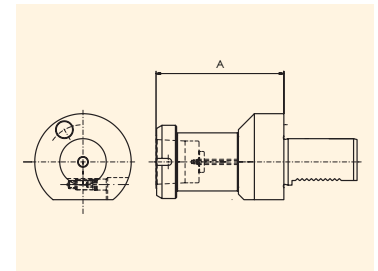
Part Number	Size	I1	I2	D
121457	MI32	3.012"	1.969"	1.654"
166791	MI40	3.701"	2.362"	1.890"
166789	MI50	4.370"	2.756"	2.283"
121557	MI63	5.079"	3.150"	2.953"

Hydraulic Chuck



Part Number	Size	I1	I2	I3	d(h6)	D
155391	MI40	2.520"	1.772"	1.181"	12mm (.472")	1.890"
155417	MI50	2.795"	2.047"	1.181"	20mm (.787")	2.283"

Tool Presetting Unit

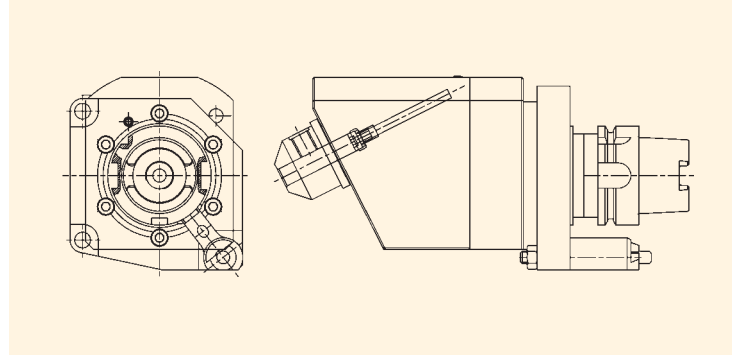


Part Number	Size	VDI	A
155368	MI40	2.520"	108mm
155356	MI50	2.795"	110mm

AngleHeads™ Specials

FixedAngleHeads™

The specially designed case of the FixedAngleHead ensures an accurate cutting angle without the need to adjust or verify cutting angle.



Multi-Spindle DrillHeads™



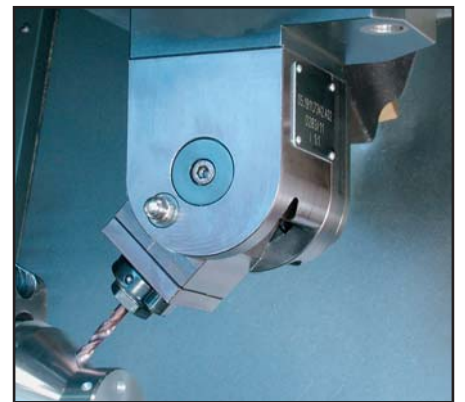
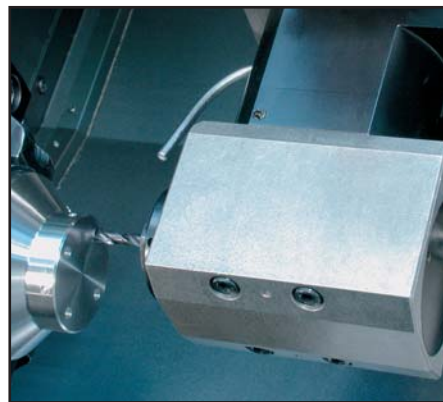
The multi-axis positioning of the FlexHead allows total rotational and compound angle settings. Perform multiple, complex operations without costly additional work setups or fixtures.

Special AngleHeads™



Minimized body design is suitable for machining in tight spaces.

Applications



AngleHeads™ Positioning Blocks

High technology toolholders that perform beyond the main spindle's rotational characteristics, and toolholders that induce a side flow of coolant through cutting tools, require a positioning pin to operate.

This pin, which is seated into a positioning block after changing, locks the toolholder's body into a stationary position relative to the spindle face. With its body properly aligned and secured, the toolholder's internal mechanisms are ready to perform their designed operations.

Before using any of our stationary body tools, a positioning block must first be attached to the machining center's spindle face. The block is attached to the face by utilizing the existing drilled/tapped holes on the face. Place the positioning block in a location which will assure that the positioning pin, when seated in the positioning block, will not interfere with the movements of your ATC arm or any other attachments.

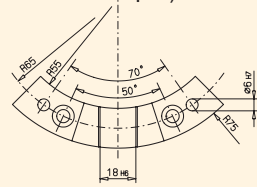
All Lyndex-Nikken tools have features that allow them to be easily oriented with any position of your spindle's drive keys.

A positioning block may require slight modifications to accommodate your particular machine.

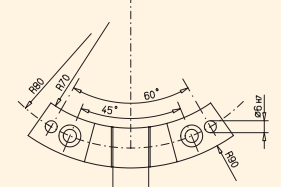
For use with AngleHeads on pages 246 - 256.



PB-RAM 40
(40 and HSK 63 Taper)



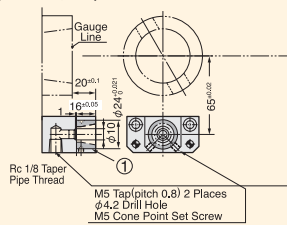
PB-RAM 50
(50 and HSK 100 Taper)



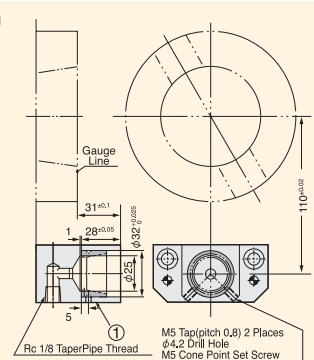
For use with AngleHeads on page 245.



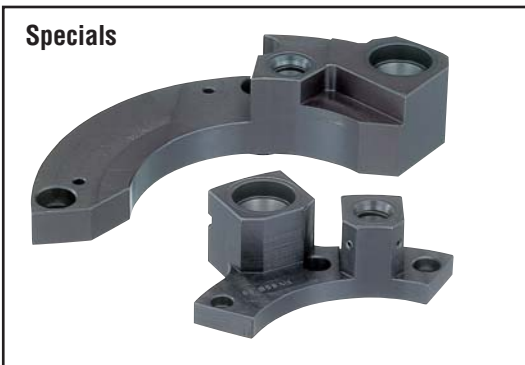
PB-RAN 40
(40 Taper)



PB-RAN 50
(50 Taper)



Specials



Custom stopper blocks available, including combination blocks as shown, upon special request.

HiSpinner™ Technical Characteristics and Features

Lyndex-Nikken HiSpinners offer substantial increases in spindle speeds for high speed milling applications.

Our HiSpinners allow for reduced cycle times and lower per-piece costs by utilizing new high efficiency cutting tools. Cutting tool performance, in turn, is enhanced through the carried RPMs and rigidity of our HiSpinners.

Excellent accuracy, rigidity and durability are achieved through the use of our integral shank spindle, tempered and ground gears, and high precision pre-loaded spindle bearings.

- For use with all kinds of materials (HiSpinners do not require messy coolants) and applications, including drilling, milling, and grinding
- Lightweight and easy to use
- Capable of working in most ATCs
- Accuracy of .01 mm or better
- Some models available with coolant-through

Decrease Costs and Increase Speed

HiSpinners increase your tooling RPMs up to 5 times faster (up to 20,000 RPM), enabling you to reduce your cycle times and per-piece costs with your current machines. Minimize spindle wear, letting the tool do the work.

Achieve Higher Speeds Without Heat

HiSpinners maintain a comfortable operating temperature without the need of forced air or coolants.

Highly Accurate

A main spindle supported at four points by high precision (P4 grade) bearings, ensure smooth, precise rotation and increased surface finish quality.

Durable

HiSpinner bearings and gear chamber are isolated from contamination by specially designed seals.



Positioning Pins

High technology toolholders that perform beyond the main spindle's rotational characteristics, and toolholders that induce a side flow of coolant through cutting tools, require a positioning pin to operate.

This pin, which is seated into a positioning block after changing, locks the toolholder's body into a stationary position relative to the spindle face. With its body properly aligned and secured, the toolholder's internal mechanisms are ready to perform their designed operations.

A positioning block may require slight modifications to accommodate your particular machine.

Nikken Standard HiSpinner™



Features and Specifications

- Ideal for all high speed small tool milling and drilling applications
- Max RPM 20,000
- Gear Ratio 1:5 (1 X input RPM: 5 X output RPM)
- .0002 inch run out guaranteed at 4X Dia. Out
- Double gripping force compared to traditional ER systems thanks to Nikken's patented SK collets and TiN bearing nut
- Wrenches and manual included

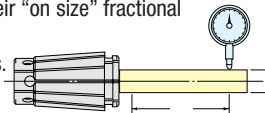


Titanium Nitrided Bearing Nut (HV2,200) (US Patent 6923451)

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

Accuracy and Flexibility

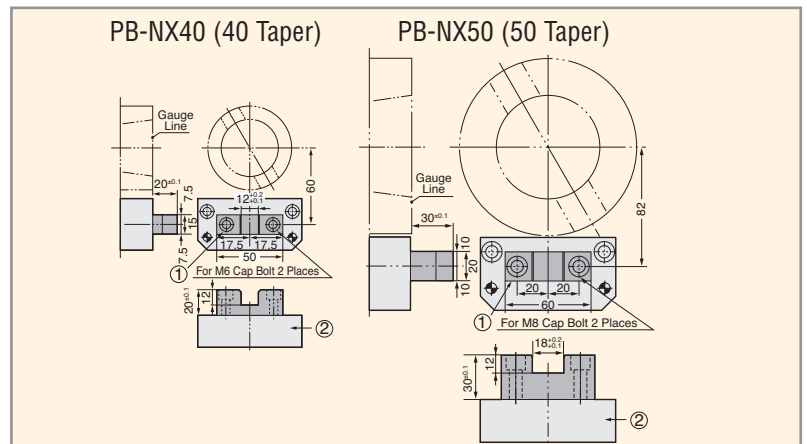
Due to Nikken's special heat treatment, grinding and custom slotting process, they are the only collet chuck manufacturer in the world that guarantees a 3 micron runout tolerance for their "on size" fractional and metric size precision collets.



Part Number	Taper	Weight (lbs.)	D	L	C	C1	I	A	Max. RPM
CAT40U-NX5-153	CAT40	11	1.75-10mm (.069-.394")	6.024"	1.083"	3.346"	1.26"	2.362"	20,000
BT40-NX5-153	BT40	11	1.75-10mm (.069-.394")	6.024"	1.083"	3.346"	1.26"	2.362"	20,000
CAT50U-NX5-151	CAT50	15	1.75-10mm (.069-.394")	5.945"	1.083"	3.346"	1.811"	3.228"	20,000

NMTB units also available upon request - please contact us.

Positioning Block



Accessories:



SK Collets
Page 188



Wrench
Page 193



Back-up screw
Page 194

Nikken FluidHeads™ Features



Prolonged Tool Life

Cutting tool life is increased by coolant being directly applied to the cutting edge. Direct coolant prevents brazed tool breakage by reducing the heat factor.

Improved Holemaking

Lyndex FluidHeads facilitate hole drilling by delivering coolant to the point of contact. The drilling-associated heat factor is eliminated, so there is no heat-related warping. In addition, chips are immediately evacuated to prevent chips from annealing to the cutting tool and the workpiece wall.

Greater Feeds and Speeds

Direct coolant applied to the tool's cutting edge provides lubrication, promotes superior chip breakage and evacuation, and prevents double-cutting of chips. These factors allow for greater feeds and speeds, increasing productivity.

Advanced Multi-Seal Construction

Lyndex FluidHeads unique multi-seal construction incorporates a series of O-rings, labyrinth and synthetic seals, and sealed high-speed roller bearings to provide precise trouble-free operation. They also feature our tough corrosion-resistant surface treatment to assure a long life.

Quick and Simple Setup

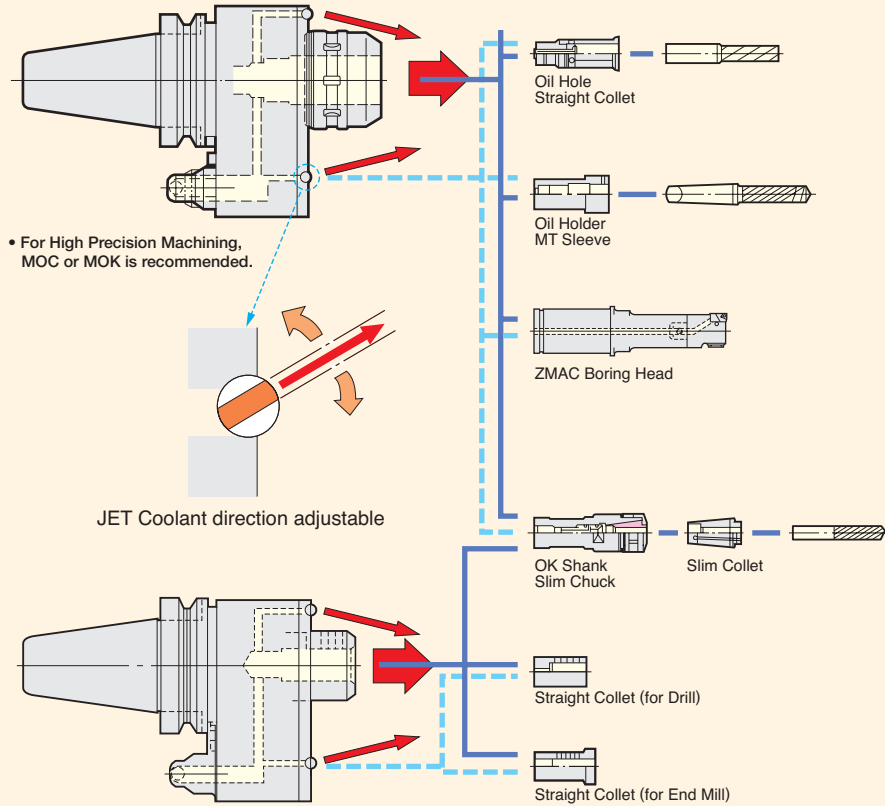
Lyndex provides you with a vernier scale for ease of orientation. Vernier scales help to orient the positioning pin and drive key slots (0-360°) to match your machining center's spindle and automatic tool changer configuration. The adjustable positioning pin will also allow you to easily adjust the height to eliminate most variances in distance between the spindle's face and positioning pin.

Special orders are available upon request.

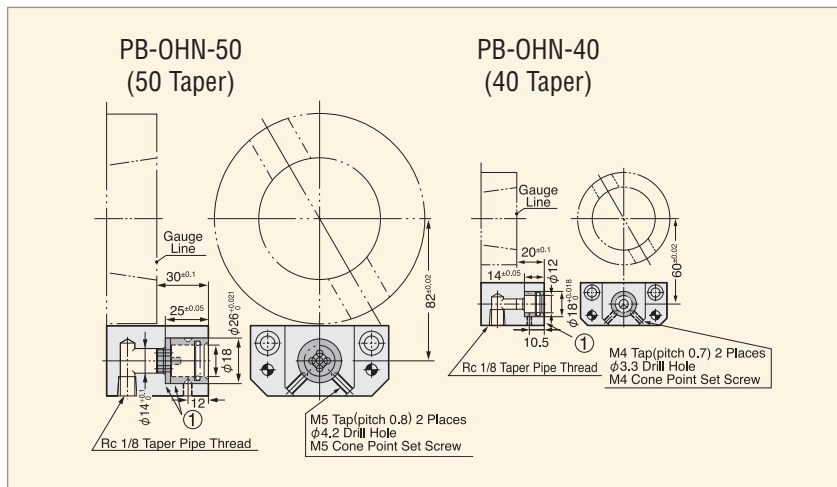
Nikken FluidHeads™ Technical Characteristics and Stopper Blocks

One-Touch Internal/External Coolant Feed Conversion

The oil holder drill performs internal coolant delivery, while multiple external nozzles apply jet streams of coolant directly to the cutting area. When drilling, end milling, tapping or reaming without the oil hole, switching from internal to external coolant delivery can be done in one touch.



Stopper Block



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

Technical

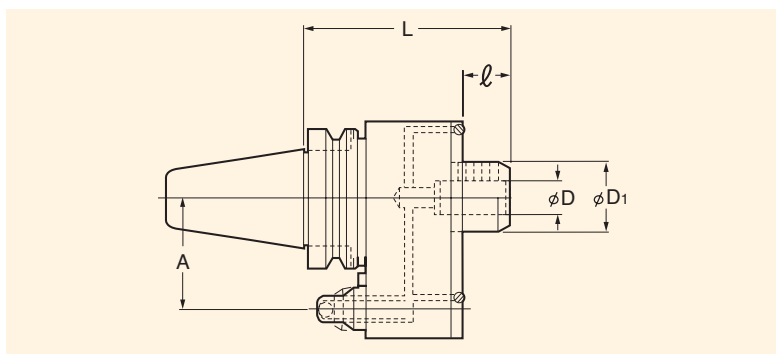
CustomTools™ / Live Tools

Nikken Side Lock FluidHeads™



Features

- Extends tool life
- Allows greater feeds and speeds
- Increases chip removal by delivering coolant at up to 400 PSI (maximum)
- Superb with indexable end mills and drills
- Compatible with most Automatic Tool Changers (ATCs)
- Set screw type holder uses reduction bushings to allow smaller sizes
- Two options for coolant flow
- Wrenches are included



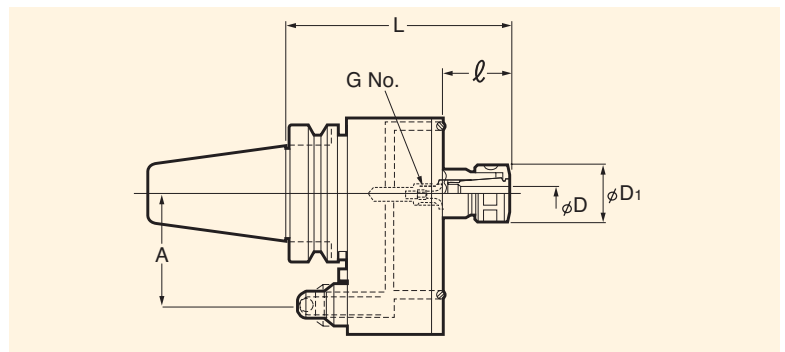
Part Number	Taper	Weight (lbs.)	D	L	A	l	D1	Max. RPM
BT40-MOL5/8-130	BT40	7	5/8"	5.118"	2.362"	1.339"	1.358"	5,500
BT40-MOL3/4-130	BT40	8	3/4"	5.118"	2.362"	1.339"	1.732"	4,000
BT40-MOL1-130	BT40	8	1"	5.118"	2.362"	1.339"	1.732"	4,000
BT40-MOL1.1/4-135	BT40	9	1-1/4"	5.315"	2.362"	1.535"	1.929"	3,500
BT50-MOL5/8-150	BT50	16	5/8"	5.906"	3.228"	1.339"	1.358"	5,500
BT50-MOL3/4-150	BT50	17	3/4"	5.906"	3.228"	1.339"	1.732"	4,000
BT50-MOL1-150	BT50	17	1"	5.906"	3.228"	1.339"	1.732"	4,000
BT50-MOL1.1/4-150	BT50	17	1-1/4"	5.906"	3.228"	1.535"	1.929"	3,500
BT50-MOL1.1/2-160	BT50	18	1-1/2"	6.299"	3.228"	1.732"	2.323"	3,000
CAT40U-MOL5/8-140	CAT40	7	5/8"	5.511"	2.362"	1.339"	1.358"	5,500
CAT40U-MOL3/4-140	CAT40	8	3/4"	5.511"	2.362"	1.339"	1.732"	4,000
CAT40U-MOL1-140	CAT40	8	1"	5.511"	2.362"	1.339"	1.732"	4,000
CAT40U-MOL1.1/4-145	CAT40	9	1-1/4"	5.709"	2.362"	1.535"	1.929"	3,500
CAT50U-MOL5/8-150	CAT50	16	5/8"	5.906"	3.228"	1.339"	1.358"	5,500
CAT50U-MOL3/4-150	CAT50	17	3/4"	5.906"	3.228"	1.339"	1.732"	4,000
CAT50U-MOL1-150	CAT50	17	1"	5.906"	3.228"	1.339"	1.732"	4,000
CAT50U-MOL1.1/4-150	CAT50	17	1-1/4"	5.906"	3.228"	1.535"	1.929"	3,500
CAT50U-MOL1.1/2-160	CAT50	18	1-1/2"	6.299"	3.228"	1.732"	2.323"	3,000

Nikken SK FluidHeads™



Features

- Increases hole accuracy and extends tool life
- Allows greater feeds and speeds
- Increases chip removal by delivering coolant at up to 400 PSI (maximum)
- Superb with carbide drills and gun drills
- Compatible with most Automatic Tool Changers (ATCs)
- Slim chuck type collet system
- Greater flexibility through use of collets
- Two options for coolant flow
- Wrenches are included



Part Number	Taper	Weight (lbs.)	Collet Series	Collet Range	D	L	A	l	D1	Max. RPM
BT40-MOK10-135	BT40	7	SK10	2-10mm (0.79 - .394")	0.197 - 0.393"	5.315"	2.362"	1.535"	1.082"	6,000
BT40-MOK16-150	BT40	8	SK16	3-16mm (.118 - .630")	0.393 - 0.629"	5.906"	2.362"	2.125"	1.575"	5,500
BT50-MOK10-150	BT50	15	SK10	2-10mm (0.79 - .394")	0.197 - 0.393"	5.906"	3.228"	1.338"	1.082"	6,000
BT50-MOK16-165	BT50	17	SK16	3-16mm (.118 - .630")	0.393 - 0.629"	6.496"	3.228"	1.929"	1.575"	5,500
CAT40U-MOK10-145	CAT40	7	SK10	2-10mm (0.79 - .394")	0.197 - 0.393"	5.709"	2.362"	1.535"	1.082"	6,000
CAT40U-MOK16-160	CAT40	8	SK16	3-16mm (.118 - .630")	0.393 - 0.629"	6.299"	2.362"	2.125"	1.575"	5,500
CAT50U-MOK10-150	CAT50	15	SK10	2-10mm (0.79 - .394")	0.197 - 0.393"	5.906"	3.228"	1.338"	1.082"	6,000
CAT50U-MOK16-165	CAT50	17	SK16	3-16mm (.118 - .630")	0.393 - 0.629"	6.496"	3.228"	1.929"	1.575"	5,500

Accessories:



SK Collets
Page 188



Wrench
Page 193



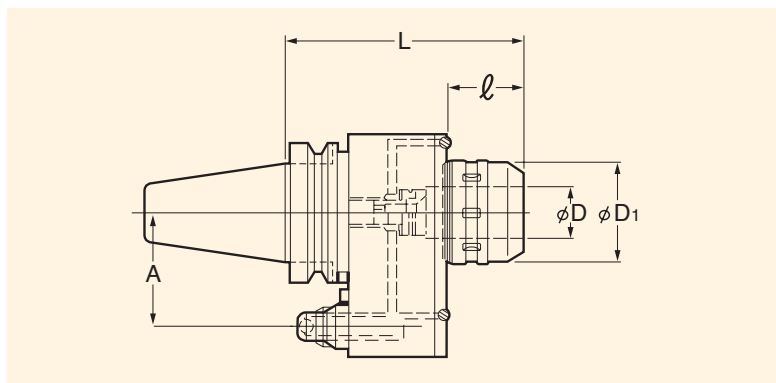
Back-up screw
Page 194

Nikken Ultra Lock FluidHeads™



Features

- Increases hole accuracy and extends tool life
- Allows greater feeds and speeds
- Increases chip removal by delivering coolant at up to 400 PSI (maximum)
- Superb with carbide and brazed drills
- Compatible with most Automatic Tool Changers (ATCs)
- High rigidity, gripping power and accuracy
- Two options for coolant flow
- Wrenches are included



Part Number	Taper	Weight (lbs.)	Collet Series	Collet Range	D	L	A	l	D1	Max. RPM
BT40-MOC3/4-145	BT40	8	CCK 3/4	0.125 - 0.625"	3/4"	5.709"	2.362"	1.929"	2.047"	4,000
BT40-MOC1.1/4-160	BT40	10	CCK 1.1/4	0.1875 - 1"	1-1/4"	6.299"	2.362"	2.716"	2.716"	3,500
BT50-MOC3/4-160	BT50	16	CCK 3/4	0.125 - 0.625"	3/4"	6.299"	3.228"	1.732"	2.047"	4,000
BT50-MOC1.1/4-170	BT50	16	CCK 1.1/4	0.1875 - 1"	1-1/4"	6.693"	3.228"	2.212"	2.716"	3,500
CAT40U-MOC3/4-155	CAT40	8	CCK 3/4	0.125 - 0.625"	3/4"	6.102"	2.362"	1.929"	2.047"	4,000
CAT40U-MOC1.1/4-170	CAT40	10	CCK 1.1/4	0.1875 - 1"	1-1/4"	6.693"	2.362"	2.716"	2.716"	3,500
CAT50U-MOC3/4-160	CAT50	16	CCK 3/4	0.125 - 0.625"	3/4"	6.299"	3.228"	1.732"	2.047"	4,000
CAT50U-MOC1.1/4-170	CAT50	16	CCK 1.1/4	0.1875 - 1"	1-1/4"	6.693"	3.228"	2.212"	2.716"	3,500

Accessories:



CCK Coolant Collets
Pages 157-158



Wrench
Page 159



Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

MMC Collet Chucks

Accessories

Technical



Current Promotion

Scan
these
Live Tools
QR Codes



Featured Video

CustomTools™ / Live Tools

Milling Chucks
Shrink Fit Holders
SK Collet Chucks
VC Collet Chucks
MMC Collet Chucks
Accessories
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CustomTools™ / Live Tools

Live Tooling



Parts inventory, maintenance and repair, and rebuild services are available through Lyndex-Nikken.



- Official Mori Seiki Qualified Peripherals (MSQP) supplier
- Okuma Authorized Live Tool Supplier
- Nakamura Tome Authorized Live Tool Supplier



Lyndex-Nikken live tools are manufactured by Alps Tool Co. Ltd.

Maximize the Capabilities of Your Machine

Alps live tooling for Lyndex-Nikken offers the latest technology you can expect for turning operations. Designed and manufactured directly with engineers from leading builders in Japan, our live tools have features and benefits unmatched by the competition. Gears, bearings, seals, every part is built to provide the highest accuracy, rigidity and stability.

With more than 30 years of tooling engineering and manufacturing experience, Lyndex-Nikken live tooling will maximize the capabilities of your machine, and keep you far ahead of the global competition. We understand that exceptional quality is key to your business. Let the manufacturers who share your philosophy in producing live tools join you in doing what you do best - machining the highest quality parts.

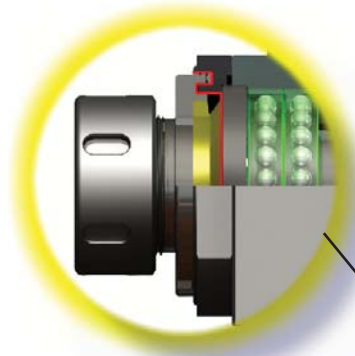
Enhanced with Alps/Lyndex-Nikken live tooling, your machine will allow you to reduce cycle times, eliminate extra operations and achieve maximum efficiency.

Partner in the Okuma-THINC Advanced Research Center

Lyndex-Nikken works locally in the U.S. with Okuma at our Partners in THINC facility in Charlotte, NC. So, not only are our live tools custom-engineered specifically for Okuma Machines, we also work together to engineer optimal solutions for customer applications.

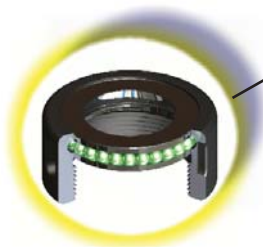
Live Tooling - Features and Technology

As an authorized OEM supplier to leading machine tool builders, Lyndex-Nikken live tools are designed and manufactured in conjunction with top engineers in Japan.



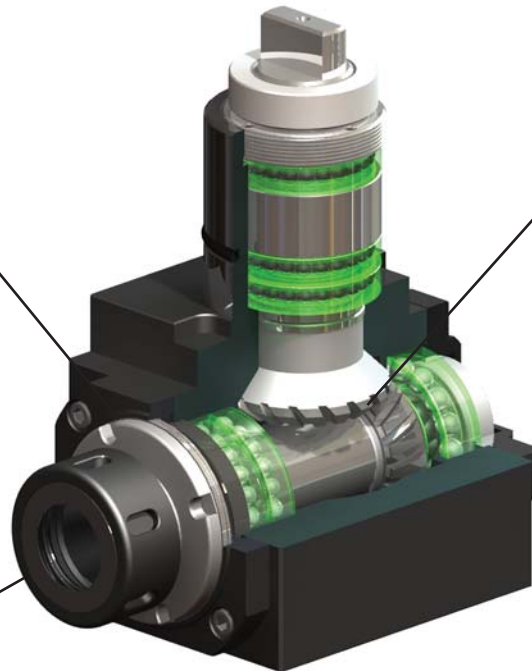
Protective Seals

- **Labyrinth Seals** - provide a high pressure multi barrier construction that prevents contaminants and coolant from entering the main chamber.



Eccentric Bearing Nut

- **Ground Eccentric Nut** - allows for fine accuracy and strong tool shank gripping capacity by preventing collet twisting or rocking.
- **Runout** - guarantee of under 5-micron repeatability at collet nose.














Gears for Stability

- **Gear Pairing** - hand matched for each pair to minimize backlash.
- **Gear Design** - custom ground spiral bevel gear tooth design maximizes drive torque output and reduces tooth root stress allowing for more tool longevity.
- **Gear Equilibrium** - placement of bearings balance torque stress evenly through input/output shafts.

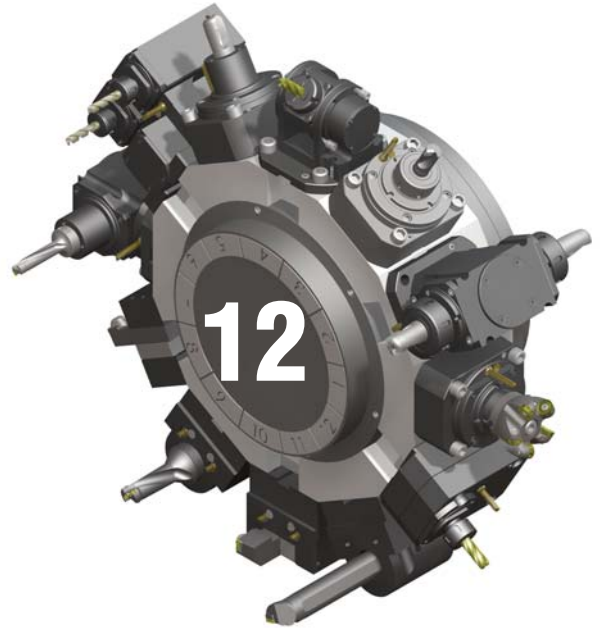
Tool Design and Engineering










- **Tool Body** - manufactured from the highest tensile and compression Nickel Chrome Molybdenum alloys.
- **Drive Shafts** - all features are ground on both the input and output Chrome Molybdenum drive shafts to assure proper torque transmission and precision concentricity.
- **Bearing Quality** - only the highest precision ABEC 7 angular contact bearings are used for smooth and high speed rotation.
- **Quality Control** - all live tools go through a vigorous 60-point final inspection to satisfy the highest expectations of live tool performance.

LIVE TOOLS - Straight				
	Part Number	Collet	Coolant	Speed
	Straight drill/milling unit			
	T32206	ER32		6000rpm
	T32213	ER40		6000rpm
	T32232	ER32		3000rpm
	T32478	ER32		6000rpm
T32234	ER40		6000rpm	
	2 spindles straight drill/milling unit			
	T32267	ER16		6000rpm
	Offset straight drill/milling unit			
	T32225	ER20		6000rpm
	High-grip straight drill/milling unit for milling chuck			
	T32219	20mm		3000rpm
	Straight milling unit for shell mill holder			
	T32268	22mm		3000rpm
	T32217	1"		3000rpm
	Straight drill/milling unit for weldon or whistle notch shank			
	T32227	20mm		3000rpm
	T32221	25mm		3000rpm
	T32223	1"		3000rpm
	Coromant Capto™ straight drill/milling unit			
	T32238	C4		6000rpm

LIVE TOOLS - Right Angle				
	Part Number	Collet	Coolant	Speed
	Right angle drill/milling unit			
	T32218	ER32		6000rpm
	T32207	ER32		6000rpm
	T32214	ER40		6000rpm
	T32233	ER32		6000rpm
T32235	ER40		6000rpm	
	Right angle double spindle drill/milling unit			
	T32216	ER32		6000rpm
	T32248	ER40		6000rpm
	2 spindles right angle drill/milling unit			
	T32264	ER16		6000rpm
	Adjustable right angle drill/milling unit			
	T32474	ER20		4000rpm
	High-grip right angle drill/milling unit for milling chuck			
	T32220	20mm		3000rpm
	Right angle milling unit for shell mill holder			
	T32269	22mm		3000rpm
	T32226	1"		3000rpm
	Right angle drill/milling unit for weldon or whistle notch shank			
	T32224	1"		3000rpm
	T32228	20mm		3000rpm
	T32222	25mm		3000rpm
	Coromant Capto™ right angle drill/milling unit			
	T32239	C4		6000rpm
	2T3200266	C4		3000rpm

Mori Seiki 12-Station, NL, NT4000 and NT5000 Series



STATIC TOOLS				
	Part Number	Output	Type	Coolant
	OD CUTTING HOLDER			
	T00201	1.5"	both sides	
	T00199	2"	both sides	
	T00210*	1.18"	Y double	
	CUT OFF HOLDER			
	T00198	1.02"	Cut-off holder, right hand	
	FACE AND ID CUTTING HOLDER			
	T03014	1.5"	Face and ID cutting	
	T03013	2"	Face and ID cutting	
	BORING BAR HOLDER			
	T10101*	1.5"	Boring bar holder	
	T10102*	2"	Boring bar holder	
	T1130*	1.5"	Combination holder	
	T10100*	1.25"	Boring bar, both sides	
	BORING BAR HOLDER - WITH SLOT			
	T10142*	2"	Boring bar holder w/slot	
	T10143*	1.5"	Boring bar holder w/slot	
	OD AND ID CAPTO HOLDER			
	T12068	C5	ID Capto holder	
	T12069	C5	ID both side Capto	
	T00209	C5	OD both side Capto	
	T00208	C5	OD Capto holder	

*For Mori Seiki 12-station NL Series only.

Milling Chucks

Shrink Fit Holders

SK Collet Chucks

VC Collet Chucks

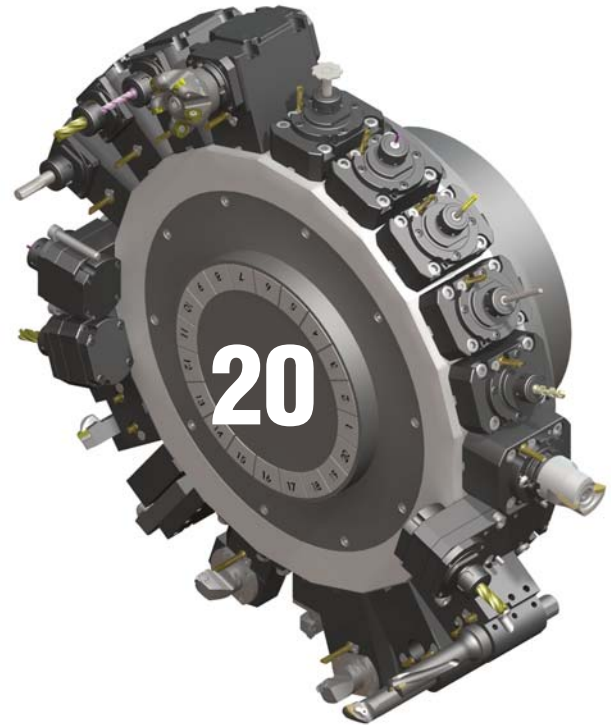
MMC Collet Chucks






Accessories







Technical

CustomTools™ / Live Tools

Mori Seiki 20-Station, NL, DuraTurn, NZ and NT3000 Series












































LIVE TOOLS - Straight				
	Part Number	Collet	Coolant	Speed
	Straight drill/milling unit			
	T32254	ER20		6000rpm
	T32274	ER25		6000rpm
	T32475	ER32		6000rpm
	T32286	ER16		10000rpm
	T32287	ER20		6000rpm
	Offset straight drill/milling unit			
	T32279	ER20		6000rpm
	Straight milling unit for shell mill holder			
	T32280	22mm		2000rpm
	Coromant Capto™ straight drill/milling unit			
	T32290	C3		6000rpm

LIVE TOOLS - Right Angle				
	Part Number	Collet	Coolant	Speed
	Right angle drill/milling unit			
	T32288	ER20		6000rpm
	T32255	ER20		6000rpm
	T32275	ER25		6000rpm
	T32476	ER32		6000rpm
	T32293	ER16		10000rpm
	Right angle double spindle drill/milling unit			
	T32271	ER20		6000rpm
	T32276	ER25		6000rpm
	Adjustable right angle drill/milling unit			
	T32289	ER16		4000rpm
	Right angle milling unit for shell mill holder			
	T32292	22mm		2000rpm
	Coromant Capto™ right angle drill/milling unit			
	T32291	C3		6000rpm

STATIC TOOLS				
	Part Number	Output	Type	Coolant
	OD CUTTING HOLDER			
	T00234	1.5"	OD cutting, short	
	T00235	1.5"	OD cutting, long	
	OD CUTTING HOLDER - BOTH SIDES			
	T00250*	1.5"	short, both sides	
	T00249*	1.5"	long, both sides	
	FACE AND ID CUTTING HOLDER			
	T03018	1.5"	Face and ID cutting	
	CUT-OFF HOLDER			
	T00252	0.77"	boring bar, right hand	
	BORING BAR HOLDER			
	T10119	1.25"	Boring bar holder	
	T10139*	1"	both sides	
	COMBINATION HOLDER			
	T13135	1.25"	Combination holder	
	OD AND ID CAPTO HOLDER			
	T12074	C4	OD Capto holder	
	T12075	C4	ID Capto holder	
	AC4-AMS100-WA	C4	OD both sides	
	AC4-AMS100-WB	C4	ID both sides	

*Not Suitable for Mori Seiki DuraTurn Series.

Part No./Description		Coolant-Thru	High-Speed	Nakamura Tome Models					
Lyndex-Nikken	Nakamura			NTJ	NTM3	NTY3	SC-150II	SC-200L	SC-250
NK103-11000 X-AXIS, 3600rpm	AR1390								
NK103-10000 Z-AXIS, 3600rpm	AR1393								
NK103-13000 X-AXIS, 6000rpm	AC1310		 high speed						
NK103-12000 Z-AXIS, 6000rpm	AC1313		 high speed						
NK103-15000 Z-AXIS, 3600rpm	AG1313								
NK103-16000 Z-AXIS, 6000rpm	AG1393		 high speed						
NK103-5K000 X-AXIS, 6000rpm	-	 coolant-thru	 high speed						
NK103-6H000 Z-AXIS, 6000rpm	-	 coolant-thru	 high speed						
NK103-6J000 Z-AXIS, 6000rpm	-	 coolant-thru	 high speed						
NKA01-20000 Z-AXIS, 6000rpm	F26333		 high speed						
NKA01-13000 X-AXIS, 6000rpm	C26330		 high speed						
NKA01-12000 Z-AXIS, 6000rpm	C26333		 high speed						
NKA00-11000 X-AXIS, 4000rpm	D22310								
NKA00-10000 Z-AXIS, 4000rpm	D22313								
NK105-37000 X-AXIS, 3600rpm	R2390								
NK105-36000 Z-AXIS, 3600rpm	R2393								
NK105-49000 X-AXIS, 6000rpm	-	 coolant-thru	 high speed						
NK105-33000 Z-AXIS, 6000rpm	-	 coolant-thru	 high speed						






All Nakamura live tools can be used in all positions on all turrets (for main or sub) for each given machine model.






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Nakamura Tome Models									
SC-300	TW-10	TW-20	WT-100	WT-150	WT-250II	WT-300	WTS-150	WTW-150	WY-250

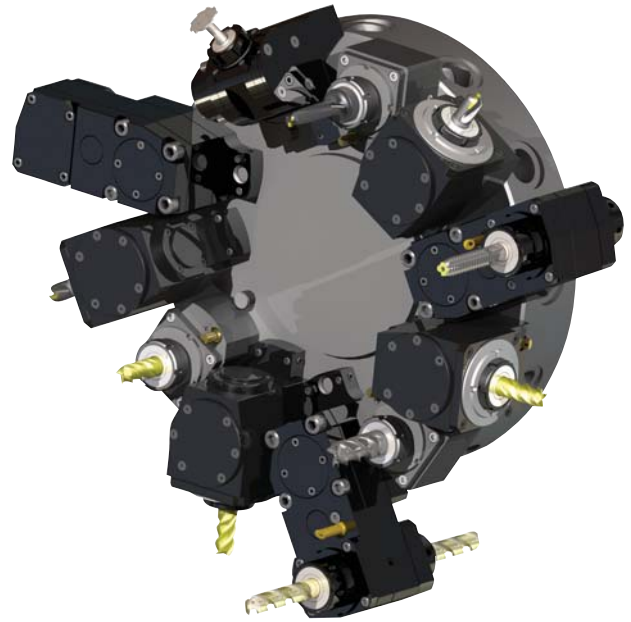
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Okuma Live Tooling - Captain Series Lathes

Captain Series L370-M and Genos L300-M				
	Lyndex-Nikken Part No.	Collet	Coolant	Speed
OD drill/milling unit				
	OK101-14000	ER32		4500rpm
	OK101-67000	ER40		4500rpm
Face drill/milling unit				
	OK101-13000	ER32		4500rpm
	OK101-72000	ER32		4500rpm
Adjustable holder				
	OK101-73000	ER20		4000rpm

Captain Series L370-MW				
	Lyndex-Nikken Part No.	Collet	Coolant	Speed
Face drill/milling unit - main				
	OK109-13001	ER32		4500rpm
Face drill/milling unit - sub				
	OK109-14001	ER32		4500rpm
Face drill/milling unit - double				
	OK109-15001	ER32		4500rpm
OD drill/milling unit				
	OK101-14000	ER32		4500rpm
	OK102-18000	ER40		3000rpm
	OK102-23000	ER32		4500rpm

Captain Series L470-M				
	Lyndex-Nikken Part No.	Collet	Coolant	Speed
OD drill/milling unit				
	OK102-17000	ER40		3000rpm
	OK102-22000	ER40		3000rpm
Adjustable holder				
	OK102-24000	ER20		4000rpm



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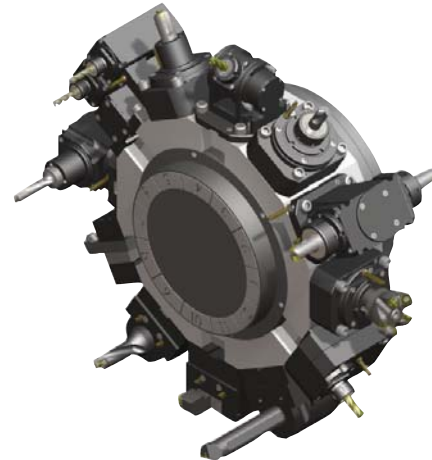
Technical



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Okuma Live Tooling - LB EX Series Lathes

LB2000/2500/3000EX Series and Genos L300-MW				
	Lyndex-Nikken Part No.	Collet	Coolant	Speed
	OD drill/milling unit			
	OKA00-19000	ER32		6000rpm
	OKA00-28000	ER32		3000rpm
	Face drill/milling unit			
	OKA00-20000	ER32		6000rpm
	OKA00-24000	ER32		3000rpm
	Twin spindle drill/milling unit			
	OKA00-21001	ER32		6000rpm

LB2000/2500/3000EX Series - Static Tools				
	Lyndex-Nikken Part No.	Output	Coolant	Interface
	Boring bar holder (1.25")			
	OK126-40000	1.25"		Bolt
	Boring bar holder (1.25")			
	OK126-41000	1.25"		Bolt
	Boring bar holder (1.5")			
	OK126-50000	1.5"		Bolt
	Boring bar holder (1.5")			
	OK126-51000	1.5"		Bolt
	OD cutting holder (1" and 3/4")			
	OK126-42000	1"		Bolt
	OD cutting holder (1")			
	OK126-52000	1"		Bolt
	OD cutting holder (1" and 3/4")			
	OK126-43000	1"		Bolt
	ID cutting holder (1")			
	OK126-53000	1"		Bolt



LB4000EX Series				
	Lyndex-Nikken Part No.	Collet	Coolant	Speed
	OD drill/milling unit			
	OKA01-13000	ER40		6000rpm
	Face drill/milling unit			
	OKA01-14000	ER40		6000rpm

LB4000EX Series - Static Tools				
	Lyndex-Nikken Part No.	Output	Coolant	Interface
	Boring bar holder (1.5")			
	OK126-60000	1.5"		Bolt
	Boring bar holder (1.5")			
	OK126-61000	1.5"		Bolt
	OD cutting holder (1")			
	OK126-64000	1"		Bolt
	ID cutting holder (1")			
	OK126-65000	1"		Bolt

Live Tooling - Machine Tool Partners

Lyndex-Nikken is privileged to work in cooperation with some of the best names in the machine tool business.



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PART NUMBER	PAGE	121457	261	155430	261	010-010	70
119790	260	121460	257	155431	261	010-011	70
119791	260	121463	258	155432	259	010-012	70
119792	260	121464	258	155434	258	010-013	70
119793	260	121469	258	155435	258	010-014	70
119797	260	121472	258	155436	258	010-015	70
119798	260	121474	258	155438	261	010-016	70
119799	260	121475	258	155440	258	010-017	70
119800	260	121478	258	155444	261	010-018	70
119801	260	121479	257	155445	257	010-019	70
119802	260	121480	258	155446	259	010-108	70
119810	260	121482	261	155447	257	010-111	70
119812	260	121485	258	155448	257	010-115	70
119813	260	121486	257	155449	259	010-117	70
119814	260	121489	258	155450	259	010-121	70
119815	260	121492	258	155451	257	010-129	70
119816	260	121493	258	155454	261	010-133	70
119817	260	121494	258	155455	259	010-EXT-100	68
119818	260	121497	258	155459	258	010-EXT-100S	68
119819	260	121498	259	155460	257	011-HEX	54
119820	260	121499	258	155463	258	016-NUT	54
119821	260	121501	261	155464	258	016-SPAN	54
119822	260	121502	257	155465	257	018-003	70
119823	260	121503	259	155466	259	018-004	70
119824	260	121504	259	155467	259	018-005	70
119825	260	121510	259	155470	258	018-006	70
119826	260	121515	259	155471	257	018-007	70
119827	260	121517	259	155473	259	018-008	70
119828	260	121520	258	155474	258	018-009	70
119829	260	121522	259	155475	257	018-010	70
119830	260	121525	258	155479	259	018-011	70
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119837	260	155319	257	155512	257	018-018	70
119838	260	155321	258	166104	258	018-019	70
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119841	260	155330	258	166110	258	018-021	70
119842	260	155331	258	166112	258	018-022	70
119844	260	155333	258	166113	258	018-023	70
119845	260	155334	261	166114	258	018-024	70
119846	260	155335	257	166115	258	018-025	70
119847	260	155346	258	166116	258	018-026	70
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119865	260	155382	258	166816	258	018-041	70
119866	260	155383	258	167045	260	018-042	70
119867	260	155384	258	167144	260	018-043	70
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119877	260	155388	257	010-021	70	018-045	70
119878	260	155389	259	010-022	70	018-046	70
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119884	260	155397	259	010-024	70	018-048	70
119889	260	155400	258	010-025	70	018-109	70
119892	260	155401	258	010-026	70	018-117	70
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119894	260	155406	258	010-028	70	018-133	70
119895	260	155407	258	010-029	70	018-141	70
119901	260	155408	258	010-030	70	018-EXT-125	68
119909	260	155409	261	010-031	70	018-EXT-125S	68
119910	260	155411	258	010-032	70	020-003	69
119911	260	155412	258	010-033	70	020-004	69
119912	260	155413	257	010-034	70	020-005	69
121436	258	155416	258	010-035	70	020-006	69
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121443	258	155419	258	010-004	70	020-009	69
121448	258	155421	261	010-005	70	020-010	69
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121451	259	155423	259	010-007	70	020-012	69
121453	258	155427	258	010-008	70	020-013	69
121455	258	155428	258	010-009	70	020-014	69

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020-015	69	075-008	62	08-NANUT	54	100-051(C)	63
020-016	69	075-008(C)	62	08-NASPAN	54	100-052	63
020-017	69	075-009	62	1/2-KEYSET	83	100-052(C)	63
020-018	69	075-009(C)	62	100-003	63	100-053	63
020-019	69	075-010	62	100-004	63	100-053(C)	63
020-020	69	075-010(C)	62	100-005	63	100-054	63
020-021	69	075-011	62	100-006	63	100-054(C)	63
020-022	69	075-011(C)	62	100-007	63	100-055	63
020-023	69	075-012	62	100-008	63	100-055(C)	63
020-024	69	075-012(C)	62	100-009	63	100-056	63
020-109	69	075-013	62	100-010	63	100-056(C)	63
020-111	69	075-013(C)	62	100-011	63	100-057	63
020-117	69	075-014	62	100-012	63	100-057(C)	63
020-121	69	075-014(C)	62	100-013	63	100-058	63
020-EXT-750	68	075-015	62	100-014	63	100-058(C)	63
020-EXT-750S	68	075-015(C)	62	100-015	63	100-059	63
020-SPAN	54	075-016	62	100-016	63	100-059(C)	63
025-003	61	075-016(C)	62	100-016(C)	63	100-060	63
025-004	61	075-017	62	100-017	63	100-060(C)	63
025-005	61	075-017(C)	62	100-017(C)	63	100-061	63
025-006	61	075-018	62	100-018	63	100-061(C)	63
025-007	61	075-018(C)	62	100-018(C)	63	100-062	63
025-008	61	075-019	62	100-019	63	100-062(C)	63
025-009	61	075-019(C)	62	100-019(C)	63	100-063	63
025-010	61	075-020	62	100-020	63	100-063(C)	63
025-011	61	075-020(C)	62	100-020(C)	63	100-064	63
025-012	61	075-021	62	100-021	63	100-064(C)	63
025-013	61	075-021(C)	62	100-021(C)	63	1000TL-3	159
025-014	61	075-022	62	100-022	63	1000TL-3(C)	159
025-015	61	075-022(C)	62	100-022(C)	63	100-108	63
025-016	61	075-023	62	100-023	63	100-111	63
025-113	61	075-023(C)	62	100-023(C)	63	100-111(C)	63
025-SPAN	54	075-024	62	100-024	63	100-115	63
030-003	69	075-024(C)	62	100-024(C)	63	100-121	63
030-004	69	075-025	62	100-025	63	100-121(C)	63
030-005	69	075-025(C)	62	100-025(C)	63	100-123	64
030-006	69	075-026	62	100-026	63	100-130	63
030-007	69	075-026(C)	62	100-026(C)	63	100-141	63
030-008	69	075-027	62	100-027	63	100-141(C)	63
030-009	69	075-027(C)	62	100-027(C)	63	100-145	63
030-010	69	075-028	62	100-028	63	100-159	63
030-011	69	075-028(C)	62	100-028(C)	63	100-204	64
030-012	69	075-029	62	100-029	63	100-206	64
030-013	69	075-029(C)	62	100-029(C)	63	100-206(C)	64
030-014	69	075-030	62	100-030	63	100-208	64
030-015	69	075-030(C)	62	100-030(C)	63	100-208(C)	64
030-016	69	075-031	62	100-031	63	100-210	64
030-107	69	075-031(C)	62	100-031(C)	63	100-210(C)	64
030-109	69	075-032	62	100-032	63	100-212	64
030-113	69	075-032(C)	62	100-032(C)	63	100-212(C)	64
030-114	69	075-033	62	100-033	63	100-214	64
030-EXT-500	68	075-033(C)	62	100-033(C)	63	100-214(C)	64
030-EXT-500S	68	075-034	62	100-034	63	100-216	64
032-SPAN	54	075-034(C)	62	100-034(C)	63	100-216(C)	64
040-SPAN	54	075-035	62	100-035	63	100-218	64
050-008	61	075-035(C)	62	100-035(C)	63	100-218(C)	64
050-009	61	075-036	62	100-036	63	100-220	64
050-010	61	075-036(C)	62	100-036(C)	63	100-220(C)	64
050-011	61	075-037	62	100-037	63	100-222	64
050-012	61	075-037(C)	62	100-037(C)	63	100-222(C)	64
050-013	61	075-038	62	100-038	63	100-224	64
050-014	61	075-038(C)	62	100-038(C)	63	100-224(C)	64
050-015	61	075-039	62	100-039	63	100-225	64
050-016	61	075-039(C)	62	100-039(C)	63	100-225(C)	64
050-017	61	075-040	62	100-040	63	100-226	64
050-018	61	075-040(C)	62	100-040(C)	63	100-226(C)	64
050-019	61	075-041	62	100-041	63	100-324	64
050-020	61	075-041(C)	62	100-041(C)	63	100-332	64
050-021	61	075-042	62	100-042	63	100-340	64
050-022	61	075-042(C)	62	100-042(C)	63	100-348	64
050-023	61	075-043	62	100-043	63	100-356	64
050-024	61	075-043(C)	62	100-043(C)	63	100-364	64
050-025	61	075-044	62	100-044	63	100DA-1	71
050-026	61	075-044(C)	62	100-044(C)	63	100DA-2	71
050-027	61	075-045	62	100-045	63	100DA-3	71
050-028	61	075-045(C)	62	100-045(C)	63	100DA-4	71
050-029	61	075-046	62	100-046	63	100DA-NUT	71
050-030	61	075-046(C)	62	100-046(C)	63	100-J2	92
050-031	61	075-047	62	100-047	63	100-J33	92
050-032	61	075-047(C)	62	100-047(C)	63	100TG-1	66
050-113	61	075-048	62	100-048	63	100TG-3	66
050-125	61	075-048(C)	62	100-048(C)	63	100TG-3C	66
075-003	62	075-112	62	100-049	63	100TG-HEXNUT	66
075-004	62	075-117	62	100-049(C)	63	100TG-NUT	66
075-005	62	075-123	62	100-050	63	100TG-PULL	66
075-006	62	075-127	62	100-050(C)	63	100TG-SPAN	66
075-007	62	075-145	62	100-051	63	1-1/2-KEYSET	83

1-1/2-STUBNUT	123	150TG-1	66	163-028	135	300-027	132
1-1/4-KEYSET	83	150TG-3	66	163-032	135	300-028	132
1-1/4-STUBNUT	123	150TG-NUT	66	163-036	135	300-029	132
11N	92	150TG-PULL	66	163-040	135	300-029S	132
1250TL-2	159	150TG-SPAN	66	163-044	135	300-030	132
1250TL-2(C)	159	160-004	134	163-048	135	300-031	132
1250TL-3	159	160-005	134	163-052	135	300-032	132
1250TL-3(C)	159	160-006	134	163-056	135	300-033	132
130-J2	92	160-007	134	163-060	135	300-033S	132
130-J33	92	160-008	134	163-064	135	300-034	132
130-J6	92	160-008S	134	163-068	135	300-035	132
130-JT2	92	160-009	134	163-072	135	300-036	132
130-JT33	92	160-010	134	163-076	135	300-037	132
130-JT6	92	160-011	134	163-080	135	300-038	132
14N	92	160-012	134	163-084	135	300-039	132
150-032	65	160-013	134	163-088	135	300-040	132
150-033	65	160-014	134	164-008	135	300-041	132
150-034	65	160-015	134	164-012	135	300-042	132
150-035	65	160-016	134	164-016	135	300-043	132
150-036	65	160-017	134	164-020	135	300-044	132
150-037	65	160-018	134	164-024	135	300-045	132
150-038	65	160-018S	134	164-028	135	300-046	132
150-039	65	160-019	134	164-032	135	300-047	132
150-040	65	160-020	134	164-036	135	300-048	132
150-041	65	160-021	134	164-040	135	300-049	132
150-042	65	160-022	134	164-044	135	300-050	132
150-043	65	160-023	134	164-048	135	300-051	132
150-044	65	160-024	134	164-052	135	300-052	132
150-045	65	160-025	134	164-056	135	300-053	132
150-046	65	160-026	134	164-060	135	300-054	132
150-047	65	160-027	134	164-064	135	300-055	132
150-048	65	160-028	134	164-068	135	300-056	132
150-049	65	160-029	134	164-072	135	300-057	132
150-050	65	160-029S	134	164-076	135	300-058	132
150-051	65	160-030	134	166-001S	134	300-059	132
150-052	65	160-031	134	16C-WRENCH	133,135	300-060	132
150-053	65	160-032	134	16N	92	300-061	132
150-054	65	160-033	134	180DA-1	71	300-062	132
150-055	65	160-034	134	180DA-2	71	300-063	132
150-056	65	160-035	134	180DA-3	71	300-064	132
150-057	65	160-036	134	180DA-4	71	300-068	132
150-058	65	160-037	134	180DA-NUT	71	300-072	132
150-059	65	160-038	134	18N	92	300-076	132
150-060	65	160-039	134	1-KEYSET	83	300-080	132
150-061	65	160-040	134	1-STUBNUT	123	300-084	132
150-062	65	160-041	134	200DA-1	71	300-088	132
150-063	65	160-042	134	200DA-2	71	300-092	132
150-064	65	160-043	134	200DA-3	71	300-096	132
150-065	65	160-044	134	200DA-4	71	300-100	132
150-066	65	160-045	134	200DA-5	71	300-104	132
150-067	65	160-046	134	200DA-NUT	71	300-108	132
150-068	65	160-047	134	200DA-RACK	71	300-112	132
150-069	65	160-048	134	2-1/2-KEYSET	83	300DA-1	71
150-070	65	160-049	134	22-KEYSET	83	300DA-2	71
150-071	65	160-050	134	25TG-3	66	300DA-3	71
150-072	65	160-051	134	25TG-HEX	66	300DA-4	71
150-073	65	160-052	134	25TG-NUT	66	300DA-NUT	71
150-074	65	160-053	134	27-KEYSET	83	300DA-RACK	71
150-075	65	160-054	134	2-KEYSET	83	30-EP	216
150-076	65	160-055	134	2T3200266	274	30-LCFX	213
150-077	65	160-056	134	3/4-KEYSET	83	30-ST	216
150-078	65	160-057	134	3/4-STUBNUT	123	30-VR	216
150-079	65	160-058	134	300-004	132	32-KEYSET	83
150-080	65	160-059	134	300-005	132	330-016	133
150-081	65	160-060	134	300-006	132	330-020	133
150-082	65	160-061	134	300-007	132	330-024	133
150-083	65	160-062	134	300-008	132	330-028	133
150-084	65	160-063	134	300-008S	132	330-032	133
150-085	65	160-064	134	300-009	132	330-036	133
150-086	65	160-068	134	300-010	132	330-040	133
150-087	65	160-072	134	300-011	132	330-044	133
150-088	65	160-076	134	300-012	132	330-048	133
150-089	65	160-080	134	300-013	132	330-052	133
150-090	65	160-084	134	300-014	132	330-056	133
150-091	65	160-088	134	300-015	132	330-060	133
150-092	65	160-092	134	300-016	132	330-064	133
150-093	65	160-096	134	300-017	132	330-068	133
150-094	65	160-100	134	300-018	132	330-072	133
150-095	65	160-104	134	300-018S	132	330-076	133
150-096	65	160-J6	92	300-019	132	330-080	133
150-113	65	160-JT6	92	300-020	132	330-084	133
150-117	65	160-USA	135	300-021	132	330-088	133
150-125	65	163-008	135	300-022	132	330-092	133
150-133	65	163-012	135	300-023	132	330-096	133
150-149	65	163-016	135	300-024	132	340-020	133
150-165	65	163-020	135	300-025	132	340-020	133
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340-036	133	500-059	129	540-044	130	830-012-1.33	26
340-040	133	500-060	129	540-048	130	830-016-1.33	26
340-044	133	500-061	129	550-002	130	830-020-1.75	26
340-048	133	500-062	129	550-003	130	830-024-1.33	26
340-052	133	500-063	129	550-004	130	830-028-1.33	26
340-056	133	500-064	129	550-005	130	830-032-1.33	26
340-060	133	500-065	129	550-006	130	830-040-1.50	26
340-064	133	500-066	129	560-001B	129	830-048-2.37	26
340-068	133	500-067	129	560-001S	129	830-056-2.75	26
340-072	133	500-068	129	570-ADJ	131	830-064-3.25	26
340-076	133	500-069	129	570-BLOCK	131	830-080-3.25	26
340-080	133	500-070	129	570-CLOSE	131	830-096-3.75	26
34-02	92	500-071	129	570-HEX	131	840-001-0.44	94
34-06	92	500-072	129	570-RING	131	840-002-0.44	94
34-33	92	50-EP	216	570-SQUARE	131	840-003-2.56	94
35-EP	216	50-LCFX	213	570-UNI	131	850-032-1.00	81
35-LCFX	213	50-ST	216	570-USA	131	850-048-1.00	81
35-ST	216	50TG-1	66	580-007	130	850-064-1.00	81
35-VR	216	50TG-3	66	580-011	130	850-080-1.00	81
360-001S	132	50TG-NUT	66	580-013	130	850-096-1.75	81
370-USA	133	50TG-SPAN	66	580-106	130	860-001S	128
3J-WRENCH	133,135	50-VR	216	5C-WRENCH	131	870-001-0.13	91
40-EP	216	510-008	130	750TL-3	159	870-002-0.13	91
40-KEYSET	83	510-009	130	750TL-3(C)	159	870-003-0.13	91
40-LCFX	213	510-009S	130	75TG-1	66	870-006-0.13	91
40-ST	216	510-015	130	75TG-3	66	870-033-0.13	91
40-VR	216	510-016	130	75TG-3C	66	880-064-2.76	122
45-EP	216	510-016S	130	75TG-NUT	66	880-080-2.82	122
45-LCFX	213	510-017	130	75TG-SPAN	66	9HC22	159
45-ST	216	510-018	130	800-004	128	9HC25	159
45-VR	216	510-024	130	800-006	128	9HC32	159
500-003	129	510-029	130	800-008	128	9HC50	159
500-004	129	510-031	130	800-010	128	9NPU-13	89
500-005	129	510-031S	130	800-012	128	9NPU-8	89
500-006	129	510-033	130	800-014	128	A1/2-20	83
500-007	129	510-035	130	800-016	128	A1/4-28	83
500-008	129	510-061	130	800-018	128	A10mm-P1.5	83
500-009	129	510-061S	130	800-020	128	A1-14	83
500-010	129	510-065	130	800-022	128	A12mm-P1.75	83
500-011	129	510-065S	130	800-024	128	A16mm-P2	83
500-012	129	510-069	130	800-026	128	A20mm-P2.5	83
500-013	129	520-003	129	800-028	128	A3/4-16	83
500-014	129	520-004	129	800-030	128	A3/8-24	83
500-015	129	520-005	129	800-032	128	A5/8-11	83
500-016	129	520-006	129	800-034	128	A5/8-18	83
500-017	129	520-007	129	800-036	128	AC4-AMS100-WA	275
500-018	129	520-008	129	800-038	128	AC4-AMS100-WB	275
500-019	129	520-009	129	800-040	128	ATC-ALIGN-#40	213
500-020	129	520-010	129	800-042	128	ATC-ALIGN-#50	213
500-021	129	520-011	129	800-044	128	ATC-ALIGN-HSK100A	213
500-022	129	520-012	129	800-046	128	ATC-ALIGN-HSK63A	213
500-023	129	520-013	129	800-048	128	B3001-0500-1.19	77
500-024	129	520-014	129	800-050	128	B3001-0750-1.19	77
500-025	129	520-015	129	800-052	128	B3001-1000-1.19	77
500-026	129	520-016	129	800-054	128	B3002-0750-4.97	121
500-027	129	520-017	129	800-056	128	B3002-1000-5.17	121
500-028	129	520-018	129	800-064	128	B3003-0001-1.06	90
500-029	129	520-019	129	8-1/2N	92	B3003-0002-1.02	90
500-030	129	520-020	129	810-006	128	B3003-0003-0.98	90
500-031	129	520-021	129	810-008	128	B3003-0006-1.02	90
500-032	129	520-022	129	810-011	128	B3003-0033-1.02	90
500-033	129	520-023	129	810-012	128	B3004-0001-1.75	93
500-034	129	520-024	129	810-013	128	B3004-0002-2.36	93
500-035	129	520-025	129	810-014	128	B3005-0562-4.92	99
500-036	129	520-026	129	810-021	128	B3006-0125-2.36	18
500-037	129	530-008	130	810-023	128	B3006-0187-2.36	18
500-038	129	530-012	130	810-025	128	B3006-0250-2.36	18
500-039	129	530-016	130	810-027	128	B3006-0312-2.36	18
500-040	129	530-020	130	820-003	128	B3006-0375-2.36	18
500-041	129	530-024	130	820-004	128	B3006-0437-2.36	18
500-042	129	530-028	130	820-005	128	B3006-0500-2.36	18
500-043	129	530-032	130	820-006	128	B3006-0625-2.50	18
500-044	129	530-036	130	820-007	128	B3006-0750-3.00	18
500-045	129	530-040	130	820-008	128	B3006-0875-3.54	18
500-046	129	530-044	130	820-009	128	B3006-1000-3.54	18
500-047	129	530-048	130	820-010	128	B3006-10-2.50	18
500-048	129	530-052	130	820-011	128	B3006-12-2.50	18
500-049	129	530-056	130	820-012	128	B3006-14-2.50	18
500-050	129	540-008	130	820-013	128	B3006-16-2.50	18
500-051	129	540-012	130	820-014	128	B3006-18-3.50	18
500-052	129	540-016	130	820-015	128	B3006-20-3.50	18
500-053	129	540-020	130	820-016	128	B3006-25-3.50	18
500-054	129	540-024	130	820-017	128	B3006-6-2.50	18
500-055	129	540-028	130	820-018	128	B3006-8-2.50	18
500-056	129	540-032	130	820-019	128	B3007-0008-2.00	36

B3007-0011-2.00	36	B4006-18-2.50	20	B40RAM-ER25-187TS	253	B5006-0750-3.00	21
B3007-0016-2.36	36	B4006-20-2.50	20	B40RAM-ER25-222ST	252	B5006-0875-4.00	21
B3007-0020-2.50	36	B4006-25-3.56	20	B40RAM-ER32-187	247	B5006-1000-4.00	21
B3007-0025-2.00	36	B4006-32-3.56	20	B40RAM-ER32-187TS	253	B5006-10-2.75	21
B3007-0032-3.00	36	B4006-6-2.50	20	B40RAM-ER32-207OT	249	B5006-12-3.00	21
B3007-0100-3.00	67	B4006-8-2.50	20	B40RAM-MI32-187	255	B5006-1250-4.00	21
B3007-0180-3.00	67	B4007-0008-2.50	36	B40RAM-MI40-187	256	B5006-14-3.00	21
B3007-0200-3.00	67	B4007-0011-2.50	36	B40RAM-MI50-187	256	B5006-1500-4.50	21
B3007-0250-1.75	58	B4007-0016-3.50	36	B40S5-0562-2.62	99	B5006-16-3.00	21
B3007-0300-3.00	67	B4007-0020-2.50	36	B40S5-0875-3.68	99	B5006-18-3.00	21
B3007-0500-2.00	58	B4007-0025-2.25	36	B40S5-1375-6.40	99	B5006-2000-5.00	21
B3007-0750-2.50	58	B4007-0032-3.13	37	B40S6-0125-1.38	19	B5006-20-3.00	21
B3007-1000-3.94	58	B4007-0040-3.13	37	B40S6-0187-1.38	19	B5006-2500-6.00	21
B3008-0008	125	B4007-0100-3.50	67	B40S6-0250-1.38	19	B5006-25-4.00	21
B3017-0008-4.00	36	B4007-0180-4.00	67	B40S6-0312-1.38	19	B5006-32-4.00	21
B3017-0011-4.00	36	B4007-0200-3.00	67	B40S6-0375-1.38	19	B5006-40-4.49	21
B3017-0016-4.00	36	B4007-0250-2.00	58	B40S6-0500-1.75	19	B5006-42-4.49	21
B3017-0020-4.00	36	B4007-0300-3.00	67	B40S6-0625-1.75	19	B5006-50-5.00	21
B3017-0025-4.00	36	B4007-0500-2.25	58	B40S6-0750-1.75	19	B5006-6-2.50	21
B3017-0032-5.00	36	B4007-0750-3.00	58	B40S6-1000-2.00	19	B5006-8-2.50	21
B3017-0250-4.00	58	B4007-1000-3.50	58	B40S6-1250-2.00	19	B5007-0016-4.12	37
B3017-0500-4.00	58	B4007-1500-5.50	58	B40S7-0016-2.50	36	B5007-0020-2.75	37
B3027-0016-5.00	36	B4008-0013	125	B40SF-0125-3.54	166	B5007-0025-2.63	37
B3037-0016-6.00	36	B40-1500	140	B40SF-0125-6.30	166	B5007-0032-4.00	37
B30-4500	140	B40-1500(SO)	140	B40SF-0250-3.54	166	B5007-0040-4.00	37
B30-6000	140	B40-1500(R)	140	B40SF-0250-6.30	166	B5007-0180-4.00	67
B30BH-0875-1.75	124	B4016-0125-4.00	19	B40SF-0375-3.54	166	B5007-0500-2.63	58
B30BH-1500-1.75	124	B4016-0187-4.00	19	B40SF-0375-6.30	166	B5007-0750-3.50	58
B30-JAW	212	B4016-0250-4.00	19	B40SF-0500-3.54	166	B5007-1000-3.50	58
B30-KEY	212	B4016-0312-4.00	19	B40SF-0500-6.30	166	B5007-1500-4.00	58
B30R5-0562-2.44	100	B4016-0375-4.00	19	B40SF-0625-3.54	166	B5008-0013	125
B30S5-0562-2.40	99	B4016-0500-4.00	19	B40SF-0625-6.30	166	B5011-1000-4.00	77
B30S7-0020-1.20	36	B4016-0625-4.00	19	B40SF-0750-3.54	166	B5011-1250-4.00	77
B30S7-0032-2.00	36	B4016-0750-4.00	19	B40SF-0750-6.30	166	B5011-1500-4.00	77
B30SF-0125-3.15	166	B4016-0875-6.00	19	B40SF-1000-3.94	166	B5011-2000-4.00	77
B30SF-0250-3.15	166	B4016-1000-6.00	19	B40SF-1000-6.30	166	B50-1500 (H)	140
B30SF-0375-3.15	166	B4016-10-4.00	20	B40SF-10-160	167	B5016-0250-6.00	21
B30SF-0500-3.15	166	B4016-12-4.00	20	B40SF-10-90	167	B5016-0375-6.00	21
B30SF-0625-3.15	166	B4016-1250-6.00	19	B40SF-12-160	167	B5016-0500-6.00	21
B30SF-0750-3.15	166	B4016-14-4.00	20	B40SF-1250-3.94	166	B5016-0625-6.00	21
B30-TESTBAR-8.0	217	B4016-1500-6.00	19	B40SF-1250-6.30	166	B5016-0750-6.00	21
B30-TOOLJAW	212	B4016-16-4.00	20	B40SF-12-90	167	B5016-0875-6.00	21
B35-JAW	212	B4016-18-4.00	20	B40SF-16-160	167	B5016-1000-6.00	21
B35-KEY	212	B4016-20-4.00	20	B40SF-16-90	167	B5016-1250-6.00	21
B35-TOOLJAW	212	B4016-25-6.00	20	B40SF-20-160	167	B5016-1500-7.00	21
B4001-0500-1.75	77	B4016-32-6.00	20	B40SF-20-90	167	B5016-2000-8.00	21
B4001-0750-1.75	77	B4016-6-4.00	20	B40SF-25-100	167	B5017-0016-6.00	37
B4001-1000-1.75	77	B4016-8-4.00	20	B40SF-25-160	167	B5017-0020-4.00	37
B4001-1250-2.00	77	B4017-0008-4.00	36	B40SF-32-100	167	B5017-0025-4.00	37
B4001-1500-2.00	77	B4017-0011-4.00	36	B40SF-32-160	167	B5017-0032-6.00	37
B4001-22-50	78	B4017-0016-5.00	36	B40SF-6-160	167	B5017-0040-6.00	37
B4001-27-50	78	B4017-0020-4.00	36	B40SF-6-90	167	B5017-0180-6.00	67
B4001-32-50	78	B4017-0025-4.00	36	B40SF-8-160	167	B5017-0500-4.00	58
B4001-40-60	78	B4017-0032-5.00	37	B40SF-8-90	167	B5017-0750-5.50	58
B4002-1000-5.18	121	B4017-0040-5.00	37	B40-STD	140	B5017-1000-5.50	58
B4002-1250-5.32	121	B4017-0100-6.00	67	B40-TESTBAR-14.0	217	B5017-1500-6.00	58
B4002-1500-5.60	121	B4017-0180-6.00	67	B40-TOOLJAW	212	B5021-1000-6.00	77
B4003-0002-1.61	90	B4017-0250-4.00	58	B45-JAW	212	B5021-1250-6.00	77
B4003-0003-1.57	90	B4017-0500-4.00	58	B45-KEY	212	B5021-1500-6.00	77
B4003-0006-1.61	90	B4017-1000-5.50	58	B45-TOOLJAW	212	B50-4500	140
B4003-0033-1.61	90	B4027-0011-6.00	36	B5001-0750-1.75	77	B50-4500(H)	140
B4004-0001-1.75	93	B4027-0020-6.00	36	B5001-1000-1.75	77	B50-6000	140
B4004-0002-2.36	93	B4027-0025-6.00	37	B5001-1250-2.00	77	B50-6000(H)	140
B4004-0003-3.00	93	B40-4500	140	B5001-1500-2.00	77	B50-9000	140
B4004-0004-3.54	93	B40-4500(H)	140	B5001-2000-2.00	77	B50-9000(H)	140
B4005-0562-3.98(C)	99	B40-6000	140	B5002-1000-6.17	121	B50BH-0875-1.75	124
B4005-0562-4.33	99	B40-6000(H)	140	B5002-1250-6.28	121	B50BH-1500-1.75	124
B4005-0875-5.39(C)	99	B40-9000	140	B5002-1500-6.60	121	B50F1-2000-3.00	78
B4005-0875-6.34	99	B40-9000(H)	140	B5003-0002-1.61	90	B50F1-2500-3.00	78
B4005-1375-9.00	99	B40BH-0875-1.75	124	B5003-0003-1.57	90	B50FHM-ER25-205	254
B4006-0125-2.36	19	B40BH-1500-1.75	124	B5003-0004-1.49	90	B50FHM-ER32-220	254
B4006-0187-2.50	19	B40-BRIDGEPOR	140	B5003-0006-1.61	90	B50-JAW	212
B4006-0250-2.50	19	B40-FADAL	140	B5003-0033-1.61	90	B50-KEY	212
B4006-0312-2.50	19	B40FHM-ER20-205	254	B5004-0002-1.75	93	B50-MITSUI	140
B4006-0375-2.50	19	B40FHM-ER25-202	254	B5004-0003-1.75	93	B50R5-0562-3.02	100
B4006-0437-2.50	19	B40-JAW	212	B5004-0004-3.00	93	B50R5-0562-3.23(C)	100
B4006-0500-2.50	19	B40-KEY	212	B5004-0005-4.13	93	B50R5-0875-3.86(C)	100
B4006-0625-2.50	19	B40R5-0562-2.87(C)	100	B5005-0562-4.33(C)	99	B50R5-0875-4.16	100
B4006-0750-2.50	19	B40R5-0562-3.02	100	B5005-0562-4.92	99	B50R5-1375-5.00(C)	100
B4006-0875-3.38	19	B40R5-0875-3.50(C)	100	B5005-0875-5.55	99	B50R5-1375-5.23	100
B4006-1000-3.56	19	B40R5-0875-3.66	100	B5005-0875-5.75(C)	99	B50RAM-ER25-190	247
B4006-10-2.50	20	B40R5-1375-4.73	100	B5005-1375-7.68	99	B50RAM-ER25-190TS	253
B4006-12-2.50	20	B40RA-0025	250	B5005-1375-8.31(C)	99	B50RAM-ER25-195OT	248
B4006-1250-3.56	19	B40RAM-ER16-187	246	B5006-0250-3.00	21	B50RAM-ER32-190	247
B4006-14-2.50	20	B40RAM-ER20-232ST	252	B5006-0375-2.75	21	B50RAM-ER32-190TS	253
B4006-1500-4.50	19	B40RAM-ER25-187	247	B5006-0500-3.00	21	B50RAM-ER32-210OT	249
B4006-16-2.50	20	B40RAM-ER25-187OT	248	B5006-0625-3.00	21	B50RAM-ER32-295ST	252

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B5ORAM-ER40-225	247	BT40-C3/4-105	150	BT50-SK10-165	183	C4006-1250-4.00	12
B5ORAM-ER40-225TS	253	BT40-C3/4-105G	151	BT50-SK10-165P	184	C4006-1250-4.00DIN	15
B5ORAM-ER40-2700T	249	BT40-C3/4-70	150	BT50-SK10-195	183	C4006-14-3.00	12
B5ORAM-M140-190	256	BT40-C3/4-70G	151	BT50-SK10-195P	184	C4006-14-3.00DIN	15
B5ORAM-M150-190	256	BT40-C32-105	150	BT50-SK16-105	183	C4006-1500-4.50	12
B5ORAM-M163-225	256	BT40-MMC12C-120	208	BT50-SK16-105P	184	C4006-1500-4.50DIN	15
B50S5-0562-3.05	99	BT40-MMC12C-90	208	BT50-SK16-165	183	C4006-16-3.00	12
B50S5-0875-4.00	99	BT40-MMC4-90	208	BT50-SK16-165P	184	C4006-16-3.00DIN	15
B50S5-1375-5.55	99	BT40-MMC8C-120	208	BT50-SK16-195	183	C4006-18-3.00	12
B50SF-0125-3.94	167	BT40-MMC8C-90	208	BT50-SK16-195P	184	C4006-18-3.00DIN	15
B50SF-0125-6.30	167	BT40-MOC1.1/4-160	270	BT50-SK25-105	183	C4006-20-3.00	12
B50SF-0250-3.94	167	BT40-MOC3/4-145	270	BT50-SK25-105P	184	C4006-20-3.00DIN	15
B50SF-0250-6.30	167	BT40-MOK10-135	269	BT50-SK25-165	183	C4006-25-4.00	12
B50SF-0375-3.94	167	BT40-MOK16-150	269	BT50-SK25-165P	184	C4006-25-4.00DIN	15
B50SF-0375-6.30	167	BT40-MOL1.1/4-135	268	BT50-SK25-195	183	C4006-32-4.00	12
B50SF-0500-3.94	167	BT40-MOL1-130	268	BT50-SK25-195P	184	C4006-32-4.00DIN	15
B50SF-0500-6.30	167	BT40-MOL3/4-130	268	BT50-SK6-105	183	C4006-6-2.50	12
B50SF-0625-3.94	167	BT40-MOL5/8-130	268	BT50-SK6-105P	184	C4006-6-2.50DIN	15
B50SF-0625-6.30	167	BT40-NPU13-80	87	BT50-SK6-165	183	C4006-8-2.50	12
B50SF-0750-3.94	167	BT40-NPU8-70	87	BT50-SK6-165P	184	C4006-8-2.50DIN	15
B50SF-0750-6.30	167	BT40-NX5-153	265	BT50-SK6-195	183	C4007-0008-2.50	33
B50SF-1000-3.94	167	BT40-SK10-120	182	BT50-SK6-195P	184	C4007-0011-2.50	33
B50SF-1000-6.30	167	BT40-SK10-120P	184	BT50-VC13-105	199	C4007-0016-3.50	33
B50SF-10-100	168	BT40-SK10-150	182	BT50-VC13-135	199	C4007-0016-3.50DIN	35
B50SF-10-160	168	BT40-SK10-150P	184	BT50-VC13-165	199	C4007-0020-2.50	33
B50SF-12-100	168	BT40-SK10-180	182	BT50-VC6-105	199	C4007-0020-2.50DIN	35
B50SF-12-160	168	BT40-SK10-90	182	BT50-VC6-135	199	C4007-0025-2.50	33
B50SF-1250-3.94	167	BT40-SK10-90P	184	BT50-VC6-165	199	C4007-0025-2.50DIN	35
B50SF-1250-6.30	167	BT40-SK16-120	182	C22GUX-NK1010	221	C4007-0032-3.13	33
B50SF-16-100	168	BT40-SK16-120P	184	C22GUX-NK5050	221	C4007-0032-3.13DIN	35
B50SF-16-160	168	BT40-SK16-150	182	C30-JAW	212	C4007-0040-3.13	33
B50SF-20-100	168	BT40-SK16-150P	184	C30-KEY	212	C4007-0040-3.13DIN	35
B50SF-20-160	168	BT40-SK16-180	182	C30-TOOLJAW	212	C4007-0100-3.50	67
B50SF-25-100	168	BT40-SK16-90	182	C32GUX-NK1010	219	C4007-0180-4.00	67
B50SF-25-160	168	BT40-SK16-90P	184	C32GUX-NK2020	219	C4007-0200-3.00	67
B50SF-3-100	168	BT40-SK25-120	182	C4001-0500-1.75	75	C4007-0250-2.25	56
B50SF-3-160	168	BT40-SK25-120P	184	C4001-0750-1.75	75	C4007-0300-3.00	67
B50SF-32-100	168	BT40-SK25-75	182	C4001-1000-1.75	75	C4007-0500-2.50	56
B50SF-32-160	168	BT40-SK25-75P	184	C4001-1250-2.00	75	C4007-0750-3.00	56
B50SF-6-100	168	BT40-SK25-90	182	C4001-1500-2.00	75	C4007-1000-3.50	56
B50SF-6-160	168	BT40-SK25-90P	184	C4001-22-50	76	C4007-1000-3.50DIN	57
B50SF-8-100	168	BT40-SK6-120	182	C4001-27-50	76	C4007-1500-6.00	56
B50SF-8-160	168	BT40-SK6-120P	184	C4001-32-50	76	C4007-1500-6.00DIN	57
B50-TESTBAR-14.0	217	BT40-SK6-150	182	C4001-40-60	76	C4008-0013	125
B50-TOOLJAW	212	BT40-SK6-150P	184	C4002-1000-6.17	121	C4011-0750-4.00	75
BAL-KIT(M3)-200-SET	164-172	BT40-SK6-90	182	C4002-1250-6.29	121	C4011-1000-4.00	75
BAL-KIT(M4)-200-SET	164-172	BT40-SK6-90P	184	C4002-1500-6.60	121	C4011-1250-4.00	75
BT30-C3/4-75	150	BT40-VC13-120	199	C4003-0002-1.61	90	C4011-1500-4.00	75
BT30-C3/4-75G	151	BT40-VC13-60	199	C4003-0003-1.58	90	C40-1500	139
BT30-MMC12-105	208	BT40-VC13-90	199	C4003-0004-1.49	90	C40-1500(BHO)	139
BT30-MMC4-105	208	BT40-VC6-120	199	C4003-0006-1.61	90	C4016-0125-4.00	11
BT30-MMC8-105	208	BT40-VC6-60	199	C4003-0033-1.61	90	C4016-0125-4.00DIN	15
BT30-MMC8C-75-A	208	BT40-VC6-90	199	C4004-0001-1.75	93	C4016-0187-4.00	11
BT30-NPU13-95	87	BT50-C1.1/4-135	150	C4004-0002-2.36	93	C4016-0187-4.00DIN	15
BT30-NPU8-70	87	BT50-C1.1/4-135G	151	C4004-0003-3.00	93	C4016-0250-4.00	11
BT30-SK10-45	182	BT50-C1.1/4-90	150	C4004-0004-3.54	93	C4016-0250-4.00DIN	15
BT30-SK10-45P	184	BT50-C1.1/4-90G	151	C4005-0562-3.98(C)	97	C4016-0312-4.00	11
BT30-SK10-60	182	BT50-C1-105	150	C4005-0562-4.47	97	C4016-0312-4.00DIN	15
BT30-SK10-60P	184	BT50-C1-105G	151	C4005-0875-5.39(C)	97	C4016-0375-4.00	11
BT30-SK10-90	182	BT50-C1-135	150	C4005-0875-6.66	97	C4016-0375-4.00DIN	15
BT30-SK10-90P	184	BT50-C1-135G	151	C4005-1375-9.19	97	C4016-0437-4.00	11
BT30-SK16-60	182	BT50-C2-105	150	C4006-0125-2.36	11	C4016-0437-4.00DIN	15
BT30-SK16-60P	184	BT50-C3/4-105	150	C4006-0125-2.36DIN	15	C4016-0500-4.00	11
BT30-SK16-90	182	BT50-C3/4-105G	151	C4006-0187-2.50	11	C4016-0500-4.00DIN	15
BT30-SK16-90P	184	BT50-C3/4-135	150	C4006-0187-2.50DIN	15	C4016-0625-4.00	11
BT30-SK25-90	182	BT50-C3/4-135G	151	C4006-0250-2.50	11	C4016-0625-4.50DIN	15
BT30-SK25-90P	184	BT50-C32-105	150	C4006-0250-2.50DIN	15	C4016-0750-4.00	11
BT30-SK6-60	182	BT50-C32-165	150	C4006-0312-2.50	11	C4016-0750-4.50DIN	15
BT30-SK6-60P	184	BT50-MMC12C-105	208	C4006-0312-2.50DIN	15	C4016-0875-5.00DIN	15
BT30-SK6-90	182	BT50-MMC12C-135	208	C4006-0375-2.50	11	C4016-0875-6.00	12
BT30-SK6-90P	184	BT50-MMC12C-165	208	C4006-0375-2.50DIN	15	C4016-1000-5.50DIN	15
BT30-VC13-120	199	BT50-MMC4-105	208	C4006-0437-2.50	11	C4016-1000-6.00	12
BT30-VC13-60	199	BT50-MMC8C-105	208	C4006-0437-2.50DIN	15	C4016-1250-5.50DIN	15
BT30-VC13-90	199	BT50-MMC8C-135	208	C4006-0500-2.50	11	C4016-1250-6.00	12
BT30-VC6-45	199	BT50-MMC8C-165	208	C4006-0500-2.50DIN	15	C4016-1500-6.00	12
BT30-VC6-60	199	BT50-MOC1.1/4-170	270	C4006-0625-3.00	11	C4016-1500-6.00DIN	15
BT30-VC6-90	199	BT50-MOC3/4-160	270	C4006-0625-3.00DIN	15	C4017-0008-4.00	33
BT40-AFC3/4-200-90	245	BT50-MOK10-150	269	C4006-0750-3.00	11	C4017-0011-4.00	33
BT40-AHC3/4-160-90	245	BT50-MOK16-165	269	C4006-0750-3.00DIN	15	C4017-0016-6.00	33
BT40-C1.1/4-120	150	BT50-MOL1.1/2-160	268	C4006-0875-3.50	12	C4017-0016-6.00DIN	35
BT40-C1.1/4-120G	151	BT50-MOL1.1/4-150	268	C4006-0875-3.50DIN	15	C4017-0020-4.00	33
BT40-C1.1/4-85	150	BT50-MOL1-150	268	C4006-1000-4.00	12	C4017-0020-4.00DIN	35
BT40-C1.1/4-85G	151	BT50-MOL3/4-150	268	C4006-1000-4.00DIN	15	C4017-0025-4.00	33
BT40-C1-70	150	BT50-MOL5/8-150	268	C4006-10-2.50	12	C4017-0025-4.00DIN	35
BT40-C1-70G	151	BT50-NPU13-90	87	C4006-10-2.50DIN	15	C4017-0032-5.00	33
BT40-C1-90	150	BT50-SK10-105	183	C4006-12-2.50	12	C4017-0032-5.00DIN	35
BT40-C1-90G	151	BT50-SK10-105P	184	C4006-12-2.50DIN	15	C4017-0040-5.00	33

C4017-0040-5.00DIN	35	C40SF-0187-6.30	164	C5006-0625-3.00	13	C5016-0625-4.00	13
C4017-0100-6.00	67	C40SF-0250-3.15	164	C5006-0625-3.00DIN	16	C5016-0625-4.00DIN	16
C4017-0180-6.00	67	C40SF-0250-5.12	164	C5006-0750-2.63A	17	C5016-0625-4.53A	17
C4017-0250-4.00	56	C40SF-0250-6.30	164	C5006-0750-3.00	13	C5016-0750-4.00	13
C4017-0500-4.00	56	C40SF-0375-3.15	164	C5006-0750-3.00DIN	16	C5016-0750-4.00DIN	16
C4017-0750-5.00	56	C40SF-0375-5.12	164	C5006-0875-2.63A	17	C5016-0750-4.50A	17
C4017-1000-5.50	56	C40SF-0375-6.30	164	C5006-0875-3.75	13	C5016-0875-4.50A	17
C4026-0375-5.00	11	C40SF-0500-3.15	164	C5006-0875-3.75DIN	16	C5016-0875-6.00	13
C4026-0500-5.00	11	C40SF-0500-5.12	164	C5006-1000-3.00A	17	C5016-0875-6.00DIN	16
C4026-0625-5.50	11	C40SF-0500-6.30	164	C5006-1000-4.00	13	C5016-1000-4.50A	17
C4026-0750-5.50	11	C40SF-0625-3.15	164	C5006-1000-4.00DIN	16	C5016-1000-6.00	13
C4027-0011-6.00	33	C40SF-0625-5.12	164	C5006-10-2.50	14	C5016-1000-6.00DIN	16
C4027-0020-6.00	33	C40SF-0625-6.30	164	C5006-10-2.50DIN	17	C5016-1250-4.50A	17
C4027-0025-6.00	33	C40SF-0750-3.15	164	C5006-12-2.63	14	C5016-1250-6.00	14
C40-4500	139	C40SF-0750-5.12	164	C5006-12-2.63DIN	17	C5016-1250-6.00DIN	16
C40-4500(B)	139	C40SF-0750-6.30	164	C5006-1250-3.00A	17	C5016-1500-7.00	14
C40-4500(H)	139	C40SF-1000-3.94	164	C5006-1250-4.00	14	C5016-1500-7.00DIN	16
C4046-0250-9.00	11	C40SF-1000-5.12	164	C5006-1250-4.00DIN	16	C5016-2000-7.35A	17
C4046-0375-9.00	11	C40SF-1000-6.30	164	C5006-14-3.00	14	C5016-2000-8.00	14
C4046-0500-9.00	11	C40SF-10-160	164	C5006-14-3.00DIN	17	C5016-2500-7.35A	17
C4046-0625-9.00	11	C40SF-10-80	164	C5006-1500-3.00A	17	C5017-0016-6.00	34
C4046-0750-9.00	11	C40SF-12-160	164	C5006-1500-4.50	14	C5017-0016-6.00DIN	35
C4046-0875-9.00	12	C40SF-1250-3.94	164	C5006-1500-4.50DIN	16	C5017-0020-4.00	34
C4046-1000-9.00	12	C40SF-1250-5.12	164	C5006-16-3.00	14	C5017-0020-4.00DIN	35
C4047-0008-9.00	33	C40SF-1250-6.30	164	C5006-16-3.00DIN	17	C5017-0025-4.00	34
C4047-0016-9.00	33	C40SF-12-80	164	C5006-18-3.00	14	C5017-0025-4.00DIN	35
C4047-0020-9.00	33	C40SF-16-160	164	C5006-18-3.00DIN	17	C5017-0032-6.00	34
C4047-0032-9.00	33	C40SF-16-80	164	C5006-2000-5.35A	17	C5017-0032-6.00DIN	35
C40-6000	139	C40SF-20-160	164	C5006-2000-5.37	14	C5017-0040-6.00	34
C40-6000(B)	139	C40SF-20-80	164	C5006-2000-5.37DIN	16	C5017-0040-6.00DIN	35
C40-6000(H)	139	C40SF-25-100	164	C5006-20-3.00	14	C5017-0180-6.00	67
C40-9000	139	C40SF-25-160	164	C5006-20-3.00DIN	17	C5017-0500-4.00	56
C40-9000(B)	139	C40SF-3-160	164	C5006-2500-5.35A	17	C5017-0750-5.50	56
C40-9000(H)	139	C40SF-3-160	164	C5006-2500-6.00	14	C5017-0750-5.50DIN	57
C40BH-0875-1.75	124	C40SF-32-100	164	C5006-2500-6.00DIN	16	C5017-1000-5.50	56
C40BH-1500-1.75	124	C40SF-32-160	164	C5006-25-4.00	14	C5017-1000-5.50DIN	57
C40FHM-ER20-198	254	C40SF-6-160	164	C5006-25-4.00DIN	17	C5017-1500-6.00	56
C40FHM-ER25-195	254	C40SF-6-80	164	C5006-32-4.00	14	C5017-1500-6.00DIN	57
C40-HITACHI	139	C40SF-8-160	164	C5006-32-4.00DIN	17	C5021-0750-6.00	75
C40-JAW	212	C40SF-8-80	164	C5006-40-4.50	14	C5021-1000-6.00	75
C40-KEY	212	C40-STD	139	C5006-40-4.50DIN	17	C5021-1250-6.00	75
C40-MAZAK	139	C40-STD(B)	139	C5006-42-4.50	14	C5021-1500-6.00	75
C40-MITSUI	139	C40-TESTBAR-14.0	217	C5006-42-4.50DIN	17	C5021-2000-6.00	75
C40R5-0562-2.87(C)	98	C40-TOOLJAW	212	C5006-50-5.37	14	C5026-0250-6.00	13
C40R5-0562-3.02	98	C45-JAW	212	C5006-50-5.37DIN	17	C5026-0250-6.00DIN	16
C40R5-0875-3.50(C)	98	C45-KEY	212	C5006-6-2.50	14	C5026-0312-6.00	13
C40R5-0875-3.66	98	C45-TOOLJAW	212	C5006-6-2.50DIN	17	C5026-0312-6.00DIN	16
C40R5-1375-4.72	98	C5001-0750-1.75	75	C5006-8-2.50	14	C5026-0375-6.00	13
C40RA-0025M	250	C5001-1000-1.75	75	C5006-8-2.50DIN	17	C5026-0375-6.00DIN	16
C40RAM-ER11-208ST	251	C5001-1250-1.75	75	C5007-0016-4.12	34	C5026-0375-6.69A	17
C40RAM-ER16-180	246	C5001-1500-2.00	75	C5007-0016-4.13DIN	35	C5026-0437-6.00	13
C40RAM-ER20-225ST	252	C5001-2000-2.00	75	C5007-0020-2.50	34	C5026-0437-6.00DIN	16
C40RAM-ER25-180	247	C5001-22-60	76	C5007-0020-2.50DIN	35	C5026-0500-6.00	13
C40RAM-ER25-180OT	248	C5001-27-60	76	C5007-0025-2.50	34	C5026-0500-6.00DIN	16
C40RAM-ER25-180TS	253	C5001-32-60	76	C5007-0025-2.50DIN	35	C5026-0500-6.60A	17
C40RAM-ER25-215ST	252	C5001-40-60	76	C5007-0032-4.00	34	C5026-0625-6.00	13
C40RAM-ER32-180	247	C5002-1000-6.17	121	C5007-0032-4.00DIN	35	C5026-0625-6.00DIN	16
C40RAM-ER32-180TS	253	C5002-1250-6.28	121	C5007-0040-4.00	34	C5026-0625-6.53A	17
C40RAM-ER32-200OT	249	C5002-1500-6.60	121	C5007-0040-4.00DIN	35	C5026-0750-6.00	13
C40RAM-MI32-180	255	C5003-0002-1.61	90	C5007-0180-4.00	67	C5026-0750-6.00DIN	16
C40RAM-MI40-180	256	C5003-0003-1.58	90	C5007-0500-2.50	56	C5026-0750-6.50A	17
C40RAM-MI50-180	256	C5003-0004-1.49	90	C5007-0750-3.50	56	C5026-0875-6.50A	17
C40S-4500	139	C5003-0006-1.61	90	C5007-0750-3.50DIN	57	C5026-0875-8.00DIN	16
C40S-4500(H)	139	C5003-0033-1.61	90	C5007-1000-3.50	56	C5026-1000-6.50A	17
C40S5-0562-2.93	97	C5004-0002-1.75	93	C5007-1000-3.50DIN	57	C5026-1000-8.00	13
C40S5-0875-3.90	97	C5004-0003-1.75	93	C5007-1500-3.50	56	C5026-1000-8.00DIN	16
C40S5-1375-5.75	97	C5004-0004-3.00	93	C5007-1500-3.50DIN	57	C5026-1250-6.50A	17
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C40S6-0187-1.38	11	C5005-0562-5.02	97	C5011-1000-4.00	75	C5026-1500-9.00	14
C40S6-0250-1.38	11	C5005-0875-5.39(C)	97	C5011-1250-4.00	75	C5026-1500-9.00DIN	16
C40S6-0312-1.38	11	C5005-0875-5.66	97	C5011-1500-4.00	75	C5026-2000-10.00	14
C40S6-0375-1.38	11	C5005-1375-7.72	97	C5011-2000-4.00	75	C5027-0016-8.00	34
C40S6-0500-1.75	11	C5005-1375-8.31(C)	97	C50-1500	139	C5027-0016-8.00DIN	35
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C40S6-1000-2.00	12	C5006-0312-2.50DIN	16	C5016-0312-4.00	13	C5027-0025-6.00DIN	35
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C40S-9000	139	C5006-0500-2.63	13	C5016-0437-4.00DIN	16	C5027-1000-7.50DIN	57
C40SF-0125-3.15	164	C5006-0500-2.63DIN	16	C5016-0500-4.00	13	C5031-0750-8.00	75
C40SF-0125-6.30	164	C5006-0500-2.73A	17	C5016-0500-4.00DIN	16	C5031-1000-8.00	75
C40SF-0187-3.15	164	C5006-0625-2.66A	17	C5016-0500-4.60A	17	C5031-1250-8.00	75

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C5036-0250-8.00	13	C50SF-0500-6.30	165	CAT40-SK16F-60U	181	CAT50-SK6-105UP	181
C5036-0375-8.00	13	C50SF-0625-3.15	165	CAT40-SK16F-90U	181	CAT50-SK6-165U	180
C5036-0437-8.00	13	C50SF-0625-5.12	165	CAT40-SK25-90U	180	CAT50-SK6-165UP	181
C5036-0500-8.00	13	C50SF-0625-6.30	165	CAT40-SK25-120U	180	CAT50-SK6-195U	180
C5036-0625-8.00	13	C50SF-0750-3.15	165	CAT40-SK25-120UP	181	CAT50-AFC1.1/4-230-90	245
C5036-0750-8.00	13	C50SF-0750-5.12	165	CAT40-SK25-90UP	181	CAT50U-AHC1.1/4-210-90	245
C5037-0020-8.00	34	C50SF-0750-6.30	165	CAT40-SK25F-90U	181	CAT50U-MOC1.1/4-170	270
C5037-0025-8.00	34	C50SF-1000-3.94	165	CAT40-SK25F-120U	181	CAT50U-MOC3/4-170	270
C5037-1000-10.00	56	C50SF-1000-5.12	165	CAT40-SK6-120U	180	CAT50U-MOK10-150	269
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C5057-0032-12.00	34	C50SF-1250-5.12	165	CAT40-SK6F-120U	181	CAT50U-MOL5/8-150	268
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C50-6000(H)	139	C50SF-16-80	165	CAT40U-AHC3/4-160-90	245	CAT50-VC13-165U	198
C5066-0375-15.00	13	C50SF-20-160	165	CAT40U-MOC1.1/4-170	270	CAT50-VC6-105U	198
C5066-0500-15.00	13	C50SF-20-80	165	CAT40U-MOC3/4-155	270	CAT50-VC6-135U	198
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C50-MAZAK	139	CAT40-C1.1/4SLF-120U	149	CAT50-C1.1/4F-105U	149	CCK1.1/4-9/16	158
C50-MITSUI	139	CAT40-C1-105U	148	CAT50-C1.1/4F-135U	149	CCK1-1/2	157
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C50RAM-ER25-185OT	248	CAT40-C3/4-85UG	149	CAT50-C3/4-135UG	149	CCK1-3/4	157
C50RAM-ER32-180	247	CAT40-C3/4F-105U	149	CAT50-C3/4-165U	148	CCK1-3/8	157
C50RAM-ER32-180TS	253	CAT40-C3/4F-85U	149	CAT50-C3/4F-105U	149	CCK1-5/16	157
C50RAM-ER32-200OT	249	CAT40-C32-105U	148	CAT50-C3/4F-135U	149	CCK1-5/8	157
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C50RAM-ER40-260OT	249	CAT40-MMC8C-120U	207	CAT50-MMC12C-135U	207	CCK1-8	157
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C50SF-0375-5.12	165	CAT40-SK16-90U	180	CAT50-SK25-165UP	181	CCK32-12	158
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CCKL25	157	CKFN3/4-1/4	157	E11-013	46	E16-196(C)	47
CCKL32	158	CKFN3/4-1/4C	157	E11-013(C)	46	E16-216	47
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CKFN1-12	158	CKFN32-3/4C	158	E16-013(C)	47	E20-025(C)	48
CKFN1-12C	158	CKFN32-3/8	158	E16-014	47	E20-026	48
CKFN1-14	158	CKFN32-3/8C	158	E16-014(C)	47	E20-026(C)	48
CKFN1-14C	158	CKFN32-5/16	158	E16-015(C)	47	E20-027(C)	48
CKFN1-16	158	CKFN32-5/16C	158	E16-016	47	E20-028	48
CKFN1-16C	158	CKFN32-5/8	158	E16-016(C)	47	E20-028(C)	48
CKFN1-18	158	CKFN32-5/8C	158	E16-017(C)	47	E20-029(C)	48
CKFN1-18C	158	CKFN32-6	158	E16-018	47	E20-030	48
CKFN1-20	158	CKFN32-6C	158	E16-018(C)	47	E20-030(C)	48
CKFN1-20C	158	CKFN32-7/16	158	E16-019(C)	47	E20-031(C)	48
CKFN1-3/16	157	CKFN32-7/16C	158	E16-020	47	E20-032	48
CKFN1-3/16C	157	CKFN32-7/8	158	E16-020(C)	47	E20-032(C)	48
CKFN1-3/4	157	CKFN32-7/8C	158	E16-021(C)	47	E20-078	48
CKFN1-3/4C	157	CKFN32-8	158	E16-022	47	E20-118	48
CKFN1-3/8	157	CKFN32-8C	158	E16-022(C)	47	E20-11S	48
CKFN1-3/8C	157	CKFN32-9/16	158	E16-023(C)	47	E20-12S(C)	48
CKFN1-5/16	157	CKFN32-9/16C	158	E16-024	47	E20-137	48
CKFN1-5/16C	157	CKL32	158	E16-024(C)	47	E20-157	48
CKFN1-5/8	157	CRE-2/1	118	E16-025(C)	47	E20-15S	48
CKFN1-5/8C	157	CRE-3/2	118	E16-026	47	E20-17S(C)	48
CKFN1-6	157	D1.1/2-NPU13-6.23	88	E16-026(C)	47	E20-196	48
CKFN1-6C	157	D1.1/4-NPU13-6.23	88	E16-039	47	E20-196(C)	48
CKFN1-7/16	157	D43GUX-NK1010	219	E16-059	47	E20-216(C)	48

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Technical
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E20-236	48	E25-275(C)	49	E32-049(C)	50	E40-25S	51
E20-236(C)	48	E25-295(C)	49	E32-050	50	E40-275	51
E20-255(C)	48	E25-314	49	E32-050(C)	50	E40-314	51
E20-275	48	E25-314(C)	49	E32-118	50	E40-33S(C)	51
E20-275(C)	48	E25-334(C)	49	E32-137	50	E40-354	51
E20-295(C)	48	E25-354	49	E32-157	50	E40-393	51
E20-314	48	E25-354(C)	49	E32-17S(C)	50	E40-393(C)	51
E20-314(C)	48	E25-374(C)	49	E32-18S	50	E40-413(C)	51
E20-334(C)	48	E25-393	49	E32-196	50	E40-433	51
E20-354	48	E25-393(C)	49	E32-21S	50	E40-433(C)	51
E20-354(C)	48	E25-413(C)	49	E32-21S(C)	50	E40-452	51
E20-374(C)	48	E25-433	49	E32-236	50	E40-452(C)	51
E20-393	48	E25-433(C)	49	E32-275	50	E40-472	51
E20-393(C)	48	E25-452	49	E32-314	50	E40-472(C)	51
E20-413(C)	48	E25-452(C)	49	E32-354	50	E40-492(C)	51
E20-433	48	E25-472	49	E32-393	50	E40-511	51
E20-433(C)	48	E25-472(C)	49	E32-393(C)	50	E40-511(C)	51
E20-452	48	E25-492(C)	49	E32-413(C)	50	E40-531(C)	51
E20-452(C)	48	E25-511	49	E32-433	50	E40-551	51
E20-472	48	E25-511(C)	49	E32-433(C)	50	E40-551(C)	51
E20-472(C)	48	E25-531(C)	49	E32-452	50	E40-570(C)	51
E20-492(C)	48	E25-551	49	E32-452(C)	50	E40-590	51
E20-511	48	E25-551(C)	49	E32-472	50	E40-590(C)	51
E20-511(C)	48	E25-570(C)	49	E32-472(C)	50	E40-610(C)	51
E20-EXT-100	40	E25-590	49	E32-492(C)	50	E40-629	51
E20-EXT-125	40	E25-590(C)	49	E32-511	50	E40-629(C)	51
E20-EXT-750	40	E25-610(C)	49	E32-511(C)	50	E40-649(C)	51
E20-NUT	54	E25-629	49	E32-531(C)	50	E40-669	51
E25-004	49	E25-629(C)	49	E32-551	50	E40-669(C)	51
E25-006	49	E25-EXT-100	40	E32-551(C)	50	E40-688(C)	51
E25-008	49	E25-EXT-125	40	E32-570(C)	50	E40-708	51
E25-010	49	E25-EXT-750	40	E32-590	50	E40-708(C)	51
E25-012	49	E25-NUT	54	E32-590(C)	50	E40-728(C)	51
E25-014	49	E32-008	50	E32-610(C)	50	E40-748	51
E25-014(C)	49	E32-010	50	E32-629	50	E40-748(C)	51
E25-015(C)	49	E32-012	50	E32-629(C)	50	E40-767	51
E25-016	49	E32-014	50	E32-649(C)	50	E40-767(C)	51
E25-016(C)	49	E32-016	50	E32-669	50	E40-787	51
E25-017(C)	49	E32-016(C)	50	E32-669(C)	50	E40-787(C)	51
E25-018	49	E32-017(C)	50	E32-688(C)	50	E40-807(C)	51
E25-018(C)	49	E32-018	50	E32-708	50	E40-826	51
E25-019(C)	49	E32-018(C)	50	E32-708(C)	50	E40-826(C)	51
E25-020	49	E32-019(C)	50	E32-728(C)	50	E40-846(C)	51
E25-020(C)	49	E32-020	50	E32-748	50	E40-866	51
E25-021(C)	49	E32-020(C)	50	E32-748(C)	50	E40-866(C)	51
E25-022	49	E32-021(C)	50	E32-767	50	E40-885(C)	51
E25-022(C)	49	E32-022	50	E32-767(C)	50	E40-905	51
E25-023(C)	49	E32-022(C)	50	E32-787	50	E40-905(C)	51
E25-024	49	E32-023(C)	50	E32-787(C)	50	E40-925(C)	51
E25-024(C)	49	E32-024	50	E32-EXT-100	40	E40-944	51
E25-025(C)	49	E32-024(C)	50	E32-EXT-125	40	E40-944(C)	51
E25-026	49	E32-025(C)	50	E32-NUT	54	E40-964(C)	51
E25-026(C)	49	E32-026	50	E32-NUT-ST	54	E40-984	51
E25-027(C)	49	E32-026(C)	50	E40-010	51	E40-984(C)	51
E25-028	49	E32-027(C)	50	E40-012	51	E40-NUT	54
E25-028(C)	49	E32-028	50	E40-014	51	E40-NUT-ST	54
E25-029(C)	49	E32-028(C)	50	E40-016	51	ER11-3	55
E25-030	49	E32-029(C)	50	E40-018	51	ER11-3 (C)	55
E25-030(C)	49	E32-030	50	E40-020	51	ER16-1	54
E25-031(C)	49	E32-030(C)	50	E40-022	51	ER16-3	55
E25-032	49	E32-031(C)	50	E40-024	51	ER16-3 (C)	55
E25-032(C)	49	E32-032	50	E40-026	51	ER20-1	54
E25-033(C)	49	E32-032(C)	50	E40-028	51	ER20-3	55
E25-034	49	E32-033(C)	50	E40-030	51	ER20-3 (C)	55
E25-034(C)	49	E32-034	50	E40-032	51	ER25-1	54
E25-035(C)	49	E32-034(C)	50	E40-034	51	ER25-3	55
E25-036	49	E32-035(C)	50	E40-036	51	ER25-3 (C)	55
E25-036(C)	49	E32-036	50	E40-038	51	ER32-1	54
E25-037(C)	49	E32-036(C)	50	E40-040	51	ER32-3	55
E25-038	49	E32-037(C)	50	E40-042	51	ER32-3 (C)	55
E25-038(C)	49	E32-038	50	E40-044	51	ER40-1	54
E25-039(C)	49	E32-038(C)	50	E40-046	51	ER40-3	55
E25-040	49	E32-039(C)	50	E40-048	51	ER40-3 (C)	55
E25-040(C)	49	E32-040	50	E40-050	51	ER8-039	46
E25-078	49	E32-040(C)	50	E40-052	51	ER8-059	46
E25-118	49	E32-041(C)	50	E40-054	51	ER8-078	46
E25-137	49	E32-042	50	E40-056	51	ER8-098	46
E25-13S(C)	49	E32-042(C)	50	E40-058	51	ER8-09S	46
E25-14S	49	E32-043(C)	50	E40-060	51	ER8-118	46
E25-157	49	E32-044	50	E40-062	51	ER8-137	46
E25-196	49	E32-044(C)	50	E40-064	51	ER8-157	46
E25-19S	49	E32-045(C)	50	E40-1003(C)	51	ER8-177	46
E25-21S(C)	49	E32-046	50	E40-1023	51	ER8-196	46
E25-236	49	E32-046(C)	50	E40-1023(C)	51	ER8-3	55
E25-236(C)	49	E32-047(C)	50	E40-157	51	ER8-3 (C)	55
E25-255(C)	49	E32-048	50	E40-196	51	ER8-EXT-500	40
E25-275	49	E32-048(C)	50	E40-236	51	ER8-EXT-625	40

ET16-168	52	ET40-760(C)	53	HSK100A-ER40-4.00	38	HSK100A-VC6-135	200
ET16-194	52	ET40-800	52	HSK100A-ER40-6.00	38	HSK100A-VC6-165	200
ET16-220	52	ET40-800(C)	53	HSK100A-FM2000-4.00	79	HSK100-TUBE	28,55,83,89,118,126,159,204,210
ET16-255	52	GH10	204	HSK100A-FM2000-6.00	79	HSK100-WRENCH	28,55,83,89,118,126,159,204,210
ET16-255(C)	53	GH10	193,204	HSK100A-FM2500-4.00	79		
ET16-318(C)	53	GH16	204	HSK100A-FM2500-6.00	79		
ET20-168	52	GH16	193,204	HSK100A-JAW	212	HSK32E-SF10-80	172
ET20-194	52	GH20	159	HSK100A-KEY	212	HSK32E-SF3-60	172
ET20-220	52	GH25	193	HSK100A-MMC12C-130	209	HSK32E-SF4-60	172
ET20-255	52	GH25	159	HSK100A-MMC8C-130	209	HSK32E-SF6-100	172
ET20-255(C)	53	GH32	159	HSK100A-NPU13C-145	88	HSK32E-SF8-100	172
ET20-318	52	GH32S	159	HSK100A-R0562-2.59	102	HSK32E-SK10-60P	187
ET20-318(C)	53	GH6	193	HSK100A-R0562-3.09C	102	HSK32E-SK6-50P	187
ET20-323	52	H10AFHM-ER25-205	254	HSK100A-R0875-3.42	102	HSK40A-0125-75	22
ET20-323(C)	53	H10AFHM-ER32-220	254	HSK100A-R0875-3.94C	102	HSK40A-0187-75	22
ET20-367	52	H10ARAM-ER25-190	247	HSK100A-R1375-4.57	102	HSK40A-0250-75	22
ET20-367(C)	53	H10ARAM-ER25-190TS	253	HSK100A-R1375-5.32C	102	HSK40A-0312-75	22
ET20-381	52	H10ARAM-ER25-195OT	248	HSK100A-SF0250-3.54	170	HSK40A-0375-75	22
ET20-381(C)	53	H10ARAM-ER32-190	247	HSK100A-SF0250-6.30	170	HSK40A-0437-75	22
ET25-168	52	H10ARAM-ER32-190TS	253	HSK100A-SF0375-3.54	170	HSK40A-0500-75	22
ET25-194	52	H10ARAM-ER32-210OT	249	HSK100A-SF0375-6.30	170	HSK40A-0625-75	22
ET25-220	52	H10ARAM-ER32-295ST	252	HSK100A-SF0500-3.74	170	HSK40A-0750-75	22
ET25-255	52	H10ARAM-ER40-225	247	HSK100A-SF0500-6.30	170	HSK40A-BLANK-8.00	126
ET25-255(C)	53	H10ARAM-ER40-225TS	253	HSK100A-SF0625-3.94	170	HSK40A-ER11-75	38
ET25-318	52	H10ARAM-ER40-270OT	249	HSK100A-SF0625-6.30	170	HSK40A-ER16-75	38
ET25-318(C)	53	H10ARAM-MI40-190	256	HSK100A-SF0750-4.13	170	HSK40A-ER20-75	38
ET25-323	52	H10ARAM-MI50-190	256	HSK100A-SF0750-6.30	170	HSK40A-ER25-80	38
ET25-323(C)	53	H10ARAM-MI63-225	256	HSK100A-SF1000-4.53	170	HSK40A-ER32-80	38
ET25-367	52	H63AFHM-ER20-205	254	HSK100A-SF1000-6.30	170	HSK40A-JAW	212
ET25-367(C)	53	H63AFHM-ER25-202	254	HSK100A-SF10-160	170	HSK40A-KEY	212
ET25-381	52	H63ARAM-ER16-187	246	HSK100A-SF10-90	170	HSK40A-NPU8C-114	88
ET25-381(C)	53	H63ARAM-ER20-232ST	252	HSK100A-SF12-160	170	HSK40A-R0562-2.97C	102
ET25-429	52	H63ARAM-ER25-187	247	HSK100A-SF1250-4.72	170	HSK40A-R0562-3.15	102
ET25-429(C)	53	H63ARAM-ER25-187OT	248	HSK100A-SF1250-6.30	170	HSK40A-SM0750-60	79
ET25-437	52	H63ARAM-ER25-187TS	253	HSK100A-SF12-95	170	HSK40A-SM1000-60	79
ET25-480	52	H63ARAM-ER25-222ST	252	HSK100A-SF16-100	170	HSK40A-TOOLJAW	212
ET25-480(C)	53	H63ARAM-ER32-187	247	HSK100A-SF16-160	170	HSK40A-VC13-120	200
ET32-168	52	H63ARAM-ER32-187TS	253	HSK100A-SF20-105	170	HSK40A-VC13-90	200
ET32-194	52	H63ARAM-ER32-207OT	249	HSK100A-SF20-160	170	HSK40A-VC6-65	200
ET32-220	52	H63ARAM-MI32-187	255	HSK100A-SF25-115	170	HSK40A-VC6-90	200
ET32-255	52	H63ARAM-MI40-187	256	HSK100A-SF25-160	170	HSK40E-SF0125-2.36	172
ET32-255(C)	53	H63ARAM-MI50-187	256	HSK100A-SF32-120	170	HSK40E-SF0187-2.36	172
ET32-318	52	HP-4	215	HSK100A-SF32-160	170	HSK40E-SF0250-3.15	172
ET32-318(C)	53	HP-6	215	HSK100A-SF6-160	170	HSK40E-SF0250-5.12	172
ET32-323	52	HSK100A-0187-4.00	23	HSK100A-SF6-85	170	HSK40E-SF0375-3.15	172
ET32-323(C)	53	HSK100A-0187-6.00	23	HSK100A-SF8-160	170	HSK40E-SF0375-5.12	172
ET32-367	52	HSK100A-0250-4.00	23	HSK100A-SF8-85	170	HSK40E-SF0500-3.54	172
ET32-367(C)	53	HSK100A-0250-6.00	23	HSK100A-SK10C-105	186	HSK40E-SF0500-5.12	172
ET32-381	52	HSK100A-0312-4.00	23	HSK100A-SK10C-105P	187	HSK40E-SF0625-3.54	172
ET32-381(C)	53	HSK100A-0312-6.00	23	HSK100A-SK10C-120	186	HSK40E-SF0625-5.12	172
ET32-429	52	HSK100A-0375-4.00	23	HSK100A-SK10C-120P	187	HSK40E-SF10-130	172
ET32-429(C)	53	HSK100A-0375-6.00	23	HSK100A-SK10C-150	186	HSK40E-SF10-80	172
ET32-437	52	HSK100A-0437-4.00	23	HSK100A-SK10C-150P	187	HSK40E-SF12-130	172
ET32-480	52	HSK100A-0437-6.00	23	HSK100A-SK10C-200	186	HSK40E-SF12-90	172
ET32-480(C)	53	HSK100A-0500-4.00	23	HSK100A-SK10C-200P	187	HSK40E-SF16-130	172
ET32-542	52	HSK100A-0500-6.00	23	HSK100A-SK16C-120	186	HSK40E-SF16-90	172
ET32-542(C)	53	HSK100A-0625-4.00	23	HSK100A-SK16C-120P	187	HSK40E-SF3-60	172
ET32-562	52	HSK100A-0625-6.00	23	HSK100A-SK16C-150	186	HSK40E-SF4-60	172
ET32-590	52	HSK100A-0750-4.00	23	HSK100A-SK16C-150P	187	HSK40E-SF6-130	172
ET32-590(C)	53	HSK100A-0750-6.00	23	HSK100A-SK16C-200	186	HSK40E-SF6-80	172
ET32-652	52	HSK100A-1000-4.00	23	HSK100A-SK16C-200P	187	HSK40E-SF8-130	172
ET32-652(C)	53	HSK100A-1000-6.00	23	HSK100A-SK25C-145	186	HSK40E-SF8-80	172
ET40-255	52	HSK100A-1250-4.00	23	HSK100A-SK25C-145P	187	HSK40E-SK10-60P	187
ET40-318	52	HSK100A-1250-6.00	23	HSK100A-SK6C-105	186	HSK40E-SK16-80P	187
ET40-323	52	HSK100A-BLANK-13.00	126	HSK100A-SK6C-105P	187	HSK40E-SK6-60P	187
ET40-323(C)	53	HSK100A-C1.1/4-115	153	HSK100A-SM0750-4.00	79	HSK40E-VC13-120	201
ET40-367	52	HSK100A-C1.1/4-115G	153	HSK100A-SM0750-6.00	79	HSK40E-VC13-90	201
ET40-367(C)	53	HSK100A-C1.1/4-165	153	HSK100A-SM1000-4.00	79	HSK40E-VC6-65	201
ET40-381	52	HSK100A-C1.1/4-165G	153	HSK100A-SM1000-6.00	79	HSK40E-VC6-90	201
ET40-381(C)	53	HSK100A-C1-115	153	HSK100A-SM1250-4.00	79	HSK40-TUBE	28,55,83,89,118,126,159,204,210
ET40-429	52	HSK100A-C1-115G	153	HSK100A-SM1250-6.00	79	HSK40-WRENCH	28,55,83,89,118,126,159,204,210
ET40-429 (C)	53	HSK100A-C1-135	153	HSK100A-SM1500-4.00	79		
ET40-437	52	HSK100A-C1-135G	153	HSK100A-SM1500-6.00	79		
ET40-480	52	HSK100A-C2-125	153	HSK100A-SM2000-4.00	79	HSK63A-0187-3.00	22
ET40-480(C)	53	HSK100A-C3/4-115	153	HSK100A-SM2000-6.00	79	HSK63A-0187-5.00	22
ET40-542	52	HSK100A-C3/4-115G	153	HSK100A-TC0562-4.65	101	HSK63A-0250-3.00	22
ET40-542(C)	53	HSK100A-C3/4-135	153	HSK100A-TC0562-5.10C	101	HSK63A-0250-5.00	22
ET40-562	52	HSK100A-C3/4-135G	153	HSK100A-TC0875-5.98	101	HSK63A-0312-3.00	22
ET40-590	52	HSK100A-C32-135	153	HSK100A-TC0875-6.65C	101	HSK63A-0312-5.00	22
ET40-590(C)	53	HSK100A-ER16-4.00	38	HSK100A-TC1375-7.95	101	HSK63A-0375-3.50	22
ET40-652	52	HSK100A-ER16-6.00	38	HSK100A-TC1375-9.66C	101	HSK63A-0375-5.00	22
ET40-652(C)	53	HSK100A-ER20-4.00	38	HSK100A-TESTBAR-14.0	217	HSK63A-0437-4.00	22
ET40-687	52	HSK100A-ER20-6.00	38	HSK100A-TOOLJAW	212	HSK63A-0437-5.00	22
ET40-697	52	HSK100A-ER25-4.00	38	HSK100A-VC13-105	200	HSK63A-0500-4.00	22
ET40-697(C)	53	HSK100A-ER25-6.00	38	HSK100A-VC13-135	200	HSK63A-0500-5.00	22
ET40-700	52	HSK100A-ER32-4.00	38	HSK100A-VC13-165	200	HSK63A-0625-4.00	22
ET40-760	52	HSK100A-ER32-6.00	38	HSK100A-VC6-105	200	HSK63A-0625-5.00	22

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HSK63A-0750-4.50	22	HSK63A-SK6C-100P	187	K3/4-SK10-100	185	M0205-0875-5.94	105
HSK63A-0750-6.00	22	HSK63A-SK6C-120	186	K3/4-SK10-120	185	M0206-0125-1.50	27
HSK63A-1000-4.50	22	HSK63A-SK6C-120P	187	KM1.1/4-08S	155	M0206-0187-1.50	27
HSK63A-1000-6.00	22	HSK63A-SK6C-150	186	KM1.1/4-1	155	M0206-0250-1.50	27
HSK63A-1250-4.50	22	HSK63A-SK6C-150P	187	KM1.1/4-1/2	155	M0206-0312-1.50	27
HSK63A-1250-6.00	22	HSK63A-SM0750-3.00	79	KM1.1/4-1/4	155	M0206-0375-1.63	27
HSK63A-BLANK-13.00	126	HSK63A-SM0750-5.00	79	KM1.1/4-10	155	M0206-0500-1.81	27
HSK63A-C1.1/4-110	152	HSK63A-SM1000-3.00	79	KM1.1/4-10S	155	M0305-0562-4.72	105
HSK63A-C1.1/4-110G	152	HSK63A-SM1000-5.00	79	KM1.1/4-12	155	M0305-0875-5.94	105
HSK63A-C1.1/4-130	152	HSK63A-SM1250-3.00	79	KM1.1/4-14	155	M0306-0250-1.50	27
HSK63A-C1.1/4-130G	152	HSK63A-SM1250-5.00	79	KM1.1/4-16	155	M0306-0312-1.50	27
HSK63A-C1-100	152	HSK63A-TC0562-3.98C	101	KM1.1/4-20	155	M0306-0375-1.88	27
HSK63A-C1-100G	152	HSK63A-TC0562-4.49	101	KM1.1/4-25	155	M0306-0500-1.94	27
HSK63A-C1-130	152	HSK63A-TC0875-5.82	101	KM1.1/4-3/16	155	M0307-1000-3.25	60
HSK63A-C1-130G	152	HSK63A-TC0875-6.38C	101	KM1.1/4-3/4	155	M0405-0562-4.72	105
HSK63A-C3/4-110	152	HSK63A-TC1375-7.72	101	KM1.1/4-3/8	155	M0405-0875-5.94	105
HSK63A-C3/4-110G	152	HSK63A-TC1375-9.41C	101	KM1.1/4-5/16	155	M0406-0375-2.00	27
HSK63A-C3/4-95	152	HSK63A-TESTBAR-14.0	217	KM1.1/4-5/8	155	M0406-0500-2.31	27
HSK63A-C3/4-95G	152	HSK63A-TOOLJAW	212	KM1.1/4-6	155	M0406-0625-2.50	27
HSK63A-C32-130	152	HSK63A-VC13-120	200	KM1.1/4-7/16	155	M0406-0750-2.75	27
HSK63A-ER16-3.00	38	HSK63A-VC13-90	200	KM1.1/4-7/8	155	M0407-1000-3.25	60
HSK63A-ER16-5.00	38	HSK63A-VC6-120	200	KM1.1/4-8	155	M150-STA-#10	259
HSK63A-ER20-3.00	38	HSK63A-VC6-70	200	KM1.1/4-9/16	155	M150-STA-#12	259
HSK63A-ER20-5.00	38	HSK63A-VC6-90	200	KM1-08S	155	M150-STA-#6	259
HSK63A-ER25-3.00	38	HSK63F-C1.1/4-110G	153	KM1-1/2	155	M150-STA-#8	259
HSK63A-ER25-5.00	38	HSK63F-C1-100G	153	KM1-1/4	155	M150-STA-1/2	259
HSK63A-ER32-4.00	38	HSK63F-C3/4-95G	153	KM1-1/8	155	M150-STA-1/4	259
HSK63A-ER32-6.00	38	HSK63F-MMC12C-129	209	KM1-10	155	M150-STA-3/8	259
HSK63A-ER40-4.00	38	HSK63F-MMC8C-127	209	KM1-10S	155	M150-STA-5/16	259
HSK63A-ER40-6.00	38	HSK63F-SF0125-3.00	171	KM1-12	155	M150-STA-5/8	259
HSK63A-JAW	212	HSK63F-SF0125-6.00	171	KM1-14	155	M150-STA-7/16	259
HSK63A-KEY	212	HSK63F-SF0250-3.00	171	KM1-16	155	M150-STA-9/16	259
HSK63A-MMC12C-110-A	209	HSK63F-SF0250-6.00	171	KM1-18	155	MPK4-1	210
HSK63A-MMC12C-117	209	HSK63F-SF0375-3.00	171	KM1-20	155	MPK4-1.5	210
HSK63A-MMC8C-107-A	209	HSK63F-SF0375-6.00	171	KM1-3/16	155	MPK4-1/16	210
HSK63A-MMC8C-115	209	HSK63F-SF0500-3.00	171	KM1-3/4	155	MPK4-2	210
HSK63A-NPU13C-135	88	HSK63F-SF0500-6.00	171	KM1-3/8	155	MPK4-2.5	210
HSK63A-R0562-2.48	102	HSK63F-SF0625-3.00	171	KM1-5/16	155	MPK4-3	210
HSK63A-R0562-3.01C	102	HSK63F-SF0625-6.00	171	KM1-5/8	155	MPK4-3.5	210
HSK63A-R0875-3.31	102	HSK63F-SF0750-3.00	171	KM1-6	155	MPK4-3/32	210
HSK63A-R0875-4.01C	102	HSK63F-SF0750-6.00	171	KM1-7/16	155	MPK4-4	210
HSK63A-R1375-5.12	102	HSK63F-SF1000-3.00	171	KM1-7/8	155	N3001-0500-1.25	80
HSK63A-R1375-5.51C	102	HSK63F-SF1000-6.00	171	KM1-8	155	N3001-0750-1.31	80
HSK63A-SF0125-3.15	169	HSK63F-SK10C-105P	187	KM2-1	155	N3001-1000-1.31	80
HSK63A-SF0125-6.30	169	HSK63F-SK16C-120P	187	KM2-1-1/2	155	N3001-1250-1.44	80
HSK63A-SF0250-3.15	169	HSK63F-VC13-120	201	KM2-1-1/4	155	N3002-0750-4.97	122
HSK63A-SF0250-6.30	169	HSK63F-VC13-90	201	KM3/4-07S	155	N3002-1000-5.18	122
HSK63A-SF0375-3.35	169	HSK63F-VC6-120	201	KM3/4-09S	155	N3002-1250-5.28	122
HSK63A-SF0375-6.30	169	HSK63F-VC6-65	201	KM3/4-1/2	155	N3003-0001-0.63	91
HSK63A-SF0500-3.54	169	HSK63F-VC6-90	201	KM3/4-1/4	155	N3003-0002-0.59	91
HSK63A-SF0500-6.30	169	HSK63-TUBE	28,55,83,89,118,126, 159,204,210	KM3/4-1/8	155	N3003-0003-0.55	91
HSK63A-SF0625-3.74	169	HSK63-WRENCH	28,55,83,89,118, 126,159,204,210	KM3/4-10	155	N3003-0006-0.59	91
HSK63A-SF0625-6.30	169	HSK80F-SF0125-3.00	171	KM3/4-12	155	N3003-0033-0.59	91
HSK63A-SF0750-3.94	169	HSK80F-SF0125-6.00	171	KM3/4-14	155	N3004-0001-1.00	94
HSK63A-SF0750-6.30	169	HSK80F-SF0250-2.36	171	KM3/4-16	155	N3004-0002-2.13	94
HSK63A-SF1000-4.53	169	HSK80F-SF0250-3.00	171	KM3/4-3/16	155	N3004-0003-2.81	94
HSK63A-SF1000-6.30	169	HSK80F-SF0625-3.15	171	KM3/4-3/8	155	N3005-0562-4.64	105
HSK63A-SF10-160	169	HSK80F-SF0625-6.00	171	KM3/4-5/16	155	N3005-0875-6.16	105
HSK63A-SF10-85	169	HSK80F-SF0250-6.00	171	KM3/4-5/8	155	N3006-0125-1.75	24
HSK63A-SF12-160	169	HSK80F-SF0375-2.56	171	KM3/4-6	155	N3006-0187-1.75	24
HSK63A-SF12-90	169	HSK80F-SF0375-3.00	171	KM3/4-7	155	N3006-0250-1.75	24
HSK63A-SF16-160	169	HSK80F-SF0375-6.00	171	KM3/4-7/16	155	N3006-0312-1.75	24
HSK63A-SF16-95	169	HSK80F-SF0500-2.96	171	KM3/4-8	155	N3006-0375-1.75	24
HSK63A-SF20-100	169	HSK80F-SF0500-3.00	171	KM3/4-9/16	155	N3006-0500-1.75	24
HSK63A-SF20-160	169	HSK80F-SF0500-6.00	171	KM32-09S	155	N3006-0625-1.75	24
HSK63A-SF25-115	169	HSK80F-SF0625-3.00	171	KM32-1	155	N3006-0750-2.25	24
HSK63A-SF25-160	169	HSK80F-SF0625-3.15	171	KM32-1/2	155	N3006-0875-2.50	24
HSK63A-SF3-160	169	HSK80F-SF0625-6.00	171	KM32-1/4	155	N3006-1000-2.69	24
HSK63A-SF32-120	169	HSK80F-SF0750-3.15	171	KM32-10	155	N3006-1250-3.62	24
HSK63A-SF3-80	169	HSK80F-SF0750-3.50	171	KM32-11S	155	N3007-0011-2.00	39
HSK63A-SF6-160	169	HSK80F-SF0750-6.00	171	KM32-12	155	N3007-0016-1.77	39
HSK63A-SF6-80	169	HSK80F-SF1000-2.75	171	KM32-14	155	N3007-0100-2.75	68
HSK63A-SF8-160	169	HSK80F-SF1000-4.00	171	KM32-16	155	N3007-0180-3.00	68
HSK63A-SF8-80	169	HSK80F-SF1000-6.00	171	KM32-20	155	N3007-0200-2.50	68
HSK63A-SK10C-105	186	K1.1/4-MMC8C-122	209	KM32-25	155	N3007-0300-2.50	68
HSK63A-SK10C-105P	187	K1.1/4-MMC8C-160	209	KM32-26	155	N3007-0750-2.50	59
HSK63A-SK10C-120	186	K1.1/4-SK06-120	185	KM32-3/16	155	N3007-1000-3.94	59
HSK63A-SK10C-120P	187	K1.1/4-SK06-170	185	KM32-3/4	155	N4001-0500-0.87	80
HSK63A-SK10C-150	186	K1.1/4-SK10-120	185	KM32-3/8	155	N4001-0750-0.87	80
HSK63A-SK10C-150P	187	K1.1/4-SK10-150	185	KM32-5/16	155	N4001-1000-1.31	80
HSK63A-SK16C-120	186	K1.1/4-SK10-210	185	KM32-5/8	155	N4001-1250-1.50	80
HSK63A-SK16C-120P	187	K1.1/4-SK16-120	185	KM32-6	155	N4001-1500-1.63	80
HSK63A-SK16C-150	186	K1.1/4-SK16-150	185	KM32-7/16	155	N4002-0750-5.00	122
HSK63A-SK16C-150P	187	K1.1/4-SK16-210	185	KM32-7/8	155	N4002-1000-5.18	122
HSK63A-SK25C-135	186	K1.1/4-SK25-150	185	KM32-8	155	N4002-1250-5.28	122
HSK63A-SK25C-135P	187	K-3	92	KM32-9/16	155	N4002-1500-5.62	122
HSK63A-SK6C-100	186	K3/4-MMC8C-100	209	M0205-0562-4.92	105	N4003-0001-0.69	91

N4003-0002-0.65	91	NK1.1/4-1/4	156	NKA00-10000	276	NTPT15-048(S)	108
N4003-0003-0.61	91	NK1.1/4-10	156	NKA00-11000	276	NTPT15-064	108
N4003-0006-0.65	91	NK1.1/4-12	156	NKA01-12000	276	NTPT15-064(S)	108
N4003-0033-0.65	91	NK1.1/4-14	156	NKA01-13000	276	OK101-13000	278
N4004-0001-0.94	94	NK1.1/4-16	156	NKA01-20000	276	OK101-14000	278
N4004-0002-1.75	94	NK1.1/4-20	156	NMTB40-C1.1/4-105	154	OK101-14000	278
N4004-0003-2.25	94	NK1.1/4-25	156	NMTB40-C3/4-70	154	OK101-67000	278
N4004-0004-3.00	94	NK1.1/4-3/16	156	NMTB40-NPU13-86	88	OK101-72000	278
N4005-0562-3.90	105	NK1.1/4-3/4	156	NMTB40-NPU8-76	88	OK101-73000	278
N4005-0875-6.16	105	NK1.1/4-3/8	156	NMTB50-C1.1/4-90	154	OK102-17000	278
N4006-0125-2.31	24	NK1.1/4-5/16	156	NMTB50-C2-105	154	OK102-18000	278
N4006-0187-2.31	24	NK1.1/4-5/8	156	NMTB50-C3/4-65	154	OK102-22000	278
N4006-0250-2.31	24	NK1.1/4-6	156	NMTB50-NPU13-86	88	OK102-23000	278
N4006-0312-2.31	24	NK1.1/4-7/16	156	NPU13-SPAN	89	OK102-24000	278
N4006-0375-2.31	24	NK1.1/4-7/8	156	NPU8-SPAN	89	OK109-13001	278
N4006-0437-2.31	24	NK1.1/4-8	156	NT05-006	106	OK109-14001	278
N4006-0500-2.31	24	NK1.1/4-9/16	156	NT05-006(S)	107	OK109-15001	278
N4006-0625-2.31	24	NK103-10000	276	NT05-008	106	OK126-40000	279
N4006-0750-2.31	24	NK103-11000	276	NT05-008(S)	107	OK126-41000	279
N4006-0875-2.94	24	NK103-12000	276	NT05-010	106	OK126-42000	279
N4006-1000-3.37	24	NK103-13000	276	NT05-012	106	OK126-43000	279
N4006-1250-3.69	24	NK103-15000	276	NT05-012(S)	107	OK126-50000	279
N4006-1500-3.95	24	NK103-16000	276	NT05-016	106	OK126-51000	279
N4007-0011-2.00	39	NK103-5K000	276	NT05-016(S)	107	OK126-52000	279
N4007-0016-1.77	39	NK103-6H000	276	NT05-020	106	OK126-53000	279
N4007-0025-2.00	39	NK103-6J000	276	NT05-020(S)	107	OK126-60000	279
N4007-0100-2.75	68	NK105-33000	276	NT05-024	106	OK126-61000	279
N4007-0180-3.00	68	NK105-36000	276	NT05-024(S)	107	OK126-64000	279
N4007-0200-2.50	68	NK105-37000	276	NT05-028	106	OK126-65000	279
N4007-0300-2.50	68	NK105-49000	276	NT05-028(S)	107	OKA00-19000	279
N4007-0750-2.50	59	NK1-1/2	156	NT05-032	106	OKA00-20000	279
N4007-1000-3.00	59	NK1-1/4	156	NT05-032(S)	107	OKA00-21001	279
N4007-1500-5.00	59	NK1-1/8	156	NT05-036	106	OKA00-24000	279
N4008-0013	126	NK1-10	156	NT05-036(S)	107	OKA00-28000	279
N40BH-0875-1.75	124	NK1-12	156	NT05-SET	106	OKA01-13000	279
N40BH-1500-1.75	124	NK1-14	156	NT10-020	106	OKA01-14000	279
N5001-0750-1.25	80	NK1-16	156	NT10-020(S)	107	PB-NX40	265
N5001-1000-1.88	80	NK1-18	156	NT10-024	106	PB-NX50	265
N5001-1250-1.88	80	NK1-20	156	NT10-024(S)	107	PB-OHN40	267
N5001-1500-1.88	80	NK1-3/16	156	NT10-028	106	PB-OHN50	267
N5001-2000-1.88	80	NK1-3/4	156	NT10-028(S)	107	PB-RAM40	263
N5002-1000-6.18	122	NK1-3/8	156	NT10-032	106	PB-RAM50	263
N5002-1250-6.28	122	NK1-5/16	156	NT10-032(S)	107	PB-RAN40	263
N5002-1500-6.60	122	NK1-5/8	156	NT10-036	106	PB-RAN50	263
N5003-0002-1.34	91	NK1-6	156	NT10-036(S)	107	PF-2	214
N5003-0003-1.30	91	NK1-7/16	156	NT10-040	106	PF-Stylus-2	214
N5003-0004-1.22	91	NK1-7/8	156	NT10-040(S)	107	PS-1	140
N5003-0006-1.34	91	NK1-8	156	NT10-044	106	PS-130E	140
N5003-0033-1.34	91	NK2-1	156	NT10-044(S)	107	PS-132	140
N5004-0002-1.88	94	NK2-1-1/2	156	NT10-048	106	PS-16	140
N5004-0003-2.38	94	NK2-1-1/4	156	NT10-048(S)	107	PS-17	140
N5004-0004-3.25	94	NK3/4-1/2	156	NT10-052	106	PS-19	140
N5004-0005-4.63	94	NK3/4-1/4	156	NT10-052(S)	107	PS-354	140
N5005-0562-4.50	105	NK3/4-1/8	156	NT10-056	106	PS-364	140
N5005-0875-7.00	105	NK3/4-10	156	NT10-056(S)	107	PS-366E-1	140
N5005-1375-7.73	105	NK3/4-12	156	NT10-SET	106	PS-381E	139
N5006-0250-2.75	25	NK3/4-14	156	NT15-052	106	PS-50	140
N5006-0375-2.75	25	NK3/4-16	156	NT15-052(S)	107	PS-70	140
N5006-0500-2.75	25	NK3/4-3/16	156	NT15-056	106	PS-801	140
N5006-0625-2.75	25	NK3/4-3/8	156	NT15-056(S)	107	PS-805	140
N5006-0750-2.88	25	NK3/4-5/16	156	NT15-060	106	PS-806-1	139
N5006-0875-2.88	25	NK3/4-5/8	156	NT15-060(S)	107	PS-809	140
N5006-1000-3.50	25	NK3/4-6	156	NT15-064	106	PS-810	140
N5006-1250-3.50	25	NK3/4-7	156	NT15-064(S)	107	PS-816-1	140
N5006-1500-4.00	25	NK3/4-7/16	156	NT15-072	106	PS-833	140
N5006-2000-4.69	25	NK3/4-8	156	NT15-072(S)	107	PS-874	140
N5007-0016-2.00	39	NK3/4-9/16	156	NT15-080	106	PS-B1	140
N5007-0025-2.00	39	NK32-1	156	NT15-080(S)	107	PS-B61	139
N5007-0180-3.50	68	NK32-1/2	156	NT15-088	106	PS-B641M	139
N5007-0750-3.00	59	NK32-1/4	156	NT15-088(S)	107	PS-C	140
N5007-1000-3.50	59	NK32-10	156	NT15-SET	106	PS-G41	140
N5007-1500-5.00	59	NK32-12	156	NTP05-SET	108	PS-G45	140
N5008-0013	126	NK32-14	156	NTP10-SET	108	PS-G5	140
N5016-0375-4.50	25	NK32-16	156	NTP15-SET	108	PS-G51	140
N5016-0500-4.50	25	NK32-20	156	NTP05-008L	108	PS-G510	140
N5016-0625-4.50	25	NK32-25	156	NTP05-008L(S)	108	PS-G52	140
N5016-0750-4.50	25	NK32-26	156	NTP05-008S	108	PS-G58	140
N5016-0875-4.50	25	NK32-3/16	156	NTP05-008S(S)	108	PS-M10	140
N5016-1000-5.50	25	NK32-3/4	156	NTPT10-016	108	PS-P14	139
N5016-1250-5.50	25	NK32-3/8	156	NTPT10-016(S)	108	PS-P16	140
N5016-1500-6.00	25	NK32-5/16	156	NTPT10-024	108	PS-P5-1	140
N50BH-0875-1.75	124	NK32-5/8	156	NTPT10-024(S)	108	R8007-0016-1.00	39
N50BH-1500-1.75	124	NK32-6	156	NTPT10-032	108	R8007-0020-2.00	39
N50F1-2000-3.00	80	NK32-7/16	156	NTPT10-032(S)	108	R8007-0025-2.50	39
N50F1-2500-3.00	80	NK32-7/8	156	NTPT15-032	108	R8007-1000-3.25	59
NK1.1/4-1	156	NK32-8	156	NTPT15-032(S)	108	RACK-100DA/SK10	71
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SK6-3	188	SKJ16-BLANK	192,203	SS-0012-ER08-080M	42	T00249	275

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T00250	275	T32206	274	TQW-150	222	VMK12-3/8	210
T00252	275	T32207	274	TQW-150	55	VMK12-3/8J	210
T03013	274	T32213	274	TQW-150	66	VMK12-4	210
T03014	274	T32214	274	TQW-C1(60)	222	VMK12-4J	210
T03018	275	T32216	274	TQW-C1.1/4(72)	222	VMK12-5	210
T05-006	112	T32217	274	TQW-C3/4(50)	222	VMK12-5/16	210
T05-006(S)	113	T32218	274	TQW-CAPT03(8)	222	VMK12-5/16J	210
T05-008	112	T32219	274	TQW-CAPT04(10)	222	VMK12-5J	210
T05-008(S)	113	T32220	274	TQW-CAPT05(12)	222	VMK12-6	210
T05-010	112	T32221	274	TQW-ER08	222	VMK12-6J	210
T05-010(S)	113	T32222	274	TQW-ER08	55	VMK12-7/16	210
T05-012	112	T32223	274	TQW-ER11(17)	222	VMK12-7/16J	210
T05-012(S)	113	T32224	274	TQW-ER11(17)	55	VMK12-8	210
T05-016	112	T32225	274	TQW-ER16(32)	222	VMK12-8J	210
T05-016(S)	113	T32226	274	TQW-ER16(32)	55	VMK8-1/4	210
T05-020	112	T32227	274	TQW-ER20(32)	222	VMK8-1/4J	210
T05-020(S)	113	T32228	274	TQW-ER20(32)	55	VMK8-1/8	210
T05-024	112	T32232	274	TQW-ER25(43)	222	VMK8-1/8J	210
T05-024(S)	113	T32233	274	TQW-ER25(43)	55	VMK8-2	210
T05-028	112	T32234	274	TQW-ER32(50)	222	VMK8-2J	210
T05-028(S)	113	T32235	274	TQW-ER32(50)	55	VMK8-3	210
T05-032	112	T32238	274	TQW-ER40(63)	222	VMK8-3/16	210
T05-032(S)	113	T32239	274	TQW-ER40(63)	55	VMK8-3/16J	210
T05-036	112	T32248	274	TQW-PS(13)	222	VMK8-3/8	210
T05-036(S)	113	T32254	275	TQW-PS(19)	222	VMK8-3/8J	210
T05-SET	112	T32255	275	TQW-PS(30)	222	VMK8-3J	210
T05-SPAN	118	T32264	274	TQW-PS(32)	222	VMK8-4	210
T10-020	112	T32267	274	TQW-SK06(18)	193,222	VMK8-4J	210
T10-020(S)	113	T32268	274	TQW-SK10(1)	193,222	VMK8-5	210
T10-024	112	T32269	274	TQW-SK16(43)	193,222	VMK8-5/16	210
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T10-028(S)	113	T32275	275	TQW-TG075(50)	66	VMK8-6	210
T10-032	112	T32276	275	TQW-TG100(63)	222	VMK8-6J	210
T10-032(S)	113	T32279	275	TQW-TG100(63)	66	VMK8-8	210
T10-036	112	T32280	275	TQW-TG150(82)	222	VMK8-8J	210
T10-036(S)	113	T32286	275	TQW-TG150(82)	66	W1005-0562-4.88(C)	103
T10-040	112	T32287	275	VC13	204	W1005-0562-6.41	103
T10-040(S)	113	T32288	275	VC6	204	W1005-0875-6.3(C)	103
T10-044	112	T32289	275	VCG13-15A	204	W1005-0875-7.83	103
T10-044(S)	113	T32290	275	VCG6-8A	204	W10R5-0562-3.74	104
T10-048	112	T32291	275	VCK13-1/2	202	W10R5-0562-3.77(C)	104
T10-048(S)	113	T32292	275	VCK13-1/4	202	W10R5-0875-4.4	104
T10-052	112	T32293	275	VCK13-1/8	202	W10R5-0875-4.4(C)	104
T10-052(S)	113	T32474	274	VCK13-10	202	W10S5-0562-3.81	103
T10-056	112	T32475	275	VCK13-11	202	W10S5-0875-4.76	103
T10-056(S)	113	T32476	275	VCK13-12	202	W1205-0562-4.88(C)	103
T10-064(S)	113	T32478	274	VCK13-3	202	W1205-0562-6.41	103
T10-064*	112	TCL-100GH	213	VCK13-3/16	202	W1205-0875-6.3(C)	103
T10100	274	TCL-100HD	213	VCK13-3/8	202	W1205-0875-7.83	103
T10101	274	TCL-32GH	213	VCK13-4	202	W12R5-0562-3.93(C)	104
T10102	274	TCL-32HD	213	VCK13-5	202	W12R5-0875-4.4(C)	104
T10119	275	TCL-40GH	213	VCK13-5/16	202	W12R5-1375-5.55(C)	104
T10139	275	TCL-40HD	213	VCK13-6	202	W1505-0562-6.82	103
T10142	274	TCL-50GH	213	VCK13-7	202	W1505-0875-8.24	103
T10143	274	TCL-50HD	213	VCK13-7/16	202	W1505-1375-10.5	103
T10-SET	112	TCL-63GH	213	VCK13-8	202	W1505-1375-9.26(C)	103
T10-SPAN	118	TCL-63HD	213	VCK13-9	202	W15R5-1375-5.96	104
T12068	274	TCL-BD	213	VCK6-1/4	202	W15R5-1375-5.96(C)	104
T12069	274	TP05-SET	114	VCK6-1/8	202	W15S5-1375-6.55	103
T12074	275	TP10-SET	114	VCK6-2	202	W25M5-0562-119(C)	103
T12075	275	TP15-SET	114	VCK6-3	202	W25M5-0562-96	103
T13130	274	TPT05-008L	114	VCK6-3/16	202	W25M5-0875-120	103
T13135	275	TPT05-008L(S)	114	VCK6-4	202	W25M5-0875-155(C)	103
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T15-072	112	TPT15-032	114	VMK12-1/4	210	W50	216
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