

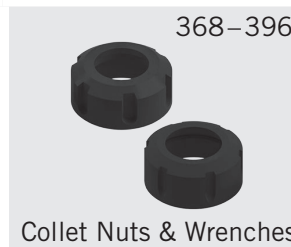
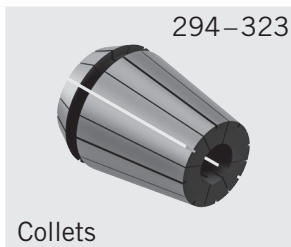
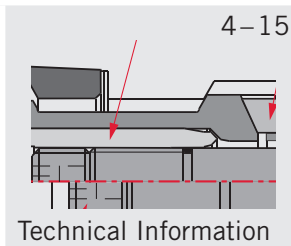


 | CLASS

Performance
measured by you

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- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <0.0002 (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



Contact Command Tooling Systems' Customer Service department with any questions about our product, for technical information or custom tool requests.

Phone: 763.576.6910 • 1.800.328.2197

Fax: 763.576.6911 • 1.800.555.7694

email: support@commandtool.com

web: WWW.COMMANDTOOL.COM

► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

Toolholder Identification System

Tapered & Straight Shank Toolholder Part Number

Example: **C6E5-1000**

C6E5-1000																	
Identifies	Description																
Shank Style	C = V-Flange B = BT-Flange																
C6E5-1000																	
Identifies	Description																
Taper	2 = 30 taper 5 = 45 taper 3 = 35 taper 6 = 50 taper 4 = 40 taper 7 = 60 taper																
C6E5-1000																	
Identifies	Description																
Tool Style	<table border="0"> <tr> <td>C = Collet</td> <td>L = ThermoLock® "HP"</td> </tr> <tr> <td>E = End Mill</td> <td>M = Morse Taper</td> </tr> <tr> <td>F = Stub Arbor</td> <td>P = Rigid Tap Holder</td> </tr> <tr> <td>H = Boring Head</td> <td>S = Shell Mill</td> </tr> <tr> <td>I = Milling Chuck</td> <td>T = Tension & Compression Tap Holder</td> </tr> <tr> <td>J = Jacobs Taper & Integral Shank Keyless Drill Chuck</td> <td>W = Test Bar</td> </tr> <tr> <td>K = R&R (Reach & Rigidity)</td> <td>X = Blank Bar</td> </tr> <tr> <td></td> <td>Y = ThermoLock® "Standard"</td> </tr> </table>	C = Collet	L = ThermoLock® "HP"	E = End Mill	M = Morse Taper	F = Stub Arbor	P = Rigid Tap Holder	H = Boring Head	S = Shell Mill	I = Milling Chuck	T = Tension & Compression Tap Holder	J = Jacobs Taper & Integral Shank Keyless Drill Chuck	W = Test Bar	K = R&R (Reach & Rigidity)	X = Blank Bar		Y = ThermoLock® "Standard"
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C6E5-1000																	
Identifies	Description																
Length	1 = Shorty 5 = Extended 2 = Extra Short 6 = Extra Extended 3 = Stub 7 = Extended 10" Gage Length 4 = Standard 8 = Extended 12" Gage Length																
C6E5-1000																	
Identifies	Description																
Tool Size	US (Decimal inches) Metric (mm) Collet No.																

HSK Toolholder Part Number

Example: **H6C4A0020**

H6C4A0020	
Identifies	Description
Shank Style	HSK
H6C4A0020	
Identifies	Description
Flange Diameter	0 = 25 mm 4 = 63 mm 1 = 32 mm 5 = 80 mm 2 = 40 mm 6 = 100 mm 3 = 50 mm 7 = 125 mm
H6C4A0020	
Identifies	Description
Tool Style	See Tapered & Straight Shank Table (at left) for Tool Style list.
H6C4A0020	
Identifies	Description
Length	2 = Extra Short 3 = Stub 4 = Standard 5 = Extended
H6C4A0020	
Identifies	Description
Taper Form	A D B E C F
H6C4A0020	
Identifies	Description
Tool Size	US (Decimal inches) Metric (mm) Collet No.

+ **NOTE:** with HSK, it is the flange diameter that determines toolholder size, **NOT** the taper size as with BT & V-flange holders.

Optional Black Oxide

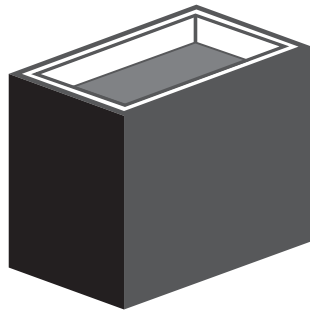
Our standard toolholder part numbers represent two-tone finish toolholders. Black Oxide Complete is available upon request.

The Black Oxide Complete is not available for Command HSK, ThermoLock®, Milling Chucks, Integral Shank Keyless Chucks or Test Bars.

For Delivery details, contact Command Customer Service.

Collet Care

Command Recommends the use of all three techniques for proper collet cleaning:



+ Bench-top Ultrasonic Cleaners dislodge fine chips and debris deposited from coolant and manufacturing.



+ Bottle brush helps to dislodge foreign material from interior collet slots.

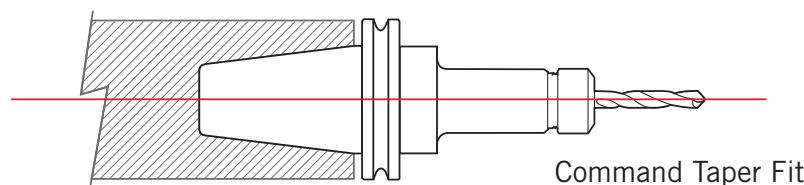
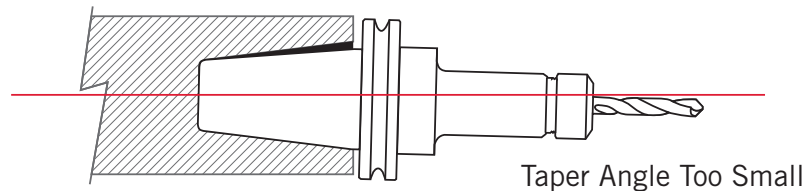
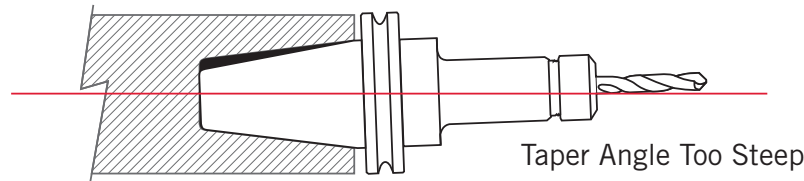


+ Toothbrush or equivalent helps to dislodge foreign material from exterior collet slots.

Toolholder Balance

► Benefits of Command Taper Fit

- + Command Tooling Systems manufactures steep taper holders with superior levels of shank taper accuracy.
- + Our holders exceed ANSI standards by a minimum of 35%, meeting or exceeding the current AT3 specification standards.
- + When a machine's spindle bore is in good condition, and of equal or better accuracy, using a Command toolholder can virtually eliminate play and toolholder wobble. Cutting accuracy will substantially improve, resulting in an increased quality of the manufactured parts and a reduced level of rejected parts.
- + Command grinds toolholder shanks to an accurate and uniform taper with ultra-precise computerized equipment.



Toolholder Balance

- ▶ Maintain toolholder accuracy and performance by testing for toolholder shank wear on a regular basis. Command Tooling Systems offers a variety of products to detect irregularities in toolholder performance.



Taper Check™ found on page 417.

Command toolholders keep their accuracy, last longer, and help machine spindles last longer too. Accuracy from the shank-to-spindle union is carried through to the cutting tip of the tool. Command toolholder concentricity positions the tool precisely on a centerline from the spindle, allowing for smooth, uniform cuts giving you better piece-part quality and minimal scrap. Command's toolholder flanges and v-grooves are fully ground for smooth, sure handling in tool changers and reduced vibration at high RPM. In addition to protecting machines from costly toolholder hang ups, the cutting performance is improved.

Versatile Command toolholders mill, drill, ream, and bore. No need to stock different toolholders for each operation when one Command toolholder does it all. A complete inventory of tapers and lengths is available for immediate shipment to minimize waiting downtime. Straight shank extensions extend reach without requiring costly custom toolholders. Of course, special tapers or lengths are available upon request.

Understanding Balance



Command toolholders can be balanced for the speed you need. The perfect balance configuration can be rendered useless by a single variable. The benefits of balance are becoming so critical in high speed machining, we want our customers to understand and select the most appropriate choice for their application.

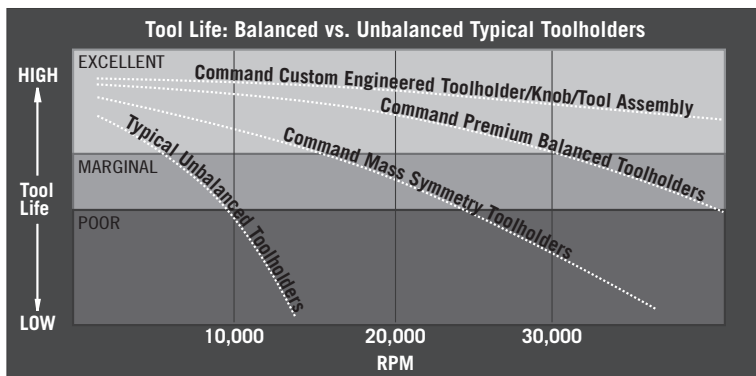
Slight imbalance at low spindle speeds will not damage your machine tool spindle. However, it is important to remember that as the definition of “low spindle speed” increases, the definition of slight imbalance must decrease accordingly! Just take a look at how force increases with imbalance and spindle RPM (see figure at left).

Generally as imbalance increases, the amount of force generated increases. When dealing with a toolholder, this means increased tool deflection and less machining accuracy. If forces are high enough, spindle damage can result.

Command Tooling Systems offers toolholders with the balance you need—but that is only the first step! Overall balance is impacted by many variables. To obtain optimal balance performance, other limiting variables must also be controlled. These include:

1. Spindle fit
2. Assembly tolerance of components (i.e., collet nut, retention knob)
3. Tooling repeatability
4. Eliminating bad or worn out tooling

All the pieces must be in place for optimal high speed machining applications. A balanced system is only as strong as the weakest link. As shown in figure above, there are no hard and fast steps in centrifugal force or balance grades.



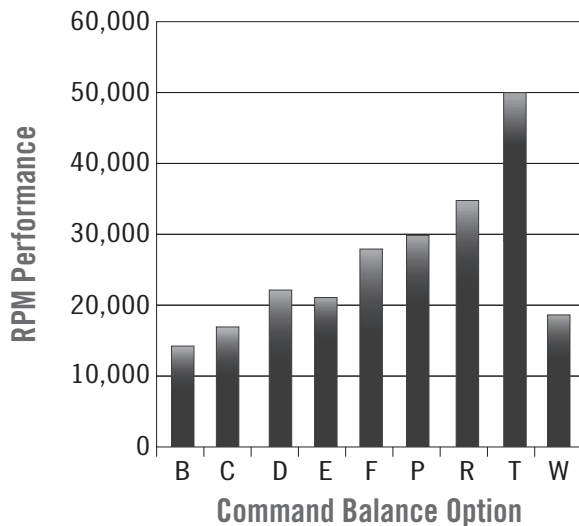
- + Command uses the latest balancing equipment in-house to provide you with fast service.
- + Command is one of the toolholder manufacturers recommended by leading machine tool builders for demanding high-speed applications.
- + Command has been balancing toolholders since 1985. We offer you more experience in toolholder balance than anyone. We understand balance and the commitment it takes to provide our customers with properly balanced toolholders.

Balance Options

Command Balance Options

Option	Description	Explanation
B	Mass Symmetry (Command's Standard Balance)	Unequal drive slot depths, set screws, tapped holes, and other design asymmetries are counterbalanced
C	G2.5 @ 15,000 RPM	Counterbalances toolholder asymmetry
D	G2.5 @ 15,000 RPM	Counterbalances toolholder and retention knob asymmetry
E	G2.5 @ 20,000 RPM	Counterbalances toolholder asymmetry
F	G2.5 @ 20,000 RPM	Counterbalances toolholder and retention knob asymmetry
P	Premium Balance	Includes certificate of balance Counterbalances toolholder body, retention knob, collet, and pin - completely assembled Includes Fine Balance collet nut and choice of collet and pin Parts are balanced individually and assembly is certified to less than 3 g-mm Available for: Micro Precision®, XT Precision®, and ThermoLock® toolholders only
R	Premium Adjustable Balance	Same as Premium Balance except includes Fine Tune® collet nut
T	Custom Engineered	Designed to meet individual requirements - consult Command Customer Service
W	Assemblies	Balancing of Urma assemblies, shell mill holders, and other built-up assemblies

Command Balance Performance



NOTE: Guidelines for acceptable balance for machine tools must come from the machinery builder. Command Tooling Systems offers state-of-the-art balancing options with the commitment to serving our customers requirements.

For example:

C6E5-1000-C (C indicates G2.5 @ 15,000 RPM balance option)
H6C4A0020-P (P indicates the Premium balance option)

To Order Command Balanced Toolholders

Just add the balance option code shown above after the standard part number. Questions? Contact customer service.

ThermoLock® Shrink-Fit

ThermoLock® Shrink-Fit toolholders with Shrinker® technology are designed for maximum tool gripping strength and machining accuracy. ThermoLock® toolholders are engineered to produce the highest degree of balance available with 360° concentric clamping with out set screws, collets, or collet nuts.

- + The Command ThermoLock® toolholder operates on the principle of thermal induced expansion and contraction.
- + ThermoLock® toolholders are heated to load and unload the cutting tool.
- + The holder nose I.D. is slightly undersized relative to the cutting tool to be used. The holder is placed in a heating unit where the holder nose I.D. size expands to accept the cutting tool. When cooled, the holder nose I.D. tries to shrink back to its original undersized dimension.
- + The result is incredible gripping power over the full length of the holder/cutting tool interface. To remove the tool, simply reverse the process.
- + For best results, use round shank (no flats) carbide tooling.
- + **Note: Return Policy**
A holder cannot be returned if it's been modified or heated.

ThermoLock® Shrink-Fit Benefits

- + Improved toolholder rigidity.
- + Produces improved surface finish.
- + More accurate hole size and roundness.
- + Extended tool life – less scrap.
- + Minimized loss of accuracy across the holder/cutting tool interface.
- + Improved performance at both extremes of the machining continuum – high speeds and tough cuts.
- + Once a holder is balanced, the only variable is the cutting tool.
- + AT3 or better Shank Taper – accurate, rigid toolholder-to-spindle mount.
- + Fully ground flange and V-groove – easy on tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship – get your tools fast!

ThermoLock® Shrink-Fit Features

- + Outstanding balance performance!
- + ThermoLock® nose diameter design optimized for performance.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + No moving parts, set screws, collets, or collet nuts.
- + Enclosed toolholder design resists dirt, chips, and coolant.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + Designed for single ended cutters only.

Shrinker® is a registered trademark of Tooling Innovations, Dana Point, CA



ThermoLock® Shrink-Fit

Not sure if ThermoLock® will work for you? Tell us about your applications and we can help you choose the best toolholder. Purchase a ThermoLock® holder, then send us a tool to be installed. We'll set the holder for you to use - see the performance of ThermoLock® toolholders before you invest in tool change equipment!

ThermoLock® toolholders can provide significant benefits:

Increased Tool Life

ThermoLock® typically generates dramatic improvements in tool life. For instance, an end mill may last two to seven times longer. Consider this example: Assume an end mill costs \$50; if a shop uses 100 end mills a month and could double end mill life, the savings in just one month would be 50 x \$50, for a total of \$2,500.

Increased Spindle Up-Time

The machine is spending more time cutting when less time is spent on setup and tool changes. ThermoLock® is ideal for 24 hours x 7 day/week machining operations.

Less Downtime for Setup

Evaluate how many minutes are spent per spindle on setup. Setup time is significantly reduced with increased tool life and quick tool changes.

Faster Cycle Times & Improved Surface Finish

Fully utilize machine capabilities with maximum gripping power and the highest degree of toolholder balance possible.

Reduced Scrap Rate

With superior toolholding accuracy and longer tool life.

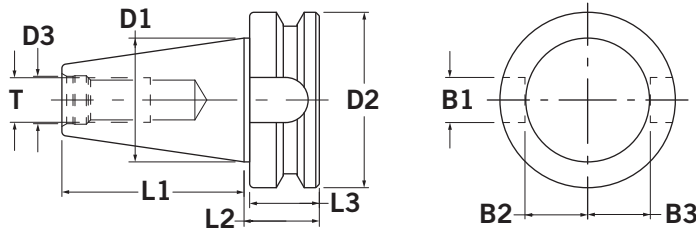
ThermoLock® Toolholder Notes:

- + Recommended for use with single end, round shank carbide tools (no flats), with h6 tolerance (see chart).
- + Works best with carbide cutting tools. For high speed steel cutting tool applications, contact Customer Service.
- + ThermoLock® toolholders available only with shiny shank, no black oxide.
- + Once ThermoLock® toolholders are heated, modified with coolant options or balanced, they cannot be returned. See 452 for complete terms of sale.

Shank Size Inch [mm]	Tolerance Inch [mm]
0.2362 - 0.3937 [6-10]	-0.00035 [-0.009]
0.3937 - 0.7087 [10-18]	-0.00043 [-0.011]
0.7087 - 1.1811 [18-30]	-0.00051 [-0.013]
1.1811 - 1.9685 [30-50]	-0.00063 [-0.016]

See page 15 for all Command Toolholder coolant options

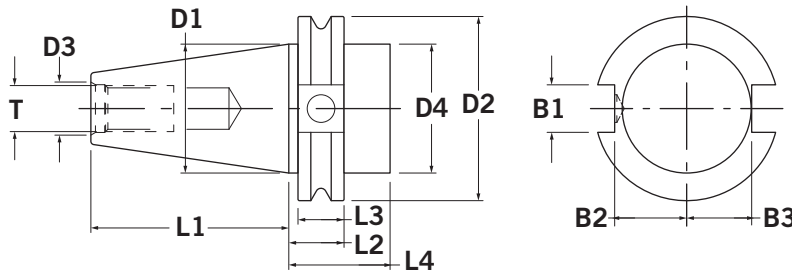
JIS B 6339 (BT-Flange Style)



h6 Tool Shank Tolerance	
Shank Size Inch (mm)	Tolerance Inch(mm)
.2362-.3937 (6-10)	-.00035 (-.009)
.3937-.7087 (10-18)	-.00043 (-.011)
.7087-1.1811 (18-30)	.00051 (-.013)
1.1811-1.9685 (30-50)	-.00063 (-.016)

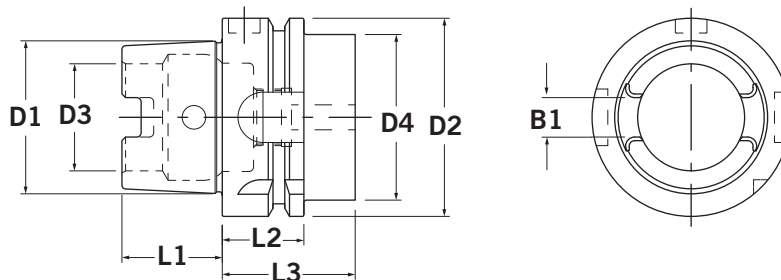
Taper	D1	D2	D3	T	L1	L2	L3	B1	B2	B3
30	31.75	46.00	12.50	M12 X 1.75	48.40	22.00	20.00	16.10	16.30	16.30
35	38.10	53.00	12.50	M12 X 1.75	56.40	24.00	22.00	16.10	19.60	19.60
40	44.45	63.00	17.00	M16 X 2	65.40	27.00	25.00	16.10	22.50	22.50
45	57.15	85.00	21.00	M20 X 2.5	82.80	33.00	30.00	19.30	29.10	29.10
50	69.85	100.00	25.00	M24 X 3	101.80	38.00	35.00	25.70	35.40	35.40

ANSI B5.50 (CAT, V Flange Style)



Taper	D1	D2	D3	D4	T	L1	L2	L3	L4	B1	B2	B3
30	1.250	1.812	0.516	1.250	0.500-13	1.875	0.750	0.625	1.380 Min.	0.645	0.735	0.640
40	1.750	2.500	0.641	1.750	0.625-11	2.687	0.750	0.625	1.380 Min.	0.645	0.985	0.890
45	2.250	3.250	0.766	2.250	0.750-10	3.250	0.750	0.625	1.380 Min.	0.770	1.235	1.140
50	2.750	3.875	1.031	2.750	1.000-8	4.000	0.750	0.625	1.380 Min.	1.020	1.485	1.390
60	4.250	5.500	1.281	4.250	1.250-7	6.375	0.750	0.625	1.380 Min.	1.020	2.235	2.140

ISO 12164-1 HSK Form A



Taper	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)
32	24	32	17	26 Max.	16	20	35 Min.	7.05
40	30	40	21	34 Max.	20	20	35 Min.	8.05
63	48	63	34	53 Max.	32	26	42 Min.	12.54
80	60	80	42	68 Max.	40	26	42 Min.	16.04
100	75	100	53	88 Max.	50	29	45 Min.	20.02
125	95	125	67	111 Max.	63	29	45 Min.	25.02

HSK Forms

HSK

The HSK spindle interface features a hollow taper, which is the connection's mating surface (see drawing below). When the clamping mechanism is actuated, there is intimate contact between the back of the toolholder flange and the face of the spindle. Initially, there is a nominal gap between the spindle face and the flange of the toolholder. The drawbar pulls back the clamping cone, which wedges the gripper fingers into the clamping position. As the fingers lock, they pull the toolholder into the spindle by cam action to effect an interference fit in the spindle and force the flange against the spindle face. This simultaneous fit concept results in excellent radial and axial positioning.

Not only does the drawbar system provide a positive lock between the toolholder and spindle, it does so without preloading the entire spindle as conventional drawbars do. Centrifugal force generated by spindle rotation, usually an enemy of spindle connections, actually increases the gripping strength, increasing the system's rigidity.

At elevated spindle speeds, when spindle growth becomes a factor, the toolholder walls remain in contact with the spindle. This assures continued spindle run-out accuracy while the face contact retains the z-axis accuracy.

Courtesy of Ott-Jakob GmbH and Co.

Standard HSK Forms

Forms A and B

We manufacture to the latest ISO and DIN standard. Form A for general service and Form B, with greater flange support, for heavier work. The increase in flange dimension was gained by making the taper smaller. Thus, Form A and Form B toolholders with the same flange diameter are not interchangeable because their tapers differ.

Forms C and D

These standards are similar to A and B, but are for manual tool change applications.

Forms E and F

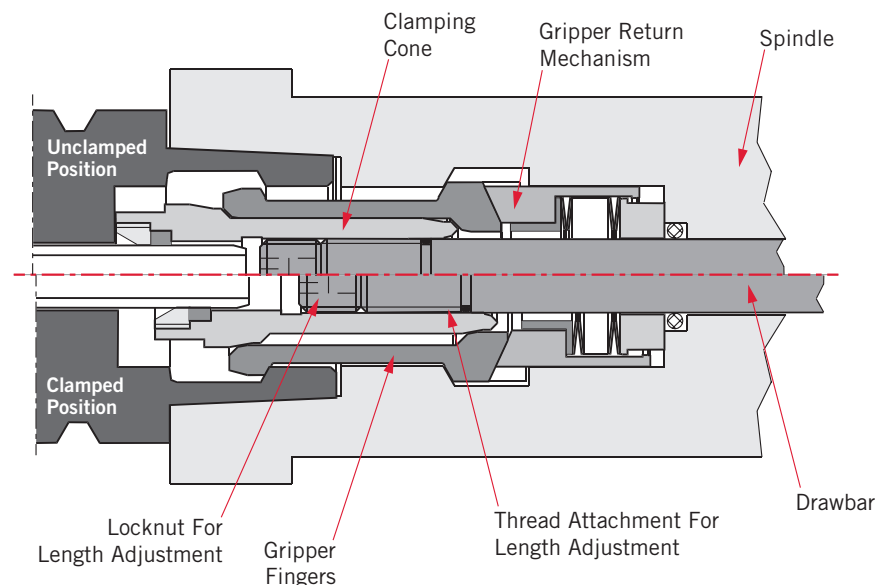
These standards balance toolholders for high speeds by omitting drive key, identification, and indexing features which detract from symmetry of toolholder mass.

Command HSK Toolholders

- + Premium material.
- + Command Tooling Systems is on the leading edge of changes in the industrial specifications for HSK.

Unique Features

- + Harnesses centrifugal force for higher machining speeds. The faster it spins, the tighter it seats.
- + High static and dynamic toolholder rigidity holds radial and axial position well at all speeds for improved accuracy, repeatability, and material removal.
- + Short, light taper for reduced tool changer travel and faster tool changes.
- + Positive locking and centrifugal clamping for enhanced safety.



Custom Toolholders

- ▶ Machining requirements often go beyond standard toolholders. Command Tooling Systems can engineer and manufacture special toolholders to meet specific job needs. Common modifications may include:
 - + Unusual Part Shapes
 - + Extra Reach
 - + High RPM Machining
 - + Difficult-to-Machine Materials
 - + Tight Tolerances

Command Tooling Systems can engineer and manufacture special toolholders. Contact Command customer service for more information on sending sketches, prints or other requirements for your custom toolholder.



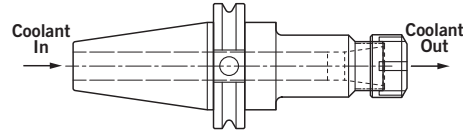
Keep in mind:

- + Pricing for custom made toolholders is quantity sensitive.
- + If we require cutting tools for balancing, they must arrive at Command within two weeks after receipt of order.
- + If special tooling is required to finish your product, it must be in house before we can start manufacturing.
- + If a print is sent for approval, it must be returned to us within two working days to assure prompt order processing of custom toolholders.
- + A cancellation charge will apply to canceled orders for custom manufactured product. This charge will be 25% of order amount or cost of time and materials, whichever is greater.
- + When reordering a part, please advise Command of any design changes.

Coolant Options

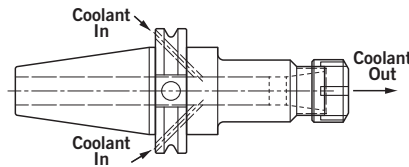
Through-Spindle Coolant

- + Standard for all Command toolholder bodies.
- + Retention knobs available coolant-through, see 424–431. Part number with -C designates coolant hole, -H designates O-ring included.
- + Stop screws available with coolant passage and urethane seal (Shown on pages by respective toolholders).



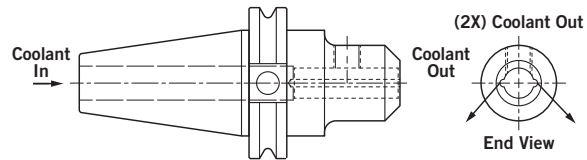
Through-Flange Coolant

- + May also be referred to as DIN 69871 Form B Coolant.
- + Modification available for most Command toolholders.



Surround Coolant

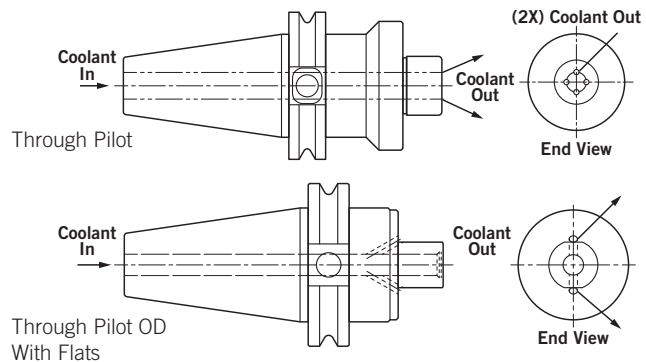
- + Modification available for End Mill holders and ThermoLock®.
- + Specify 2-Port or 4-Port.



Shell Mill Coolant

- + Modification available in two variations.
- + Specify Through Pilot OD with Flats, or Through Pilot.

Choose The Correct Coolant Accessories From Command.



CT30 Toolholders

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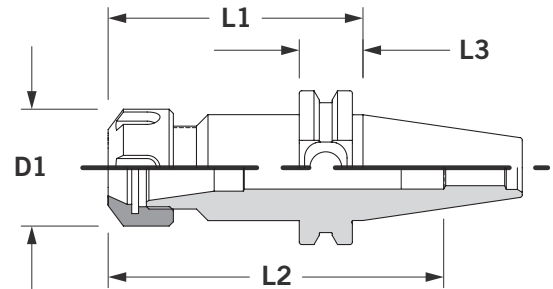
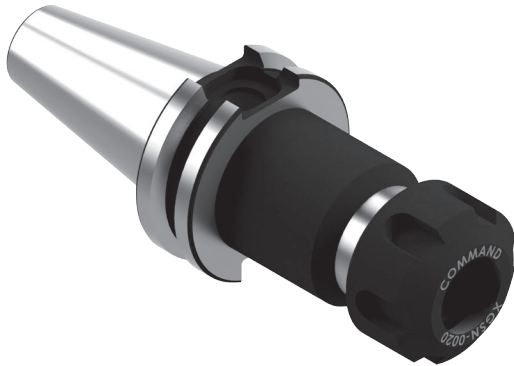
ER Micro Precision® CT30	18-19
TG100 Complex® CT30	20-21

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ER Micro Precision® CT30

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™				TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	294	234	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.

Measurements are in inches unless noted (mm).

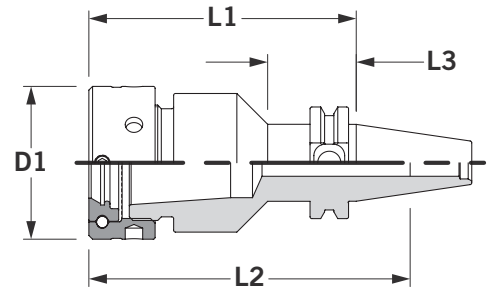
ER Micro Precision® CT30

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C2C4-0016	ER16	1.26	3.00	3.88	1.38	XCCW-D016	XCCS-0720
	C2C4-0020	ER20	1.38	3.00	3.90	-	XCCW-D020	XCCS-1415
	C2C4-0032	ER32	1.97	3.00	3.58	1.44	XCCW-D032	XCCS-2215



TG100 Comflex® CT30

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of stop screw part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® CT30

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C2C4-1000	TG100	2.48	4.34	5.22	1.44	XCCW-1000	XCCS-1816



CT40 Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.

<p>24–25</p>  <p>ER Micro Precision®</p>	<p>26–29</p>  <p>Standard ThermoLock®</p>	<p>30–33</p>  <p>HP ThermoLock®</p>	<p>34–35</p>  <p>Blank Bars</p>
<p>36–37</p>  <p>Boring Head</p>	<p>38–41</p>  <p>End Mill</p>	<p>42–43</p>  <p>Integral Shank</p>	<p>44–45</p>  <p>Jacobs Taper</p>
<p>46–47</p>  <p>Morse Taper</p>	<p>48–49</p>  <p>Rigid Tap</p>	<p>50–51</p>  <p>Tension & Compression</p>	<p>52–53</p>  <p>Semi-Flush Slitting Saw</p>
<p>54–55</p>  <p>Shell Mill</p>	<p>56–57</p>  <p>Stub Arbor</p>	<p>58–59</p>  <p>TG100 Complex®</p>	<p>60–61</p>  <p>TG150 Complex®</p>
<p>296–399</p>  <p>Accessories</p>			

► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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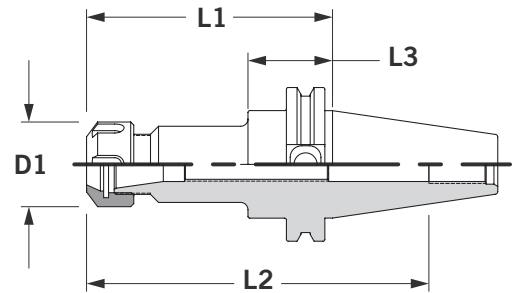
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® CT40

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.



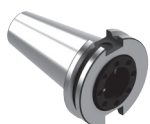
BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	296	354	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + ER32 shorty collet chucks use ER32 collets made to precise specifications for tool shank sizes 0.079-0.787" (2.0mm-20.0mm).
- + ER32 shorty collet chucks have the shortest gage length with recessed collet nut design. No stop screws, no safe area.
- + ER32 shorty collet chucks do not meet the safe zone dimensions of ANSI B5.50 1994 and may not work on all tool change mechanisms.
- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® CT40

Shorty	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C1-0032	ER32	1.97	0.75	2.32	-	XCCW-P032INT	-



Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C3-0011	ER11	0.63	2.00	3.57	-	XCCW-D011	-
	C4C3-0016	ER16	1.26	2.00	3.57	-	XCCW-D016	XCCS-0720
	C4C3-0020	ER20	1.38	2.55	4.12	1.38	XCCW-D020	XCCS-1415
	C4C3-0025	ER25	1.64	2.50	4.07	1.08	XCCW-D025	XCCS-1815
	C4C3-0032	ER32	1.97	2.70	4.25	1.38	XCCW-D032	XCCS-2215
	C4C3-0040	ER40	2.48	3.00	4.57	1.44	XCCW-0040	XCCS-1816



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C4-0011	ER11	0.63	3.00	4.57	1.38	XCCW-D011	-
	C4C4-0016	ER16	1.26	2.88	4.45	1.38	XCCW-D016	XCCS-0720
	C4C4-0020	ER20	1.38	4.00	5.57	1.38	XCCW-D020	XCCS-1415
	C4C4-0025	ER25	1.64	4.00	5.57	1.38	XCCW-D025	XCCS-1815
	C4C4-0032	ER32	1.97	4.00	5.50	1.44	XCCW-D032	XCCS-2215
	C4C4-0040	ER40	2.48	4.00	5.57	1.44	XCCW-0040	XCCS-1816



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C5-0016	ER16	1.26	4.88	6.45	1.38	XCCW-D016	XCCS-0720
	C4C5-0020	ER20	1.38	6.00	7.62	1.38	XCCW-D020	XCCS-1415
	C4C5-0025	ER25	1.64	6.00	7.57	1.38	XCCW-D025	XCCS-1815
	C4C5-0032	ER32	1.97	6.00	7.57	1.38	XCCW-D032	XCCS-2215
	C4C5-0040	ER40	2.48	6.00	7.57	1.44	XCCW-0040	XCCS-1816

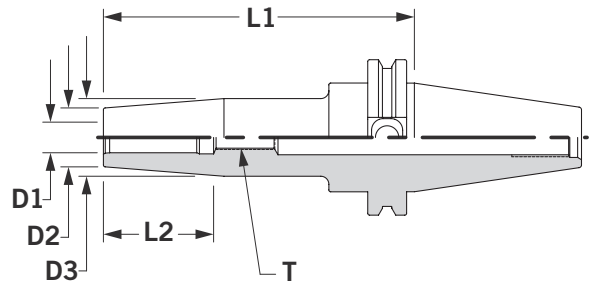


Oversized	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4K5-0020	ER20	1.38	6.00	7.57	1.38	XCCW-D020	XCCS-1415



Standard ThermoLock® CT40

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.






BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.




Measurements are in inches unless noted (mm).

Standard ThermoLock® CT40 Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
		C4Y3-0312	0.312	0.79	1.00	3.38	1.38	M6 X 1
		C4Y3-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1
		C4Y3-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1
		C4Y3-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1
		C4Y3-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1
		C4Y3-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1
		C4Y3-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1
		C4Y3-1000	1.000	1.73	2.09	3.63	2.17	M16 X 1
		C4Y3-1250	1.250	1.73	2.09	3.63	2.17	M16 X 1
	Standard		Part Number	D1	D2	D3	L1	L2
		C4Y4-0312	0.312	0.79	1.00	5.00	1.38	M6 X 1
		C4Y4-0375	0.375	0.79	1.00	5.00	1.57	M8 X 1
		C4Y4-0437	0.437	0.94	1.25	5.00	1.57	M8 X 1
		C4Y4-0500	0.500	0.94	1.25	5.00	1.77	M10 X 1
		C4Y4-0562	0.562	1.06	1.38	5.00	1.77	M10 X 1
		C4Y4-0625	0.625	1.06	1.38	5.00	1.77	M12 X 1
		C4Y4-0750	0.750	1.30	1.63	5.00	2.17	M16 X 1
		C4Y4-1000	1.000	1.73	2.09	5.00	2.17	M16 X 1
		C4Y4-1250	1.250	1.73	2.09	5.00	2.17	M16 X 1
	Extended		Part Number	D1	D2	D3	L1	L2
		C4Y5-0312	0.312	0.79	1.00	7.00	1.38	M6 X 1
		C4Y5-0375	0.375	0.79	1.00	7.00	1.57	M8 X 1
		C4Y5-0437	0.437	0.94	1.25	7.00	1.57	M8 X 1
		C4Y5-0500	0.500	0.94	1.25	7.00	1.77	M10 X 1
		C4Y5-0562	0.562	1.06	1.38	7.00	1.77	M10 X 1
		C4Y5-0625	0.625	1.06	1.38	7.00	1.77	M12 X 1
		C4Y5-0750	0.750	1.30	1.63	7.00	2.17	M16 X 1
		C4Y5-1000	1.000	1.73	2.09	7.00	2.17	M16 X 1
		C4Y5-1250	1.250	1.73	2.09	7.00	2.17	M16 X 1

Standard ThermoLock® CT40 Metric

CT40 Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	C4Y3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	C4Y3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	C4Y3-8012	12mm	24mm	32mm	80mm	45mm	M8 X 1	
	C4Y3-8014	14mm	24mm	32mm	80mm	45mm	M10 X 1	
	C4Y3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1	
	C4Y3-8018	18mm	33mm	42mm	80mm	55mm	M16 X 1	
	C4Y3-8020	20mm	33mm	42mm	80mm	55mm	M16 X 1	
	C4Y3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	C4Y3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	C4Y4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	C4Y4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	C4Y4-8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	C4Y4-8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	C4Y4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	C4Y4-8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	C4Y4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	C4Y4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1	
	C4Y4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	C4Y5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	C4Y5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	C4Y5-8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	C4Y5-8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	C4Y5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	C4Y5-8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	C4Y5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	C4Y5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	C4Y5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
TOOLING SYSTEMS

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CLASS CLASS CLASS CLASS

Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Flyers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

View Products

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Flyers Video Catalog

View Product Types

Swiss Live Tooling for Star and Citizen

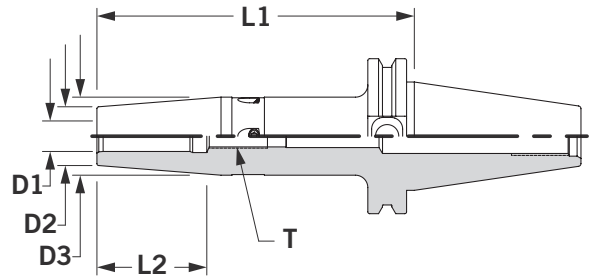
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

View Products

HP ThermoLock® CT40

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).


HP ThermoLock® CT40 Inch


Stub	Part Number	D1	D2	D3	L1	L3	T
	C4L3-0125	0.125	0.39	-	3.15	-	-
	C4L3-0187	0.187	0.39	-	3.15	-	-
	C4L3-0250	0.250	0.83	1.06	3.15	1.38	M5 X 1
	C4L3-0312	0.312	0.83	1.06	3.15	1.38	M6 X 1
	C4L3-0375	0.375	0.94	1.26	3.15	1.57	M8 X 1
	C4L3-0437	0.437	0.94	1.26	3.15	1.57	M8 X 1
	C4L3-0500	0.500	0.94	1.26	3.15	1.77	M10 X 1
	C4L3-0625	0.625	1.06	1.34	3.15	1.77	M12 X 1
	C4L3-0750	0.750	1.30	1.65	3.15	2.17	M16 X 1
	C4L3-0875	0.875	1.30	1.65	3.15	2.17	M16 X 1
	C4L3-1000	1.000	1.73	2.09	3.93	2.17	M16 X 1
C4L3-1250	1.250	1.73	2.09	3.93	2.17	M16 X 1	
Standard	Part Number	D1	D2	D3	L1	L2	T
	C4L4-0250	0.250	0.83	1.06	5.12	1.38	M5 X 1
	C4L4-0312	0.312	0.83	1.06	5.12	1.38	M6 X 1
	C4L4-0375	0.375	0.94	1.26	5.12	1.57	M8 X 1
	C4L4-0437	0.437	0.94	1.26	5.12	1.57	M8 X 1
	C4L4-0500	0.500	0.94	1.26	5.12	1.77	M10 X 1
	C4L4-0625	0.625	1.06	1.34	5.12	1.77	M12 X 1
	C4L4-0750	0.750	1.30	1.65	5.12	2.17	M16 X 1
	C4L4-0875	0.875	1.30	1.65	5.12	2.17	M16 X 1
	C4L4-1000	1.000	1.73	2.09	5.12	2.17	M16 X 1
	C4L4-1250	1.250	1.73	2.09	5.12	2.17	M16 X 1
	Extended	Part Number	D1	D2	D3	L1	L2
	C4L5-0250	0.250	0.83	1.06	6.30	1.38	M5 X 1
	C4L5-0312	0.312	0.83	1.06	6.30	1.38	M6 X 1
	C4L5-0375	0.375	0.94	1.26	6.30	1.57	M8 X 1
	C4L5-0437	0.437	0.94	1.26	6.30	1.57	M8 X 1
	C4L5-0500	0.500	0.94	1.26	6.30	1.77	M10 X 1
	C4L5-0625	0.625	1.06	1.34	6.30	1.77	M12 X 1
	C4L5-0750	0.750	1.30	1.65	6.30	2.17	M16 X 1
	C4L5-0875	0.875	1.30	1.65	6.30	2.17	M16 X 1
	C4L5-1000	1.000	1.73	2.09	6.30	2.17	M16 X 1
	C4L5-1250	1.250	1.73	2.09	6.30	2.17	M16 X 1
	Extra Extended	Part Number	D1	D2	D3	L1	L2
	C4L6-0250	0.250	0.83	1.06	7.48	1.38	M5 X 1
	C4L6-0312	0.312	0.83	1.06	7.48	1.38	M6 X 1
	C4L6-0375	0.375	0.94	1.26	7.48	1.57	M8 X 1
	C4L6-0437	0.437	0.94	1.26	7.48	1.57	M8 X 1
	C4L6-0500	0.500	0.94	1.26	7.48	1.77	M10 X 1
	C4L6-0625	0.625	1.06	1.34	7.48	1.77	M12 X 1
	C4L6-0750	0.750	1.30	1.65	7.48	2.17	M16 X 1
	C4L6-0875	0.875	1.30	1.65	7.48	2.17	M16 X 1
	C4L6-1000	1.000	1.73	2.09	7.48	2.17	M16 X 1
	C4L6-1250	1.250	1.73	2.09	7.48	2.17	M16 X 1


CT40 Collet Chucks // HP ThermoLock®

HP ThermoLock® CT40 Metric

CT40 Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L3	T
		C4L3-8003	3mm	10mm	-	80mm	-	-
		C4L3-8004	4mm	10mm	-	80mm	-	-
		C4L3-8005	5mm	10mm	-	80mm	-	-
		C4L3-8006	6mm	21mm	27mm	80mm	35mm	M5 X 1
		C4L3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1
		C4L3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1
		C4L3-8012	12mm	24mm	32mm	80mm	40mm	M8 X 1
		C4L3-8014	14mm	27mm	34mm	80mm	45mm	M10 X 1
		C4L3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1
		C4L3-8020	20mm	33mm	42mm	80mm	55mm	M16 X 1
		C4L3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1
		C4L3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1

Standard		Part Number	D1	D2	D3	L1	L2	T
		C4L4-8006	6mm	21mm	27mm	130mm	35mm	M5 X 1
		C4L4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1
		C4L4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1
		C4L4-8012	12mm	24mm	32mm	130mm	40mm	M8 X 1
		C4L4-8014	14mm	27mm	34mm	130mm	45mm	M10 X 1
		C4L4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1
		C4L4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1
		C4L4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1
		C4L4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1

Extended		Part Number	D1	D2	D3	L1	L2	T
		C4L5-8006	6mm	21mm	27mm	160mm	35mm	M5 X 1
		C4L5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1
		C4L5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1
		C4L5-8012	12mm	24mm	32mm	160mm	40mm	M8 X 1
		C4L5-8014	14mm	27mm	34mm	160mm	45mm	M10 X 1
		C4L5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1
		C4L5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1
		C4L5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1
		C4L5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1

Extra Extended		Part Number	D1	D2	D3	L1	L2	T
		C4L6-8006	6mm	21mm	27mm	190mm	35mm	M5 X 1
		C4L6-8008	8mm	21mm	27mm	190mm	35mm	M6 X 1
		C4L6-8010	10mm	24mm	32mm	190mm	40mm	M8 X 1
		C4L6-8012	12mm	24mm	32mm	190mm	40mm	M8 X 1
		C4L6-8014	14mm	27mm	34mm	190mm	45mm	M10 X 1
		C4L6-8016	16mm	27mm	34mm	190mm	45mm	M12 X 1
		C4L6-8020	20mm	33mm	42mm	190mm	55mm	M16 X 1
		C4L6-8025	25mm	44mm	53mm	190mm	55mm	M16 X 1
		C4L6-8032	32mm	44mm	53mm	190mm	55mm	M16 X 1

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	2.17	M18 X 1	4	FOR A	Add to Quote

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CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6381 (VDI 3425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

View Product Types

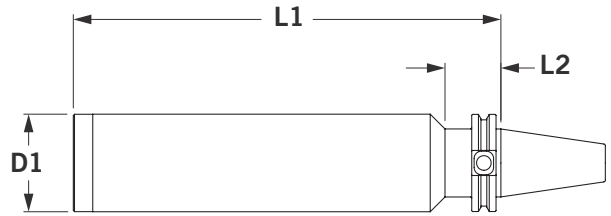
Swiss Live Tooling for Star and Citizen


All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

Blank Bars CT40

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars CT40

Stub	Part Number	D1	L1	L2
	C4X3-0004	2.500	6.00	1.44

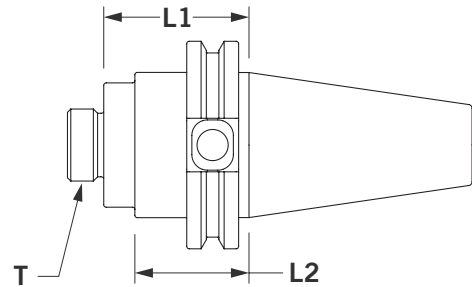
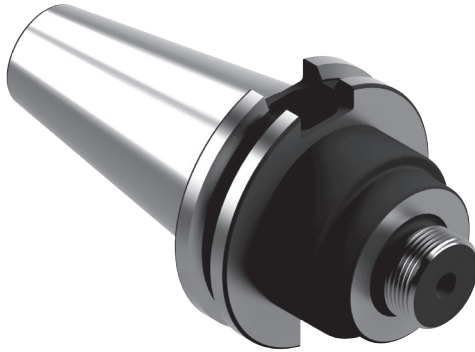


Standard	Part Number	D1	L1	L2
	C4X4-0004	2.500	11.00	1.44



Boring Head CT40

- ▶ Command's Boring Head holders are compatible with a variety of popular boring heads including Erickson, SPI, Yuasa and Criterion.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement—less scrap.
- + Full ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship. Get your tools fast!

Measurements are in inches unless noted (mm).

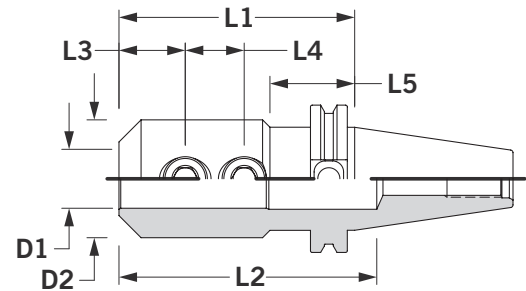
Boring Head CT40

Shorty	Part Number	T	L1	L2	Boring Heads
	C4H4-1018	5/8-18	1.75	1.38	Erickson #37 & #50
	C4H4-1420	7/8-20	1.75	1.38	SPI, Yuasa & Criterion
	C4H4-2418	1 1/2-8	1.75	1.38	SPI, Yuasa & Criterion



End Mill CT40

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!





BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	414	413	424
OPTIONS		ACCESSORIES						


- + Holders through 1.000" accept double end cutters (except as noted), saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

End Mill CT40 Inch

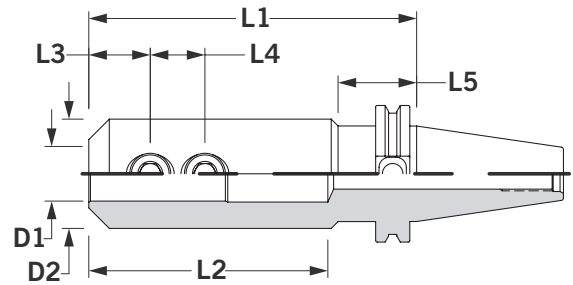
Stub	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4E3-0125	0.125	0.69	1.75	3.3	0.28	-	1.38	XEML-0232
	C4E3-0250	0.250	0.78	1.75	3.3	0.38	-	1.38	XEML-0428
	C4E3-0375	0.375	1.00	1.75	3.3	0.75	-	1.38	XEML-0624
	C4E3-0500	0.500	1.25	1.75	3.3	0.88	-	1.38	XEML-0720
	C4E3-0625	0.625	1.50	1.75	2.3	0.94	-	1.38	XEML-0820
	C4E3-0750	0.750	1.75	1.75	2.5	1.00	-	1.38	XEML-1018
	C4E3-1000	1.000	1.75	1.75	2.5	1.13	-	1.38	XEML-1216
	C4E3-1250	1.250	2.25	2.00	2.3	1.13	-	0.75	XEML-1216
Standard	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4E4-0125	0.125	0.69	2.50	4.0	0.28	-	1.38	XEML-0232
	C4E4-0187	0.187	0.69	2.50	4.0	0.41	-	1.38	XEML-0332
	C4E4-0250	0.250	0.78	2.50	4.0	0.53	-	1.38	XEML-0428
	C4E4-0312	0.312	0.88	2.50	4.0	0.66	-	1.38	XEML-0524
	C4E4-0375	0.375	1.00	2.50	4.0	0.75	-	1.38	XEML-0624
	C4E4-0437	0.437	1.13	2.50	4.0	0.81	-	1.38	XEML-0624
	C4E4-0500	0.500	1.25	2.63	4.0	0.88	-	1.38	XEML-0720
	C4E4-0562	0.562	1.38	2.63	3.0	0.91	-	1.38	XEML-0720
	C4E4-0625	0.625	1.50	3.75	3.5	0.94	-	1.38	XEML-0820
	C4E4-0750	0.750	1.75	3.75	3.9	1.00	-	1.38	XEML-1018
	C4E4-0875	0.875	1.88	4.00	4.1	1.00	-	1.38	XEML-1018
	C4E4-1000	1.000	2.00	4.00	4.3	1.13	1.00	1.38	XEML-1216
	C4E4-1250	1.250	2.50	4.25	4.0	1.13	1.00	1.38	XEML-1216
	C4E4-1500	1.500	2.50	4.63	2.5	1.13	1.00	1.38	XEML-1216

End Mill CT40 Metric

Standard	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4E4-M006	6mm	0.97	2.50	4.0	0.50	-	1.38	XEML-0610
	C4E4-M008	8mm	1.09	2.50	4.0	0.66	-	1.38	XEML-0813
	C4E4-M010	10mm	1.37	2.63	4.1	0.78	-	1.38	XEML-1015
	C4E4-M012	12mm	1.64	2.63	4.1	0.88	-	1.38	XEML-1218
	C4E4-M014	14mm	1.81	3.75	5.3	0.88	-	1.38	XEML-1218
	C4E4-M016	16mm	1.88	3.75	2.2	0.94	-	1.38	XEML-1420
	C4E4-M018	18mm	1.96	3.75	2.3	0.94	-	1.38	XEML-1420
	C4E4-M020	20mm	2.01	3.75	2.4	0.97	-	1.38	XEML-1620

End Mill CT40 *Continued*

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!




BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	414	413	424
OPTIONS		ACCESSORIES						


- + Holders through 1.000" accept double end cutters (except as noted), saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.


Measurements are in inches unless noted (mm).

End Mill CT40 Inch *Continued*

Extended	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4E5-0125*	0.125	0.69	4.50	6.0	0.28	-	1.38	XEML-0232
	C4E5-0187	0.187	0.69	4.50	6.0	0.41	-	1.38	XEML-0332
	C4E5-0250	0.250	0.78	4.50	6.0	0.53	-	1.38	XEML-0428
	C4E5-0312	0.312	0.88	4.50	6.0	0.66	-	1.38	XEML-0524
	C4E5-0375	0.375	1.00	4.50	6.0	0.75	-	1.38	XEML-0624
	C4E5-0437	0.437	1.13	4.50	6.0	0.81	-	1.38	XEML-0624
	C4E5-0500	0.500	1.25	4.63	6.1	0.88	-	1.38	XEML-0720
	C4E5-0625	0.625	1.50	5.75	3.5	0.94	-	1.38	XEML-0820
	C4E5-0750	0.750	1.75	5.75	3.9	1.00	-	1.38	XEML-1018
	C4E5-0875	0.875	1.88	6.00	4.1	1.00	-	1.38	XEML-1018
	C4E5-1000	1.000	2.00	6.00	4.3	1.13	1.00	1.38	XEML-1216
	C4E5-1250	1.250	2.50	6.25	4.0	1.13	1.00	1.38	XEML-1216
	C4E5-1500	1.500	2.50	6.63	4.0	1.13	1.00	1.38	XEML-1216

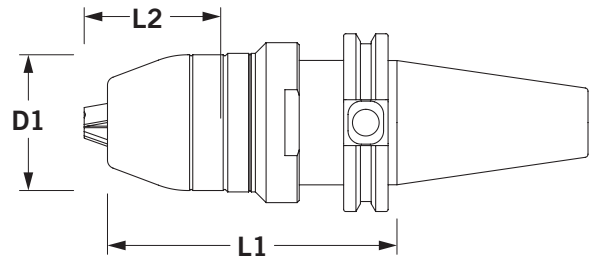
*C4E5-0125 does not meet the safe zone dimensions of ANSI B5.50 1994 and may not work on all tool change mechanisms.

Extra Extended	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4E6-0500	0.500	1.25	6.63	8.1	0.88	-	1.38	XEML-0720
	C4E6-0625	0.625	1.50	7.75	3.5	0.94	-	1.38	XEML-0820
	C4E6-1000	1.000	2.00	8.00	4.3	1.13	1.00	1.38	XEML-1216

Oversized	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	C4K5-0375	0.375	1.00	6.00	7.5	0.75	-	1.38	XEML-0624
	C4K5-0500	0.500	1.25	6.00	7.5	0.88	-	1.38	XEML-0720

Integral Shank Keyless Chuck CT40

- ▶ Integral Shank Keyless Chuck toolholders are designed for free directional rotation with no loss of gripping force due to change in direction of spindle rotation. Integral Shank Keyless Chuck tool holders also have a higher metal removal capacity than conventional taper/drill chucks.



BLACK OXIDE	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	402	410	414	413	424
OPTIONS		ACCESSORIES				

- + Maximum 0.0006" T.I.R. at 1.5" from the end of the holder.
- + Tight grip ensured with worm drive lateral clamping, even when spindles stop or change rotation.
- + Performs at higher speeds (up to 10,000 RPM) than conventional taper/drill chucks.
- + Cost effective performance, reliable, maintenance-free holders with replaceable parts.
- + Compatible with solid carbide or high speed steel round shank tools (no flats).
- + Fast tool change for milling, drilling, reaming, or countersinking.
- + Longer tool life for end mills, drills, thread mills, reamers.
- + Short, compact design with AT3 or better shank taper; coolant through capability.
- + Tool installation wrench (4mm) included.
- + Available in shiny shank only—no black oxide.

Measurements are in inches unless noted (mm).

Integral Shank Keyless Chuck CT40

Standard	Part Number	Description	D1	L1	L2	Holding Torque (ft-lbs)
	C4J4-X100	0.020 - 0.394 (.5 - 10 mm)	1.732	4.33	1.14	33
	C4J4-X160	0.118 - 0.630 (3 - 16 mm)	2.047	4.33	1.14	59



Integral Shank Keyless Chuck Accessories

Wrench	Part Number	Description
	XJCW-04MM	Replacement Hex Wrench (4mm)



Key	Part Number	Description
	XJSK-0001	Coolant Seal Key

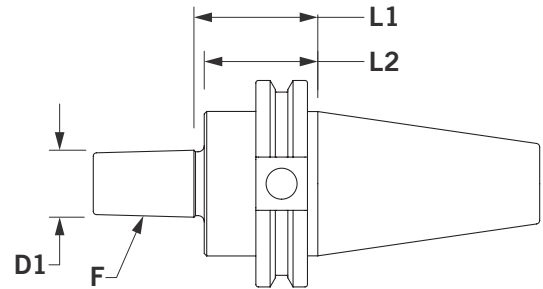
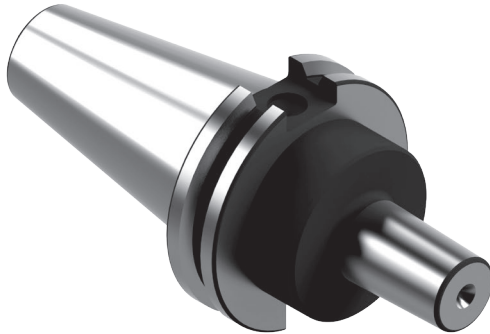


Sleeve Set	Part Number	Description
	XJSS-0003	Seal Sleeve Set



Jacobs Taper CT40

- Jacobs Taper holders accommodate a range of drill sizes using a single drill chuck making them economical for any typical drilling application.




BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	413	424
OPTIONS			ACCESSORIES			


- + Precision ground Jacobs pilot.
- + Not for high speed use.
- + Jacobs Taper held to better than 0.0002" accuracy for best mating with the drill chuck.
- + For proper assembly, clean before use. Clean and degrease both I.D. and O.D. of Jacobs holder.


Measurements are in inches unless noted (mm).

Jacobs Taper CT40

Standard	Part Number	F	D1	L1	L2
	C4J4-0001	#1	0.384	1.50	1.38
	C4J4-0002	#2	0.559	1.50	1.38
	C4J4-0003	#3	0.811	1.50	1.38
	C4J4-0004	#4	1.124	1.50	1.38
	C4J4-0006	#6	0.676	1.50	1.38
	C4J4-0033	#33	0.624	1.50	1.38

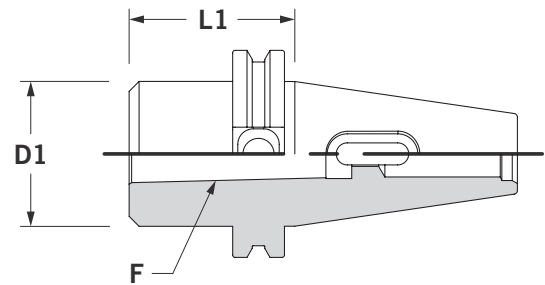
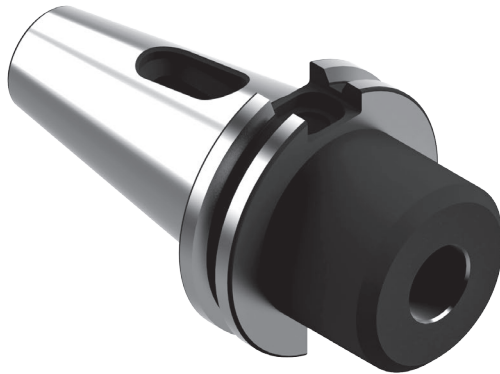
Jacobs Taper Chucks

Keyless Chuck	Part Number	Model	Capacity	Taper
	X650-J100	65J1	0 - 1/4	#1
	X800-J200	80J2	0 - 5/16	#2
	X100-J330	100J33	0 - 3/8	#33
	X130-J200	130J2	1/32 - 1/2	#2

Ball Bearing Key Type Super Chuck	Part Number	Model	Capacity	Taper	Replacement Chuck Key
	X11N-J200	11N	0 - 3/8	#2	XK32-J000
	X14N-J300	14N	0 - 1/2	#3	XK30-J000
	X16N-J300	16N	1/8 - 5/8	#3	XK40-J000
	X18N-J400	18N	1/8 - 3/4	#4	XK40-J000

Morse Taper CT40

- ▶ Command's precision ground Morse Taper holders have a taper pocket held to a 0.0002" accuracy for the best locking fit of the Morse Shank.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Must be cleaned before use and degreased for proper assembly.
- + AT3 or better shank taper. Accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement to minimize scrap.
- + Fully ground flange and V-groove that is easy on the tool changers minimizing spindle and changer maintenance.
- + Not for high speed use.

Measurements are in inches unless noted (mm).

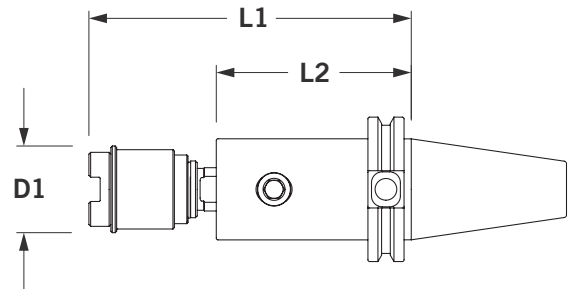
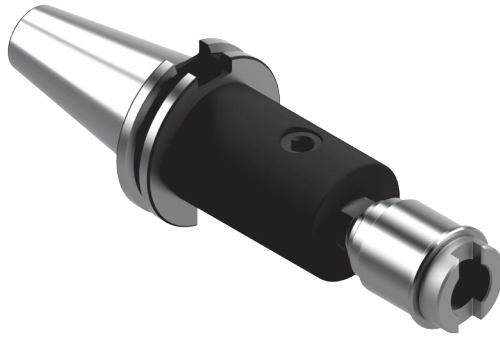
Morse Taper CT40

Standard	Part Number	F	D1	L1	L2
	C4M4-0002	#2	1.75	2.00	N/A
	C4M4-0003	#3	1.75	2.75	N/A
	C4M4-0004	#4	1.75	3.63	N/A



Rigid Tap CT40

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	402	414	413	424
OPTIONS			ACCESSORIES				

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

Rigid Tap CT40

Extra Short	Part Number	Collet #	D1	L1	L2
	C4P2-0001	#1	1.50	3.58	1.38
	C4P2-0002	#2	1.88	4.22	1.38

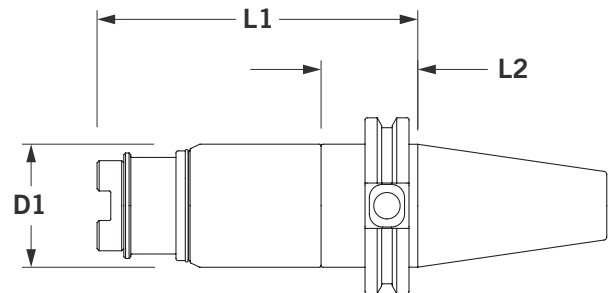
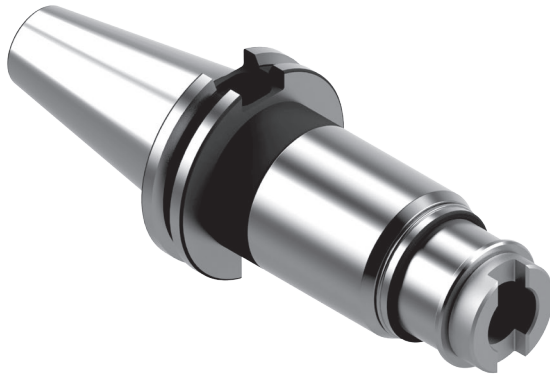


Extended	Part Number	Collet #	D1	L1	L2
	C4P5-0001	#1	1.50	5.58	1.38
	C4P5-0002	#2	1.88	6.22	1.38



Tension & Compression CT40

- ▶ Command's Tension and Compression Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	354	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Tension and Compression style has axial float for precise thread pitch.
- + Uses popular Bilz style quick change collet system.
- + Holders travel in tension 0.75", in compression 0.37".
- + L1 dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

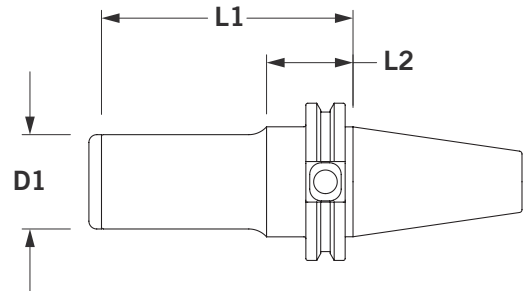
Tension & Compression CT40

Standard	Part Number	Collet #	D1	L1	L2
	C4T4-0001	#1	1.75	4.56	1.38
	C4T4-0002	#2	2.25	6.47	1.44



Semi-Flush Slitting Saw CT40

- ▶ Command's Semi-Flush Slitting Saw holders have a semi-flush nose cap for reaching tight areas and the ability to change saw width without spacers.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Face is held perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Designed for slitting saws up to 5/16" thick. For wider cutters use a Stub Arbor Holder.
- + Toolholder includes cap and drive key. Part numbers for replacements listed in toolholder part table at right.

Measurements are in inches unless noted (mm).

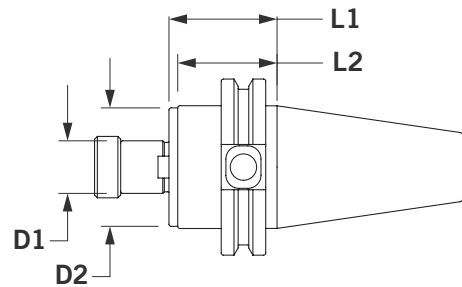
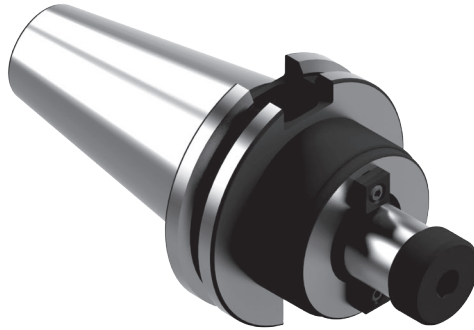
Semi-Flush Slitting Saw CT40

Standard	Part Number	Saw Size ID	D1	L1	L2	Cap	Drive Key
	C4G4-1000	1.00	1.50	4.00	1.38	XSFC-1000	XSSK-1000
	C4G4-1250	1.25	2.00	4.00	1.44	XSFC-1250	XSSK-1250



Shell Mill CT40

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	398	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

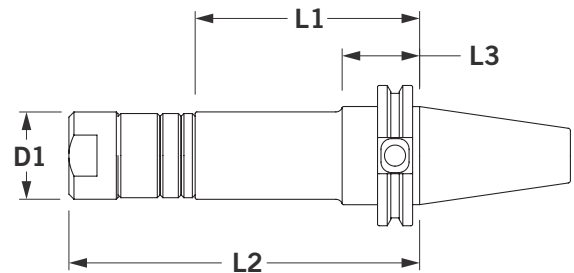
Shell Mill CT40

Standard	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	C4S4-0500	0.500	1.44	1.50	1.38	XSDK-0500	XSAS-0500
	C4S4-0750	0.750	1.69	1.50	1.38	XSDK-0750	XSAS-0750
	C4S4-1000	1.000	2.19	2.06	1.44	XSDK-1000	XSAS-1000
	C4S4-1250	1.250	2.75	2.63	1.44	XSDK-1250	XSAS-1250
	C4S4-1500	1.500	3.81	3.00	1.44	XSDK-1500	XSAS-1500

Extended	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	C4S5-0500	0.500	1.44	3.50	1.37	XSDK-0500	XSAS-0500
	C4S5-0750	0.750	1.69	3.50	1.38	XSDK-0750	XSAS-0750
	C4S5-1000	1.000	2.19	4.00	1.44	XSDK-1000	XSAS-1000
	C4S5-1250	1.250	2.75	4.00	1.44	XSDK-1250	XSAS-1250
	C4S5-1500	1.500	3.81	4.00	1.44	XSDK-1500	XSAS-1500

Stub Arbor CT40

- ▶ Command's Stub Arbor holders have a pilot diameter that is sized for a precise fit with the cutter and is keyed for positive drive.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Pilot thread is ground concentric to the tapered shank.
- + Face is perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Heavy duty locking nut and three arbor spacers are included - 1/4", 3/8", 3/4". Also listed in table at right.

Measurements are in inches unless noted (mm).

Stub Arbor CT40

Standard	Part Number	Cutter Size ID	D1	L1	L2	L3
	C4F4-1000	1.00	1.56	4.00	6.25	1.38
	C4F4-1250	1.25	1.87	4.00	6.50	1.44



Stub Arbor Replacement parts

Replacement Key	Part Number	Description
	XKEY-1000	Key for 1.00 with 1/4" Square Key
	XKEY-1250	Key for 1.25 with 5/16" Square Key



Replacement Nuts	Part Number	Description
	XSAN-1000	Nut for 1.00
	XSAN-1250	Nut for 1.25

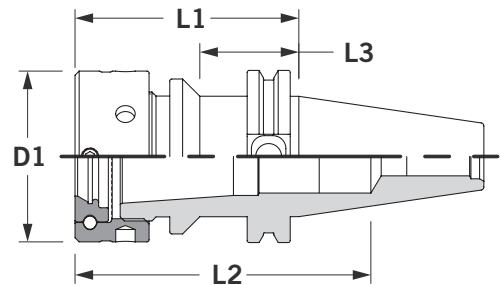


Replacement Spacer	Part Number	Description
	X100-0250	1/4" Spacer for 1.00
	X100-0375	3/8" Spacer for 1.00
	X100-0750	3/4" Spacer for 1.00
	X125-0250	1/4" Spacer for 1.25
	X125-0375	3/8" Spacer for 1.25
	X125-0750	3/4" Spacer for 1.25



TG100 Comflex® CT40

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Complex® CT40

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C3-1000	TG100	2.48	2.75	3.14	N/A	XCCW-1000	XCCS-1816



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C4-1000	TG100	2.48	3.25	3.64	1.44	XCCW-1000	XCCS-1816



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C5-1000	TG100	2.48	4.25	4.64	2.25	XCCW-1000	XCCS-1816

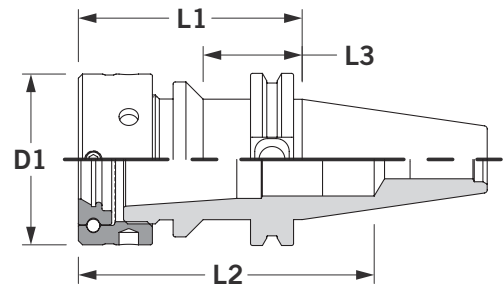


Extra Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C6-1000	TG100	2.48	6.25	6.64	4.25	XCCW-1000	XCCS-1816



TG150 Comflex® CT40

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	338	338	338	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® CT40

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C4C4-1500	TG150	3.46	4.88	4.25	1.44	XCCW-1500	XCCS-2212



CT50 Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.

<p>64-65</p>  <p>ER Micro Precision®</p>	<p>66-69</p>  <p>Standard ThermoLock®</p>	<p>70-73</p>  <p>HP ThermoLock®</p>	<p>74-75</p>  <p>Blank Bars</p>
<p>76-77</p>  <p>Boring Head</p>	<p>78-81</p>  <p>End Mill</p>	<p>82-83</p>  <p>Integral Shank</p>	<p>84-85</p>  <p>Jacobs Taper</p>
<p>86-87</p>  <p>Morse Taper</p>	<p>88-89</p>  <p>Rigid Tap</p>	<p>90-91</p>  <p>Tension & Compression</p>	<p>92-93</p>  <p>Semi-Flush Slitting Saw</p>
<p>94-95</p>  <p>Shell Mill</p>	<p>96-97</p>  <p>Stub Arbor</p>	<p>98-99</p>  <p>TG100 Complex®</p>	<p>100-101</p>  <p>TG150 Complex®</p>
<p>316-451</p>  <p>Accessories</p>			

► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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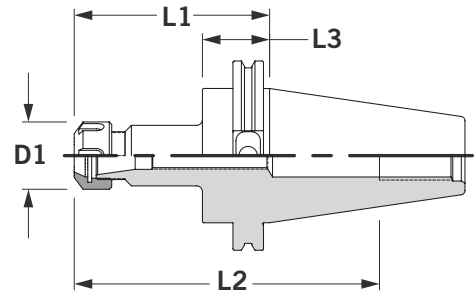
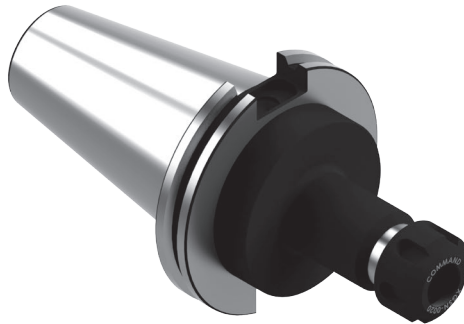
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® CT50

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™				TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	296	354	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + ER32 shorty collet chucks use ER32 collets made to precise specifications for tool shank sizes 0.079-0.787" (2.0mm-20.0mm).
- + ER32 shorty collet chucks have the shortest gage length with recessed collet nut design. No stop screws, no safe area.
- + ER32 shorty collet chucks do not meet the safe zone dimensions of ANSI B5.50 1994 and may not work on all tool change mechanisms.
- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® CT50

CT50 Collet Chucks // ER Micro Precision® Collet Chucks

Shorty	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C1-0032	ER32	1.97	0.75	3.00	0.75	XCCW-D032	XCCS-2215



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C4-0016	ER16	1.26	4.88	7.13	1.38	XCCW-D016	XCCS-0720
	C6C4-0020	ER20	1.38	4.00	6.25	1.38	XCCW-D020	XCCS-1415
	C6C4-0025	ER25	1.64	4.00	6.25	1.38	XCCW-D025	XCCS-1815
	C6C4-0032	ER32	1.97	4.00	6.25	1.38	XCCW-D032	XCCS-2215
	C6C4-0040	ER40	2.48	4.00	6.25	1.38	XCCW-0040	XCCS-1816



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C5-0016	ER16	1.26	6.88	9.13	1.38	XCCW-D016	XCCS-0720
	C6C5-0020	ER20	1.38	6.00	8.30	1.38	XCCW-D020	XCCS-1415
	C6C5-0025	ER25	1.64	6.00	8.25	1.38	XCCW-D025	XCCS-1815
	C6C5-0032	ER32	1.97	6.00	8.25	1.38	XCCW-D032	XCCS-2215
	C6C5-0040	ER40	2.48	6.00	8.25	1.38	XCCW-0040	XCCS-1816



Extra Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C6-0020	ER20	1.38	8.00	10.25	1.38	XCCW-D020	XCCS-1415
	C6C6-0032	ER32	1.97	8.00	10.25	1.38	XCCW-D032	XCCS-2215



Oversized	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6K5-0020	ER20	1.38	6.00	8.25	1.38	XCCW-D020	XCCS-1415
	C6K5-0032	ER32	1.97	8.00	8.25	1.38	XCCW-D032	XCCS-2215

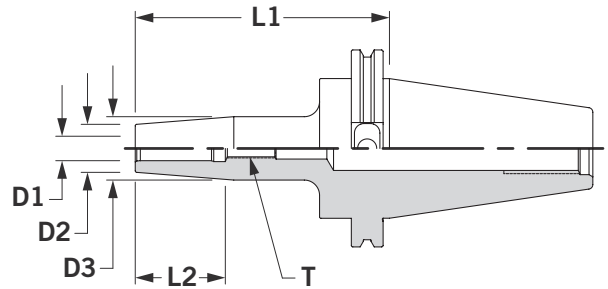


Oversized Extra Extended

	C6K6-0020	ER20	1.38	8.00	10.25	1.38	XCCW-D020	XCCS-1415
	C6K6-0032	ER32	1.97	8.00	10.25	1.38	XCCW-D032	XCCS-2215

Standard ThermoLock® CT50

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.






BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.




Measurements are in inches unless noted (mm).

Standard ThermoLock® CT50 Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	C6Y3-0312	0.312	0.79	1.00	3.38	1.38	M6 X 1	
	C6Y3-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	
	C6Y3-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	
	C6Y3-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	
	C6Y3-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	
	C6Y3-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	
	C6Y3-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	
	C6Y3-1000	1.000	1.73	2.09	3.63	2.17	M16 X 1	
	C6Y3-1250	1.250	1.73	2.09	3.63	2.17	M16 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	C6Y4-0312	0.312	0.79	1.00	5.00	1.38	M6 X 1	
	C6Y4-0375	0.375	0.79	1.00	5.00	1.57	M8 X 1	
	C6Y4-0437	0.437	0.94	1.25	5.00	1.57	M8 X 1	
	C6Y4-0500	0.500	0.94	1.25	5.00	1.77	M10 X 1	
	C6Y4-0562	0.562	1.06	1.38	5.00	1.77	M10 X 1	
	C6Y4-0625	0.625	1.06	1.38	5.00	1.77	M12 X 1	
	C6Y4-0750	0.750	1.30	1.63	5.00	2.17	M16 X 1	
	C6Y4-1000	1.000	1.73	2.09	5.00	2.17	M16 X 1	
	C6Y4-1250	1.250	1.73	2.09	5.00	2.17	M16 X 1	
	Extended		Part Number	D1	D2	D3	L1	L2
	C6Y5-0312	0.312	0.79	1.00	7.00	1.38	M6 X 1	
	C6Y5-0375	0.375	0.79	1.00	7.00	1.57	M8 X 1	
	C6Y5-0437	0.437	0.94	1.25	7.00	1.57	M8 X 1	
	C6Y5-0500	0.500	0.94	1.25	7.00	1.77	M10 X 1	
	C6Y5-0562	0.562	1.06	1.38	7.00	1.77	M10 X 1	
	C6Y5-0625	0.625	1.06	1.38	7.00	1.77	M12 X 1	
	C6Y5-0750	0.750	1.30	1.63	7.00	2.17	M16 X 1	
	C6Y5-1000	1.000	1.73	2.09	7.00	2.17	M16 X 1	
	C6Y5-1250	1.250	1.73	2.09	7.00	2.17	M16 X 1	

Standard ThermoLock® CT50 Metric

CT50 Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	C6Y3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	C6Y3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	C6Y3-8012	12mm	24mm	32mm	80mm	45mm	M8 X 1	
	C6Y3-8014	14mm	24mm	32mm	80mm	45mm	M10 X 1	
	C6Y3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1	
	C6Y3-8018	18mm	33mm	42mm	80mm	55mm	M16 X 1	
	C6Y3-8020	20mm	33mm	42mm	80mm	55mm	M16 X 1	
	C6Y3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	C6Y3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	C6Y4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	C6Y4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	C6Y4-8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	C6Y4-8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	C6Y4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	C6Y4-8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	C6Y4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	C6Y4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1	
	C6Y4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	C6Y5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	C6Y5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	C6Y5-8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	C6Y5-8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	C6Y5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	C6Y5-8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	C6Y5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	C6Y5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	C6Y5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	

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- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND TOOLING SYSTEMS

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Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

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Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

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Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6381 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

View Product Types

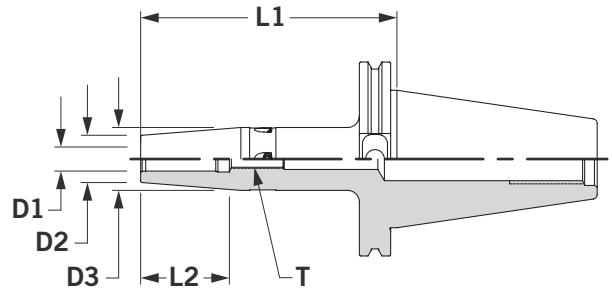
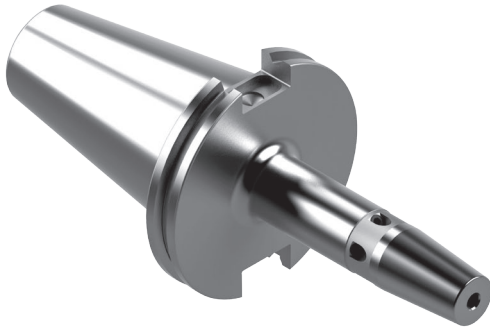
Swiss Live Tooling for Star and Citizen

All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

HP ThermoLock® CT50

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® CT50 Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
		C6L3-0250	0.250	0.83	1.06	3.15	1.38	M5 X 1
		C6L3-0312	0.312	0.83	1.06	3.15	1.38	M6 X 1
		C6L3-0375	0.375	0.94	1.26	3.15	1.57	M8 X 1
		C6L3-0437	0.437	0.94	1.26	3.15	1.57	M8 X 1
		C6L3-0500	0.500	0.94	1.26	3.15	1.77	M10 X 1
		C6L3-0625	0.625	1.06	1.34	3.15	1.77	M12 X 1
		C6L3-0750	0.750	1.30	1.65	3.15	2.17	M16 X 1
		C6L3-0875	0.875	1.30	1.65	3.15	2.17	M16 X 1
		C6L3-1000	1.000	1.73	2.09	3.93	2.17	M16 X 1
		C6L3-1250	1.250	1.73	2.09	3.93	2.17	M16 X 1
	Standard		Part Number	D1	D2	D3	L1	L2
		C6L4-0250	0.250	0.83	1.06	5.12	1.38	M5 X 1
		C6L4-0312	0.312	0.83	1.06	5.12	1.38	M6 X 1
		C6L4-0375	0.375	0.94	1.26	5.12	1.57	M8 X 1
		C6L4-0437	0.437	0.94	1.26	5.12	1.57	M8 X 1
		C6L4-0500	0.500	0.94	1.26	5.12	1.77	M10 X 1
		C6L4-0625	0.625	1.06	1.34	5.12	1.77	M12 X 1
		C6L4-0750	0.750	1.30	1.65	5.12	2.17	M16 X 1
		C6L4-0875	0.875	1.30	1.65	5.12	2.17	M16 X 1
		C6L4-1000	1.000	1.73	2.09	5.12	2.17	M16 X 1
		C6L4-1250	1.250	1.73	2.09	5.12	2.17	M16 X 1
	Extended		Part Number	D1	D2	D3	L1	L2
		C6L5-0250	0.250	0.83	1.06	6.30	1.38	M5 X 1
		C6L5-0312	0.312	0.83	1.06	6.30	1.38	M6 X 1
		C6L5-0375	0.375	0.94	1.26	6.30	1.57	M8 X 1
		C6L5-0437	0.437	0.94	1.26	6.30	1.57	M8 X 1
		C6L5-0500	0.500	0.94	1.26	6.30	1.77	M10 X 1
		C6L5-0625	0.625	1.06	1.34	6.30	1.77	M12 X 1
		C6L5-0750	0.750	1.30	1.65	6.30	2.17	M16 X 1
		C6L5-0875	0.875	1.30	1.65	6.30	2.17	M16 X 1
		C6L5-1000	1.000	1.73	2.09	6.30	2.17	M16 X 1
		C6L5-1250	1.250	1.73	2.09	6.30	2.17	M16 X 1
	Extra Extended		Part Number	D1	D2	D3	L1	L2
		C6L6-0250	0.250	0.83	1.06	7.48	1.38	M5 X 1
		C6L6-0312	0.312	0.83	1.06	7.48	1.38	M6 X 1
		C6L6-0375	0.375	0.94	1.26	7.48	1.57	M8 X 1
		C6L6-0437	0.437	0.94	1.26	7.48	1.57	M8 X 1
		C6L6-0500	0.500	0.94	1.26	7.48	1.77	M10 X 1
		C6L6-0625	0.625	1.06	1.34	7.48	1.77	M12 X 1
		C6L6-0750	0.750	1.30	1.65	7.48	2.17	M16 X 1
		C6L6-0875	0.875	1.30	1.65	7.48	2.17	M16 X 1
		C6L6-1000	1.000	1.73	2.09	7.48	2.17	M16 X 1
		C6L6-1250	1.250	1.73	2.09	7.48	2.17	M16 X 1

CT50 Collet Chucks // HP ThermoLock®

HP ThermoLock® CT50 Metric

CT50 Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	C6L3-8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	C6L3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	C6L3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	C6L3-8012	12mm	24mm	32mm	80mm	40mm	M8 X 1	
	C6L3-8014	14mm	27mm	34mm	80mm	45mm	M10 X 1	
	C6L3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1	
	C6L3-8020	20mm	33mm	42mm	80mm	55mm	M16 X 1	
	C6L3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	C6L3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	C6L4-8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	C6L4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	C6L4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	C6L4-8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	C6L4-8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	C6L4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	C6L4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	C6L4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1	
	C6L4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	C6L5-8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	C6L5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	C6L5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	C6L5-8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	C6L5-8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	C6L5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	C6L5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	C6L5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	C6L5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	
Extra Extended		Part Number	D1	D2	D3	L1	L2	T
	C6L6-8006	6mm	21mm	27mm	190mm	35mm	M5 X 1	
	C6L6-8008	8mm	21mm	27mm	190mm	35mm	M6 X 1	
	C6L6-8010	10mm	24mm	32mm	190mm	40mm	M8 X 1	
	C6L6-8012	12mm	24mm	32mm	190mm	40mm	M8 X 1	
	C6L6-8014	14mm	27mm	34mm	190mm	45mm	M10 X 1	
	C6L6-8016	16mm	27mm	34mm	190mm	45mm	M12 X 1	
	C6L6-8020	20mm	33mm	42mm	190mm	55mm	M16 X 1	
	C6L6-8025	25mm	44mm	53mm	190mm	55mm	M16 X 1	
	C6L6-8032	32mm	44mm	53mm	190mm	55mm	M16 X 1	

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Models & Dimensions

Stub Standard Extended

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PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

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Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

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View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

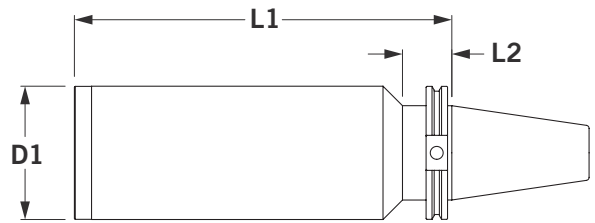
View Product Types


Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

Blank Bars CT50

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

- + Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars CT50

Stub	Part Number	D1	L1	L2
	C6X3-0006	3.875	6.00	1.44

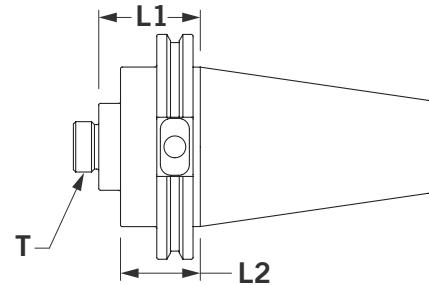
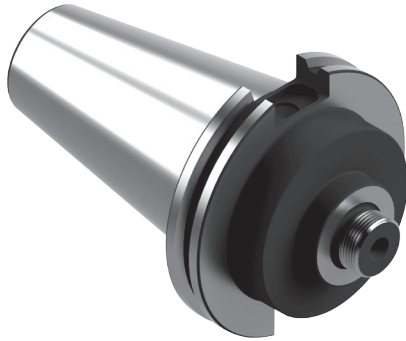



Standard	Part Number	D1	L1	L2
	C6X4-0006	3.875	11.00	1.44



Boring Head CT50

- ▶ Command's Boring Head holders are compatible with a variety of popular boring heads including Erickson, SPI, Yuasa and Criterion.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement—less scrap.
- + Full ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship. Get your tools fast!

Measurements are in inches unless noted (mm).

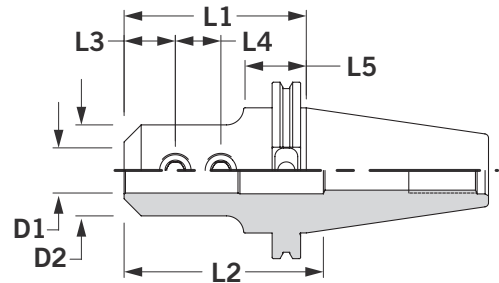
Boring Head CT50

Shorty	Part Number	T	L1	L2	Boring Heads
	C6H4-1018	5/8-18	1.75	1.38	Erickson #37 & #50
	C6H4-1420	7/8-20	1.75	1.38	SPI, Yuasa & Criterion
	C6H4-2418	1 1/2-8	1.75	1.38	SPI, Yuasa & Criterion



End Mill CT50

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!





BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	413	424
OPTIONS		ACCESSORIES					


- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

End Mill CT50

Stub		Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
		C6E3-0375	0.375	2.75	1.38	3.6	0.75	-	1.38	XEML-0624
		C6E3-0500	0.500	2.75	1.38	3.6	0.88	-	1.38	XEML-0720
		C6E3-0625	0.625	2.75	1.38	3.6	0.94	-	1.38	XEML-0820
		C6E3-0750	0.750	2.75	1.63	3.8	1.00	-	1.38	XEML-1018
		C6E3-0875	0.875	2.75	1.63	3.8	1.00	-	1.38	XEML-1018
		C6E3-1000	1.000	2.75	1.63	3.8	1.13	-	1.38	XEML-1216
		C6E3-1250	1.250	2.75	2.00	4.0	1.13	-	1.38	XEML-1216
		C6E3-1500	1.500	2.75	2.25	4.0	1.13	-	1.38	XEML-1216
Standard		Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
		C6E4-0125	0.125	0.69	2.50	4.7	0.28	-	1.38	XEML-0232
		C6E4-0187	0.187	0.69	2.50	4.7	0.41	-	1.38	XEML-0332
		C6E4-0250	0.250	0.78	2.50	4.7	0.53	-	1.38	XEML-0428
		C6E4-0312	0.312	0.88	2.50	4.7	0.66	-	1.38	XEML-0524
		C6E4-0375	0.375	1.00	2.50	4.7	0.75	-	1.38	XEML-0624
		C6E4-0437	0.437	1.13	2.63	4.8	0.81	-	1.38	XEML-0624
		C6E4-0500	0.500	1.25	2.63	4.8	0.88	-	1.38	XEML-0720
		C6E4-0562	0.562	1.38	2.63	4.8	0.91	-	1.38	XEML-0720
		C6E4-0625	0.625	1.50	3.75	6.0	0.94	-	1.38	XEML-0820
		C6E4-0750	0.750	1.75	3.75	6.0	1.00	-	1.38	XEML-1018
		C6E4-0875	0.875	1.88	3.75	4.1	1.00	-	1.38	XEML-1018
		C6E4-1000	1.000	2.00	4.00	4.3	1.13	1.00	1.38	XEML-1216
		C6E4-1250	1.250	2.50	4.00	4.0	1.13	1.00	1.38	XEML-1216
		C6E4-1500	1.500	2.50	4.00	4.0	1.13	1.00	1.38	XEML-1216
		C6E4-2000	2.000	3.75	5.63	5.0	1.41	1.50	1.38	XEML-1614

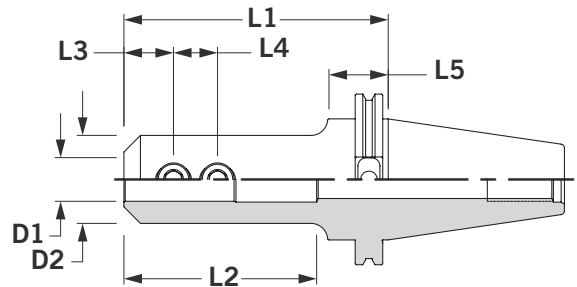
End Mill CT40 Metric

Standard		Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
		C6E4-M006	6mm	0.97	2.50	4.7	0.50	-	1.38	XEML-0610
		C6E4-M008	8mm	1.09	2.50	4.7	0.66	-	1.38	XEML-0813
		C6E4-M010	10mm	1.37	2.63	4.8	0.78	-	1.38	XEML-1015
		C6E4-M012	12mm	1.64	2.63	4.8	0.88	-	1.38	XEML-1218
		C6E4-M014	14mm	1.81	3.75	6.0	0.88	-	1.38	XEML-1218
		C6E4-M016	16mm	1.88	3.75	6.0	0.94	-	1.38	XEML-1420
		C6E4-M018	18mm	1.96	3.75	6.0	0.94	-	1.38	XEML-1420
		C6E4-M020	20mm	2.01	3.75	6.0	0.97	-	1.38	XEML-1620

CT50 Collet Chucks // End Mill Collet Chucks

End Mill CT50 *Continued*

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!



BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	414	413	424
OPTIONS		ACCESSORIES						

- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

End Mill CT50 *Continued*

Extended									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
C6E5-0375	0.375	1.00	4.50	6.7	0.75	-	1.38	XEML-0624	
C6E5-0500	0.500	1.25	4.63	6.8	0.88	-	1.38	XEML-0720	
C6E5-0625	0.625	1.50	5.75	8.0	0.94	-	1.38	XEML-0820	
C6E5-0750	0.750	1.75	5.75	8.0	1.00	-	1.38	XEML-1018	
C6E5-0875	0.875	1.88	5.75	4.1	1.00	-	1.38	XEML-1018	
C6E5-1000	1.000	2.00	6.00	4.3	1.13	1.00	1.38	XEML-1216	
C6E5-1250	1.250	2.50	6.00	4.0	1.13	1.00	1.38	XEML-1216	
C6E5-1500	1.500	2.50	6.00	4.0	1.13	1.00	1.38	XEML-1216	
C6E5-2000	2.000	3.75	7.63	5.0	1.41	1.50	1.38	XEML-1614	

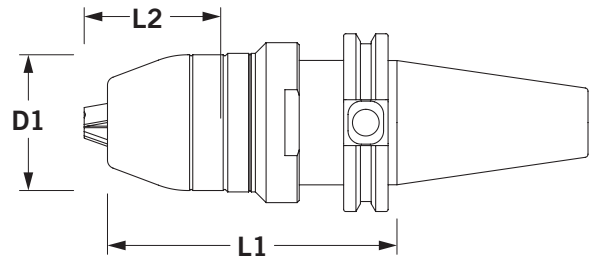
Extra Extended									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
C6E6-0375	0.375	1.00	6.50	8.7	0.75	-	1.38	XEML-0624	
C6E6-0500	0.500	1.25	6.63	8.8	0.88	-	1.38	XEML-0720	
C6E6-0625	0.625	1.50	7.75	10.0	0.94	-	1.30	XEML-0820	
C6E6-0750	0.750	1.75	7.75	10.0	1.00	-	1.38	XEML-1018	
C6E6-0875	0.875	1.88	7.75	4.1	1.00	-	1.38	XEML-1018	
C6E6-1000	1.000	2.00	8.00	4.3	1.13	1.00	1.38	XEML-1216	
C6E6-1250	1.250	2.50	8.00	4.0	1.13	1.00	1.38	XEML-1216	
C6E6-1500	1.500	2.50	8.00	4.0	1.13	1.00	1.38	XEML-1216	
C6E6-2000	2.000	3.75	9.63	5.0	1.41	1.50	1.44	XEML-1614	


Oversized									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
C6K5-0312	0.312	1.00	6.00	8.2	0.75	-	1.38	XEML-0524	
C6K5-0375	0.375	1.00	6.00	8.2	0.75	-	1.38	XEML-0624	
C6K6-0375	0.375	1.00	8.00	10.2	0.75	-	1.38	XEML-0624	
C6K7-0375	0.375	1.00	10.00	12.2	0.75	-	1.38	XEML-0624	
C6K8-0375	0.375	1.00	12.00	14.2	0.75	-	1.38	XEML-0624	
C6K5-0500	0.500	1.25	6.00	8.2	0.88	-	1.38	XEML-0720	
C6K6-0500	0.500	1.25	8.00	10.2	0.88	-	1.38	XEML-0720	
C6K7-0500	0.500	1.25	10.00	12.2	0.88	-	1.38	XEML-0720	
C6K8-0500	0.500	1.25	12.00	14.2	0.88	-	1.38	XEML-0720	
C6K5-0625	0.625	1.50	6.00	8.2	0.94	-	1.38	XEML-0820	
C6K6-0625	0.625	1.50	8.00	10.2	0.94	-	1.38	XEML-0820	
C6K7-0625	0.625	1.50	10.00	12.2	0.94	-	1.38	XEML-0820	
C6K8-0625	0.625	1.50	12.00	3.5	0.94	-	1.38	XEML-0820	
C6K5-0750	0.750	1.75	6.00	8.2	1.00	-	1.38	XEML-1018	
C6K6-0750	0.750	1.75	8.00	10.2	1.00	-	1.38	XEML-1018	
C6K7-0750	0.750	1.75	10.00	12.2	1.00	-	1.38	XEML-1018	
C6K8-0750	0.750	1.75	12.00	3.9	1.00	-	1.38	XEML-1018	
C6K5-1000	1.000	2.00	6.00	4.3	1.13	1.00	1.38	XEML-1614	
C6K6-1000	1.000	2.00	8.00	4.3	1.13	1.00	1.38	XEML-1614	
C6K7-1000	1.000	2.00	10.00	4.3	1.13	1.00	1.38	XEML-1614	
C6K8-1000	1.000	2.00	12.00	4.3	1.13	1.00	1.38	XEML-1614	

CT50 Collet Chucks // End Mill Collet Chucks

Integral Shank Keyless Chuck CT50

- ▶ Integral Shank Keyless Chuck toolholders are designed for free directional rotation with no loss of gripping force due to change in direction of spindle rotation. Integral Shank Keyless Chuck tool holders also have a higher metal removal capacity than conventional taper/drill chucks.



BLACK OXIDE	COOLANT OPTIONS	 TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	15	402	410	414	413	424
OPTIONS		ACCESSORIES				

- + Maximum 0.0006" T.I.R. at 1.5" from the end of the holder.
- + Tight grip ensured with worm drive lateral clamping, even when spindles stop or change rotation.
- + Performs at higher speeds (up to 10,000 RPM) than conventional taper/drill chucks.
- + Cost effective performance, reliable, maintenance-free holders with replaceable parts.
- + Compatible with solid carbide or high speed steel round shank tools (no flats).
- + Fast tool change for milling, drilling, reaming, or countersinking.
- + Longer tool life for end mills, drills, thread mills, reamers.
- + Short, compact design with AT3 or better shank taper; coolant through capability.
- + Tool installation wrench (4mm) included.
- + Available in shiny shank only—no black oxide.

Measurements are in inches unless noted (mm).

Integral Shank Keyless Chuck CT50

Standard	Part Number	Description	D1	L1	L2	Holding Torque (ft-lbs)
	C6J4-X130	0.020 - 0.512 (.5 - 13 mm)	1.949	4.33	1.14	51
	C6J4-X160	0.118 - 0.630 (3 - 16 mm)	2.042	4.33	1.14	59



Integral Shank Keyless Chuck Accessories

Wrench	Part Number	Description
	XJCW-04MM	Replacement Hex Wrench (4mm)



Key	Part Number	Description
	XJSK-0001	Coolant Seal Key

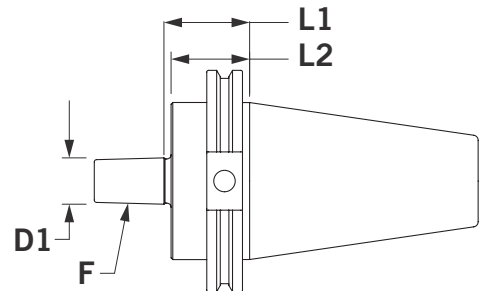
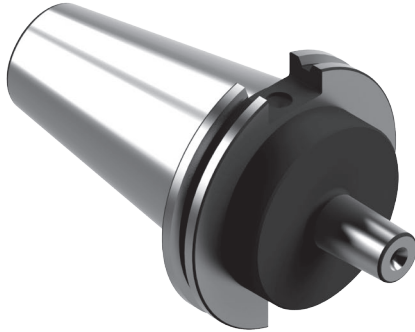


Sleeve Set	Part Number	Description
	XJSS-0003	Seal Sleeve Set



Jacobs Taper CT50

- Jacobs Taper holders accommodate a range of drill sizes using a single drill chuck making them economical for any typical drilling application.




BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				


- + Precision ground Jacobs pilot.
- + Not for high speed use.
- + Jacobs Taper held to better than 0.0002" accuracy for best mating with the drill chuck.
- + For proper assembly, clean before use. Clean and degrease both I.D. and O.D. of Jacobs holder.


Measurements are in inches unless noted (mm).

Jacobs Taper CT50

Standard	Part Number	F	D1	L1	L2
	C6J4-0001	#1	0.384	1.50	1.38
	C6J4-0002	#2	0.559	1.50	1.38
	C6J4-0003	#3	0.811	1.50	1.38
	C6J4-0004	#4	1.124	1.50	1.38
	C6J4-0006	#6	0.676	1.50	1.38
	C6J4-0033	#33	0.624	1.50	1.38

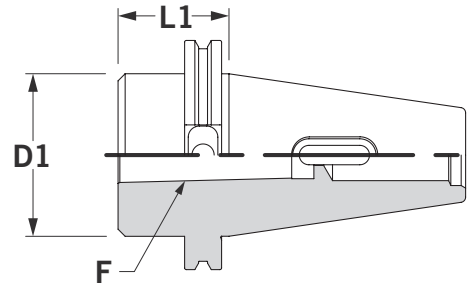
Jacobs Taper Chucks

Keyless Chuck	Part Number	Model	Capacity	Taper
	X650-J100	65J1	0 - 1/4	#1
	X800-J200	80J2	0 - 5/16	#2
	X100-J330	100J33	0 - 3/8	#33
	X130-J200	130J2	1/32 - 1/2	#2

Ball Bearing Key Type Super Chuck	Part Number	Model	Capacity	Taper	Replacement Chuck Key
	X11N-J200	11N	0 - 3/8	#2	XK32-J000
	X14N-J300	14N	0 - 1/2	#3	XK30-J000
	X16N-J300	16N	1/8 - 5/8	#3	XK40-J000
	X18N-J400	18N	1/8 - 3/4	#4	XK40-J000

Morse Taper CT50

- ▶ Command's precision ground Morse Taper holders have a taper pocket held to a 0.0002" accuracy for the best locking fit of the Morse Shank.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Must be cleaned before use and degreased for proper assembly.
- + AT3 or better shank taper. Accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement to minimize scrap.
- + Fully ground flange and V-groove that is easy on the tool changers minimizing spindle and changer maintenance.
- + Not for high speed use.

Measurements are in inches unless noted (mm).

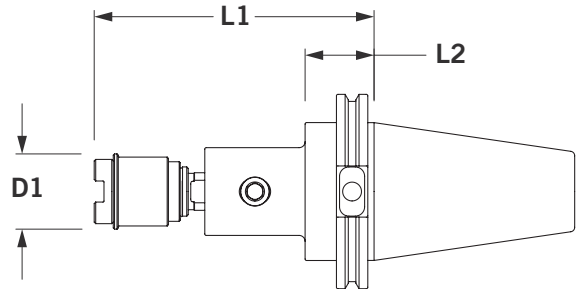
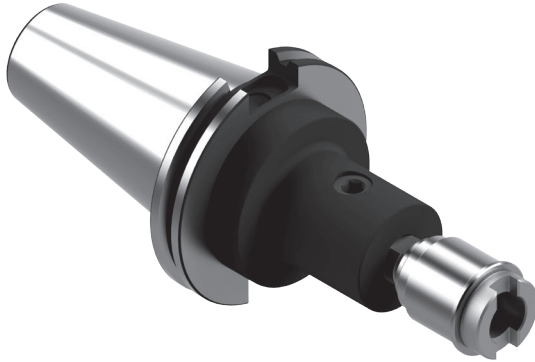
Morse Taper CT50

Standard	Part Number	F	D1	L1	L2
	C6M4-0002	#2	2.75	1.38	1.38
	C6M4-0003	#3	2.75	1.88	1.38
	C6M4-0004	#4	2.75	2.75	1.38
	C6M4-0005	#5	2.75	4.06	1.38



Rigid Tap CT50

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	402	410	413	424
OPTIONS			ACCESSORIES				

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

Rigid Tap CT50

Extra Short	Part Number	Collet #	D1	L1	L2
	C6P2-0001	#1	1.50	3.58	1.38
	C6P2-0002	#2	1.88	4.22	1.38

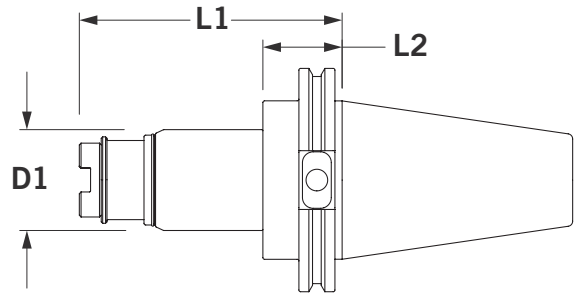
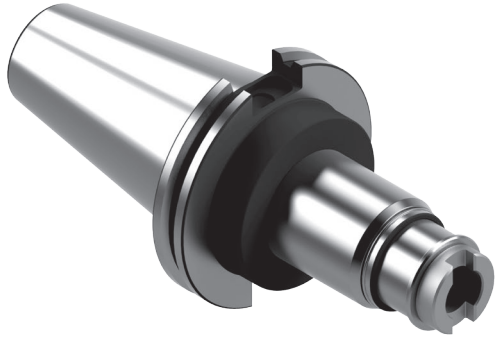


Extended	Part Number	Collet #	D1	L1	L2
	C6P5-0001	#1	1.50	5.58	1.38
	C6P5-0002	#2	1.88	6.22	1.38
	C6P5-0003	#3	3.25	8.33	1.44



Tension & Compression CT50

- ▶ Command's Tension and Compression Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	402	414	413	424
OPTIONS			ACCESSORIES				

- + Tension and Compression style has axial float for precise thread pitch.
- + Uses popular Bilz style quick change collet system.
- + Holders travel in tension 0.75", in compression 0.37".
- + L1 dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

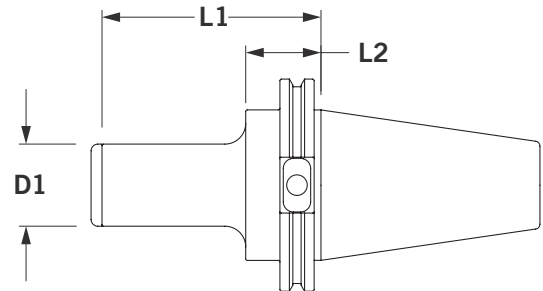
Tension & Compression CT50

Standard	Part Number	Collet #	D1	L1	L2
	C6T4-0001	#1	1.75	4.56	1.38
	C6T4-0002	#2	2.25	5.82	1.38
	C6T4-0003	#3	3.25	8.33	1.38



Semi-Flush Slitting Saw CT50

- ▶ Command's Semi-Flush Slitting Saw holders have a semi-flush nose cap for reaching tight areas and the ability to change saw width without spacers.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Face is held perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Designed for slitting saws up to 5/16" thick. For wider cutters use a Stub Arbor Holder.
- + Toolholder includes cap and drive key. Part numbers for replacements listed in toolholder part table at right.

Measurements are in inches unless noted (mm).

Semi-Flush Slitting Saw CT50

Standard	Part Number	Saw Size ID	D1	L1	L2	Cap	Drive Key
	C6G4-1000	1.00	1.50	4.00	1.38	XSFC-1000	XSSK-1000
	C6G4-1250	1.25	2.00	4.00	1.38	XSFC-1250	XSSK-1250

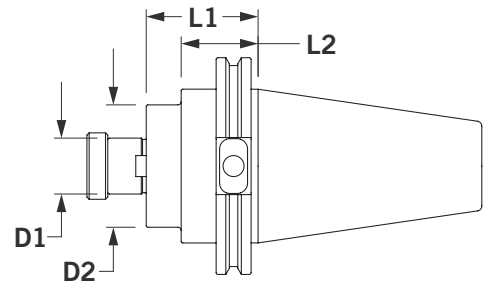
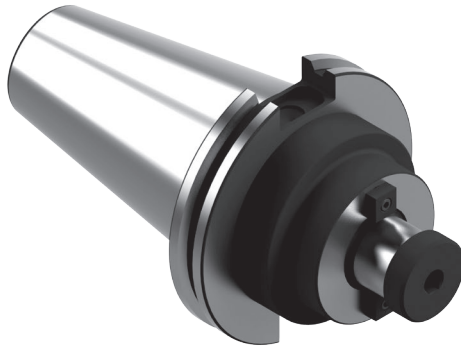


Extended	Part Number	Saw Size ID	D1	L1	L2	Cap	Drive Key
	C6G5-1000	1.00	1.50	6.00	1.38	XSFC-1000	XSSK-1000
	C6G5-1250	1.25	2.00	6.00	1.38	XSFC-1250	XSSK-1250



Shell Mill CT50

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	398	402	410	414	413	424
OPTIONS			ACCESSORIES					


- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

Shell Mill CT50

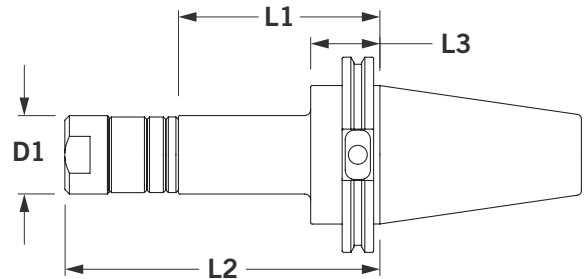
Standard	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	C6S4-0500	0.500	1.44	1.50	1.38	XSDK-0500	XSAS-0500
	C6S4-0750	0.750	1.69	1.50	1.38	XSDK-0750	XSAS-0750
	C6S4-1000	1.000	2.19	2.00	1.38	XSDK-1000	XSAS-1000
	C6S4-1250	1.250	2.75	1.50	N/A	XSDK-1250	XSAS-1250
	C6S4-1500	1.500	3.81	2.50	1.44	XSDK-1500	XSAS-1500
	C6S4-2000	2.000	4.88	3.00	1.44	XSDK-2000	XSAS-2000
	C6S4-2500	2.500	4.88	2.40	1.44	XSDK-2500	XSAS-2500


Extended	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	C6S5-0500	0.500	1.44	3.50	1.38	XSDK-0500	XSAS-0500
	C6S5-0750	0.750	1.69	3.50	1.38	XSDK-0750	XSAS-0750
	C6S5-1000	1.000	2.19	4.00	1.38	XSDK-1000	XSAS-1000
	C6S5-1250	1.250	2.75	3.50	N/A	XSDK-1250	XSAS-1250
	C6S5-1500	1.500	3.81	4.00	1.44	XSDK-1500	XSAS-1500
	C6S5-2000	2.000	4.88	4.00	1.44	XSDK-2000	XSAS-2000
	C6S5-2500	2.500	4.88	4.00	1.44	XSDK-2500	XSAS-2500

Extra Extended	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	C6S6-0500	0.500	1.44	5.50	1.38	XSDK-0500	XSAS-0500
	C6S6-0750	0.750	1.69	5.50	1.38	XSDK-0750	XSAS-0750
	C6S6-1000	1.000	2.19	6.00	1.38	XSDK-1000	XSAS-1000
	C6S6-1250	1.250	2.75	5.50	N/A	XSDK-1250	XSAS-1250
	C6S6-1500	1.500	3.81	6.00	1.44	XSDK-1500	XSAS-1500
	C6S6-2000	2.000	4.88	6.00	1.44	XSDK-2000	XSAS-2000

Stub Arbor CT50

- ▶ Command's Stub Arbor holders have a pilot diameter that is sized for a precise fit with the cutter and is keyed for positive drive.





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	 TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Pilot thread is ground concentric to the tapered shank.
- + Face is perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Heavy duty locking nut and three arbor spacers are included - 1/4", 3/8", 3/4". Also listed in table at right.


Measurements are in inches unless noted (mm).

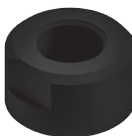
Stub Arbor CT50


Standard	Part Number	Cutter Size ID	D1	L1	L2	L3
	C6F4-1000	1.00	1.56	4.00	6.25	1.38
	C6F4-1250	1.25	1.87	4.00	6.50	1.38

Extended	Part Number	Cutter Size ID	D1	L1	L2	L3
	C6F5-1000	1.00	1.56	6.00	8.25	1.38
	C6F5-1250	1.25	1.87	6.00	8.50	1.38

Stub Arbor Replacement parts

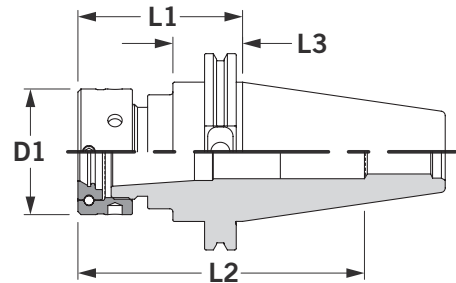
Replacement Key	Part Number	Description
	XKEY-1000	Key for 1.00 with 1/4" Square Key
	XKEY-1250	Key for 1.25 with 5/16" Square Key

Replacement Nuts	Part Number	Description
	XSAN-1000	Nut for 1.00
	XSAN-1250	Nut for 1.25

Replacement Spacer	Part Number	Description
	X100-0250	1/4" Spacer for 1.00
	X100-0375	3/8" Spacer for 1.00
	X100-0750	3/4" Spacer for 1.00
	X125-0250	1/4" Spacer for 1.25
	X125-0375	3/8" Spacer for 1.25
	X125-0750	3/4" Spacer for 1.25

TG100 Comflex® CT50

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® CT50

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C3-1000	TG100	2.48	2.75	4.47	1.38	XCCW-1000	XCCS-1816



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C4-1000	TG100	2.48	3.25	5.00	1.38	XCCW-1000	XCCS-1816



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C5-1000	TG100	2.48	5.25	6.84	1.38	XCCW-1000	XCCS-1816

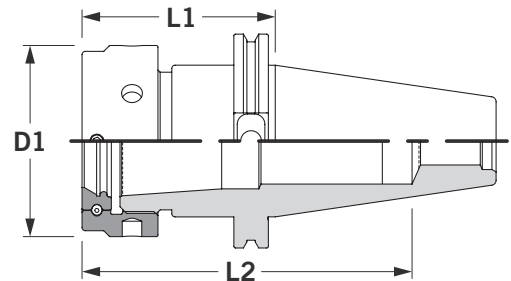
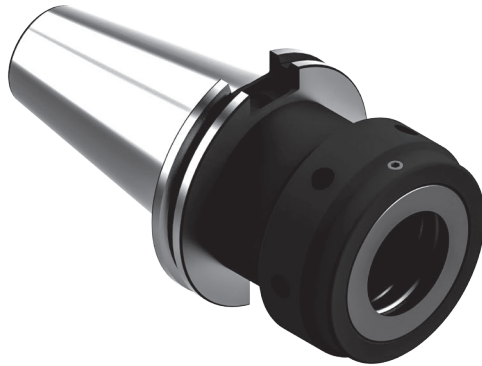


Extra Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C6-1000	TG100	2.48	7.25	7.00	1.38	XCCW-1000	XCCS-1816



TG150 Comflex® CT50

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™						TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	338	362	386	386	386	402	410	414	413	424	
OPTIONS			ACCESSORIES										

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® CT50

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C4-1500	TG150	3.46	3.50	5.29	N/A	XCCW-1500	XCCS-2612



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C5-1500	TG150	3.46	5.54	7.00	N/A	XCCW-1500	XCCS-2612



Extra Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	C6C6-1500	TG150	3.46	7.50	7.00	N/A	XCCW-1500	XCCS-2612



BT30 Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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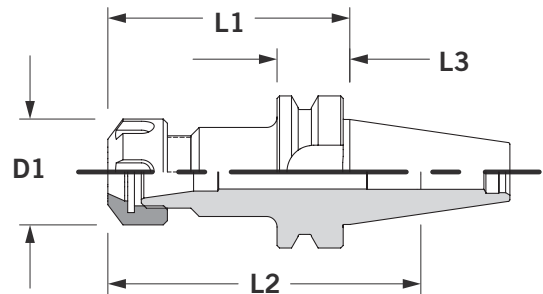
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® BT30

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™				TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	296	354	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

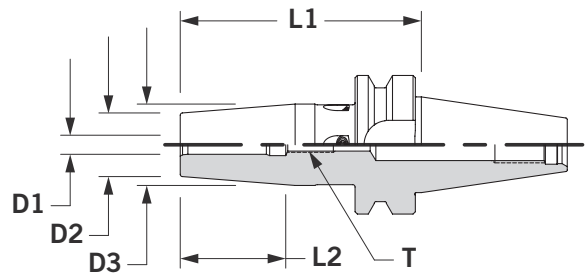
ER Micro Precision® BT30

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B2C3-0016	ER16	1.26	2.00	2.85	0.87	XCCW-D016	XCCS-0720
	B2C3-0020	ER20	1.38	2.00	2.84	0.87	XCCW-D020	XCCS-1415
	B2C3-0032	ER32	1.97	2.15	2.99	0.87	XCCW-D032	XCCS-2215

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B2C4-0011	ER11	0.63	3.00	3.85	0.87	XCCW-D011	-
	B2C4-0016	ER16	1.26	2.88	3.73	0.87	XCCW-D016	XCCS-0720
	B2C4-0020	ER20	1.38	3.00	3.85	0.87	XCCW-D020	XCCS-1415
	B2C4-0032	ER32	1.97	3.00	3.85	0.87	XCCW-D032	XCCS-2215

HP ThermoLock® BT30

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.




BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	354	402	410	414	413	424
OPTIONS			ACCESSORIES					


- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® BT30 Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	B2L3-0125	0.125	0.39	-	3.15	-	-
	B2L3-0187	0.187	0.39	-	3.15	-	-
	B2L3-0250	0.250	0.83	1.06	3.15	1.38	M5 X 1
	B2L3-0312	0.312	0.83	1.06	3.15	1.38	M6 X 1
	B2L3-0375	0.375	0.94	1.26	3.15	1.57	M8 X 1
	B2L3-0437	0.437	0.94	1.26	3.15	1.57	M8 X 1
	B2L3-0500	0.500	0.94	1.26	3.15	1.77	M10 X 1
	B2L3-0625	0.625	1.06	1.34	3.15	1.77	M12 X 1
	B2L3-0750	0.750	1.30	1.65	3.93	2.17	M16 X 1

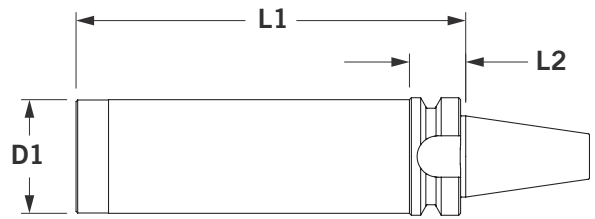
HP ThermoLock® BT30 Metric


Stub	Part Number	D1	D2	D3	L1	L2	T
	B2L3-8003	3mm	10mm	-	80mm	-	-
	B2L3-8004	4mm	10mm	-	80mm	-	-
	B2L3-8005	5mm	10mm	-	80mm	-	-
	B2L3-8006	6mm	21mm	27mm	80mm	35mm	M5 X 1
	B2L3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1
	B2L3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1
	B2L3-8012	12mm	24mm	32mm	80mm	40mm	M8 X 1
	B2L3-8014	14mm	27mm	34mm	80mm	45mm	M10 X 1
	B2L3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1
	B2L3-8020	20mm	33mm	42mm	90mm	55mm	M16 X 1

BT30 Collet Chucks // HP ThermoLock®

Blank Bars BT30

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars



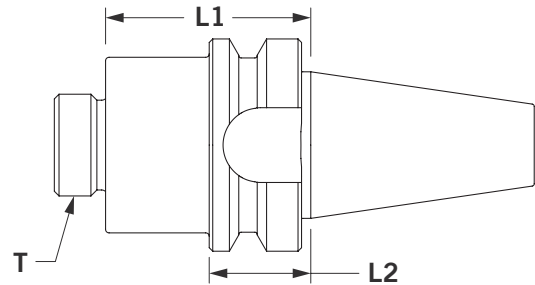
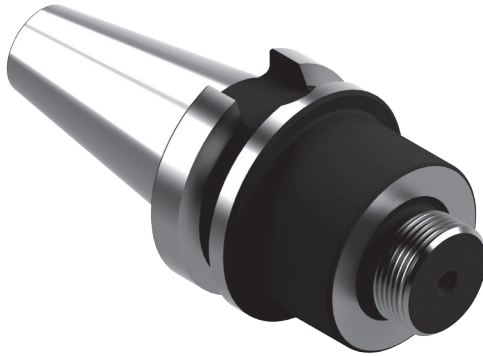
Blank Bars BT30

Stub	Part Number	D1	L1	L2
	B2X3-0002	1.750	6.00	0.85



Boring Head BT30

- ▶ Command's Boring Head holders are compatible with a variety of popular boring heads including Erickson, SPI, Yuasa and Criterion.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement—less scrap.
- + Full ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship. Get your tools fast!

Measurements are in inches unless noted (mm).

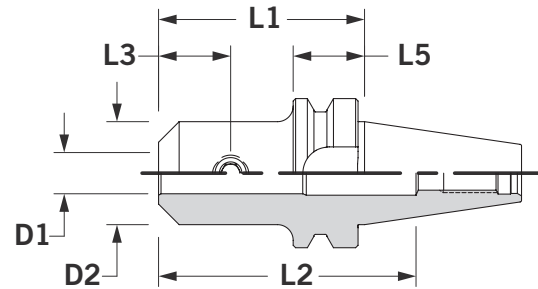
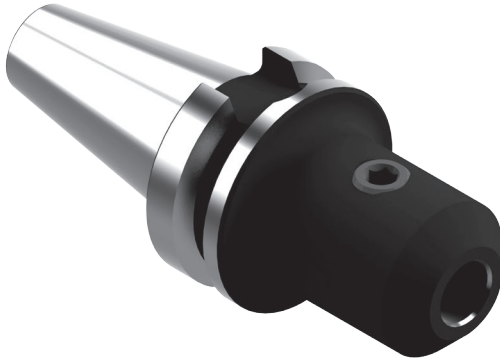
Boring Head BT30

Shorty	Part Number	T	L1	L2	Boring Heads
	B2H4-1018	5/8-18	1.75	0.87	Erickson #37 & #50
	B2H4-1420	7/8-20	1.75	0.87	SPI, Yuasa & Criterion



End Mill BT30

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!




BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	413	424
OPTIONS		ACCESSORIES					

- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

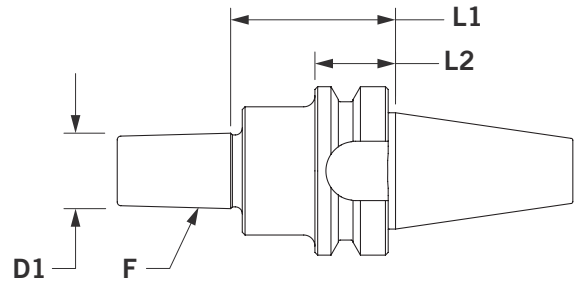
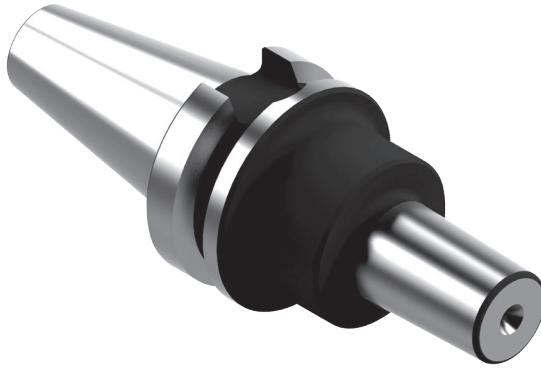
Measurements are in inches unless noted (mm).

End Mill BT30

Standard	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	B2E4-0125	0.125	0.69	2.50	3.4	0.28	-	0.87	XEML-0232
	B2E4-0187	0.187	0.69	2.50	3.4	0.41	-	0.87	XEML-0332
	B2E4-0250	0.250	0.78	2.50	3.4	0.53	-	0.87	XEML-0428
	B2E4-0312	0.312	0.88	2.50	3.4	0.66	-	0.87	XEML-0524
	B2E4-0375	0.375	1.00	2.50	3.4	0.75	-	0.87	XEML-0624
	B2E4-0437	0.437	1.13	2.50	2.0	0.81	-	0.87	XEML-0624
	B2E4-0500	0.500	1.25	2.50	3.1	0.88	-	0.87	XEML-0720
	B2E4-0562	0.562	1.38	2.50	3.0	0.91	-	0.87	XEML-0720
	B2E4-0625	0.625	1.50	2.75	3.6	0.94	-	0.87	XEML-0820
	B2E4-0750	0.750	1.75	3.00	3.6	1.00	-	0.87	XEML-1018

Jacobs Taper BT30

- Jacobs Taper holders accommodate a range of drill sizes using a single drill chuck making them economical for any typical drilling application.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Precision ground Jacobs pilot.
- + Not for high speed use.
- + Jacobs Taper held to better than 0.0002" accuracy for best mating with the drill chuck.
- + For proper assembly, clean before use. Clean and degrease both I.D. and O.D. of Jacobs holder.

Measurements are in inches unless noted (mm).

Jacobs Taper BT30

Standard	Part Number	F	D1	L1	L2
	B2J4-0001	#1	0.384	1.18	0.87
	B2J4-0033	#33	0.624	1.77	0.87



Jacobs Taper Chucks

Keyless Chuck	Part Number	Model	Capacity	Taper
	X650-J100	65J1	0 - 1/4	#1
	X800-J200	80J2	0 - 5/16	#2
	X100-J330	100J33	0 - 3/8	#33
	X130-J200	130J2	1/32 - 1/2	#2

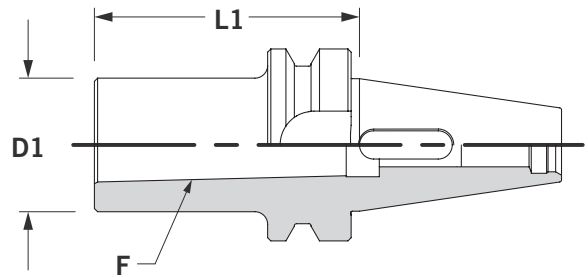
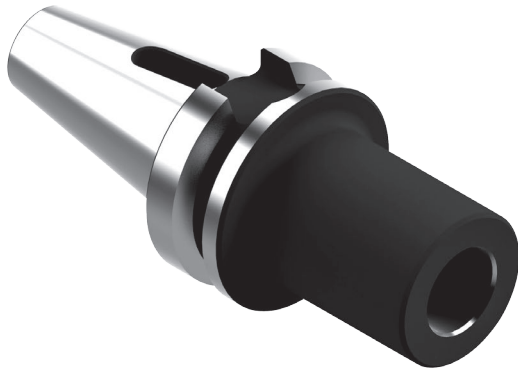


Ball Bearing Key Type Super Chuck	Part Number	Model	Capacity	Taper	Replacement Chuck Key
	X11N-J200	11N	0 - 3/8	#2	XK32-J000
	X14N-J300	14N	0 - 1/2	#3	XK30-J000
	X16N-J300	16N	1/8 - 5/8	#3	XK40-J000
	X18N-J400	18N	1/8 - 3/4	#4	XK40-J000



Morse Taper BT30

- ▶ Command's precision ground Morse Taper holders have a taper pocket held to a 0.0002" accuracy for the best locking fit of the Morse Shank.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Must be cleaned before use and degreased for proper assembly.
- + AT3 or better shank taper. Accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement to minimize scrap.
- + Fully ground flange and V-groove that is easy on the tool changers minimizing spindle and changer maintenance.
- + Not for high speed use.

Measurements are in inches unless noted (mm).

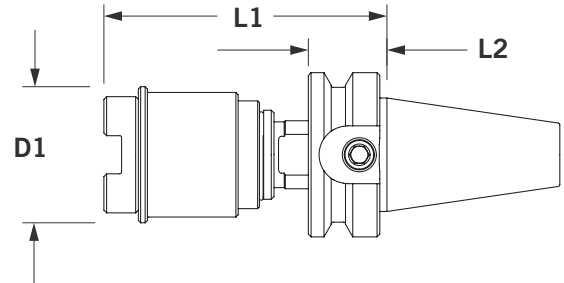
Morse Taper BT30

Standard	Part Number	F	D1	L1	L2
	B2M4-0002	#2	1.26	2.50	0.87



Rigid Tap BT30

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	356	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

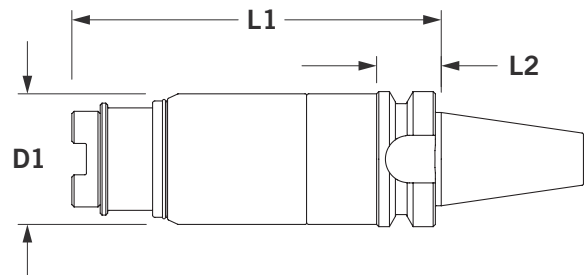
Rigid Tap BT30

Extra Short	Part Number	Collet #	D1	L1	L2
	B2P2-0001	#1	1.50	3.07	0.87



Tension & Compression BT30

- ▶ Command's Tension and Compression Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	356	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Tension and Compression style has axial float for precise thread pitch.
- + Uses popular Bilz style quick change collet system.
- + Holders travel in tension 0.75", in compression 0.37".
- + L1 dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

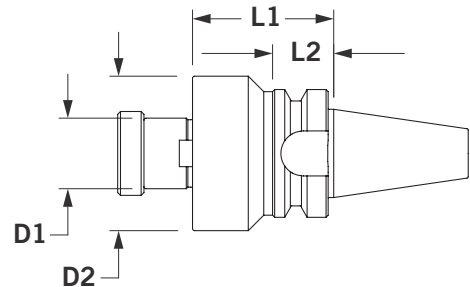
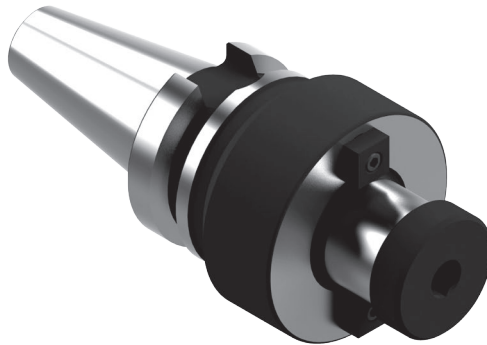
Tension & Compression BT30

Standard	Part Number	Collet #	D1	L1	L2
	B2T4-0001	#1	1.75	4.95	0.87



Shell Mill BT30

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	398	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

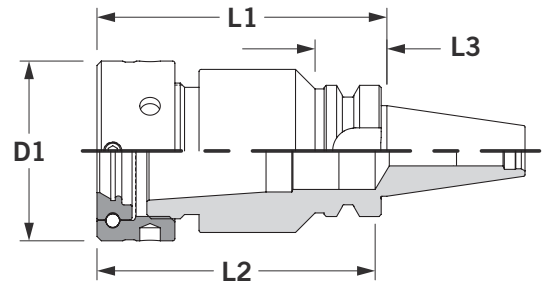
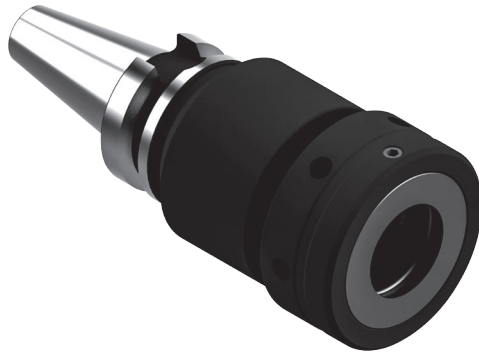
Shell Mill BT30

Standard	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	B2S4-0750	0.750	1.69	1.75	0.87	XSDK-0750	XSAS-0750
	B2S4-1000	1.000	2.19	2.00	0.87	XSDK-1000	XSAS-1000



TG100 Comflex® BT30

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.

- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® BT30

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B2C4-1000	TG100	2.48	4.00	3.15	0.87	XCCW-1000	XCCS-1816



BT40 Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.

<p>128-129</p>  <p>ER Micro Precision®</p>	<p>130-133</p>  <p>Standard ThermoLock®</p>	<p>134-137</p>  <p>HP ThermoLock®</p>	<p>138-139</p>  <p>Blank Bars</p>
<p>140-141</p>  <p>Boring Head</p>	<p>142-143</p>  <p>End Mill</p>	<p>144-145</p>  <p>Integral Shank</p>	<p>146-147</p>  <p>Jacobs Taper</p>
<p>148-149</p>  <p>Morse Taper</p>	<p>150-151</p>  <p>Rigid Tap</p>	<p>152-153</p>  <p>Tension & Compression</p>	<p>154-155</p>  <p>Slitting Saw</p>
<p>156-157</p>  <p>Shell Mill</p>	<p>158-159</p>  <p>Stub Arbor</p>	<p>160-161</p>  <p>TG100 Complex®</p>	<p>162-163</p>  <p>TG150 Complex®</p>
<p>316-451</p>  <p>Accessories</p>			

► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

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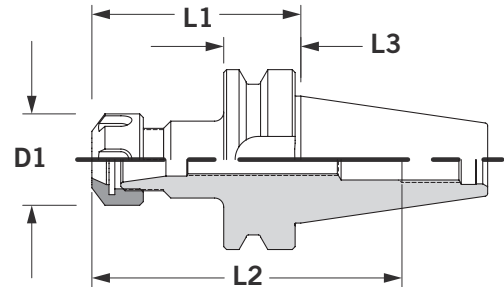
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® BT40

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™				TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	296	354	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + ER32 shorty collet chucks use ER32 collets made to precise specifications for tool shank sizes 0.079-0.787" (2.0mm-20.0mm).
- + ER32 shorty collet chucks have the shortest gage length with recessed collet nut design. No stop screws, no safe area.
- + ER32 shorty collet chucks do not meet the safe zone dimensions of ANSI B5.50 1994 and may not work on all tool change mechanisms.
- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® BT40

Shorty	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C1-0032	ER32	1.97	1.06	2.46	1.06	XCCW-D032	XCCS-2215



Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C3-0020	ER20	1.38	2.20	3.59	1.06	XCCW-D020	XCCS-1415
	B4C3-0025	ER25	1.64	2.50	3.89	1.06	XCCW-D025	XCCS-1815
	B4C3-0032	ER32	1.97	2.40	3.75	1.06	XCCW-D032	XCCS-2215
	B4C3-0040	ER40	2.48	2.75	4.14	1.06	XCCW-0040	XCCS-1816



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C4-0011	ER11	0.63	3.00	4.39	1.06	XCCW-D011	-
	B4C4-0016	ER16	1.26	2.88	4.27	1.06	XCCW-D016	XCCS-0720
	B4C4-0020	ER20	1.38	4.00	5.39	1.06	XCCW-D020	XCCS-1415
	B4C4-0025	ER25	1.64	4.00	4.97	1.06	XCCW-D025	XCCS-1815
	B4C4-0032	ER32	1.97	4.00	5.20	1.06	XCCW-D032	XCCS-2215
	B4C4-0040	ER40	2.48	4.00	4.59	1.06	XCCW-0040	XCCS-1816



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C5-0016	ER16	1.26	4.88	6.27	1.06	XCCW-D016	XCCS-0720
	B4C5-0020	ER20	1.38	6.00	7.39	1.06	XCCW-D020	XCCS-1415
	B4C5-0025	ER25	1.64	6.00	7.39	1.06	XCCW-D025	XCCS-1815
	B4C5-0032	ER32	1.97	6.00	7.39	1.06	XCCW-D032	XCCS-2215
	B4C5-0040	ER40	2.48	6.00	7.39	1.06	XCCW-0040	XCCS-1816

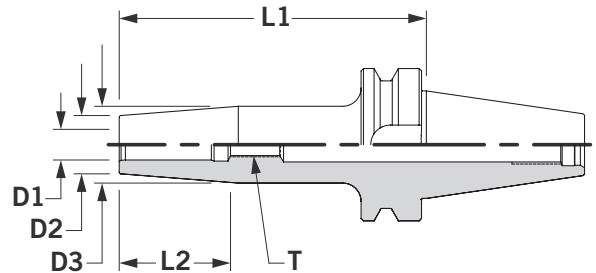


Oversized	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4K5-0020	ER20	1.38	6.00	7.39	1.06	XCCW-D020	XCCS-1415
	B4K5-0032	ER32	1.97	6.00	7.39	1.06	XCCW-D032	XCCS-2215



Standard ThermoLock® BT40

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).




Standard ThermoLock® BT40 Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	B4Y3-0250	0.250	0.79	1.00	3.13	1.38	M5 X 1
	B4Y3-0312	0.312	0.79	1.00	3.13	1.38	M6 X 1
	B4Y3-0375	0.375	0.79	1.00	3.13	1.57	M8 X 1
	B4Y3-0437	0.437	0.94	1.25	3.13	1.57	M8 X 1
	B4Y3-0500	0.500	0.94	1.25	3.13	1.77	M10 X 1
	B4Y3-0562	0.562	1.06	1.38	3.38	1.77	M10 X 1
	B4Y3-0625	0.625	1.06	1.38	3.38	1.77	M12 X 1
	B4Y3-0750	0.750	1.30	1.63	3.38	2.17	M16 X 1
	B4Y3-1000	1.000	1.73	2.09	3.38	2.17	M16 X 1
	B4Y3-1250	1.250	1.73	2.09	3.38	2.17	M16 X 1
Standard	Part Number	D1	D2	D3	L1	L2	T
	B4Y4-0250	0.250	0.79	1.00	5.00	1.38	M5 X 1
	B4Y4-0312	0.312	0.79	1.00	5.00	1.38	M6 X 1
	B4Y4-0375	0.375	0.79	1.00	5.00	1.57	M8 X 1
	B4Y4-0437	0.437	0.94	1.25	5.00	1.57	M8 X 1
	B4Y4-0500	0.500	0.94	1.25	5.00	1.77	M10 X 1
	B4Y4-0625	0.562	1.06	1.38	5.00	1.77	M10 X 1
	B4Y4-0750	0.625	1.06	1.38	5.00	1.77	M12 X 1
	B4Y4-0875	0.750	1.30	1.63	5.00	2.17	M16 X 1
	B4Y4-1000	1.000	1.73	2.09	5.00	2.17	M16 X 1
	B4Y4-1250	1.250	1.73	2.09	5.00	2.17	M16 X 1
Extended	Part Number	D1	D2	D3	L1	L2	T
	B4Y5-0250	0.250	0.79	1.00	7.00	1.38	M5 X 1
	B4Y5-0312	0.312	0.79	1.00	7.00	1.38	M6 X 1
	B4Y5-0375	0.375	0.79	1.00	7.00	1.57	M8 X 1
	B4Y5-0437	0.437	0.94	1.25	7.00	1.57	M8 X 1
	B4Y5-0500	0.500	0.94	1.25	7.00	1.77	M10 X 1
	B4Y5-0562	0.562	1.06	1.38	7.00	1.77	M10 X 1
	B4Y5-0625	0.625	1.06	1.38	7.00	1.77	M12 X 1
	B4Y5-0750	0.750	1.30	1.63	7.00	2.17	M16 X 1
	B4Y5-1000	1.000	1.73	2.09	7.00	2.17	M16 X 1
	B4Y5-1250	1.250	1.73	2.09	7.00	2.17	M16 X 1

BT40 Collet Chucks // Standard ThermoLock®

Standard ThermoLock® BT40 Metric

BT40 Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	B4Y3-8008	8mm	21mm	27mm	90mm	35mm	M6 X 1	
	B4Y3-8010	10mm	24mm	32mm	90mm	40mm	M8 X 1	
	B4Y3-8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	B4Y3-8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	B4Y3-8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
	B4Y3-8018	18mm	33mm	42mm	90mm	55mm	M16 X 1	
	B4Y3-8020	20mm	33mm	42mm	90mm	55mm	M16 X 1	
	B4Y3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	B4Y3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	B4Y4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	B4Y4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	B4Y4-8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	B4Y4-8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	B4Y4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	B4Y4-8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	B4Y4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	B4Y4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1	
	B4Y4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	B4Y5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	B4Y5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	B4Y5-8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	B4Y5-8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	B4Y5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	B4Y5-8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	B4Y5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	B4Y5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	B4Y5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

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Models & Dimensions

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Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 3425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

View Product Types

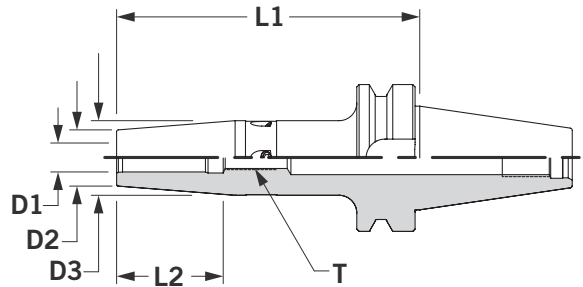
Swiss Live Tooling for Star and Citizen

All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

HP ThermoLock® BT40

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® BT40 Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	B4L3-0125	0.125	0.39	-	3.54	-	-
	B4L3-0187	0.187	0.39	-	3.54	-	-
	B4L3-0250	0.250	0.83	1.06	3.54	1.38	M5 X 1
	B4L3-0312	0.312	0.83	1.06	3.54	1.38	M6 X 1
	B4L3-0375	0.375	0.94	1.26	3.54	1.57	M8 X 1
	B4L3-0437	0.437	0.94	1.26	3.54	1.57	M8 X 1
	B4L3-0500	0.500	0.94	1.26	3.54	1.77	M10 X 1
	B4L3-0625	0.625	1.06	1.34	3.54	1.77	M12 X 1
	B4L3-0750	0.750	1.30	1.65	3.54	2.17	M16 X 1
	B4L3-0875	0.875	1.30	1.65	3.54	2.17	M16 X 1
	B4L3-1000	1.000	1.73	2.09	3.93	2.17	M16 X 1
B4L3-1250	1.250	1.73	2.09	3.93	2.17	M16 X 1	
Standard	Part Number	D1	D2	D3	L1	L2	T
	B4L4-0250	0.250	0.83	1.06	5.12	1.38	M5 X 1
	B4L4-0312	0.312	0.83	1.06	5.12	1.38	M6 X 1
	B4L4-0375	0.375	0.94	1.26	5.12	1.57	M8 X 1
	B4L4-0437	0.437	0.94	1.26	5.12	1.57	M8 X 1
	B4L4-0500	0.500	0.94	1.26	5.12	1.77	M10 X 1
	B4L4-0625	0.625	1.06	1.34	5.12	1.77	M12 X 1
	B4L4-0750	0.750	1.30	1.65	5.12	2.17	M16 X 1
	B4L4-0875	0.875	1.30	1.65	5.12	2.17	M16 X 1
	B4L4-1000	1.000	1.73	2.09	5.12	2.17	M16 X 1
	B4L4-1250	1.250	1.73	2.09	5.12	2.17	M16 X 1
	Extended	Part Number	D1	D2	D3	L1	L2
	B4L5-0250	0.250	0.83	1.06	6.30	1.38	M5 X 1
	B4L5-0312	0.312	0.83	1.06	6.30	1.38	M6 X 1
	B4L5-0375	0.375	0.94	1.26	6.30	1.57	M8 X 1
	B4L5-0437	0.437	0.94	1.26	6.30	1.57	M8 X 1
	B4L5-0500	0.500	0.94	1.26	6.30	1.77	M10 X 1
	B4L5-0625	0.625	1.06	1.34	6.30	1.77	M12 X 1
	B4L5-0750	0.750	1.30	1.65	6.30	2.17	M16 X 1
	B4L5-0875	0.875	1.30	1.65	6.30	2.17	M16 X 1
	B4L5-1000	1.000	1.73	2.09	6.30	2.17	M16 X 1
	B4L5-1250	1.250	1.73	2.09	6.30	2.17	M16 X 1
	Extra Extended	Part Number	D1	D2	D3	L1	L2
	B4L6-0250	0.250	0.83	1.06	7.48	1.38	M5 X 1
	B4L6-0312	0.312	0.83	1.06	7.48	1.38	M6 X 1
	B4L6-0375	0.375	0.94	1.26	7.48	1.57	M8 X 1
	B4L6-0437	0.437	0.94	1.26	7.48	1.57	M8 X 1
	B4L6-0500	0.500	0.94	1.26	7.48	1.77	M10 X 1
	B4L6-0625	0.625	1.06	1.34	7.48	1.77	M12 X 1
	B4L6-0750	0.750	1.30	1.65	7.48	2.17	M16 X 1
	B4L6-0875	0.875	1.30	1.65	7.48	2.17	M16 X 1
	B4L6-1000	1.000	1.73	2.09	7.48	2.17	M16 X 1
	B4L6-1250	1.250	1.73	2.09	7.48	2.17	M16 X 1

BT40 Collet Chucks // HP ThermoLock®

HP ThermoLock® BT40 Metric

BT40 Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
		B4L3-8003	3mm	10mm	-	80mm	-	-
		B4L3-8004	4mm	10mm	-	80mm	-	-
		B4L3-8005	5mm	10mm	-	80mm	-	-
		B4L3-8006	6mm	21mm	27mm	80mm	35mm	M5 X 1
		B4L3-8008	8mm	21mm	27mm	80mm	35mm	M6 X 1
		B4L3-8010	10mm	24mm	32mm	80mm	40mm	M8 X 1
		B4L3-8012	12mm	24mm	32mm	80mm	40mm	M8 X 1
		B4L3-8014	14mm	27mm	34mm	80mm	45mm	M10 X 1
		B4L3-8016	16mm	27mm	34mm	80mm	45mm	M12 X 1
		B4L3-8020	20mm	33mm	42mm	80mm	55mm	M16 X 1
		B4L3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1
		B4L3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1
Standard		Part Number	D1	D2	D3	L1	L2	T
		B4L4-8006	6mm	21mm	27mm	130mm	35mm	M5 X 1
		B4L4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1
		B4L4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1
		B4L4-8012	12mm	24mm	32mm	130mm	40mm	M8 X 1
		B4L4-8014	14mm	27mm	34mm	130mm	45mm	M10 X 1
		B4L4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1
		B4L4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1
		B4L4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1
		B4L4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1
	Extended		Part Number	D1	D2	D3	L1	L2
		B4L5-8006	6mm	21mm	27mm	160mm	35mm	M5 X 1
		B4L5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1
		B4L5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1
		B4L5-8012	12mm	24mm	32mm	160mm	40mm	M8 X 1
		B4L5-8014	14mm	27mm	34mm	160mm	45mm	M10 X 1
		B4L5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1
		B4L5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1
		B4L5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1
		B4L5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1
Extra Extended		Part Number	D1	D2	D3	L1	L2	T
		B4L6-8006	6mm	21mm	27mm	190mm	35mm	M5 X 1
		B4L6-8008	8mm	21mm	27mm	190mm	35mm	M6 X 1
		B4L6-8010	10mm	24mm	32mm	190mm	40mm	M8 X 1
		B4L6-8012	12mm	24mm	32mm	190mm	40mm	M8 X 1
		B4L6-8014	14mm	27mm	34mm	190mm	45mm	M10 X 1
		B4L6-8016	16mm	27mm	34mm	190mm	45mm	M12 X 1
		B4L6-8020	20mm	33mm	42mm	190mm	55mm	M16 X 1
		B4L6-8025	25mm	44mm	53mm	190mm	55mm	M16 X 1
		B4L6-8032	32mm	44mm	53mm	190mm	55mm	M16 X 1

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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Swiss Live Tooling for Star and Citizen

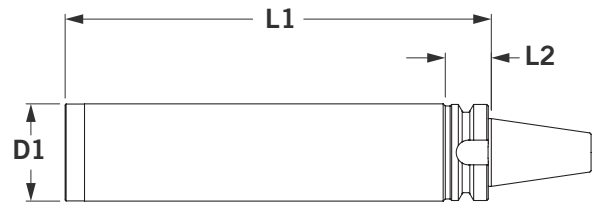
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- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

View Products

Blank Bars BT40

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars BT40

Stub	Part Number	D1	L1	L2
	B4X3-0004	2.500	6.00	1.06

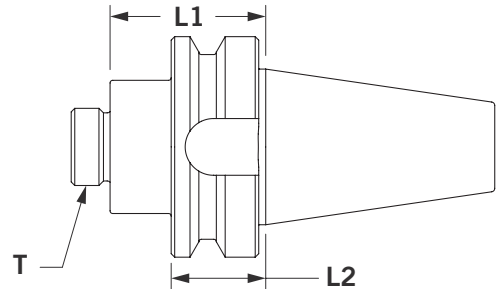
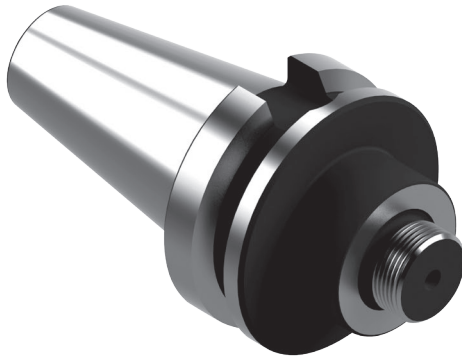


Standard	Part Number	D1	L1	L2
	B4X4-0004	2.500	11.00	1.06



Boring Head BT40

- ▶ Command's Boring Head holders are compatible with a variety of popular boring heads including Erickson, SPI, Yuasa and Criterion.



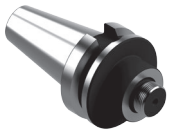
BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement—less scrap.
- + Full ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship. Get your tools fast!

Measurements are in inches unless noted (mm).

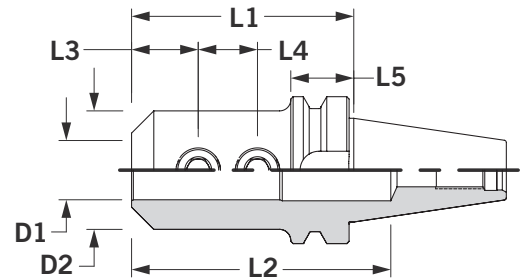
Boring Head BT40

Shorty	Part Number	T	L1	L2	Boring Heads
	B4H4-1018	5/8-18	1.75	1.06	Erickson #37 & #50
	B4H4-1420	7/8-20	1.75	1.06	SPI, Yuasa & Criterion
	B4H4-2418	1 1/2-8	1.75	1.06	SPI, Yuasa & Criterion



End Mill BT40

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!




BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	15	354	397	402	410	414	413	424
OPTIONS		ACCESSORIES						


- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.


Measurements are in inches unless noted (mm).


End Mill BT40

BT40 Collet Chucks // End Mill Collet Chucks

Stub	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	B4E3-0500	0.500	1.25	1.25	2.6	0.80	-	1.06	XEML-0720
	B4E3-0625	0.625	1.50	1.38	2.0	0.94	-	1.06	XEML-0820
	B4E3-0750	0.750	1.75	1.44	2.5	1.00	-	1.06	XEML-1018
	B4E3-1000	1.000	2.00	2.50	2.5	1.13	-	1.06	XEML-1216
	B4E3-1250	1.250	2.49	2.50	2.4	1.13	-	1.06	XEML-1216

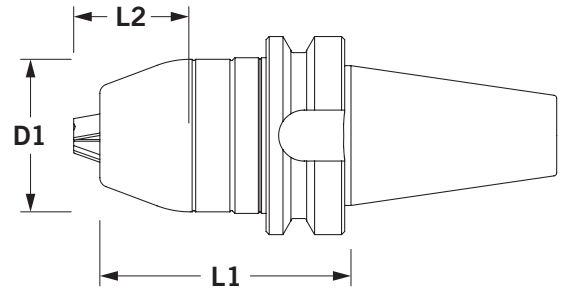
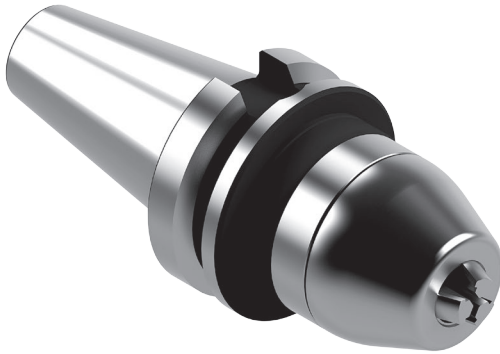
Standard	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	B4E4-0125	0.125	0.69	2.50	3.8	0.28	-	1.06	XEML-0232
	B4E4-0187	0.187	0.69	2.50	3.8	0.41	-	1.06	XEML-0332
	B4E4-0250	0.250	0.78	2.50	3.8	0.53	-	1.06	XEML-0428
	B4E4-0312	0.312	0.88	2.50	3.8	0.66	-	1.06	XEML-0524
	B4E4-0375	0.375	1.00	2.50	3.8	0.75	-	1.06	XEML-0624
	B4E4-0437	0.437	1.13	2.50	3.8	0.81	-	1.06	XEML-0624
	B4E4-0500	0.500	1.25	2.50	3.8	0.88	-	1.06	XEML-0720
	B4E4-0562	0.562	1.38	2.50	3.0	0.91	-	1.06	XEML-0720
	B4E4-0625	0.625	1.50	2.50	3.6	0.94	-	1.06	XEML-0820
	B4E4-0750	0.750	1.75	2.50	3.9	1.00	-	1.06	XEML-1018
	B4E4-0875	0.875	1.88	3.50	4.2	1.00	-	1.06	XEML-1018
	B4E4-1000	1.000	2.00	3.75	4.4	1.13	1.00	1.06	XEML-1216
	B4E4-1250	1.250	2.50	3.75	4.0	1.13	1.00	1.06	XEML-1216
	B4E4-1500	1.500	2.50	4.25	2.6	1.13	1.00	1.06	XEML-1216


Extended	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	B4E5-0125	0.125	0.69	4.00	5.3	0.38	-	1.06	XEML-0232
	B4E5-0187	0.187	0.69	4.00	5.3	0.56	-	1.06	XEML-0332
	B4E5-0250	0.250	0.78	4.00	5.3	0.63	-	1.06	XEML-0428
	B4E5-0375	0.375	1.00	4.00	5.3	0.69	-	1.06	XEML-0624
	B4E5-0500	0.500	1.25	4.00	3.9	0.75	-	1.06	XEML-0720
	B4E5-0562	0.562	1.38	4.00	3.9	0.88	-	1.06	XEML-0720
	B4E5-0625	0.625	1.50	4.00	3.6	0.94	-	1.06	XEML-0820
	B4E5-0750	0.750	1.75	4.00	3.9	1.00	-	1.06	XEML-1018
	B4E5-0875	0.875	1.88	5.00	4.2	1.00	-	1.06	XEML-1018
	B4E5-1000	1.000	2.00	5.00	4.4	1.13	1.00	1.06	XEML-1216
B4E5-1250	1.250	2.50	5.00	4.0	1.13	1.00	1.06	XEML-1216	

Oversized	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	B4K5-0375	0.375	1.00	6.00	7.3	0.75	-	1.06	XEML-0624
	B4K5-0500	0.500	1.25	6.00	7.3	0.88	-	1.06	XEML-0720
	B4K5-0625	0.625	1.50	6.00	3.6	0.94	-	1.06	XEML-0820
	B4K5-0750	0.750	1.75	6.00	3.9	1.00	-	1.06	XEML-1018

Integral Shank Keyless Chuck BT40

- ▶ Integral Shank Keyless Chuck toolholders are designed for free directional rotation with no loss of gripping force due to change in direction of spindle rotation. Integral Shank Keyless Chuck tool holders also have a higher metal removal capacity than conventional taper/drill chucks.



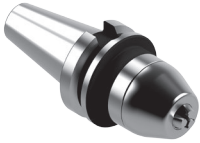
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5	15	402	410	414	413	424
OPTIONS		ACCESSORIES				

- + Maximum 0.0006" T.I.R. at 1.5" from the end of the holder.
- + Tight grip ensured with worm drive lateral clamping, even when spindles stop or change rotation.
- + Performs at higher speeds (up to 10,000 RPM) than conventional taper/drill chucks.
- + Cost effective performance, reliable, maintenance-free holders with replaceable parts.
- + Compatible with solid carbide or high speed steel round shank tools (no flats).
- + Fast tool change for milling, drilling, reaming, or countersinking.
- + Longer tool life for end mills, drills, thread mills, reamers.
- + Short, compact design with AT3 or better shank taper; coolant through capability.
- + Tool installation wrench (4mm) included.
- + Available in shiny shank only—no black oxide.

Measurements are in inches unless noted (mm).

Integral Shank Keyless Chuck BT40

Standard	Part Number	Description	D1	L1	L2	Holding Torque (ft-lbs)
	B4J4-X130	0.020 - 0.512 (.5 - 13 mm)	1.949	4.33	1.14	51



Integral Shank Keyless Chuck Accessories

Wrench	Part Number	Description
	XJCW-04MM	Replacement Hex Wrench (4mm)



Key	Part Number	Description
	XJSK-0001	Coolant Seal Key

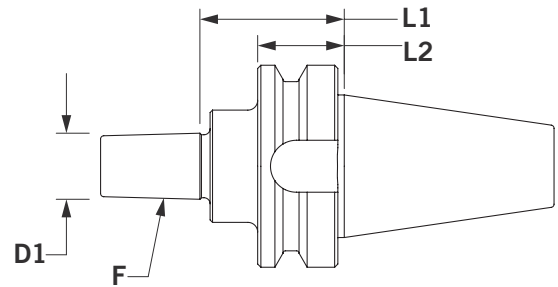
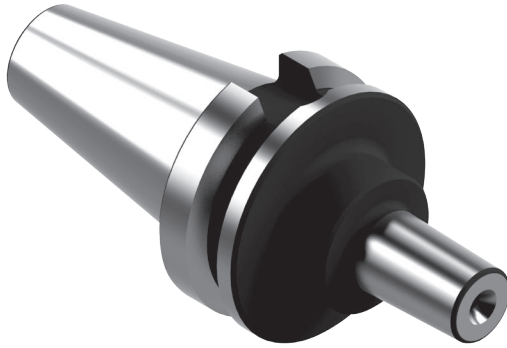


Sleeve Set	Part Number	Description
	XJSS-0003	Seal Sleeve Set



Jacobs Taper BT40

- Jacobs Taper holders accommodate a range of drill sizes using a single drill chuck making them economical for any typical drilling application.




BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				


- + Precision ground Jacobs pilot.
- + Not for high speed use.
- + Jacobs Taper held to better than 0.0002" accuracy for best mating with the drill chuck.
- + For proper assembly, clean before use. Clean and degrease both I.D. and O.D. of Jacobs holder.


Measurements are in inches unless noted (mm).

Jacobs Taper BT40

Standard	Part Number	F	D1	L1	L2
	B4J4-0001	#1	0.384	1.34	1.06
	B4J4-0002	#2	0.559	1.77	1.06
	B4J4-0003	#3	0.811	1.77	1.06
	B4J4-0004	#4	1.124	1.77	1.06
	B4J4-0033	#33	0.624	1.77	1.06

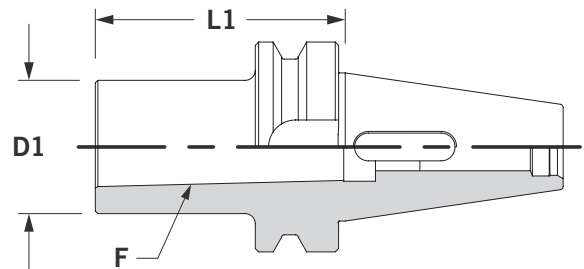
Jacobs Taper Chucks

Keyless Chuck	Part Number	Model	Capacity	Taper
	X650-J100	65J1	0 - 1/4	#1
	X800-J200	80J2	0 - 5/16	#2
	X100-J330	100J33	0 - 3/8	#33
	X130-J200	130J2	1/32 - 1/2	#2

Ball Bearing Key Type Super Chuck	Part Number	Model	Capacity	Taper	Replacement Chuck Key
	X11N-J200	11N	0 - 3/8	#2	XK32-J000
	X14N-J300	14N	0 - 1/2	#3	XK30-J000
	X16N-J300	16N	1/8 - 5/8	#3	XK40-J000
	X18N-J400	18N	1/8 - 3/4	#4	XK40-J000

Morse Taper BT40

- ▶ Command's precision ground Morse Taper holders have a taper pocket held to a 0.0002" accuracy for the best locking fit of the Morse Shank.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Must be cleaned before use and degreased for proper assembly.
- + AT3 or better shank taper. Accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement to minimize scrap.
- + Fully ground flange and V-groove that is easy on the tool changers minimizing spindle and changer maintenance.
- + Not for high speed use.

Measurements are in inches unless noted (mm).

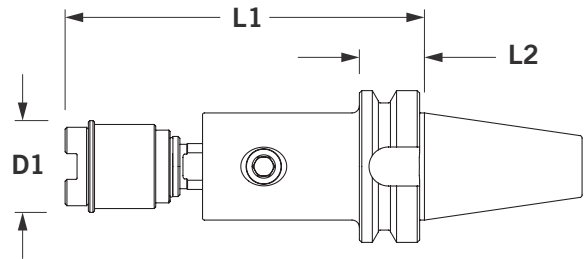
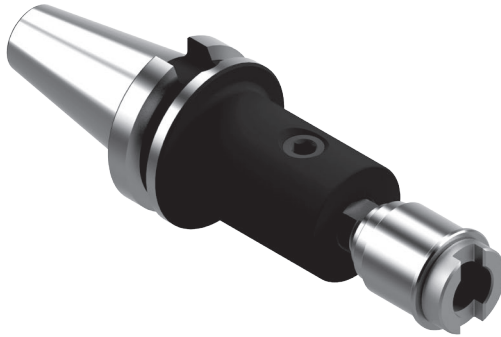
Morse Taper BT40

Standard	Part Number	F	D1	L1	L2
	B4M4-0002	#2	1.26	2.36	1.06
	B4M4-0003	#3	1.58	2.95	1.06
	B4M4-0004	#4	1.97	3.74	1.06



Rigid Tap BT40

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	356	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

Rigid Tap BT40

Extra Short	Part Number	Collet #	D1	L1	L2
	B4P2-0001	#1	1.50	3.31	1.06
	B4P2-0002	#2	1.88	4.01	1.06

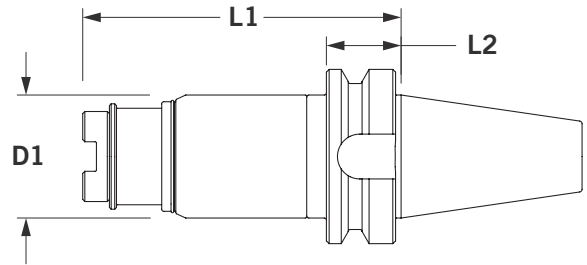


Extended	Part Number	Collet #	D1	L1	L2
	B4P5-0001	#1	1.50	5.87	1.06
	B4P5-0002	#2	1.88	6.57	1.06



Tension & Compression BT40

- ▶ Command's Tension and Compression Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	356	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Tension and Compression style has axial float for precise thread pitch.
- + Uses popular Bilz style quick change collet system.
- + Holders travel in tension 0.75", in compression 0.37".
- + L1 dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

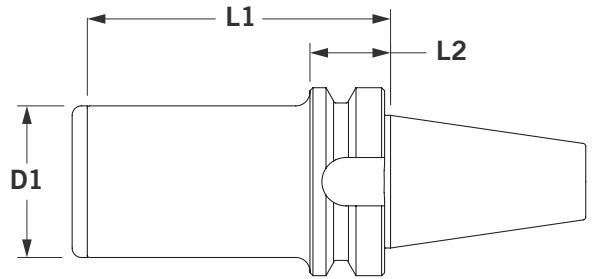
Tension & Compression BT40

Standard	Part Number	Collet #	D1	L1	L2
	B4T4-0001	#1	1.75	4.53	1.06
	B4T4-0002	#2	2.25	6.72	1.06



Semi-Flush Slitting Saw BT40

- ▶ Command's Semi-Flush Slitting Saw holders have a semi-flush nose cap for reaching tight areas and the ability to change saw width without spacers.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Face is held perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Designed for slitting saws up to 5/16" thick. For wider cutters use a Stub Arbor Holder.
- + Toolholder includes cap and drive key. Part numbers for replacements listed in toolholder part table at right.

Measurements are in inches unless noted (mm).

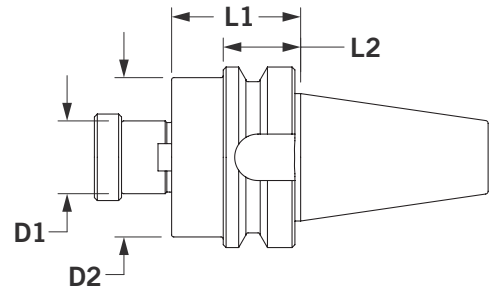
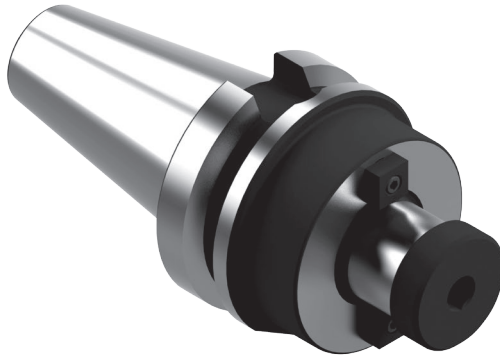
Semi-Flush Slitting Saw BT40

Standard	Part Number	Saw Size ID	D1	L1	L2	Cap	Drive Key
	B4G4-1000	1.00	1.50	4.00	1.06	XSFC-1000	XSSK-1000
	B4G4-1250	1.25	2.00	4.00	1.06	XSFC-1250	XSSK-1250



Shell Mill BT40

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	398	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

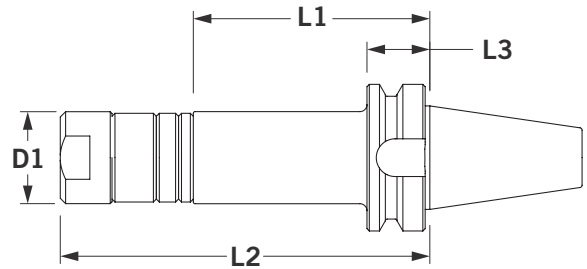
Shell Mill BT40


Standard	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	B4S4-0750	0.750	1.69	1.77	1.06	XSDK-0750	XSAS-0750
	B4S4-1000	1.000	2.19	1.77	1.06	XSDK-1000	XSAS-1000
	B4S4-1250	1.250	2.75	1.81	1.06	XSDK-1250	XSAS-1250
	B4S4-1500	1.500	3.81	2.36	1.06	XSDK-1500	XSAS-1500

Extended	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	B4S5-0750	0.750	1.69	4.13	1.06	XSDK-0750	XSAS-0750
	B4S5-1000	1.000	2.19	4.13	1.06	XSDK-1000	XSAS-1000
	B4S5-1250	1.250	2.75	4.13	1.06	XSDK-1250	XSAS-1250
	B4S5-1500	1.500	3.81	4.72	1.06	XSDK-1500	XSAS-1500

Stub Arbor BT40

- ▶ Command's Stub Arbor holders have a pilot diameter that is sized for a precise fit with the cutter and is keyed for positive drive.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	 TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Pilot thread is ground concentric to the tapered shank.
- + Face is perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Heavy duty locking nut and three arbor spacers are included - 1/4", 3/8", 3/4". Also listed in table at right.

Measurements are in inches unless noted (mm).

Stub Arbor BT40

Standard	Part Number	Cutter Size ID	D1	L1	L2	L3
	B4F4-1000	1.00	1.56	4.00	6.25	1.06
	B4F4-1250	1.25	1.87	4.00	6.50	1.06



Stub Arbor Replacement parts

Replacement Key	Part Number	Description
	XKEY-1000	Key for 1.00 with 1/4" Square Key
	XKEY-1250	Key for 1.25 with 5/16" Square Key



Replacement Nuts	Part Number	Description
	XSAN-1000	Nut for 1.00
	XSAN-1250	Nut for 1.25

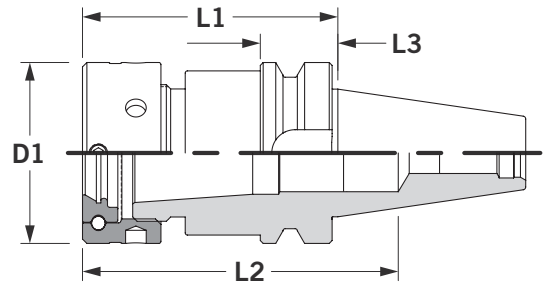


Replacement Spacer	Part Number	Description
	X100-0250	1/4" Spacer for 1.00
	X100-0375	3/8" Spacer for 1.00
	X100-0750	3/4" Spacer for 1.00
	X125-0250	1/4" Spacer for 1.25
	X125-0375	3/8" Spacer for 1.25
	X125-0750	3/4" Spacer for 1.25



TG100 Comflex® BT40

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® BT40

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C4-1000	TG100	2.48	3.50	4.33	1.06	XCCW-1000	XCCS-1816

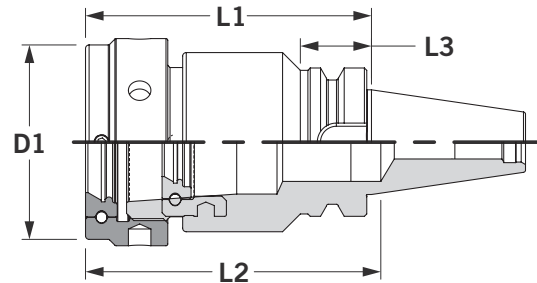


Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C5-1000	TG100	2.48	5.50	6.55	1.06	XCCW-1000	XCCS-1816



TG150 Comflex® BT40

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™						TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	338	362	386	386	386	402	410	414	413	424	
OPTIONS			ACCESSORIES										

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® BT40

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B4C4-1500	TG150	3.46	4.78	4.94	1.06	XCCW-1500	XCCS-2212



BT50 Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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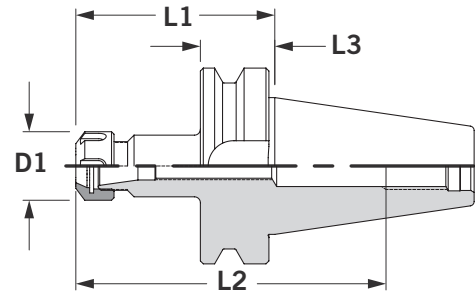
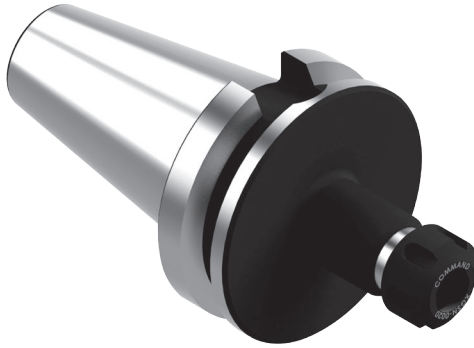
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® BT50

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	296	354	362	372	372	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

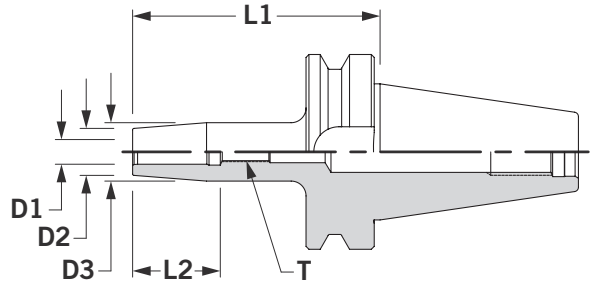
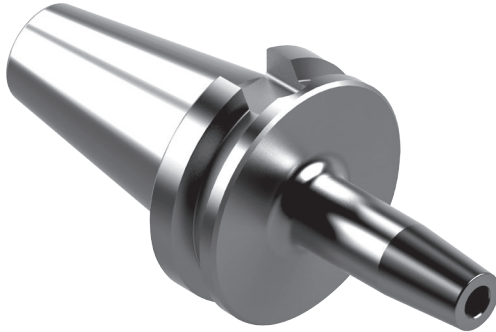
ER Micro Precision® BT50

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B6C4-0016	ER16	1.26	4.88	7.12	1.50	XCCW-D016	XCCS-0720
	B6C4-0020	ER20	1.38	4.00	6.24	1.50	XCCW-D020	XCCS-1415
	B6C4-0032	ER32	1.97	4.00	6.24	1.50	XCCW-D032	XCCS-2215
	B6C4-0040	ER40	2.48	4.00	6.24	1.50	XCCW-0040	XCCS-1816



Standard ThermoLock® BT50

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
9	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).


Standard ThermoLock® BT50 Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	B6Y3-0250	0.250	0.79	1.00	3.13	1.38	M5 X 1	
	B6Y3-0312	0.312	0.79	1.00	3.13	1.38	M6 X 1	
	B6Y3-0375	0.375	0.79	1.00	3.13	1.57	M8 X 1	
	B6Y3-0437	0.437	0.94	1.25	3.13	1.57	M8 X 1	
	B6Y3-0500	0.500	0.94	1.25	3.13	1.77	M10 X 1	
	B6Y3-0562	0.562	1.06	1.38	3.38	1.77	M10 X 1	
	B6Y3-0625	0.625	1.06	1.38	3.38	1.77	M12 X 1	
	B6Y3-0750	0.750	1.30	1.63	3.38	2.17	M16 X 1	
	B6Y3-1000	1.000	1.73	2.09	3.38	2.17	M16 X 1	
	B6Y3-1250	1.250	1.73	2.09	3.38	2.17	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	B6Y4-0250	0.250	0.79	1.00	5.00	1.38	M5 X 1	
	B6Y4-0312	0.312	0.79	1.00	5.00	1.38	M6 X 1	
	B6Y4-0375	0.375	0.79	1.00	5.00	1.57	M8 X 1	
	B6Y4-0437	0.437	0.94	1.25	5.00	1.57	M8 X 1	
	B6Y4-0500	0.500	0.94	1.25	5.00	1.77	M10 X 1	
	B6Y4-0625	0.562	1.06	1.38	5.00	1.77	M10 X 1	
	B6Y4-0750	0.625	1.06	1.38	5.00	1.77	M12 X 1	
	B6Y4-0875	0.750	1.30	1.63	5.00	2.17	M16 X 1	
	B6Y4-1000	1.000	1.73	2.09	5.00	2.17	M16 X 1	
	B6Y4-1250	1.250	1.73	2.09	5.00	2.17	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	B6Y5-0250	0.250	0.79	1.00	7.00	1.38	M5 X 1	
	B6Y5-0312	0.312	0.79	1.00	7.00	1.38	M6 X 1	
	B6Y5-0375	0.375	0.79	1.00	7.00	1.57	M8 X 1	
	B6Y5-0437	0.437	0.94	1.25	7.00	1.57	M8 X 1	
	B6Y5-0500	0.500	0.94	1.25	7.00	1.77	M10 X 1	
	B6Y5-0562	0.562	1.06	1.38	7.00	1.77	M10 X 1	
	B6Y5-0625	0.625	1.06	1.38	7.00	1.77	M12 X 1	
	B6Y5-0750	0.750	1.30	1.63	7.00	2.17	M16 X 1	
	B6Y5-1000	1.000	1.73	2.09	7.00	2.17	M16 X 1	
	B6Y5-1250	1.250	1.73	2.09	7.00	2.17	M16 X 1	

BT50 Collet Chucks // Standard ThermoLock®

Standard ThermoLock® BT50 Metric

BT50 Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	B6Y3-8008	8mm	21mm	27mm	90mm	35mm	M6 X 1	
	B6Y3-8010	10mm	24mm	32mm	90mm	40mm	M8 X 1	
	B6Y3-8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	B6Y3-8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	B6Y3-8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
	B6Y3-8018	18mm	33mm	42mm	90mm	55mm	M16 X 1	
	B6Y3-8020	20mm	33mm	42mm	90mm	55mm	M16 X 1	
	B6Y3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	B6Y3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	B6Y4-8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	B6Y4-8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	B6Y4-8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	B6Y4-8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	B6Y4-8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	B6Y4-8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	B6Y4-8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	B6Y4-8025	25mm	44mm	53mm	130mm	55mm	M16 X 1	
	B6Y4-8032	32mm	44mm	53mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	B6Y5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	B6Y5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	B6Y5-8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	B6Y5-8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	B6Y5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	B6Y5-8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	B6Y5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	B6Y5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	B6Y5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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New Product Announcement

Children's Lighthouse

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Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

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View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

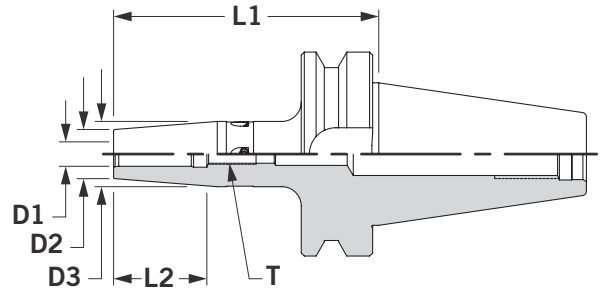
View Product Types

Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

HP ThermoLock® BT50

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	10	15	358	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® BT50 Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	B6L3-0250	0.250	0.83	1.06	3.93	1.38	M5 X 1	
	B6L3-0312	0.312	0.83	1.06	3.93	1.38	M6 X 1	
	B6L3-0375	0.375	0.94	1.26	3.93	1.57	M8 X 1	
	B6L3-0437	0.437	0.94	1.26	3.93	1.57	M8 X 1	
	B6L3-0500	0.500	0.94	1.26	3.93	1.77	M10 X 1	
	B6L3-0625	0.625	1.06	1.34	3.93	1.77	M12 X 1	
	B6L3-0750	0.750	1.30	1.65	3.93	2.17	M16 X 1	
	B6L3-0875	0.875	1.30	1.65	3.93	2.17	M16 X 1	
	B6L3-1000	1.000	1.73	2.09	3.93	2.17	M16 X 1	
	B6L3-1250	1.250	1.73	2.09	3.93	2.17	M16 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	B6L4-0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	B6L4-0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	B6L4-0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	B6L4-0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	B6L4-0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	B6L4-0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	
	B6L4-0750	0.750	1.30	1.65	5.12	2.17	M16 X 1	
	B6L4-0875	0.875	1.30	1.65	5.12	2.17	M16 X 1	
	B6L4-1000	1.000	1.73	2.09	5.12	2.17	M16 X 1	
	B6L4-1250	1.250	1.73	2.09	5.12	2.17	M16 X 1	
	Extended		Part Number	D1	D2	D3	L1	L2
	B6L5-0250	0.250	0.83	1.06	6.30	1.38	M5 X 1	
	B6L5-0312	0.312	0.83	1.06	6.30	1.38	M6 X 1	
	B6L5-0375	0.375	0.94	1.26	6.30	1.57	M8 X 1	
	B6L5-0437	0.437	0.94	1.26	6.30	1.57	M8 X 1	
	B6L5-0500	0.500	0.94	1.26	6.30	1.77	M10 X 1	
	B6L5-0625	0.625	1.06	1.34	6.30	1.77	M12 X 1	
	B6L5-0750	0.750	1.30	1.65	6.30	2.17	M16 X 1	
	B6L5-0875	0.875	1.30	1.65	6.30	2.17	M16 X 1	
	B6L5-1000	1.000	1.73	2.09	6.30	2.17	M16 X 1	
	B6L5-1250	1.250	1.73	2.09	6.30	2.17	M16 X 1	
	Extra Extended		Part Number	D1	D2	D3	L1	L2
	B6L6-0250	0.250	0.83	1.06	7.48	1.38	M5 X 1	
	B6L6-0312	0.312	0.83	1.06	7.48	1.38	M6 X 1	
	B6L6-0375	0.375	0.94	1.26	7.48	1.57	M8 X 1	
	B6L6-0437	0.437	0.94	1.26	7.48	1.57	M8 X 1	
	B6L6-0500	0.500	0.94	1.26	7.48	1.77	M10 X 1	
	B6L6-0625	0.625	1.06	1.34	7.48	1.77	M12 X 1	
	B6L6-0750	0.750	1.30	1.65	7.48	2.17	M16 X 1	
	B6L6-0875	0.875	1.30	1.65	7.48	2.17	M16 X 1	
	B6L6-1000	1.000	1.73	2.09	7.48	2.17	M16 X 1	
	B6L6-1250	1.250	1.73	2.09	7.48	2.17	M16 X 1	

BT50 Collet Chucks // HP ThermoLock®

HP ThermoLock® BT50 Metric

BT50 Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	B6L3-8006	6mm	21mm	27mm	100mm	35mm	M5 X 1	
	B6L3-8008	8mm	21mm	27mm	100mm	35mm	M6 X 1	
	B6L3-8010	10mm	24mm	32mm	100mm	40mm	M8 X 1	
	B6L3-8012	12mm	24mm	32mm	100mm	40mm	M8 X 1	
	B6L3-8014	14mm	27mm	34mm	100mm	45mm	M10 X 1	
	B6L3-8016	16mm	27mm	34mm	100mm	45mm	M12 X 1	
	B6L3-8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
	B6L3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	B6L3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	B6L3-8006	6mm	21mm	27mm	100mm	35mm	M5 X 1	
	B6L3-8008	8mm	21mm	27mm	100mm	35mm	M6 X 1	
	B6L3-8010	10mm	24mm	32mm	100mm	40mm	M8 X 1	
	B6L3-8012	12mm	24mm	32mm	100mm	40mm	M8 X 1	
	B6L3-8014	14mm	27mm	34mm	100mm	45mm	M10 X 1	
	B6L3-8016	16mm	27mm	34mm	100mm	45mm	M12 X 1	
	B6L3-8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
	B6L3-8025	25mm	44mm	53mm	100mm	55mm	M16 X 1	
	B6L3-8032	32mm	44mm	53mm	100mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	B6L5-8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	B6L5-8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	B6L5-8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	B6L5-8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	B6L5-8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	B6L5-8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	B6L5-8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	B6L5-8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	B6L5-8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	
Extra Extended		Part Number	D1	D2	D3	L1	L2	T
	B6L6-8006	6mm	21mm	27mm	190mm	35mm	M5 X 1	
	B6L6-8008	8mm	21mm	27mm	190mm	35mm	M6 X 1	
	B6L6-8010	10mm	24mm	32mm	190mm	40mm	M8 X 1	
	B6L6-8012	12mm	24mm	32mm	190mm	40mm	M8 X 1	
	B6L6-8014	14mm	27mm	34mm	190mm	45mm	M10 X 1	
	B6L6-8016	16mm	27mm	34mm	190mm	45mm	M12 X 1	
	B6L6-8020	20mm	33mm	42mm	190mm	55mm	M16 X 1	
	B6L6-8025	25mm	44mm	53mm	190mm	55mm	M16 X 1	
	B6L6-8032	32mm	44mm	53mm	190mm	55mm	M16 X 1	

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PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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Introducing ETP HYDRO-GRIP®
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Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

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Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6381 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capco, HSK, T8 and A8.

Driven Tools

More than 8,000 driven tools are available. In

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Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

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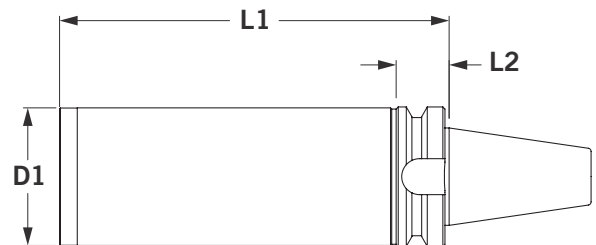
Swiss Live Tooling for Star and Citizen

All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

Blank Bars BT50

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars BT50

Stub	Part Number	D1	L1	L2
	B6X3-0006	3.875	6.00	1.50

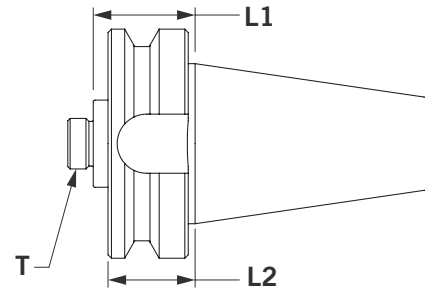


Standard	Part Number	D1	L1	L2
	B6X4-0006	3.875	11.00	1.50



Boring Head BT50

- ▶ Command's Boring Head holders are compatible with a variety of popular boring heads including Erickson, SPI, Yuasa and Criterion.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement—less scrap.
- + Full ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + All tapers and lengths ready to ship. Get your tools fast!

Measurements are in inches unless noted (mm).

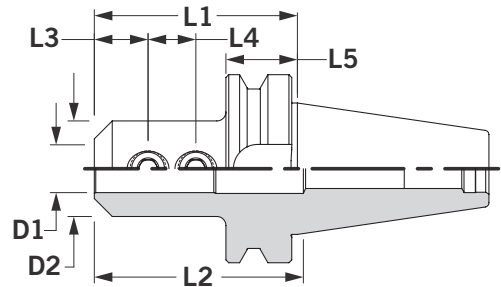
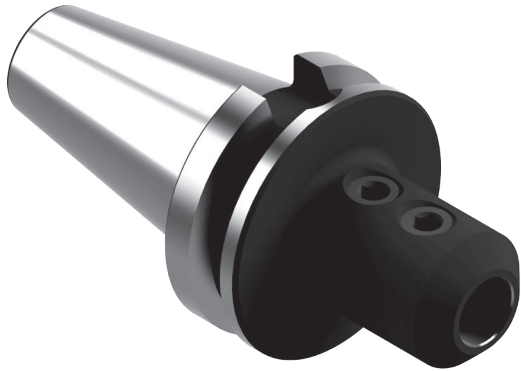
Boring Head BT50

Shorty	Part Number	T	L1	L2	Boring Heads
	B6H4-1018	5/8-18	1.75	1.50	Erickson #37 & #50
	B6H4-1420	7/8-20	1.75	1.50	SPI, Yuasa & Criterion
	B6H4-2418	1 1/2-8	1.75	1.50	SPI, Yuasa & Criterion



End Mill BT50

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!





BLACK OXIDE	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	15	354	397	402	410	414	413	424
OPTIONS		ACCESSORIES						

- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

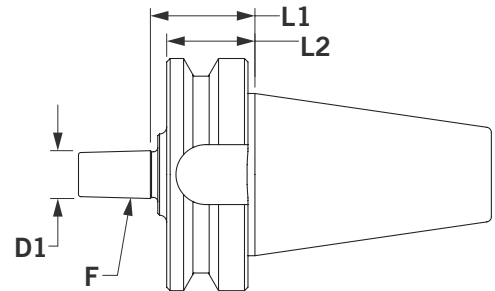
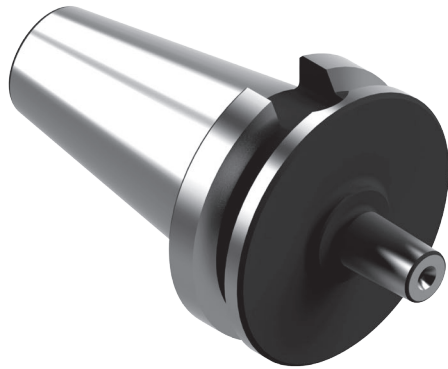
End Mill BT50

Standard		Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
		B6E4-0375	0.375	1.00	3.00	3.7	0.75	-	1.50	XEML-0624
		B6E4-0500	0.500	1.25	3.00	3.7	0.88	-	1.50	XEML-0720
		B6E4-0625	0.625	1.50	3.00	3.7	0.94	-	1.50	XEML-0820
		B6E4-0750	0.750	1.75	3.00	3.7	1.00	-	1.50	XEML-1018
		B6E4-0875	0.875	1.88	4.00	4.2	1.00	-	1.50	XEML-1018
		B6E4-1000	1.000	2.00	4.25	4.4	1.13	1.00	1.50	XEML-1216
		B6E4-1250	1.250	2.50	4.25	4.0	1.13	1.00	1.50	XEML-1216
		B6E4-1500	1.500	2.50	4.25	4.0	1.13	1.00	1.50	XEML-1216
		B6E4-2000	2.000	3.75	5.00	5.0	1.41	1.50	1.50	XEML-1614
	Extended		Part Number	D1	D2	L1	L2	L3	L4	L5
		B6E5-0375	0.375	1.00	6.00	6.7	0.75	-	1.50	XEML-0624
		B6E5-0500	0.500	1.25	6.00	6.7	0.88	-	1.50	XEML-0720
		B6E5-0625	0.625	1.50	6.00	6.7	0.94	-	1.50	XEML-0820
		B6E5-0750	0.750	1.75	6.00	6.7	1.00	-	1.50	XEML-1018
		B6E5-0875	0.875	1.88	6.00	4.2	1.00	-	1.50	XEML-1018
		B6E5-1000	1.000	2.00	6.00	4.4	1.13	1.00	1.50	XEML-1216
		B6E5-1250	1.250	2.50	6.00	4.0	1.13	1.00	1.50	XEML-1216
		B6E5-1500	1.500	2.50	6.00	4.0	1.13	1.00	1.50	XEML-1216
		B6E5-2000	2.000	3.75	6.00	5.0	1.41	1.50	1.50	XEML-1614

BT50 Collet Chucks // End Mill Collet Chucks

Jacobs Taper BT50

- Jacobs Taper holders accommodate a range of drill sizes using a single drill chuck making them economical for any typical drilling application.




BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				


- + Precision ground Jacobs pilot.
- + Not for high speed use.
- + Jacobs Taper held to better than 0.0002" accuracy for best mating with the drill chuck.
- + For proper assembly, clean before use. Clean and degrease both I.D. and O.D. of Jacobs holder.


Measurements are in inches unless noted (mm).

Jacobs Taper BT50

Standard	Part Number	F	D1	L1	L2
	B6J4-0001	#1	0.384	1.81	1.50
	B6J4-0002	#2	0.559	1.77	1.50
	B6J4-0003	#3	0.811	1.77	1.50
	B6J4-0004	#4	1.124	1.77	1.50
	B6J4-0006	#6	0.676	1.77	1.50
	B6J4-0033	#33	0.624	1.77	1.50

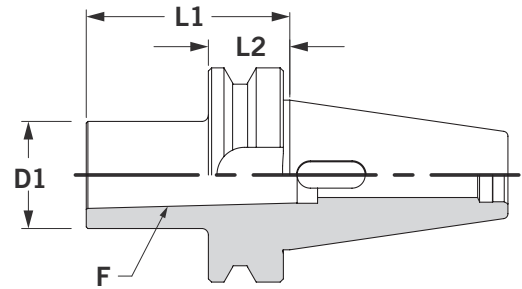
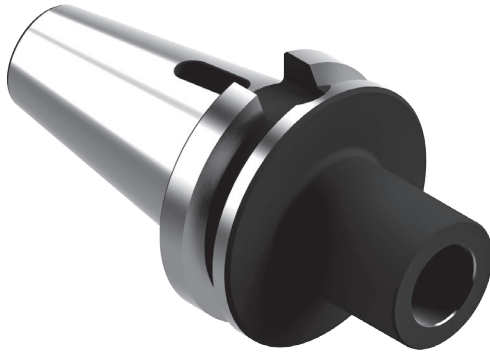
Jacobs Taper Chucks

Keyless Chuck	Part Number	Model	Capacity	Taper
	X650-J100	65J1	0 - 1/4	#1
	X800-J200	80J2	0 - 5/16	#2
	X100-J330	100J33	0 - 3/8	#33
	X130-J200	130J2	1/32 - 1/2	#2

Ball Bearing Key Type Super Chuck	Part Number	Model	Capacity	Taper	Replacement Chuck Key
	X11N-J200	11N	0 - 3/8	#2	XK32-J000
	X14N-J300	14N	0 - 1/2	#3	XK30-J000
	X16N-J300	16N	1/8 - 5/8	#3	XK40-J000
	X18N-J400	18N	1/8 - 3/4	#4	XK40-J000

Morse Taper BT50

- ▶ Command's precision ground Morse Taper holders have a taper pocket held to a 0.0002" accuracy for the best locking fit of the Morse Shank.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Must be cleaned before use and degreased for proper assembly.
- + AT3 or better shank taper. Accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement to minimize scrap.
- + Fully ground flange and V-groove that is easy on the tool changers minimizing spindle and changer maintenance.
- + Not for high speed use.

Measurements are in inches unless noted (mm).

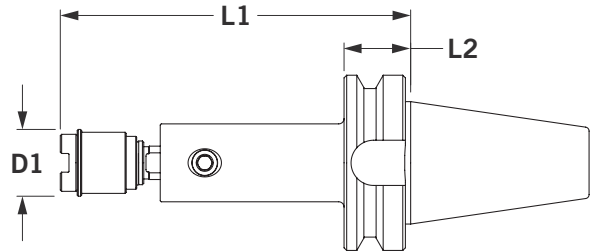
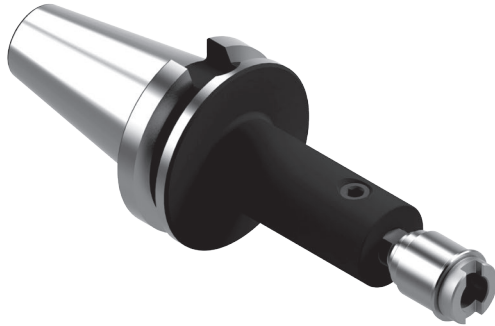
Morse Taper BT50

Standard	Part Number	F	D1	L1	L2
	B6M4-0002	#2	1.26	1.77	1.50
	B6M4-0003	#3	1.58	2.36	1.50
	B6M4-0004	#4	1.97	3.35	1.50
	B6M4-0005	#5	2.46	4.72	1.50



Rigid Tap BT50

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS		TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	356	402	410	414	413	424
OPTIONS			ACCESSORIES						

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

Rigid Tap BT50

Extra Short	Part Number	Collet #	D1	L1	L2
	B6P2-0001	#1	1.50	1.50	1.5
	B6P2-0002	#2	1.88	1.88	1.5

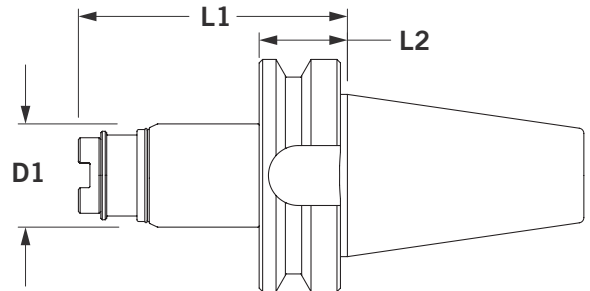
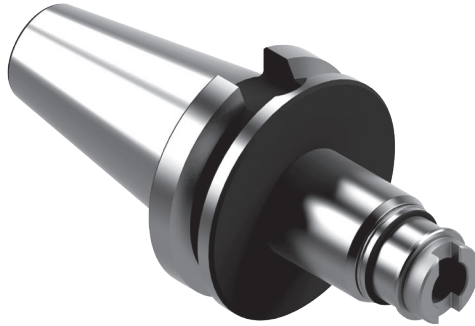


Extended	Part Number	Collet #	D1	L1	L2
	B6P5-0001	#1	1.50	7.87	1.5
	B6P5-0002	#2	1.88	8.57	1.5
	B6P5-0003	#3	3.25	8.33	1.5



Tension & Compression BT50

- ▶ Command's Tension and Compression Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	344	402	414	413	424
OPTIONS			ACCESSORIES				

- + Tension and Compression style has axial float for precise thread pitch.
- + Uses popular Bilz style quick change collet system.
- + Holders travel in tension 0.75", in compression 0.37".
- + L1 dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

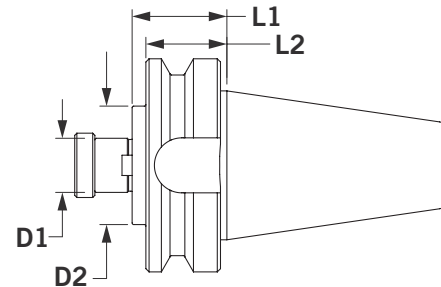
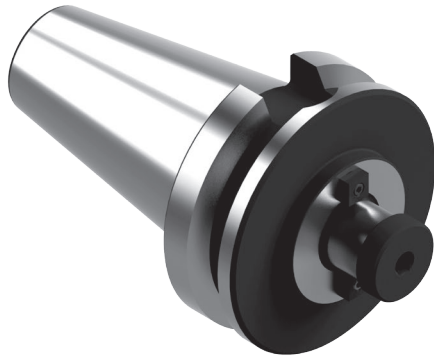
Tension & Compression BT50

Standard	Part Number	Collet #	D1	L1	L2
	B6T4-0001	#1	1.75	4.53	1.50
	B6T4-0002	#2	2.25	6.72	1.50
	B6T4-0003	#3	3.25	8.33	1.50



Shell Mill BT50

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS			TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	398	402	410	414	413	424
OPTIONS			ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

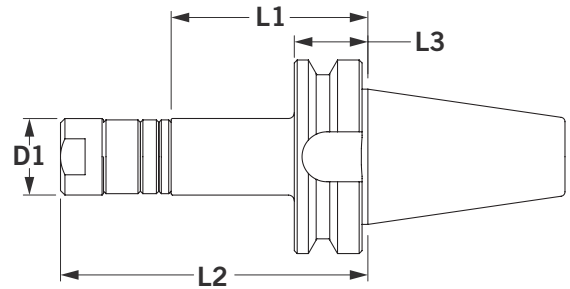
Shell Mill BT50

Standard	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	B6S4-1000	1.000	2.19	1.75	1.5	XSDK-1000	XSAS-1000
	B6S4-1250	1.250	2.75	1.75	1.5	XSDK-1250	XSAS-1250
	B6S4-1500	1.500	3.81	1.75	1.5	XSDK-1500	XSAS-1500
	B6S4-2000	2.000	4.88	3.00	1.5	XSDK-2000	XSAS-2000

Extended	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	B6S5-1000	1.000	2.19	4.00	1.5	XSDK-1000	XSAS-1000
	B6S5-1250	1.250	2.75	4.00	1.5	XSDK-1250	XSAS-1250
	B6S5-1500	1.500	3.81	4.00	1.5	XSDK-1500	XSAS-1500
	B6S5-2000	2.000	4.88	4.00	1.5	XSDK-2000	XSAS-2000

Stub Arbor BT50

- ▶ Command's Stub Arbor holders have a pilot diameter that is sized for a precise fit with the cutter and is keyed for positive drive.





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	402	410	414	413	424
OPTIONS			ACCESSORIES				

- + Pilot thread is ground concentric to the tapered shank.
- + Face is perpendicular to centerline within 0.0002".
- + Pilot diameter is sized for precision fit with cutter and is keyed for positive drive.
- + Heavy duty locking nut and three arbor spacers are included - 1/4", 3/8", 3/4". Also listed in table at right.


Measurements are in inches unless noted (mm).


Stub Arbor BT50


Standard	Part Number	Cutter Size ID	D1	L1	L2	L3
	B6F4-1000	1.00	1.56	4.00	6.25	1.50
	B6F4-1250	1.25	1.87	4.00	6.50	1.50

Extended	Part Number	Cutter Size ID	D1	L1	L2	L3
	B6F5-1000	1.00	1.56	6.00	8.25	1.50
	B6F5-1250	1.25	1.87	6.00	8.50	1.50

Stub Arbor Replacement parts

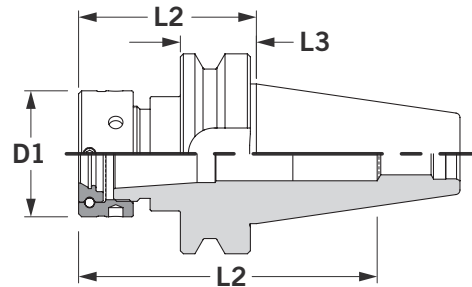
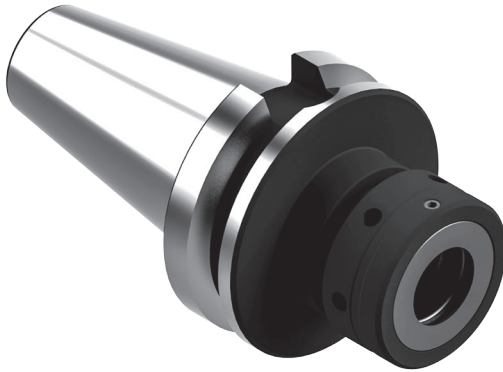
Replacement Key	Part Number	Description
	XKEY-1000	Key for 1.00 with 1/4" Square Key
	XKEY-1250	Key for 1.25 with 5/16" Square Key

Replacement Nuts	Part Number	Description
	XSAN-1000	Nut for 1.00
	XSAN-1250	Nut for 1.25

Replacement Spacer	Part Number	Description
	X100-0250	1/4" Spacer for 1.00
	X100-0375	3/8" Spacer for 1.00
	X100-0750	3/4" Spacer for 1.00
	X125-0250	1/4" Spacer for 1.25
	X125-0375	3/8" Spacer for 1.25
	X125-0750	3/4" Spacer for 1.25

TG100 Comflex® BT50

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	332	362	384	384	384	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® BT50

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B6C4-1000	TG100	2.48	3.50	5.88	1.06	XCCW-1000	XCCS-1816

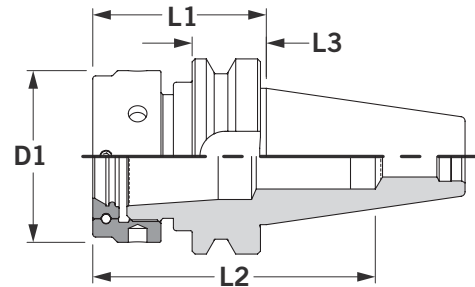


Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B6C5-1000	TG100	2.48	5.50	7.69	1.06	XCCW-1000	XCCS-1816



TG150 Comflex® BT50

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		BLUE CHIP™					TORQUE VALUES & WRENCHES	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	15	338	362	386	386	386	402	410	414	413	424
OPTIONS			ACCESSORIES									

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® BT50

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B6C4-1500	TG150	3.46	3.50	5.70	1.50	XCCW-1500	XCCS-2612



Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	B6C5-1500	TG150	3.46	6.00	7.69	1.50	XCCW-1500	XCCS-2612



HSK25E Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

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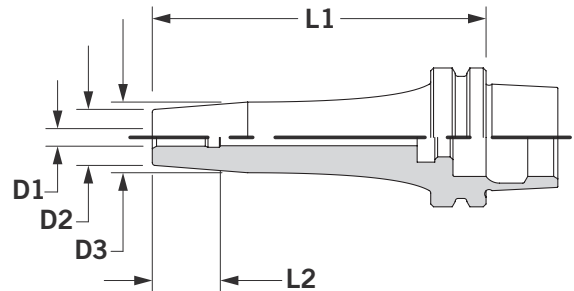
HP ThermoLock® HSK25E.....222-223

Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

HP ThermoLock® HSK25E

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK25E Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	HOL3E0125	0.125	0.39	0.50	2.36	0.47	-
	HOL3E0187	0.187	0.39	0.50	2.36	0.98	-
	HOL3E0250	0.250	0.55	0.75	2.36	1.30	-



HP ThermoLock® HSK25E Metric

Stub	Part Number	D1	D2	D3	L1	L2	T
	HOL3E8003	3mm	10mm	12mm	60mm	12mm	-
	HOL3E8004	4mm	10mm	12mm	60mm	19mm	-
	HOL3E8005	5mm	10mm	12mm	60mm	25mm	-
	HOL3E8006	6mm	14mm	19mm	60mm	33mm	-



HSK32E Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



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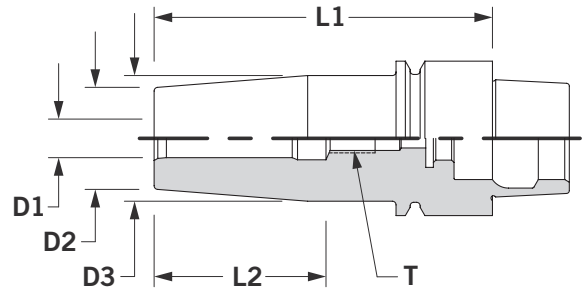
HP ThermoLock® HSK32E.....204-205

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HP ThermoLock® HSK32E

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.




BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					


- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK32E Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	H1L3E0125	0.125	0.39	0.50	2.36	0.47	-
	H1L3E0187	0.187	0.39	0.50	2.36	0.98	-
	H1L3E0250	0.250	0.83	1.06	2.76	1.38	M5 X 1
	H1L3E0312	0.312	0.83	1.06	2.76	1.38	M6 X 1
	H1L3E0375	0.375	0.94	1.26	2.95	1.57	M8 X 1
	H1L3E0500	0.500	0.94	1.26	3.15	1.77	M10 X 1

HP ThermoLock® HSK32E Metric

Stub	Part Number	D1	D2	D3	L1	L2	T
	H1L3E8003	3mm	10mm	12mm	60mm	12mm	-
	H1L3E8004	4mm	10mm	12mm	60mm	19mm	-
	H1L3E8005	5mm	10mm	12mm	60mm	25mm	-
	H1L3E8006	6mm	21mm	27mm	70mm	35mm	M5 X 1
	H1L3E8008	8mm	21mm	27mm	70mm	35mm	M6 X 1
	H1L3E8010	10mm	24mm	32mm	75mm	40mm	M8 X 1
	H1L3E8012	12mm	24mm	32mm	80mm	40mm	M8 X 1

HSK40A Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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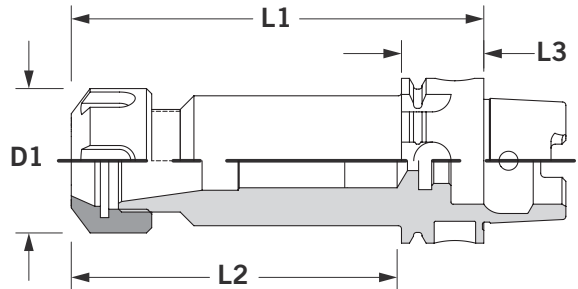
ER Micro Precision® HSK40A	208-209
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HP ThermoLock® HSK40A.....	212-213
Blank Bars HSK40A	214-215

Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® HSK40A

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.





BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	296	354	362	372	372	410	412	414	413	424
OPTIONS				ACCESSORIES									


- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® HSK40A

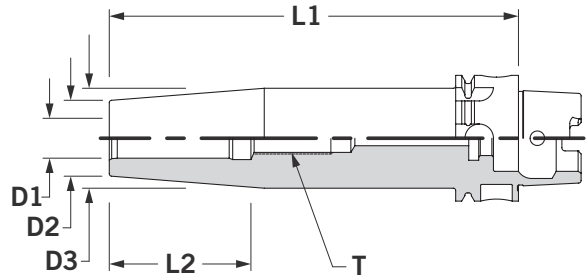
Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C3A0011	ER11	0.63	2.36	1.30	0.79	XCCW-D011	-
	H2C3A0016	ER16	1.26	2.36	1.10	0.79	XCCW-D016	-
	H2C3A0020	ER20	1.38	2.36	1.10	0.79	XCCW-D020	-

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C4A0011	ER11	0.63	3.94	1.60	0.79	XCCW-D011	-
	H2C4A0016	ER16	1.26	3.94	2.30	0.79	XCCW-D016	XCCS-0720
	H2C4A0020	ER20	1.38	3.94	2.10	0.79	XCCW-D020	XCCS-1415

Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C5A0011	ER11	0.63	6.30	1.60	0.79	XCCW-D011	-
	H2C5A0016	ER16	1.26	6.30	3.00	0.79	XCCW-D016	XCCS-0720
	H2C5A0020	ER20	1.38	6.30	3.50	0.79	XCCW-D020	XCCS-1415

Standard ThermoLock® HSK40A

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.





BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					



- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).

Standard ThermoLock® HSK40A Inch

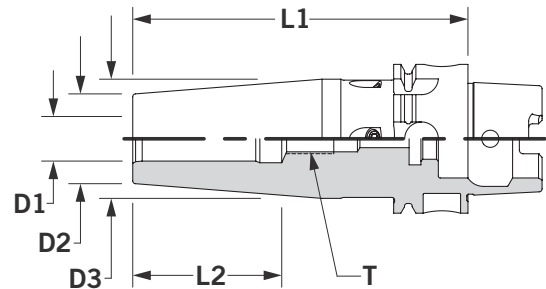
Stub		Part Number	D1	D2	D3	L1	L2	T
	H2Y3A0312	0.312	0.79	1.00	3.15	1.38	M6 X 1	
	H2Y3A0375	0.375	0.79	1.00	3.15	1.57	M8 X 1	
	H2Y3A0437	0.437	0.94	1.25	3.15	1.57	M8 X 1	
	H2Y3A0500	0.500	0.94	1.25	3.54	1.77	M10 X 1	
	H2Y3A0562	0.562	1.06	1.30	3.54	1.77	M10 X 1	
	H2Y3A0625	0.625	1.06	1.30	3.54	1.77	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2Y4A0312	0.312	0.79	1.00	5.12	1.38	M6 X 1	
	H2Y4A0375	0.375	0.79	1.00	5.12	1.57	M8 X 1	
	H2Y4A0437	0.437	0.94	1.25	5.12	1.57	M8 X 1	
	H2Y4A0500	0.500	0.94	1.25	5.12	1.77	M10 X 1	
	H2Y4A0562	0.562	1.06	1.30	5.12	1.77	M10 X 1	
	H2Y4A0625	0.625	1.06	1.30	5.12	1.77	M12 X 1	

Standard ThermoLock® HSK40A Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2Y3A8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H2Y3A8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H2Y3A8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	H2Y3A8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	H2Y3A8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	H2Y3A8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2Y4A8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H2Y4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H2Y4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2Y4A8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	H2Y4A8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	H2Y4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	

HP ThermoLock® HSK40A

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424



OPTIONS

ACCESSORIES

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK40A Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2L3A0125	0.125	0.39	-	2.36	-	-	-
	H2L3A0187	0.187	0.39	-	2.36	-	-	-
	H2L3A0250	0.250	0.83	1.06	3.15	1.38	M5 X 1	
	H2L3A0312	0.312	0.83	1.06	3.15	1.38	M6 X 1	
	H2L3A0375	0.375	0.94	1.26	3.15	1.57	M8 X 1	
	H2L3A0437	0.437	0.94	1.26	3.15	1.57	M8 X 1	
	H2L3A0500	0.500	0.94	1.26	3.54	1.77	M10 X 1	
	H2L3A0625	0.625	1.06	1.34	3.54	1.77	M12 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	H2L4A0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	H2L4A0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	H2L4A0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	H2L4A0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	H2L4A0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	H2L4A0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	

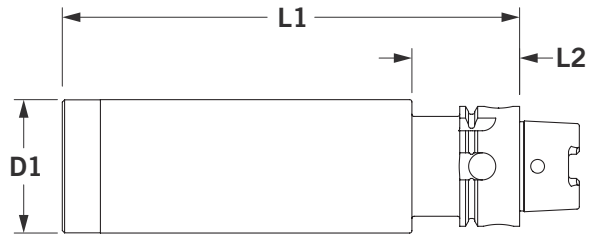
HP ThermoLock® HSK40A Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2L3A8003	3mm	10mm	-	60mm	-	-	-
	H2L3A8004	4mm	10mm	-	60mm	-	-	-
	H2L3A8005	5mm	10mm	-	60mm	-	-	-
	H2L3A8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H2L3A8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H2L3A8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	H2L3A8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H2L3A8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H2L3A8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2L4A8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H2L4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H2L4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2L4A8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2L4A8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H2L4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	

HSK40A Collet Chucks // HP ThermoLock®

Blank Bars HSK40A

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	410	412	414	413	424
OPTIONS				ACCESSORIES				

- + Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

- + Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

Blank Bars

Blank Bars HSK40A

Stub	Part Number	D1	L1	L2
	H2X3A0002	1.750	6.00	1.41



HSK40E Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



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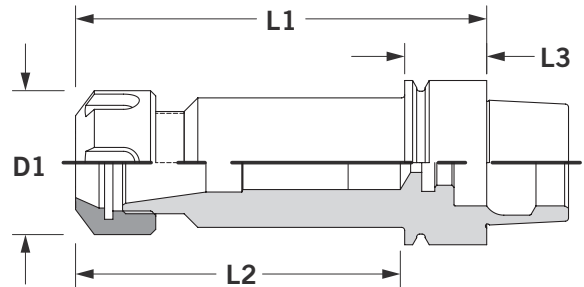
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Standard ThermoLock® HSK40E	220-221
HP ThermoLock® HSK40E.....	222-223

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ER Micro Precision® HSK40E

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.





BLACK OXIDE	BALANCE OPTIONS	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™		TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	15	296	354	362	372	372	410	412	414	413	424
OPTIONS			ACCESSORIES									


- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® HSK40E

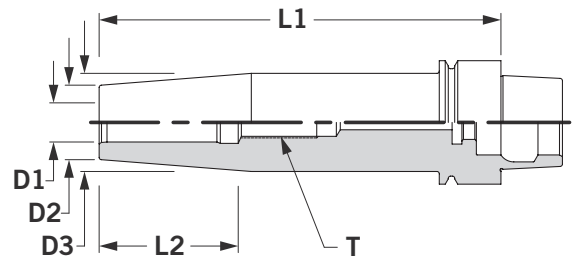
Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C3E0011	ER11	0.63	2.36	1.30	0.79	XCCW-D011	-
	H2C3E0016	ER16	1.26	2.36	1.10	0.79	XCCW-D016	-
	H2C3E0020	ER20	1.38	2.36	1.10	0.79	XCCW-D020	-

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C4E0011	ER11	0.63	3.94	1.60	0.79	XCCW-D011	-
	H2C4E0016	ER16	1.26	3.94	2.30	0.79	XCCW-D016	XCCS-0720
	H2C4E0020	ER20	1.38	3.94	2.10	0.79	XCCW-D020	XCCS-1415

Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H2C5E0011	ER11	0.63	6.30	1.60	0.79	XCCW-D011	-
	H2C5E0016	ER16	1.26	6.30	3.00	0.79	XCCW-D016	XCCS-0720
	H2C5E0020	ER20	1.38	6.30	3.50	0.79	XCCW-D020	XCCS-1415

Standard ThermoLock® HSK40E

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.





BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					



- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).

Standard ThermoLock® HSK40E Inch

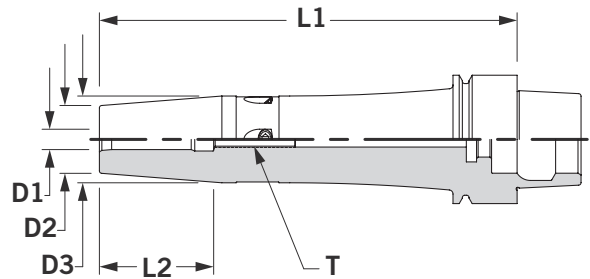
Stub		Part Number	D1	D2	D3	L1	L2	T
	H2Y3E0312	0.312	0.79	1.00	3.15	1.38	M6 X 1	
	H2Y3E0375	0.375	0.79	1.00	3.15	1.57	M8 X 1	
	H2Y3E0437	0.437	0.94	1.25	3.15	1.57	M8 X 1	
	H2Y3E0500	0.500	0.94	1.25	3.54	1.77	M10 X 1	
	H2Y3E0562	0.562	1.06	1.30	3.54	1.77	M10 X 1	
	H2Y3E0625	0.625	1.06	1.30	3.54	1.77	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2Y4E0312	0.312	0.79	1.00	5.12	1.38	M6 X 1	
	H2Y4E0375	0.375	0.79	1.00	5.12	1.57	M8 X 1	
	H2Y4E0437	0.437	0.94	1.25	5.12	1.57	M8 X 1	
	H2Y4E0500	0.500	0.94	1.25	5.12	1.77	M10 X 1	
	H2Y4E0562	0.562	1.06	1.30	5.12	1.77	M10 X 1	
	H2Y4E0625	0.625	1.06	1.30	5.12	1.77	M12 X 1	

Standard ThermoLock® HSK40E Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2Y3E8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H2Y3E8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H2Y3E8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	H2Y3E8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	H2Y3E8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	H2Y3E8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2Y4E8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H2Y4E8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H2Y4E8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2Y4E8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	H2Y4E8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	H2Y4E8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	

HP ThermoLock® HSK40E

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.





BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					



- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK40E Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2L3E0125	0.125	0.39	-	2.36	-	-	-
	H2L3E0187	0.187	0.39	-	2.36	-	-	-
	H2L3E0250	0.250	0.83	1.06	3.15	1.38	M5 X 1	
	H2L3E0312	0.312	0.83	1.06	3.15	1.38	M6 X 1	
	H2L3E0375	0.375	0.94	1.26	3.15	1.57	M8 X 1	
	H2L3E0437	0.437	0.94	1.26	3.15	1.57	M8 X 1	
	H2L3E0500	0.500	0.94	1.26	3.54	1.77	M10 X 1	
	H2L3E0625	0.625	1.06	1.34	3.54	1.77	M12 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H2L4E0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	H2L4E0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	H2L4E0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	H2L4E0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	H2L4E0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	H2L4E0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	

HP ThermoLock® HSK40E Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H2L3E8003	3mm	10mm	-	60mm	-	-	-
	H2L3E8004	4mm	10mm	-	60mm	-	-	-
	H2L3E8005	5mm	10mm	-	60mm	-	-	-
	H2L3E8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H2L3E8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H2L3E8010	10mm	24mm	32mm	80mm	40mm	M8 X 1	
	H2L3E8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H2L3E8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H2L3E8016	16mm	27mm	34mm	90mm	45mm	M12 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	H2L4E8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H2L4E8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H2L4E8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2L4E8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H2L4E8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H2L4E8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	

HSK40E Collet Chucks // HP ThermoLock®

HSK50A Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

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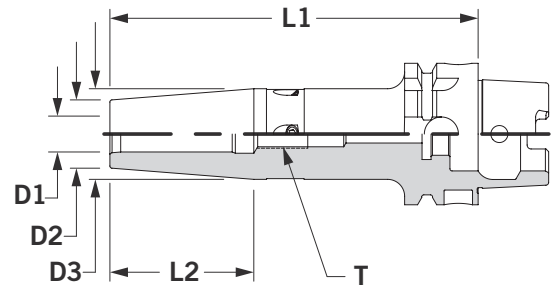
HP ThermoLock® HSK50A.....226-229

Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

HP ThermoLock® HSK50A

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.





BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					


- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK50A Inch

Stub	Part Number	D1	D2	D3	L1	L2	T
	H3L3A0125	0.125	0.39	-	2.36	-	-
	H3L3A0187	0.187	0.39	-	2.36	-	-
	H3L3A0250	0.250	0.83	1.06	3.15	1.38	M5 X 1
	H3L3A0312	0.312	0.83	1.06	3.15	1.38	M6 X 1
	H3L3A0375	0.375	0.94	1.26	3.15	1.57	M8 X 1
	H3L3A0437	0.437	0.94	1.26	3.35	1.57	M8 X 1
	H3L3A0500	0.500	0.94	1.26	3.54	1.77	M10 X 1
	H3L3A0625	0.625	1.06	1.34	3.74	1.77	M12 X 1


Standard	Part Number	D1	D2	D3	L1	L2	T
	H3L4A0250	0.250	0.83	1.06	5.12	1.38	M5 X 1
	H3L4A0312	0.312	0.83	1.06	5.12	1.38	M6 X 1
	H3L4A0375	0.375	0.94	1.26	5.12	1.57	M8 X 1
	H3L4A0437	0.437	0.94	1.26	5.12	1.57	M8 X 1
	H3L4A0500	0.500	0.94	1.26	5.12	1.77	M10 X 1
	H3L4A0625	0.625	1.06	1.34	5.12	1.77	M12 X 1

Extended	Part Number	D1	D2	D3	L1	L2	T
	H3L5A0250	0.250	0.83	1.06	6.30	1.38	M5 X 1
	H3L5A0312	0.312	0.83	1.06	6.30	1.38	M6 X 1
	H3L5A0375	0.375	0.94	1.26	6.30	1.57	M8 X 1
	H3L5A0437	0.437	0.94	1.26	6.30	1.57	M8 X 1
	H3L5A0500	0.500	0.94	1.26	6.30	1.77	M10 X 1
	H3L5A0625	0.625	1.06	1.34	6.30	1.77	M12 X 1


HSK50A Collet Chucks // HP ThermoLock®

HP ThermoLock® HSK50A Metric

HSK50A Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H3L3A8003	3mm	10mm	-	60mm	-	-	
	H3L3A8004	4mm	10mm	-	60mm	-	-	
	H3L3A8005	5mm	10mm	-	60mm	-	-	
	H3L3A8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H3L3A8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H3L3A8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H3L3A8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H3L3A8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H3L3A8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	

Standard		Part Number	D1	D2	D3	L1	L2	T
	H3L4A8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H3L4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H3L4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H3L4A8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H3L4A8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H3L4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	

Extended		Part Number	D1	D2	D3	L1	L2	T
	H3L5A8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	H3L5A8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H3L5A8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H3L5A8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	H3L5A8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	H3L5A8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

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CT40

Find a Distributor
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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND TOOLING SYSTEMS

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CLASS CLASS CLASS CLASS

Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 63491 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capco, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Video Catalog

View Product Types

Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

HSK50E Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <0.0002 (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



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HP ThermoLock® HSK50E.....232-235

- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

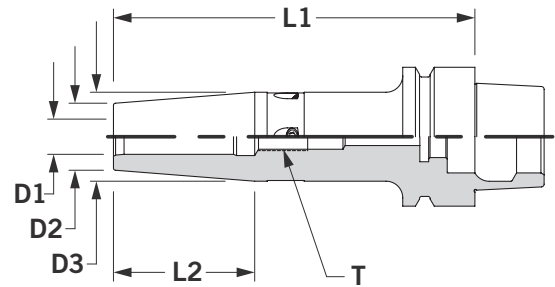
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HP ThermoLock® HSK50E

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BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
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- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).


HP ThermoLock® HSK50E Inch


Stub		Part Number	D1	D2	D3	L1	L2	T
	H3L3E0125	0.125	0.39	-	2.36	-	-	
	H3L3E0187	0.187	0.39	-	2.36	-	-	
	H3L3E0250	0.250	0.83	1.06	3.15	1.38	M5 X 1	
	H3L3E0312	0.312	0.83	1.06	3.15	1.38	M6 X 1	
	H3L3E0375	0.375	0.94	1.26	3.15	1.57	M8 X 1	
	H3L3E0437	0.437	0.94	1.26	3.35	1.57	M8 X 1	
	H3L3E0500	0.500	0.94	1.26	3.54	1.77	M10 X 1	
	H3L3E0625	0.625	1.06	1.34	3.74	1.77	M12 X 1	
	H3L3E0750	0.750	1.30	1.65	3.93	2.17	M16 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	H3L4E0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	H3L4E0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	H3L4E0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	H3L4E0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	H3L4E0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	H3L4E0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	
	H3L4E0750	0.750	1.30	1.65	5.12	2.17	M16 X 1	
	Extended		Part Number	D1	D2	D3	L1	L2
	H3L5E0250	0.250	0.83	1.06	6.30	1.38	M5 X 1	
	H3L5E0312	0.312	0.83	1.06	6.30	1.38	M6 X 1	
	H3L5E0375	0.375	0.94	1.26	6.30	1.57	M8 X 1	
	H3L5E0437	0.437	0.94	1.26	6.30	1.57	M8 X 1	
	H3L5E0500	0.500	0.94	1.26	6.30	1.77	M10 X 1	
	H3L5E0625	0.625	1.06	1.34	6.30	1.77	M12 X 1	
	H3L5E0750	0.750	1.30	1.65	6.30	2.17	M16 X 1	


HSK50E Collet Chucks // HP ThermoLock®

HP ThermoLock® HSK50E Metric

HSK50E Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H3L3E8003	3mm	10mm	-	60mm	-	-	
	H3L3E8004	4mm	10mm	-	60mm	-	-	
	H3L3E8005	5mm	10mm	-	60mm	-	-	
	H3L3E8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H3L3E8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H3L3E8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H3L3E8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H3L3E8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H3L3E8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	
	H3L3E8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	

Standard		Part Number	D1	D2	D3	L1	L2	T
	H3L4E8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H3L4E8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H3L4E8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H3L4E8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H3L4E8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H3L4E8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H3L4E8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	

Extended		Part Number	D1	D2	D3	L1	L2	T
	H3L5E8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	H3L5E8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H3L5E8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H3L5E8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	H3L5E8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	H3L5E8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	H3L5E8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	

Command Tooling Systems Online

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Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
TOOLING SYSTEMS

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Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capco, HSK, T8 and ABG.

View Products

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Video Catalog

View Product Types

Swiss Live Tooling for Star and Citizen

All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

View Products

HSK63A Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



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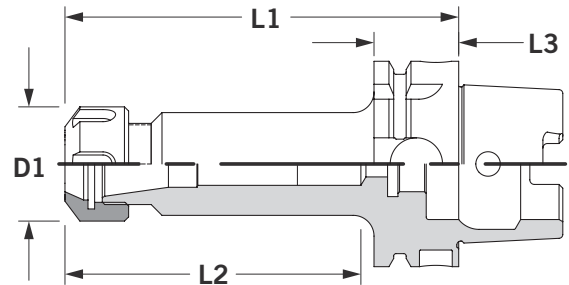
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® HSK63A

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.





BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	372	354	362	372	372	410	412	414	413	424
OPTIONS				ACCESSORIES									


- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® HSK63A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C3A0011	ER11	0.63	2.00	1.10	1.02	XCCW-D011	-
	H4C3A0016	ER16	1.26	2.50	1.30	1.02	XCCW-D016	-
	H4C3A0020	ER20	1.38	2.75	1.40	1.02	XCCW-D020	-
	H4C3A0025	ER25	1.64	3.00	1.70	1.02	XCCW-D025	-
	H4C3A0032	ER32	1.97	3.25	1.80	1.02	XCCW-D032	-
	H4C3A0040	ER40	2.48	3.15	1.75	1.02	XCCW-0040	-

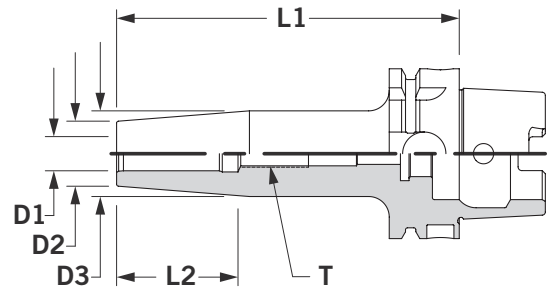
Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C4A0011	ER11	0.63	4.00	3.10	1.02	XCCW-D011	-
	H4C4A0016	ER16	1.26	4.50	2.00	1.02	XCCW-D016	XCCS-0720
	H4C4A0020	ER20	1.38	4.75	2.40	1.02	XCCW-D020	XCCS-1415
	H4C4A0025	ER25	1.64	5.00	2.80	1.02	XCCW-D025	XCCS-1815
	H4C4A0032	ER32	1.97	5.25	2.80	1.02	XCCW-D032	XCCS-2215
	H4C4A0040	ER40	2.48	4.72	2.50	1.02	XCCW-0040	XCCS-1816

Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C5A0016	ER16	1.26	6.50	3.00	1.02	XCCW-D016	XCCS-0720
	H4C5A0020	ER20	1.38	6.75	3.50	1.02	XCCW-D020	XCCS-1415
	H4C5A0025	ER25	1.64	7.00	3.50	1.02	XCCW-D025	XCCS-1815
	H4C5A0032	ER32	1.97	7.25	4.00	1.02	XCCW-D032	XCCS-2215

HSK63A Collet Chucks // ER Micro Precision® Collet Chucks

Standard ThermoLock® HSK63A

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.




Measurements are in inches unless noted (mm).

Standard ThermoLock® HSK63A Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4Y3A0250	0.250	0.79	1.00	3.13	1.38	M5 X 1	
	H4Y3A0312	0.312	0.79	1.00	3.13	1.38	M6 X 1	
	H4Y3A0375	0.375	0.79	1.00	3.13	1.57	M8 X 1	
	H4Y3A0437	0.437	0.94	1.25	3.13	1.57	M8 X 1	
	H4Y3A0500	0.500	0.94	1.25	3.13	1.77	M10 X 1	
	H4Y3A0562	0.562	1.06	1.38	3.38	1.77	M10 X 1	
	H4Y3A0625	0.625	1.06	1.38	3.38	1.77	M12 X 1	
	H4Y3A0750	0.750	1.30	1.63	3.38	2.17	M16 X 1	
	H4Y3A1000	1.000	1.73	2.05	3.38	2.17	M16 X 1	
	H4Y3A1250	1.250	1.73	2.05	3.38	2.17	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H4Y4A0250	0.250	0.79	1.00	5.00	1.38	M5 X 1	
	H4Y4A0312	0.312	0.79	1.00	5.00	1.38	M6 X 1	
	H4Y4A0375	0.375	0.79	1.00	5.00	1.57	M8 X 1	
	H4Y4A0437	0.437	0.94	1.25	5.00	1.57	M8 X 1	
	H4Y4A0500	0.500	0.94	1.25	5.00	1.77	M10 X 1	
	H4Y4A0562	0.562	1.06	1.38	5.00	1.77	M10 X 1	
	H4Y4A0625	0.625	1.06	1.38	5.00	1.77	M12 X 1	
	H4Y4A0750	0.750	1.30	1.63	5.00	2.17	M16 X 1	
	H4Y4A1000	1.000	1.73	2.05	5.00	2.17	M16 X 1	
	H4Y4A1250	1.250	1.73	2.05	5.00	2.17	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	H4Y5A0250	0.250	0.79	1.00	7.00	1.38	M5 X 1	
	H4Y5A0312	0.312	0.79	1.00	7.00	1.38	M6 X 1	
	H4Y5A0375	0.375	0.79	1.00	7.00	1.57	M8 X 1	
	H4Y5A0437	0.437	0.94	1.25	7.00	1.57	M8 X 1	
	H4Y5A0500	0.500	0.94	1.25	7.00	1.77	M10 X 1	
	H4Y5A0562	0.562	1.06	1.38	7.00	1.77	M10 X 1	
	H4Y5A0625	0.625	1.06	1.38	7.00	1.77	M12 X 1	
	H4Y5A0750	0.750	1.30	1.63	7.00	2.17	M16 X 1	
	H4Y5A1000	1.000	1.73	2.05	7.00	2.17	M16 X 1	
	H4Y5A1250	1.250	1.73	2.05	7.00	2.17	M16 X 1	

Standard ThermoLock® HSK63A Metric

HSK100A Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4Y3A8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H4Y3A8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H4Y3A8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	H4Y3A8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	H4Y3A8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	
	H4Y3A8018	18mm	33mm	42mm	95mm	55mm	M16 X 1	
	H4Y3A8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
	H4Y3A8025	25mm	44mm	52mm	115mm	55mm	M16 X 1	
	H4Y3A8032	32mm	44mm	52mm	120mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H4Y4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H4Y4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H4Y4A8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	H4Y4A8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	H4Y4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H4Y4A8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	H4Y4A8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	H4Y4A8025	25mm	44mm	52mm	130mm	55mm	M16 X 1	
	H4Y4A8032	32mm	44mm	52mm	130mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	H4Y5A8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H4Y5A8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H4Y5A8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	H4Y5A8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	H4Y5A8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	H4Y5A8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	H4Y5A8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	H4Y5A8025	25mm	44mm	52mm	160mm	55mm	M16 X 1	
	H4Y5A8032	32mm	44mm	52mm	160mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
TOOLING SYSTEMS

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Children's Lighthouse

CLASS

Overview

No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8" to 1/2", block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

View Products

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

View Product Types

Swiss Live Tooling for Star and Citizen

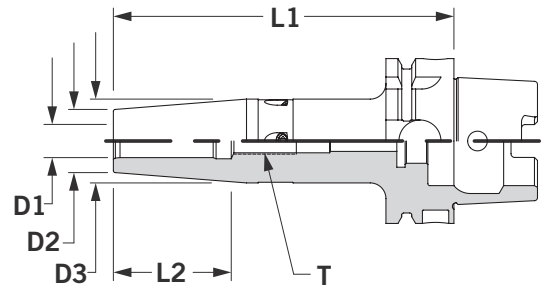
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

View Products

HP ThermoLock® HSK63A

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK63A Inch


Stub		Part Number	D1	D2	D3	L1	L2	T	
	H4L3A0125	0.125	0.39	-	3.15	-	-	-	
	H4L3A0187	0.187	0.39	-	3.15	-	-	-	
	H4L3A0250	0.250	0.83	1.06	3.15	1.38	M5 X 1		
	H4L3A0312	0.312	0.83	1.06	3.15	1.38	M6 X 1		
	H4L3A0375	0.375	0.94	1.26	3.35	1.57	M8 X 1		
	H4L3A0437	0.437	0.94	1.26	3.35	1.57	M8 X 1		
	H4L3A0500	0.500	0.94	1.26	3.54	1.77	M10 X 1		
	H4L3A0625	0.625	1.06	1.34	3.74	1.77	M12 X 1		
	H4L3A0750	0.750	1.30	1.65	3.93	2.17	M16 X 1		
	H4L3A1000	1.000	1.73	2.05	4.53	2.17	M16 X 1		
	H4L3A1250	1.250	1.73	2.05	4.72	2.17	M16 X 1		
	Standard		Part Number	D1	D2	D3	L1	L2	T
	H4L4A0250	0.250	0.83	1.06	5.12	1.38	M5 X 1		
	H4L4A0312	0.312	0.83	1.06	5.12	1.38	M6 X 1		
	H4L4A0375	0.375	0.94	1.26	5.12	1.57	M8 X 1		
	H4L4A0437	0.437	0.94	1.26	5.12	1.57	M8 X 1		
	H4L4A0500	0.500	0.94	1.26	5.12	1.77	M10 X 1		
	H4L4A0625	0.625	1.06	1.34	5.12	1.77	M12 X 1		
	H4L4A0750	0.750	1.30	1.65	5.12	2.17	M16 X 1		
	H4L4A0875	0.875	1.30	1.65	5.12	2.17	M16 X 1		
	Extended		Part Number	D1	D2	D3	L1	L2	T
		H4L5A0250	0.250	0.83	1.06	6.30	1.38	M5 X 1	
H4L5A0312		0.312	0.83	1.06	6.30	1.38	M6 X 1		
H4L5A0375		0.375	0.94	1.26	6.30	1.57	M8 X 1		
H4L5A0437		0.437	0.94	1.26	6.30	1.57	M8 X 1		
H4L5A0500		0.500	0.94	1.26	6.30	1.77	M10 X 1		
H4L5A0625		0.625	1.06	1.34	6.30	1.77	M12 X 1		
H4L5A0750		0.750	1.30	1.65	6.30	2.17	M16 X 1		
H4L5A0875		0.875	1.30	1.65	6.30	2.17	M16 X 1		
H4L5A1000		1.000	1.73	2.05	6.30	2.17	M16 X 1		
H4L5A1250		1.250	1.73	2.05	6.30	2.17	M16 X 1		
Extra Extended		Part Number	D1	D2	D3	L1	L2	T	
	H4L6A0250	0.250	0.83	1.06	7.48	1.38	M5 X 1		
	H4L6A0312	0.312	0.83	1.06	7.48	1.38	M6 X 1		
	H4L6A0375	0.375	0.94	1.26	7.48	1.57	M8 X 1		
	H4L6A0437	0.437	0.94	1.26	7.48	1.57	M8 X 1		
	H4L6A0500	0.500	0.94	1.26	7.48	1.77	M10 X 1		
	H4L6A0625	0.625	1.06	1.34	7.48	1.77	M12 X 1		
	H4L6A0750	0.750	1.30	1.65	7.48	2.17	M16 X 1		
	H4L6A0875	0.875	1.30	1.65	7.48	2.17	M16 X 1		
	H4L6A1000	1.000	1.73	2.05	7.48	2.17	M16 X 1		
	H4L6A1250	1.250	1.73	2.05	7.48	2.17	M16 X 1		


HSK63A Collet Chucks // HP ThermoLock®

HP ThermoLock® HSK63A Metric

HSK63A Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4L3A8003	3mm	10mm	-	80mm	-	-	
	H4L3A8004	4mm	10mm	-	80mm	-	-	
	H4L3A8005	5mm	10mm	-	80mm	-	-	
	H4L3A8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H4L3A8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H4L3A8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H4L3A8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H4L3A8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H4L3A8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	
	H4L3A8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
	H4L3A8025	25mm	44mm	52mm	115mm	55mm	M16 X 1	
	H4L3A8032	32mm	44mm	52mm	120mm	55mm	M16 X 1	

Standard		Part Number	D1	D2	D3	L1	L2	T
	H4L4A8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H4L4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H4L4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H4L4A8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H4L4A8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H4L4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H4L4A8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	

Extended		Part Number	D1	D2	D3	L1	L2	T
	H4L5A8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	H4L5A8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H4L5A8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H4L5A8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	H4L5A8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	H4L5A8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	H4L5A8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	H4L5A8025	25mm	44mm	52mm	160mm	55mm	M16 X 1	
	H4L5A8032	32mm	44mm	52mm	160mm	55mm	M16 X 1	

Extra Extended		Part Number	D1	D2	D3	L1	L2	T
	H4L6A8006	6mm	21mm	27mm	190mm	35mm	M5 X 1	
	H4L6A8008	8mm	21mm	27mm	190mm	35mm	M6 X 1	
	H4L6A8010	10mm	24mm	32mm	190mm	40mm	M8 X 1	
	H4L6A8012	12mm	24mm	32mm	190mm	40mm	M8 X 1	
	H4L6A8014	14mm	27mm	34mm	190mm	45mm	M10 X 1	
	H4L6A8016	16mm	27mm	34mm	190mm	45mm	M12 X 1	
	H4L6A8020	20mm	33mm	42mm	190mm	55mm	M16 X 1	
	H4L6A8025	25mm	44mm	52mm	190mm	55mm	M16 X 1	
	H4L6A8032	32mm	44mm	52mm	190mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

Home / Online Catalog / Static Holders / Thomson® Static Holders / CT40

CT40

Find a Distributor
Enter zip code
Search

Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
TOOLING SYSTEMS

Find your Representative or Local Distributor Enter your zip code

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CLASS CLASS CLASS CLASS

Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6381 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

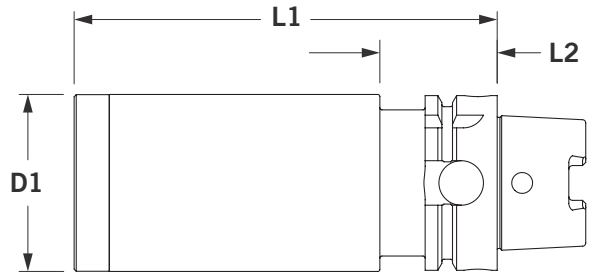
View Product Types

Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

Blank Bars HSK63A

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	410	412	414	413	424
OPTIONS				ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

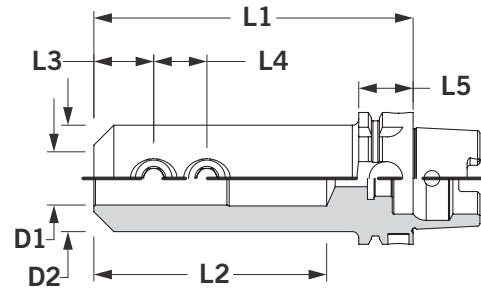
Blank Bars HSK63A

Stub	Part Number	D1	L1	L2
	H4X3A0004	2.500	6.00	1.66



End Mill HSK63A

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!



BLACK OXIDE	HSK INFO	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	13	15	354	397	410	412	414	413	424
OPTIONS			ACCESSORIES						

- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

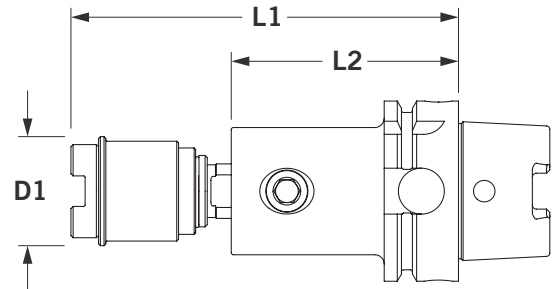
End Mill HSK63A

Stub	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	H4E3A0250	0.250	0.78	2.13	1.2	0.53	-	1.02	XEML-0428
	H4E3A0312	0.312	0.88	2.25	1.3	0.66	-	1.02	XEML-0524
	H4E3A0375	0.375	1.00	2.88	1.7	0.75	-	1.02	XEML-0624
	H4E3A0500	0.500	1.25	3.13	2.0	0.88	-	1.02	XEML-0720
	H4E3A0625	0.625	1.50	3.38	2.1	0.94	-	1.02	XEML-0720
	H4E3A0750	0.750	1.75	3.50	2.2	1.00	-	1.02	XEML-1018
	H4E3A0875	0.875	1.88	3.50	2.2	1.00	-	1.02	XEML-1018
	H4E3A1000	1.000	2.00	4.00	2.7	1.13	1.00	1.02	XEML-1216
	H4E3A1250	1.250	2.50	4.50	3.1	1.13	1.00	1.02	XEML-1216
	H4E3A1500	1.500	2.50	5.13	3.1	1.13	1.00	1.02	XEML-1216
Standard	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	H4E4A0250	0.250	0.78	4.13	3.2	0.53	-	1.02	XEML-0428
	H4E4A0312	0.312	0.88	4.25	1.5	0.66	-	1.02	XEML-0524
	H4E4A0375	0.375	1.00	4.88	1.5	0.75	-	1.02	XEML-0624
	H4E4A0500	0.500	1.25	5.13	3.0	0.88	-	1.02	XEML-0720
	H4E4A0625	0.625	1.50	0.54	3.5	0.94	-	1.02	XEML-0720
	H4E4A0750	0.750	1.75	5.50	3.9	1.00	-	1.02	XEML-1018
	H4E4A0875	0.875	1.88	5.50	4.1	1.00	-	1.02	XEML-1018
	H4E4A1000	1.000	2.00	6.00	4.3	1.13	1.00	1.02	XEML-1216
	H4E4A1250	1.250	2.50	6.50	4.0	1.13	1.00	1.02	XEML-1216
	H4E4A1500	1.500	2.50	7.13	4.0	1.13	1.00	1.02	XEML-1216
Extended	Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw
	H4E5A0250	0.250	0.78	6.13	6.5	0.53	-	1.02	XEML-0428
	H4E5A0312	0.312	0.88	6.25	1.5	0.66	-	1.02	XEML-0524
	H4E5A0375	0.375	1.00	6.88	1.5	0.75	-	1.02	XEML-0624
	H4E5A0500	0.500	1.25	7.13	3.0	0.88	-	1.02	XEML-0720
	H4E5A0625	0.625	1.50	7.38	3.5	0.94	-	1.02	XEML-0720
	H4E5A0750	0.750	1.75	7.50	3.9	1.00	-	1.02	XEML-1018
	H4E5A0875	0.875	1.88	7.50	4.1	1.00	-	1.02	XEML-1018

HSK63A Collet Chucks // End Mill Collet Chucks

Rigid Tap HSK63A

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	13	15		344	356	410	412	414	413	424
OPTIONS				ACCESSORIES							

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

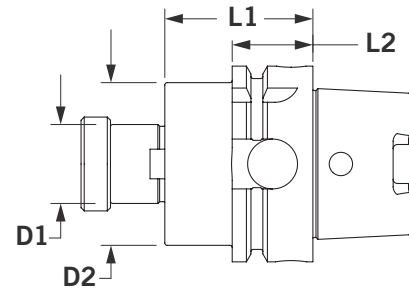
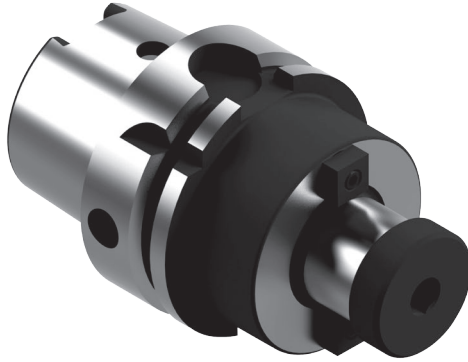
Rigid Tap HSK63A

Extra Short	Part Number	Collet #	D1	L1	L2
	H4P2A0001	#1	1.50	5.33	3.13
	H4P2A0002	#2	1.88	6.08	3.13



Shell Mill HSK63A

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!




BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	13	15		398	410	412	414	413	424
OPTIONS					ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

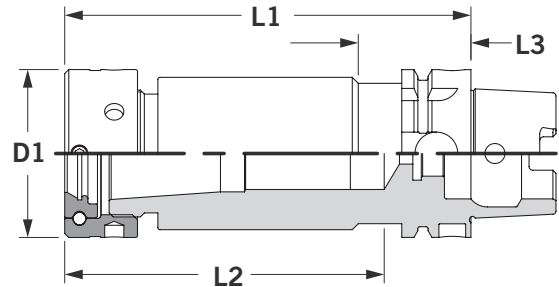
Shell Mill HSK63A

Stub	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	H4S3A0750	0.750	1.69	1.75	1.02	XSDK-0750	XSAS-0750
	H4S3A1000	1.000	2.06	1.88	1.02	XSDK-1000	XSAS-1000
	H4S3A1250	1.250	2.75	2.50	1.02	XSDK-1250	XSAS-1250
	H4S3A1500	1.500	3.81	2.75	1.02	XSDK-1500	XSAS-1500

HSK63A Collet Chucks // Shell Mill Collet Chucks

TG100 Comflex® HSK63A

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		BLUE CHIP™				TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	332	362	384	384	384	410	412	414	413	424
OPTIONS				ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® HSK63A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C3A1000	TG100	2.48	4.00	2.00	1.02	XCCW-1000	-

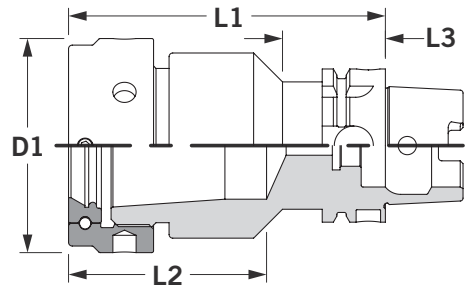
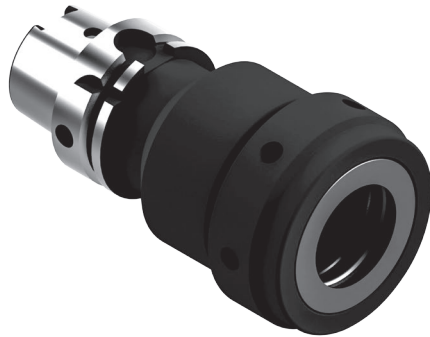


Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C4A1000	TG100	2.48	6.00	4.06	1.02	XCCW-1000	XCCS-1816



TG150 Comflex® HSK63A

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		BLUE CHIP™				TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	338	362	386	386	386	410	412	414	413	424
OPTIONS				ACCESSORIES									

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® Collet Chucks



TG150 Comflex® HSK63A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C3A1500	TG150	3.46	5.13	2.52	1.02	XCCW-1500	-



HSK63A Collet Chucks // TG150 Comflex® Collet Chucks



HSK63F Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

HSK63F Table Of Contents

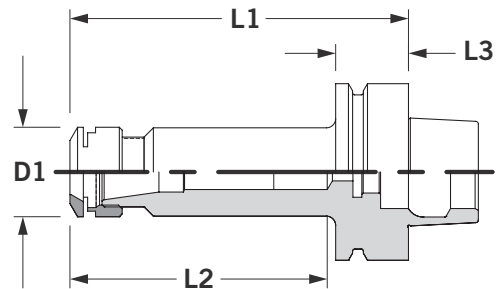
ER Micro Precision® HSK63F	262-263
Standard ThermoLock® HSK63F	264-265
HP ThermoLock® HSK63F	266-267
Shell Mill HSK63F	268-269

Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® HSK63F

- ▶ ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.




BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	296	354	362	372	372	410	412	414	413	424
OPTIONS				ACCESSORIES									


- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.


Measurements are in inches unless noted (mm).

ER Micro Precision® HSK63F

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C3F0011	ER11	0.63	2.00	1.00	1.02	XCCW-D011	-
	H4C3F0016	ER16	1.26	2.50	1.00	1.02	XCCW-FT16	-
	H4C3F0020	ER20	1.38	2.75	1.50	1.02	XCCW-FT20	-
	H4C3F0032	ER32	1.97	3.25	1.90	1.02	XCCW-FT32	-

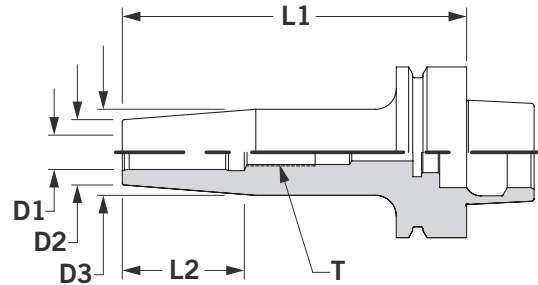
HSK63F ER16, ER20 and ER32 come with a Fine Balance™ collet nut.

Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C4F0011	ER11	0.63	4.00	3.00	1.02	XCCW-D011	-
	H4C4F0016	ER16	1.26	4.50	2.30	1.02	XCCW-FT16	XCCS-0720
	H4C4F0020	ER20	1.38	4.75	2.40	1.02	XCCW-FT20	XCCS-1415
	H4C4F0032	ER32	1.97	5.25	3.00	1.02	XCCW-FT32	XCCS-2215

Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H4C5F0020	ER20	1.38	6.75	4.40	1.02	XCCW-FT20	XCCS-1415

Standard ThermoLock® HSK63F

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.





BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					



- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).

Standard ThermoLock® HSK63F Inch

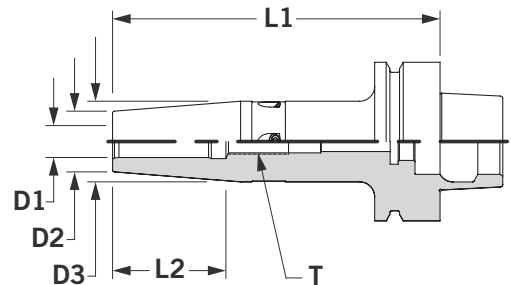
Stub		Part Number	D1	D2	D3	L1	L2	T
	H4Y3F0312	0.312	0.79	1.00	3.13	1.38	M6 X 1	
	H4Y3F0375	0.375	0.79	1.00	3.13	1.57	M8 X 1	
	H4Y3F0437	0.437	0.94	1.25	3.13	1.57	M8 X 1	
	H4Y3F0500	0.500	0.94	1.25	3.13	1.77	M10 X 1	
	H4Y3F0562	0.562	1.06	1.38	3.38	1.77	M10 X 1	
	H4Y3F0625	0.625	1.06	1.38	3.38	1.77	M12 X 1	
	H4Y3F0750	0.750	1.30	1.63	3.94	2.17	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H4Y4F0312	0.312	0.79	1.00	5.00	1.38	M6 X 1	
	H4Y4F0375	0.375	0.79	1.00	5.00	1.57	M8 X 1	
	H4Y4F0437	0.437	0.94	1.25	5.00	1.57	M8 X 1	
	H4Y4F0500	0.500	0.94	1.25	5.00	1.77	M10 X 1	
	H4Y4F0562	0.562	1.06	1.38	5.00	1.77	M10 X 1	
	H4Y4F0625	0.625	1.06	1.38	5.00	1.77	M12 X 1	
	H4Y4F0750	0.750	1.30	1.63	5.00	2.17	M16 X 1	

Standard ThermoLock® HSK63F Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4Y3F8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H4Y3F8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H4Y3F8012	12mm	24mm	32mm	90mm	45mm	M8 X 1	
	H4Y3F8014	14mm	24mm	32mm	90mm	45mm	M10 X 1	
	H4Y3F8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	
	H4Y3F8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H4Y4F8008	8mm	21mm	27mm	120mm	35mm	M6 X 1	
	H4Y4F8010	10mm	24mm	32mm	120mm	40mm	M8 X 1	
	H4Y4F8012	12mm	24mm	32mm	120mm	45mm	M8 X 1	
	H4Y4F8014	14mm	24mm	32mm	120mm	45mm	M10 X 1	
	H4Y4F8016	16mm	27mm	34mm	120mm	45mm	M12 X 1	
	H4Y4F8020	20mm	33mm	42mm	120mm	55mm	M16 X 1	

HP ThermoLock® HSK63F

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).

HP ThermoLock® HSK63F Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4L3F0125	0.125	0.39	-	3.15	-	-	-
	H4L3F0187	0.187	0.39	-	3.15	-	-	-
	H4L3F0250	0.250	0.83	1.06	3.15	1.38	M5 X 1	
	H4L3F0312	0.312	0.83	1.06	3.15	1.38	M6 X 1	
	H4L3F0375	0.375	0.94	1.26	3.35	1.57	M8 X 1	
	H4L3F0437	0.437	0.94	1.26	3.35	1.57	M8 X 1	
	H4L3F0500	0.500	0.94	1.26	3.54	1.77	M10 X 1	
	H4L3F0625	0.625	1.06	1.34	3.74	1.77	M12 X 1	
	H4L3F0750	0.750	1.30	1.65	3.93	2.17	M16 X 1	
	H4L3F1000	1.000	1.73	2.05	4.53	2.17	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H4L4F0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	H4L4F0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	H4L4F0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	H4L4F0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	H4L4F0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	H4L4F0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	
	H4L4F0750	0.750	1.30	1.65	5.12	2.17	M16 X 1	
	H4L4F1000	1.000	1.73	2.05	5.12	2.17	M16 X 1	

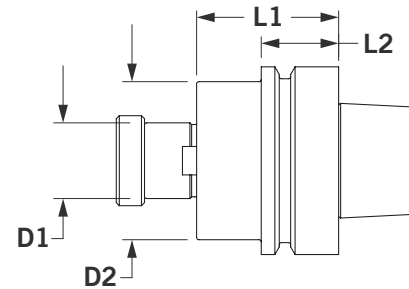
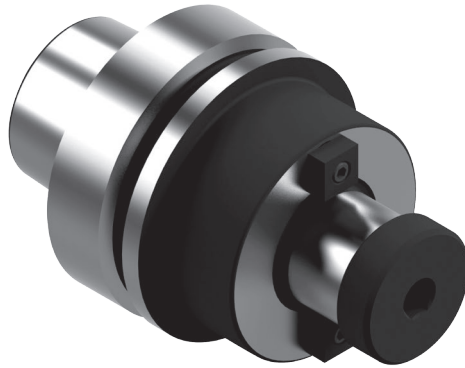
HP ThermoLock® HSK63F Metric

Stub		Part Number	D1	D2	D3	L1	L2	T
	H4L3F8003	3mm	10mm	-	80mm	-	-	-
	H4L3F8004	4mm	10mm	-	80mm	-	-	-
	H4L3F8005	5mm	10mm	-	80mm	-	-	-
	H4L3F8006	6mm	21mm	27mm	80mm	35mm	M5 X 1	
	H4L3F8008	8mm	21mm	27mm	80mm	35mm	M6 X 1	
	H4L3F8010	10mm	24mm	32mm	85mm	40mm	M8 X 1	
	H4L3F8012	12mm	24mm	32mm	90mm	40mm	M8 X 1	
	H4L3F8014	14mm	27mm	34mm	90mm	45mm	M10 X 1	
	H4L3F8016	16mm	27mm	34mm	95mm	45mm	M12 X 1	
	H4L3F8020	20mm	33mm	42mm	100mm	55mm	M16 X 1	
	H4L3F8025	25mm	44mm	52mm	115mm	55mm	M16 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	H4L4F8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H4L4F8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H4L4F8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H4L4F8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H4L4F8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H4L4F8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H4L4F8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	H4L4F8025	25mm	44mm	52mm	130mm	55mm	M16 X 1	

HSK63F Collet Chucks // HP ThermoLock®

Shell Mill HSK63F

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	13	15		398	410	412	414	413	424
OPTIONS				ACCESSORIES						

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

Measurements are in inches unless noted (mm).

Shell Mill HSK63F

Stub	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	H4S3F0750	0.750	1.69	1.75	1.02	XSDK-0750	XSAS-0750
	H4S3F1000	1.000	2.06	1.88	1.02	XSDK-1000	XSAS-1000



HSK100A Toolholders

- ▶ Command toolholders are designed for accuracy, with AT3 or better shank taper and a rigid toolholder-to-spindle mount. Our toolholders are concentric to <math><0.0002</math> (0.005mm or 5 microns) which puts the tool precisely on the spindle centerline. These benefits promote minimal tool wear, fewer tool replacements, and less scrap. With fully ground flanges and V-grooves, Command toolholders are easy on tool changers to help prevent constant spindle and changer maintenance.



► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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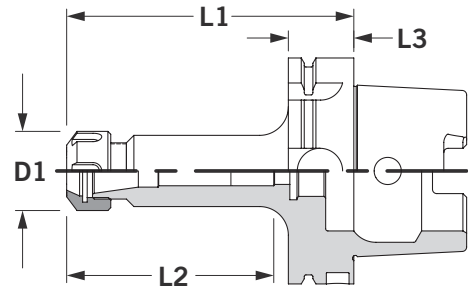
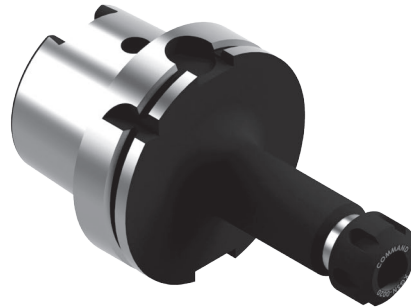
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER Micro Precision® HSK100A

ER Micro Precision® collet chucks have AT3 or better shank taper allowing accurate, rigid toolholder-to-spindle mount. A wide range of collets are available: 0.020" - 0.787" (0.5 - 20 mm), reducing collet and toolholder inventories. All ER Micro Precision® collet chuck tapers, lengths, and straight shank extensions are in stock and ready to ship.





BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	BLUE CHIP™			TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	296	354	362	372	372	410	412	414	413	424
OPTIONS				ACCESSORIES									


- + **IMPORTANT:** Maximum recommended torque is listed on page 370–371. Do not over tighten collet nut assembly.
- + ER Micro Precision® collet chucks have a flush precision closure nut that grips the tool close to the cutting edge providing accuracy and rigidity.
- + ER Micro Precision® collet chucks are concentric to 0.0002" T.I.R., which puts tool precisely on spindle centerline.
- + ER Micro Precision® collet chuck systems have less tool wear and replacement resulting in less scrap.
- + ER Micro Precision® collet chucks have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + **NOTE:** No stop screws in ER11 holders.

Measurements are in inches unless noted (mm).

ER Micro Precision® HSK100A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C3A0016	ER16	1.26	2.50	1.30	1.14	XCCW-D016	-
	H6C3A0020	ER20	1.38	3.00	1.40	1.14	XCCW-D020	-
	H6C3A0025	ER25	1.64	3.25	1.70	1.14	XCCW-D025	-
	H6C3A0032	ER32	1.97	3.38	1.80	1.14	XCCW-D032	-

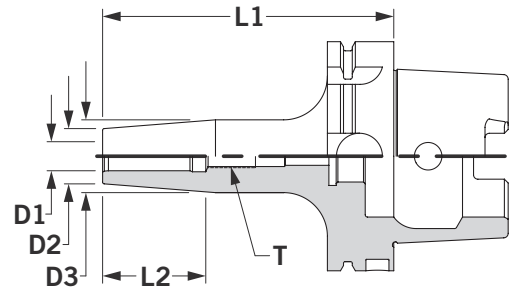
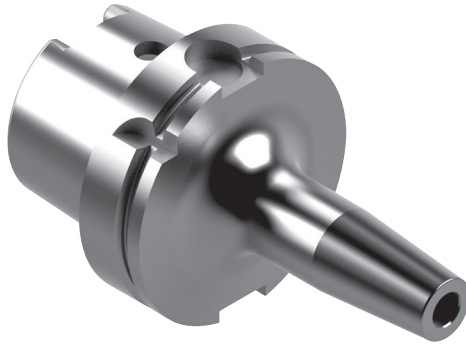
Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C4A0016	ER16	1.26	4.50	3.00	1.14	XCCW-D016	XCCS-0720
	H6C4A0020	ER20	1.38	5.00	2.40	1.14	XCCW-D020	XCCS-1415
	H6C4A0025	ER25	1.64	5.25	2.60	1.14	XCCW-D025	XCCS-1815
	H6C4A0032	ER32	1.97	5.38	2.90	1.14	XCCW-D032	XCCS-2215
	H6C4A0040	ER40	2.48	4.72	2.60	1.14	XCCW-0040	XCCS-1816

Extended	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C5A0016	ER16	1.26	6.50	3.00	1.14	XCCW-D016	XCCS-0720
	H6C5A0020	ER20	1.38	7.00	3.50	1.14	XCCW-D020	XCCS-1415
	H6C5A0025	ER25	1.64	7.25	3.50	1.14	XCCW-D025	XCCS-1815
	H6C5A0032	ER32	1.97	7.38	4.00	1.14	XCCW-D032	XCCS-2215

HSK100A Collet Chucks // ER Micro Precision® Collet Chucks

Standard ThermoLock® HSK100A

- ▶ ThermoLock® toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.




BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® toolholders have a max T.I.R. of 0.0002" and are balanced at 25,000 RPM @ G2.5.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® toolholder has been heated, it cannot be returned.
- + ThermoLock® toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® toolholders have no moving parts, set screws, collets, or collet nut.

Measurements are in inches unless noted (mm).




Standard ThermoLock® HSK100A Inch

Stub		Part Number	D1	D2	D3	L1	L2	T
	H6Y3A0250	0.250	0.79	1.00	3.38	1.38	M5 X 1	
	H6Y3A0312	0.312	0.79	1.00	3.38	1.38	M6 X 1	
	H6Y3A0375	0.375	0.79	1.00	3.63	1.57	M8 X 1	
	H6Y3A0437	0.437	0.94	1.25	3.63	1.57	M8 X 1	
	H6Y3A0500	0.500	0.94	1.25	3.63	1.77	M10 X 1	
	H6Y3A0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	
	H6Y3A0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	
	H6Y3A0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	
	H6Y3A1000	1.000	1.73	2.09	3.63	2.17	M16 X 1	
	H6Y3A1250	1.250	1.73	2.09	3.63	2.17	M16 X 1	
	Standard		Part Number	D1	D2	D3	L1	L2
	H6Y4A0250	0.250	0.79	1.00	5.00	1.38	M5 X 1	
	H6Y4A0312	0.312	0.79	1.00	5.00	1.38	M6 X 1	
	H6Y4A0375	0.375	0.79	1.00	5.00	1.57	M8 X 1	
	H6Y4A0437	0.437	0.94	1.25	5.00	1.57	M8 X 1	
	H6Y4A0500	0.500	0.94	1.25	5.00	1.77	M10 X 1	
	H6Y4A0562	0.562	1.06	1.38	5.00	1.77	M10 X 1	
	H6Y4A0625	0.625	1.06	1.38	5.00	1.77	M12 X 1	
	H6Y4A0750	0.750	1.30	1.63	5.00	2.17	M16 X 1	
	H6Y4A1000	1.000	1.73	2.09	5.00	2.17	M16 X 1	
	H6Y4A1250	1.250	1.73	2.09	5.00	2.17	M16 X 1	
	Extended		Part Number	D1	D2	D3	L1	L2
	H6Y5A0250	0.250	0.79	1.00	7.00	1.38	M5 X 1	
	H6Y5A0312	0.312	0.79	1.00	7.00	1.38	M6 X 1	
	H6Y5A0375	0.375	0.79	1.00	7.00	1.57	M8 X 1	
	H6Y5A0437	0.437	0.94	1.25	7.00	1.57	M8 X 1	
	H6Y5A0500	0.500	0.94	1.25	7.00	1.77	M10 X 1	
	H6Y5A0562	0.562	1.06	1.38	7.00	1.77	M10 X 1	
	H6Y5A0625	0.625	1.06	1.38	7.00	1.77	M12 X 1	
	H6Y5A0750	0.750	1.30	1.63	7.00	2.17	M16 X 1	
	H6Y5A1000	1.000	1.73	2.09	7.00	2.17	M16 X 1	
	H6Y5A1250	1.250	1.73	2.09	7.00	2.17	M16 X 1	

HSK100A Collet Chucks // Standard ThermoLock®

Standard ThermoLock® HSK100A Metric

HSK100A Collet Chucks // Standard ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H6Y3A8008	8mm	21mm	27mm	85mm	35mm	M6 X 1	
	H6Y3A8010	10mm	24mm	32mm	90mm	40mm	M8 X 1	
	H6Y3A8012	12mm	24mm	32mm	95mm	45mm	M8 X 1	
	H6Y3A8014	14mm	24mm	32mm	95mm	45mm	M10 X 1	
	H6Y3A8016	16mm	27mm	34mm	100mm	45mm	M12 X 1	
	H6Y3A8018	18mm	33mm	42mm	105mm	55mm	M16 X 1	
	H6Y3A8020	20mm	33mm	42mm	105mm	55mm	M16 X 1	
	H6Y3A8025	25mm	44mm	53mm	115mm	55mm	M16 X 1	
	H6Y3A8032	32mm	44mm	53mm	120mm	55mm	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H6Y4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H6Y4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H6Y4A8012	12mm	24mm	32mm	130mm	45mm	M8 X 1	
	H6Y4A8014	14mm	24mm	32mm	130mm	45mm	M10 X 1	
	H6Y4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H6Y4A8018	18mm	33mm	42mm	130mm	55mm	M16 X 1	
	H6Y4A8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	
	H6Y4A8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	H6Y4A8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	
Extended		Part Number	D1	D2	D3	L1	L2	T
	H6Y5A8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H6Y5A8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H6Y5A8012	12mm	24mm	32mm	160mm	45mm	M8 X 1	
	H6Y5A8014	14mm	24mm	32mm	160mm	45mm	M10 X 1	
	H6Y5A8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	H6Y5A8018	18mm	33mm	42mm	160mm	55mm	M16 X 1	
	H6Y5A8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	H6Y5A8025	25mm	44mm	53mm	200mm	55mm	M16 X 1	
	H6Y5A8032	32mm	44mm	53mm	200mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

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CT40

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Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
TOOLING SYSTEMS

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CLASS CLASS CLASS CLASS

Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6181 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

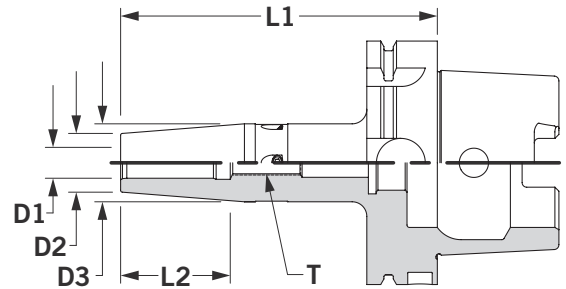
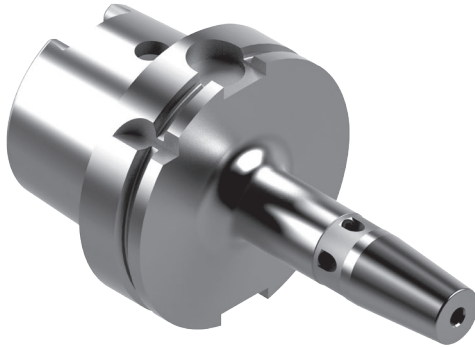
View Product Types

Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

HP ThermoLock® HSK100A

- ▶ ThermoLock® HP toolholders offer excellent clamping ability by operating on the principle of thermal induced expansion and contraction. The holder is heated, expanding the nose I.D., to accept a cutting tool. When cooled, the nose I.D. shrinks resulting in incredible gripping power over the full length of the holder/cutting tool interface.



BALANCE OPTIONS	ThermoLock® TECH. INFO	HSK INFO	COOLANT OPTIONS	ThermoLock® EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
9	10	13	15	358	410	412	414	413	424
OPTIONS				ACCESSORIES					

- + ThermoLock® HP toolholders have a max T.I.R of 0.0002" and are balanced at 25,000 RPM @ G2.5. ThermoLock® HP toolholders also include adjustable balance screws.
- + Excellent clamping and balance repeatability for higher speeds and superior cut duplication.
- + ThermoLock® HP toolholders come ready for through-the-spindle coolant. This sealed system yields optimal coolant-fed tooling performance.
- + **IMPORTANT:** Once a ThermoLock® HP toolholder has been heated, it cannot be returned.
- + ThermoLock® HP toolholders are engineered for minimized loss of accuracy across the holder/cutting tool interface.
- + Once a ThermoLock® HP holder is balanced, the only variable is the cutting tool.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + ThermoLock® HP Extended and Extra Extended gage length toolholders have a parabolic profile to maximize rigidity.

Measurements are in inches unless noted (mm).


HP ThermoLock® HSK100A Inch


Stub		Part Number	D1	D2	D3	L1	L2	T
	H6L3A0250	0.250	0.83	1.06	3.35	1.38	M5 X 1	
	H6L3A0312	0.312	0.83	1.06	3.35	1.38	M6 X 1	
	H6L3A0375	0.375	0.94	1.26	3.54	1.57	M8 X 1	
	H6L3A0437	0.437	0.94	1.26	3.54	1.57	M8 X 1	
	H6L3A0500	0.500	0.94	1.26	3.74	1.77	M10 X 1	
	H6L3A0625	0.625	1.06	1.34	3.93	1.77	M12 X 1	
	H6L3A0750	0.750	1.30	1.65	4.13	2.17	M16 X 1	
	H6L3A0875	0.875	1.30	1.65	4.33	2.17	M16 X 1	
	H6L3A1000	1.000	1.73	2.09	4.52	2.17	M16 X 1	
	H6L3A1250	1.250	1.73	2.09	4.72	2.17	M16 X 1	
Standard		Part Number	D1	D2	D3	L1	L2	T
	H6L4A0250	0.250	0.83	1.06	5.12	1.38	M5 X 1	
	H6L4A0312	0.312	0.83	1.06	5.12	1.38	M6 X 1	
	H6L4A0375	0.375	0.94	1.26	5.12	1.57	M8 X 1	
	H6L4A0437	0.437	0.94	1.26	5.12	1.57	M8 X 1	
	H6L4A0500	0.500	0.94	1.26	5.12	1.77	M10 X 1	
	H6L4A0625	0.625	1.06	1.34	5.12	1.77	M12 X 1	
	H6L4A0750	0.750	1.30	1.65	5.12	2.17	M16 X 1	
	H6L4A0875	0.875	1.30	1.65	5.12	2.17	M16 X 1	
	Extended		Part Number	D1	D2	D3	L1	L2
	H6L5A0250	0.250	0.83	1.06	6.30	1.38	M5 X 1	
	H6L5A0312	0.312	0.83	1.06	6.30	1.38	M6 X 1	
	H6L5A0375	0.375	0.94	1.26	6.30	1.57	M8 X 1	
	H6L5A0437	0.437	0.94	1.26	6.30	1.57	M8 X 1	
	H6L5A0500	0.500	0.94	1.26	6.30	1.77	M10 X 1	
	H6L5A0625	0.625	1.06	1.34	6.30	1.77	M12 X 1	
	H6L5A0750	0.750	1.30	1.65	6.30	2.17	M16 X 1	
	H6L5A0875	0.875	1.30	1.65	6.30	2.17	M16 X 1	
	H6L5A1000	1.000	1.73	2.09	6.30	2.17	M16 X 1	
H6L5A1250	1.250	1.73	2.09	6.30	2.17	M16 X 1		
Extra Extended		Part Number	D1	D2	D3	L1	L2	T
	H6L6A0250	0.250	0.83	1.06	7.48	1.38	M5 X 1	
	H6L6A0312	0.312	0.83	1.06	7.48	1.38	M6 X 1	
	H6L6A0375	0.375	0.94	1.26	7.48	1.57	M8 X 1	
	H6L6A0437	0.437	0.94	1.26	7.48	1.57	M8 X 1	
	H6L6A0500	0.500	0.94	1.26	7.48	1.77	M10 X 1	
	H6L6A0625	0.625	1.06	1.34	7.48	1.77	M12 X 1	
	H6L6A0750	0.750	1.30	1.65	7.48	2.17	M16 X 1	
	H6L6A0875	0.875	1.30	1.65	7.48	2.17	M16 X 1	
	H6L6A1000	1.000	1.73	2.09	7.48	2.17	M16 X 1	
H6L6A1250	1.250	1.73	2.09	7.48	2.17	M16 X 1		

HSK100A Collet Chucks // HP ThermoLock®

HP ThermoLock® HSK100A Metric

HSK100A Collet Chucks // HP ThermoLock®

Stub		Part Number	D1	D2	D3	L1	L2	T
	H6L3A8006	6mm	21mm	27mm	85mm	35mm	M5 X 1	
	H6L3A8008	8mm	21mm	27mm	85mm	35mm	M6 X 1	
	H6L3A8010	10mm	24mm	32mm	90mm	40mm	M8 X 1	
	H6L3A8012	12mm	24mm	32mm	95mm	40mm	M8 X 1	
	H6L3A8014	14mm	27mm	34mm	95mm	45mm	M10 X 1	
	H6L3A8016	16mm	27mm	34mm	100mm	45mm	M12 X 1	
	H6L3A8020	20mm	33mm	42mm	105mm	55mm	M16 X 1	
	H6L3A8025	25mm	44mm	53mm	115mm	55mm	M16 X 1	
	H6L3A8032	32mm	44mm	53mm	120mm	55mm	M16 X 1	

Standard		Part Number	D1	D2	D3	L1	L2	T
	H6L4A8006	6mm	21mm	27mm	130mm	35mm	M5 X 1	
	H6L4A8008	8mm	21mm	27mm	130mm	35mm	M6 X 1	
	H6L4A8010	10mm	24mm	32mm	130mm	40mm	M8 X 1	
	H6L4A8012	12mm	24mm	32mm	130mm	40mm	M8 X 1	
	H6L4A8014	14mm	27mm	34mm	130mm	45mm	M10 X 1	
	H6L4A8016	16mm	27mm	34mm	130mm	45mm	M12 X 1	
	H6L4A8020	20mm	33mm	42mm	130mm	55mm	M16 X 1	

Extended		Part Number	D1	D2	D3	L1	L2	T
	H6L5A8006	6mm	21mm	27mm	160mm	35mm	M5 X 1	
	H6L5A8008	8mm	21mm	27mm	160mm	35mm	M6 X 1	
	H6L5A8010	10mm	24mm	32mm	160mm	40mm	M8 X 1	
	H6L5A8012	12mm	24mm	32mm	160mm	40mm	M8 X 1	
	H6L5A8014	14mm	27mm	34mm	160mm	45mm	M10 X 1	
	H6L5A8016	16mm	27mm	34mm	160mm	45mm	M12 X 1	
	H6L5A8020	20mm	33mm	42mm	160mm	55mm	M16 X 1	
	H6L5A8025	25mm	44mm	53mm	160mm	55mm	M16 X 1	
	H6L5A8032	32mm	44mm	53mm	160mm	55mm	M16 X 1	

Extra Extended		Part Number	D1	D2	D3	L1	L2	T
	H6L6A8006	6mm	21mm	27mm	190mm	35mm	M5 X 1	
	H6L6A8008	8mm	21mm	27mm	190mm	35mm	M6 X 1	
	H6L6A8010	10mm	24mm	32mm	190mm	40mm	M8 X 1	
	H6L6A8012	12mm	24mm	32mm	190mm	40mm	M8 X 1	
	H6L6A8014	14mm	27mm	34mm	190mm	45mm	M10 X 1	
	H6L6A8016	16mm	27mm	34mm	190mm	45mm	M12 X 1	
	H6L6A8020	20mm	33mm	42mm	190mm	55mm	M16 X 1	
	H6L6A8025	25mm	44mm	53mm	190mm	55mm	M16 X 1	
	H6L6A8032	32mm	44mm	53mm	190mm	55mm	M16 X 1	

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

Command Tooling Systems // Online Catalog

CLASS

Home / Online Catalog / Static Holders / Thomson® Static Holders / CT40

CT40

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Enter zip code
Search

Models & Dimensions

Stub Standard Extended

Inch UOM

PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

COMMAND EWS Group
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CLASS CLASS CLASS CLASS

Command Ellison Open House
Introducing ETP HYDRO-GRIP®
New Product Announcement

Children's Lighthouse

CLASS

Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders

More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 6381 (VDI 425 B1) in all normal sizes. In addition to the standard holders, you will also find capex, HSK, T8 and A8.

Driven Tools

More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Video Catalog

View Product Types

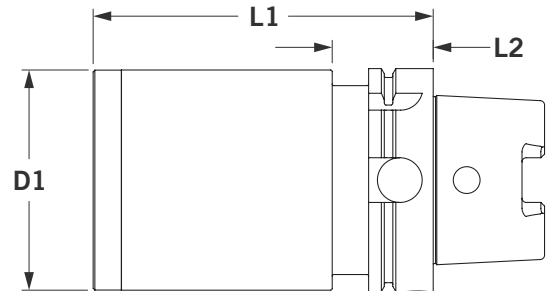
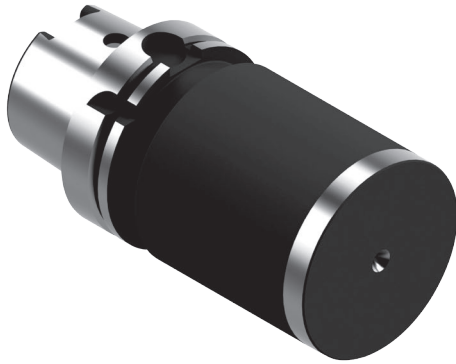
Swiss Live Tooling for Star and Citizen

All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:

- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

Blank Bars HSK100A

- ▶ Blank Bars have a case hardened shank taper and flange. Nose is unhardened for custom milling.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	410	412	414	413	424
OPTIONS				ACCESSORIES				

+ Shank taper and flange are case hardened and precision ground. Nose is unhardened 8620 alloy steel machinable for making custom and emergency holders.

+ Precision internal center eases alignment.

Measurements are in inches unless noted (mm).

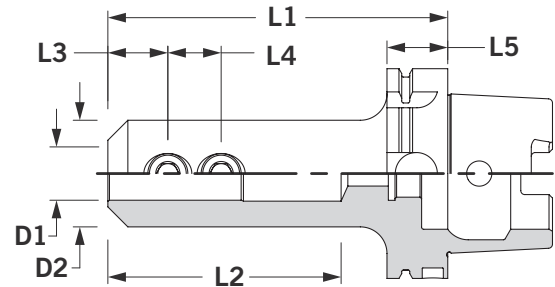
Blank Bars HSK100A

Stub	Part Number	D1	L1	L2
	H6X3A0006	3.875	6.00	1.78



End Mill HSK100A

- ▶ End Mill holders do not require collets or collet nuts, making them an economical choice. All End Mill holders are ground to AT3 or better shank taper for an accurate, rigid toolholder-to-spindle mount. All tapers and lengths are ready to ship—get your tools fast!



BLACK OXIDE	HSK INFO	COOLANT OPTIONS	COLLET EXTENSIONS	SIDE LOCK SCREWS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	13	15	354	397	410	412	414	413	424
OPTIONS			ACCESSORIES						

- + Holders through 1.000" accept double end cutters except as noted, saving on tool costs.
- + Fine thread screws match Weldon flats. Lock tight, stay tight.
- + **NOTE:** "D1" diameter of 1" or less accepts single or double end mills. Stub holders accept single end mills only. "D1" diameter of 1" and larger has 2 side lock screws except Stub which has 1 side lock screw. Side lock screw(s) included and in line with drive slot for easy orientation.
- + End Mill holders have less tool wear, tool replacement, and scrap.
- + Fully ground flange and V-groove—easy on the tool changers for less spindle and changer maintenance.
- + Extra Extended and Oversized lengths have extra strong shanks for steadying long tools so they cut smoother, faster, and last longer—indispensable for high feed rates.
- + Through-spindle coolant standard, for other coolant options see page 15.

Measurements are in inches unless noted (mm).

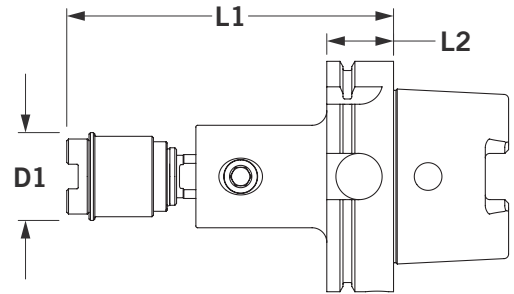
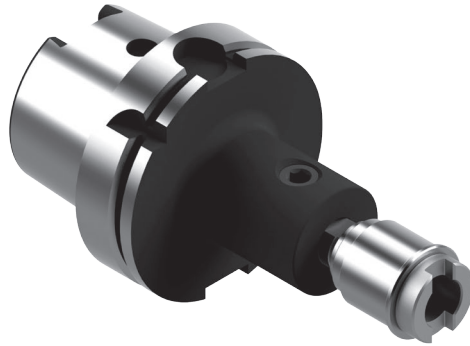
End Mill HSK100A



Stub									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
H6E3A0250	0.250	0.78	2.38	1.2	0.53	-	1.14	XEML-0428	
H6E3A0312	0.312	0.88	2.50	1.3	0.66	-	1.14	XEML-0524	
H6E3A0375	0.375	1.00	2.63	1.5	0.75	-	1.14	XEML-0624	
H6E3A0500	0.500	1.25	3.50	2.1	0.88	-	1.14	XEML-0720	
H6E3A0625	0.625	1.50	3.50	2.1	0.94	-	1.14	XEML-0720	
H6E3A0750	0.750	1.75	3.75	2.3	1.00	-	1.14	XEML-1018	
H6E3A0875	0.875	1.88	3.75	2.2	1.00	-	1.14	XEML-1018	
H6E3A1000	1.000	2.00	4.38	2.9	1.13	1.00	1.14	XEML-1216	
H6E3A1250	1.250	2.50	4.75	3.2	1.13	1.00	1.14	XEML-1216	
H6E3A1500	1.500	2.50	4.75	3.1	1.13	1.00	1.14	XEML-1216	
H6E3A2000	2.000	3.75	5.75	4.0	1.41	1.50	1.14	XEML-1614	
Standard									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
H6E4A0250	0.250	0.78	4.38	3.2	0.53	-	1.14	XEML-0428	
H6E4A0312	0.312	0.88	4.50	3.3	0.66	-	1.14	XEML-0524	
H6E4A0375	0.375	1.00	4.63	3.5	0.75	-	1.14	XEML-0624	
H6E4A0500	0.500	1.25	5.50	3.0	0.88	-	1.14	XEML-0720	
H6E4A0625	0.625	1.50	5.50	3.5	0.94	-	1.14	XEML-0720	
H6E4A0750	0.750	1.75	5.75	3.9	1.00	-	1.14	XEML-1018	
H6E4A0875	0.875	1.88	5.75	4.1	1.00	-	1.14	XEML-1018	
H6E4A1000	1.000	2.00	6.38	4.3	1.13	1.00	1.14	XEML-1216	
H6E4A1250	1.250	2.50	6.75	4.0	1.13	1.00	1.14	XEML-1216	
H6E4A1500	1.500	2.50	6.75	4.0	1.13	1.00	1.14	XEML-1216	
Extended									
Part Number	D1	D2	L1	L2	L3	L4	L5	Side Lock Screw	
H6E5A0250	0.250	0.78	6.38	5.2	0.53	-	1.14	XEML-0428	
H6E5A0312	0.312	0.88	6.50	5.3	0.66	-	1.14	XEML-0524	
H6E5A0375	0.375	1.00	6.63	5.5	0.75	-	1.14	XEML-0624	
H6E5A0500	0.500	1.25	7.50	3.0	0.88	-	1.14	XEML-0720	
H6E5A0625	0.625	1.50	7.50	3.5	0.94	-	1.14	XEML-0720	
H6E5A0750	0.750	1.75	7.75	3.9	1.00	-	1.14	XEML-1018	
H6E5A0875	0.875	1.88	7.75	4.1	1.00	-	1.14	XEML-1018	

HSK100A Collet Chucks // End Mill Collet Chucks

Rigid Tap HSK100A

- ▶ Command's Rigid Tap holders use the popular Bilz style quick change collet system, designed for rapid and easy adapter changes.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		COLLET EXTENSIONS	TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	13	15		344	356	410	412	414	413	424
OPTIONS				ACCESSORIES							

- + Rigid synchronous system for machine controls (machines with 32 bit microprocessors).
- + Extended lengths available for horizontal machining centers.

- + Uses popular Bilz style quick change collet system.
- + "L1" dimension is the assembled length including standard tap collet.

Measurements are in inches unless noted (mm).

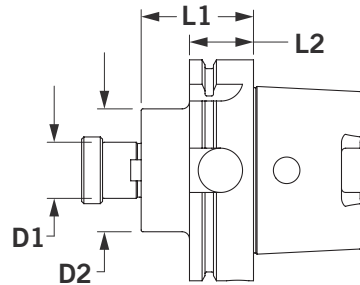
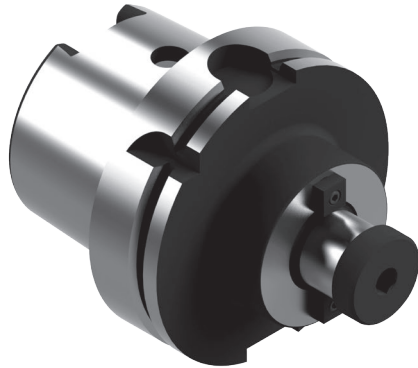
Rigid Tap HSK100A

Extra Short	Part Number	Collet #	D1	L1	L2
	H6P2A0001	#1	1.50	5.58	1.14
	H6P2A0002	#2	1.88	6.33	1.14



Shell Mill HSK100A

- ▶ Shell Mill holders pilot diameter is sized for precision fit with cutter. Removable/replaceable drive keys included; fine thread locking screw included. All tapers and lengths are ready to ship, get your tools fast!




BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING	
5	9	13	15		398	410	412	414	413	424
OPTIONS					ACCESSORIES					

- + For balance options see page 9
- + Face perpendicular to centerline within 0.0002".
- + Toolholder includes drive key and fine thread locking screw.
- + Part numbers for replacements listed in table at right, and on page 398–399.
- + **NOTE:** Drive keys are in line with drive slot.
- + AT3 or better shank taper for accurate, rigid toolholder-to-spindle mount.
- + Less tool wear and replacement; less scrap.
- + Fully ground flange and V-groove—easy on tool changers for less spindle and changer maintenance.
- + 2" and 2.5" Shell Mill holders also have four (4) 5/8"-11 threaded holes on a 4" bolt circle.

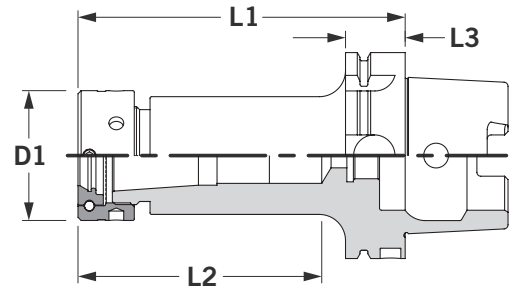
Measurements are in inches unless noted (mm).

Shell Mill HSK100A

Stub	Part Number	D1	D1	L1	L2	Drive Key	Lock Screw
	H6S3A0750	0.750	1.69	1.88	1.14	XSDK-0750	XSAS-0750
	H6S3A1000	1.000	2.19	2.00	1.14	XSDK-1000	XSAS-1000
	H6S3A1250	1.250	2.75	2.25	1.14	XSDK-1250	XSAS-1250
	H6S3A1500	1.500	3.81	2.50	1.14	XSDK-1500	XSAS-1500
	H6S3A2000	2.000	4.88	3.50	1.14	XSDK-2000	XSAS-2000

TG100 Comflex® HSK100A

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		BLUE CHIP™				TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	332	362	384	384	384	410	412	414	413	424
OPTIONS				ACCESSORIES									

- + TG100 Collets range from 0.078”-1.000”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG100 Comflex® HSK100A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C3A1000	TG100	2.48	4.25	2.00	1.14	XCCW-1000	-

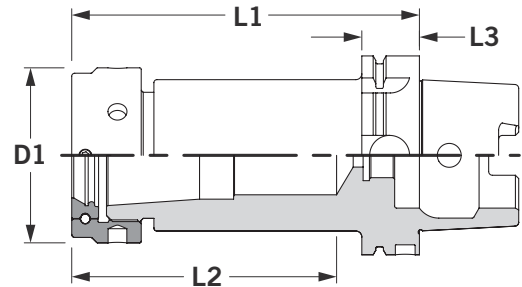


Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C4A1000	TG100	2.48	6.25	4.00	1.14	XCCW-1000	XCCS-1816



TG150 Comflex® HSK100A

- ▶ The key reason for the Comflex® collet systems accuracy and gripping power is a unique flush nut design. It incorporates a rotating ball assembly producing a “radial float”. This, in effect, forces the collet to self-center for maximum grip, highest precision, and minimum tool wear.



BLACK OXIDE	BALANCE OPTIONS	HSK INFO	COOLANT OPTIONS		BLUE CHIP™				TORQUE VALUES & WRENCHES	HSK ACCESS.	SETUP HOLDING FIXTURES	TOOLING ACCESS.	TOOL CARTS & WORK HOLDING
5	9	13	15	338	362	386	386	386	410	412	414	413	424
OPTIONS				ACCESSORIES									

- + TG150 Collets range from 0.484” - 1.500”.
- + Comflex® collet systems provide the flexibility to mill, drill, and ream.
- + Comflex® collet systems have an AT3 or better shank taper providing accurate, rigid toolholder-to-spindle mount.
- + **IMPORTANT:** Maximum recommended torque is 60 ft-lb. Do not over tighten collet nut assembly.
- + Comflex® collet systems result in less tool wear and replacement resulting in less scrap.
- + Comflex® collet systems have a fully ground flange and V-groove reducing spindle and changer maintenance.
- + Add -C at end of part number to specify stop screw with coolant passage.
- + Comflex® TG collets are interchangeable with Erickson-type collets.

Measurements are in inches unless noted (mm).

TG150 Comflex® HSK100A

Stub	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C3A1500	TG150	3.46	4.88	2.52	1.14	XCCW-1500	-



Standard	Part Number	Size	D1	L1	L2	L3	Wrench	Stop Screw
	H6C4A1500	TG150	3.46	6.88	4.55	1.14	XCCW-1500	-



Accessories Collets

- ▶ Replacement collets, extensions and coolant systems extend the capacities of existing toolholders. Contact Command Customer Service for specific requirements.



► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

Accessories Collets

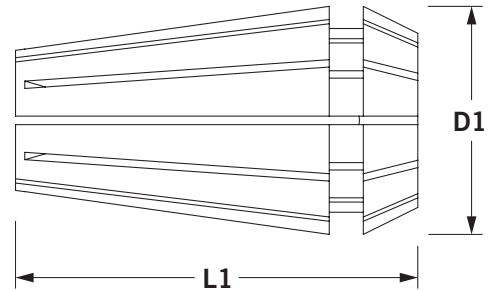
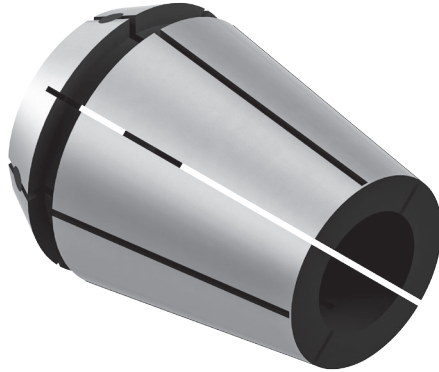
ER16-40 External Coolant Collets	296-301
ER16-40 Rubber Sealed Collets.....	302-307
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Blue Chip™	362-367

Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

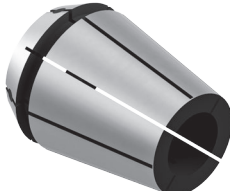
Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

ER16 External Coolant Collets

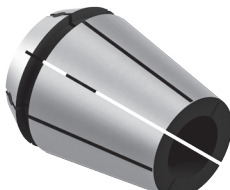
- ▶ External coolant collets are available for Micro Precision® ER collet chucks. External coolant collets have a collapse range of 0.005", and a maximum of 600 PSI. External coolant collets are compatible with DR, RD, ESX, AR & BR collets.




ER16 External Coolant Collets Inch

External Coolant	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER16-F125EC	0.125	3.2	1.083	0.679	ER16-9FSTEC
	ER16-F156EC	0.156	4.0	1.083	0.679	ER16-9FSTEC
	ER16-F187EC	0.187	4.7	1.083	0.679	ER16-9FSTEC
	ER16-F218EC	0.218	5.5	1.083	0.679	ER16-9FSTEC
	ER16-F250EC	0.250	6.4	1.083	0.679	ER16-9FSTEC
	ER16-F281EC	0.281	7.1	1.083	0.679	ER16-9FSTEC
	ER16-F312EC	0.312	7.9	1.083	0.679	ER16-9FSTEC
	ER16-F343EC	0.343	8.7	1.083	0.679	ER16-9FSTEC
	ER16-F375EC	0.375	9.5	1.083	0.679	ER16-9FSTEC


External Coolant ER16 Collets Metric

External Coolant (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER16-0300EC	3.0	0.118	1.083	0.679	ER16-08STEC
	ER16-0400EC	4.0	0.157	1.083	0.679	ER16-08STEC
	ER16-0500EC	5.0	0.197	1.083	0.679	ER16-08STEC
	ER16-0600EC	6.0	0.236	1.083	0.679	ER16-08STEC
	ER16-0700EC	7.0	0.276	1.083	0.679	ER16-08STEC
	ER16-0800EC	8.0	0.315	1.083	0.679	ER16-08STEC
	ER16-0900EC	9.0	0.354	1.083	0.679	ER16-08STEC
	ER16-1000EC	10.0	0.394	1.083	0.679	ER16-08STEC

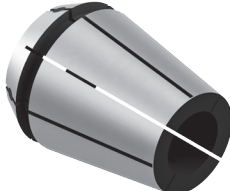
ER20 External Coolant Collets Inch

External Coolant	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER20-F125EC	0.125	3.2	1.240	0.839	ER20-13STEC
	ER20-F156EC	0.156	4.0	1.240	0.839	ER20-13STEC
	ER20-F187EC	0.187	4.7	1.240	0.839	ER20-13STEC
	ER20-F218EC	0.218	5.5	1.240	0.839	ER20-13STEC
	ER20-F250EC	0.250	6.4	1.240	0.839	ER20-13STEC
	ER20-F281EC	0.281	7.1	1.240	0.839	ER20-13STEC
	ER20-F312EC	0.312	7.9	1.240	0.839	ER20-13STEC
	ER20-F343EC	0.343	8.7	1.240	0.839	ER20-13STEC
	ER20-F375EC	0.375	9.5	1.240	0.839	ER20-13STEC
	ER20-F406EC	0.406	10.3	1.240	0.839	ER20-13STEC
	ER20-F437EC	0.437	11.1	1.240	0.839	ER20-13STEC
	ER20-F468EC	0.468	11.9	1.240	0.839	ER20-13STEC
	ER20-F500EC	0.500	12.7	1.240	0.839	ER20-13STEC


External Coolant ER20 Collets Metric

External Coolant (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER20-0300EC	3.0	0.118	1.240	0.839	ER20-11STEC
	ER20-0400EC	4.0	0.157	1.240	0.839	ER20-11STEC
	ER20-0500EC	5.0	0.197	1.240	0.839	ER20-11STEC
	ER20-0600EC	6.0	0.236	1.240	0.839	ER20-11STEC
	ER20-0700EC	7.0	0.276	1.240	0.839	ER20-11STEC
	ER20-0800EC	8.0	0.315	1.240	0.839	ER20-11STEC
	ER20-0900EC	9.0	0.354	1.240	0.839	ER20-11STEC
	ER20-1000EC	10.0	0.394	1.240	0.839	ER20-11STEC
	ER20-1100EC	11.0	0.433	1.240	0.839	ER20-11STEC
	ER20-1200EC	12.0	0.472	1.240	0.839	ER20-11STEC
	ER20-1300EC	13.0	0.512	1.240	0.839	ER20-11STEC


ER25 External Coolant Collets Inch

External Coolant	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER25-F125EC	0.125	3.2	1.339	1.035	ER25-09STEC
	ER25-F187EC	0.187	4.7	1.339	1.035	ER25-09STEC
	ER25-F250EC	0.250	6.4	1.339	1.035	ER25-09STEC
	ER25-F312EC	0.312	7.9	1.339	1.035	ER25-09STEC
	ER25-F375EC	0.375	9.5	1.339	1.035	ER25-09STEC
	ER25-F437EC	0.437	11.1	1.339	1.035	ER25-09STEC
	ER25-F500EC	0.500	12.7	1.339	1.035	ER25-09STEC
	ER25-F562EC	0.562	14.3	1.339	1.035	ER25-09STEC
	ER25-F625EC	0.625	15.9	1.339	1.035	ER25-09STEC


External Coolant ER25 Collets Metric

External Coolant (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER25-0300EC	3.0	0.118	1.339	1.035	ER25-14STEC
	ER25-0400EC	4.0	0.157	1.339	1.035	ER25-14STEC
	ER25-0500EC	5.0	0.197	1.339	1.035	ER25-14STEC
	ER25-0600EC	6.0	0.236	1.339	1.035	ER25-14STEC
	ER25-0700EC	7.0	0.276	1.339	1.035	ER25-14STEC
	ER25-0800EC	8.0	0.315	1.339	1.035	ER25-14STEC
	ER25-0900EC	9.0	0.354	1.339	1.035	ER25-14STEC
	ER25-1000EC	10.0	0.394	1.339	1.035	ER25-14STEC
	ER25-1100EC	11.0	0.433	1.339	1.035	ER25-14STEC
	ER25-1200EC	12.0	0.472	1.339	1.035	ER25-14STEC
	ER25-1300EC	13.0	0.512	1.339	1.035	ER25-14STEC
	ER25-1400EC	14.0	0.551	1.339	1.035	ER25-14STEC
	ER25-1500EC	15.0	0.591	1.339	1.035	ER25-14STEC
	ER25-1600EC	16.0	0.630	1.339	1.035	ER25-14STEC

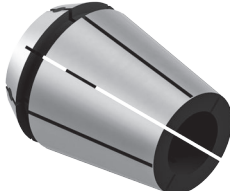
ER32 External Coolant Collets Inch

External Coolant	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER32-F125EC	0.125	3.2	1.575	1.313	ER32-11STEC
	ER32-F187EC	0.187	4.7	1.575	1.313	ER32-11STEC
	ER32-F250EC	0.250	6.4	1.575	1.313	ER32-11STEC
	ER32-F281EC	0.281	7.1	1.575	1.313	-
	ER32-F312EC	0.312	7.9	1.575	1.313	ER32-11STEC
	ER32-F375EC	0.375	9.5	1.575	1.313	ER32-11STEC
	ER32-F437EC	0.437	11.1	1.575	1.313	ER32-11STEC
	ER32-F500EC	0.500	12.7	1.575	1.313	ER32-11STEC
	ER32-F562EC	0.562	14.3	1.575	1.313	ER32-11STEC
	ER32-F625EC	0.625	15.9	1.575	1.313	ER32-11STEC
	ER32-F687EC	0.687	17.4	1.575	1.313	ER32-11STEC
	ER32-F750EC	0.750	19.0	1.575	1.313	ER32-11STEC


External Coolant ER32 Collets Metric

External Coolant (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER32-0400EC	4.0	0.157	1.575	1.313	ER32-17STEC
	ER32-0500EC	5.0	0.197	1.575	1.313	ER32-17STEC
	ER32-0600EC	6.0	0.236	1.575	1.313	ER32-17STEC
	ER32-0700EC	7.0	0.276	1.575	1.313	ER32-17STEC
	ER32-0800EC	8.0	0.315	1.575	1.313	ER32-17STEC
	ER32-0900EC	9.0	0.354	1.575	1.313	ER32-17STEC
	ER32-1000EC	10.0	0.394	1.575	1.313	ER32-17STEC
	ER32-1100EC	11.0	0.433	1.575	1.313	ER32-17STEC
	ER32-1200EC	12.0	0.472	1.575	1.313	ER32-17STEC
	ER32-1300EC	13.0	0.512	1.575	1.313	ER32-17STEC
	ER32-1400EC	14.0	0.551	1.575	1.313	ER32-17STEC
	ER32-1500EC	15.0	0.591	1.575	1.313	ER32-17STEC
	ER32-1600EC	16.0	0.630	1.575	1.313	ER32-17STEC
	ER32-1700EC	17.0	0.669	1.575	1.313	ER32-17STEC
	ER32-1800EC	18.0	0.709	1.575	1.313	ER32-17STEC
	ER32-1900EC	19.0	0.748	1.575	1.313	ER32-17STEC
	ER32-2000EC	20.0	0.787	1.575	1.313	ER32-17STEC

ER40 External Coolant Collets Inch

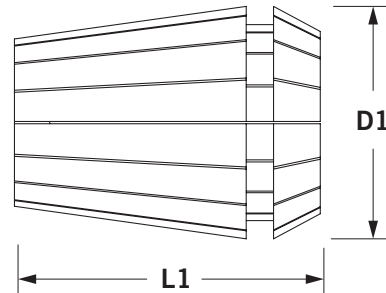
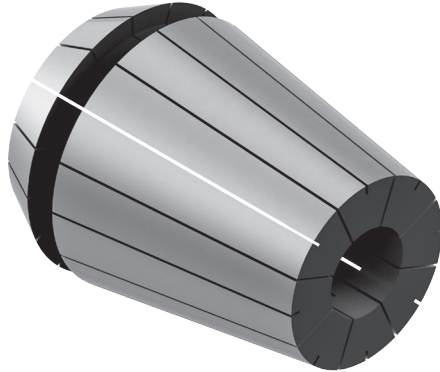
External Coolant	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER40-F125EC	0.125	3.2	1.811	1.614	ER40-15STEC
	ER40-F187EC	0.187	4.7	1.811	1.614	ER40-15STEC
	ER40-F250EC	0.250	6.4	1.811	1.614	ER40-15STEC
	ER40-F312EC	0.312	7.9	1.811	1.614	ER40-15STEC
	ER40-F375EC	0.375	9.5	1.811	1.614	ER40-15STEC
	ER40-F437EC	0.437	11.1	1.811	1.614	ER40-15STEC
	ER40-F500EC	0.500	12.7	1.811	1.614	ER40-15STEC
	ER40-F562EC	0.562	14.3	1.811	1.614	ER40-15STEC
	ER40-F625EC	0.625	15.9	1.811	1.614	ER40-15STEC
	ER40-F687EC	0.687	17.4	1.811	1.614	ER40-15STEC
	ER40-F750EC	0.750	19.0	1.811	1.614	ER40-15STEC
	ER40-F812EC	0.812	20.6	1.811	1.614	ER40-15STEC
	ER40-F875EC	0.875	22.2	1.811	1.614	ER40-15STEC
	ER40-F937EC	0.937	23.8	1.811	1.614	ER40-15STEC
	ER40-F100EC	1.000	25.4	1.811	1.614	ER40-15STEC

External Coolant ER40 Collets Metric

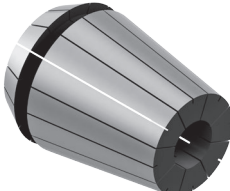
External Coolant (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER40-0400EC	4.0	0.157	1.811	1.614	ER40-23STEC
	ER40-0500EC	5.0	0.197	1.811	1.614	ER40-23STEC
	ER40-0600EC	6.0	0.236	1.811	1.614	ER40-23STEC
	ER40-0700EC	7.0	0.276	1.811	1.614	ER40-23STEC
	ER40-0800EC	8.0	0.315	1.811	1.614	ER40-23STEC
	ER40-0900EC	9.0	0.354	1.811	1.614	ER40-23STEC
	ER40-1000EC	10.0	0.394	1.811	1.614	ER40-23STEC
	ER40-1100EC	11.0	0.433	1.811	1.614	ER40-23STEC
	ER40-1200EC	12.0	0.472	1.811	1.614	ER40-23STEC
	ER40-1300EC	13.0	0.512	1.811	1.614	ER40-23STEC
	ER40-1400EC	14.0	0.551	1.811	1.614	ER40-23STEC
	ER40-1500EC	15.0	0.591	1.811	1.614	ER40-23STEC
	ER40-1600EC	16.0	0.63	1.811	1.614	ER40-23STEC
	ER40-1700EC	17.0	0.669	1.811	1.614	ER40-23STEC
	ER40-1800EC	18.0	0.709	1.811	1.614	ER40-23STEC
	ER40-1900EC	19.0	0.748	1.811	1.614	ER40-23STEC
	ER40-2000EC	20.0	0.787	1.811	1.614	ER40-23STEC
	ER40-2100EC	21.0	0.827	1.811	1.614	ER40-23STEC
	ER40-2200EC	22.0	0.866	1.811	1.614	ER40-23STEC
	ER40-2300EC	23.0	0.906	1.811	1.614	ER40-23STEC
ER40-2400EC	24.0	0.945	1.811	1.614	ER40-23STEC	
ER40-2500EC	25.0	0.984	1.811	1.614	ER40-23STEC	
ER40-2600EC	26.0	1.023	1.811	1.614	ER40-23STEC	

ER16 Rubber Sealed Collets

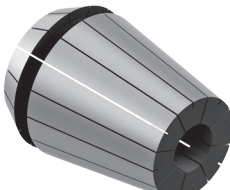
- ▶ Rubber sealed collets are available for Micro Precision® ER and Comflex® TG collets. Rubber sealed collets have a collapse range of 0.005" and a maximum of 600 PSI. Rubber sealed collets are compatible with DR, RD, ESX, AR & BR collets.



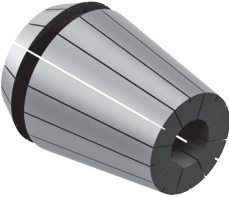
ER16 Rubber Sealed Collets Inch

Rubber Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER16-F125S	0.125	3.2	1.083	0.679	ER16-09STS
	ER16-F156S	0.156	4.0	1.083	0.679	ER16-09STS
	ER16-F187S	0.187	4.7	1.083	0.679	ER16-09STS
	ER16-F218S	0.218	5.5	1.083	0.679	ER16-09STS
	ER16-F250S	0.250	6.4	1.083	0.679	ER16-09STS
	ER16-F281S	0.281	7.1	1.083	0.679	ER16-09STS
	ER16-F312S	0.312	7.9	1.083	0.679	ER16-09STS
	ER16-F343S	0.343	8.7	1.083	0.679	ER16-09STS
	ER16-F375S	0.375	9.5	1.083	0.679	ER16-09STS

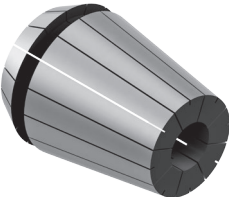
ER16 Rubber Sealed Collets Metric

Rubber Sealed (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER16-0300S	3.0	0.118	1.083	0.679	ER16-08STS
	ER16-0400S	4.0	0.157	1.083	0.679	ER16-08STS
	ER16-0500S	5.0	0.197	1.083	0.679	ER16-08STS
	ER16-0600S	6.0	0.236	1.083	0.679	ER16-08STS
	ER16-0700S	7.0	0.276	1.083	0.679	ER16-08STS
	ER16-0800S	8.0	0.315	1.083	0.679	ER16-08STS
	ER16-0900S	9.0	0.354	1.083	0.679	ER16-08STS
	ER16-1000S	10.0	0.394	1.083	0.679	ER16-08STS

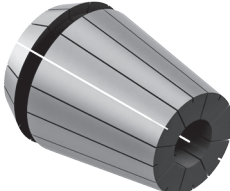
ER20 Rubber Sealed Collets Inch

Rubber Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER20-F125S	0.125	3.2	1.240	0.839	ER20-13STS
	ER20-F156S	0.156	4.0	1.240	0.839	ER20-13STS
	ER20-F187S	0.187	4.7	1.240	0.839	ER20-13STS
	ER20-F218S	0.218	5.5	1.240	0.839	ER20-13STS
	ER20-F250S	0.250	6.4	1.240	0.839	ER20-13STS
	ER20-F281S	0.281	7.1	1.240	0.839	ER20-13STS
	ER20-F312S	0.312	7.9	1.240	0.839	ER20-13STS
	ER20-F343S	0.343	8.7	1.240	0.839	ER20-13STS
	ER20-F375S	0.375	9.5	1.240	0.839	ER20-13STS
	ER20-F406S	0.406	10.3	1.240	0.839	ER20-13STS
	ER20-F437S	0.437	11.1	1.240	0.839	ER20-13STS
	ER20-F468S	0.468	11.9	1.240	0.839	ER20-13STS
	ER20-F500S	0.500	12.7	1.240	0.839	ER20-13STS

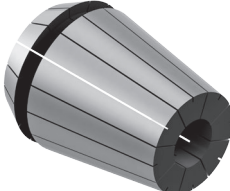
ER20 Rubber Sealed Collets Metric

Rubber Sealed (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER20-0300S	3.0	0.118	1.240	0.839	ER20-11STS
	ER20-0400S	4.0	0.157	1.240	0.839	ER20-11STS
	ER20-0500S	5.0	0.197	1.240	0.839	ER20-11STS
	ER20-0600S	6.0	0.236	1.240	0.839	ER20-11STS
	ER20-0700S	7.0	0.276	1.240	0.839	ER20-11STS
	ER20-0800S	8.0	0.315	1.240	0.839	ER20-11STS
	ER20-0900S	9.0	0.354	1.240	0.839	ER20-11STS
	ER20-1000S	10.0	0.394	1.240	0.839	ER20-11STS
	ER20-1100S	11.0	0.433	1.240	0.839	ER20-11STS
	ER20-1200S	12.0	0.472	1.240	0.839	ER20-11STS
	ER20-1300S	13.0	0.512	1.240	0.839	ER20-11STS

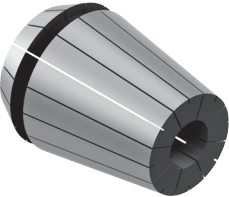
ER25 Rubber Sealed Collets Inch

Rubber Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER25-F125S	0.125	3.2	1.339	1.035	ER25-09STS
	ER25-F187S	0.187	4.7	1.339	1.035	ER25-09STS
	ER25-F250S	0.250	6.4	1.339	1.035	ER25-09STS
	ER25-F312S	0.312	7.9	1.339	1.035	ER25-09STS
	ER25-F375S	0.375	9.5	1.339	1.035	ER25-09STS
	ER25-F437S	0.437	11.1	1.339	1.035	ER25-09STS
	ER25-F500S	0.500	12.7	1.339	1.035	ER25-09STS
	ER25-F562S	0.562	14.3	1.339	1.035	ER25-09STS
	ER25-F625S	0.625	15.9	1.339	1.035	ER25-09STS

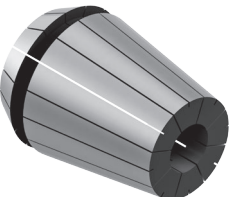
ER25 Rubber Sealed Collets Metric

Rubber Sealed (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER25-0300S	3.0	0.118	1.339	1.035	ER25-14STS
	ER25-0400S	4.0	0.157	1.339	1.035	ER25-14STS
	ER25-0500S	5.0	0.197	1.339	1.035	ER25-14STS
	ER25-0600S	6.0	0.236	1.339	1.035	ER25-14STS
	ER25-0700S	7.0	0.276	1.339	1.035	ER25-14STS
	ER25-0800S	8.0	0.315	1.339	1.035	ER25-14STS
	ER25-0900S	9.0	0.354	1.339	1.035	ER25-14STS
	ER25-1000S	10.0	0.394	1.339	1.035	ER25-14STS
	ER25-1100S	11.0	0.433	1.339	1.035	ER25-14STS
	ER25-1200S	12.0	0.472	1.339	1.035	ER25-14STS
	ER25-1300S	13.0	0.512	1.339	1.035	ER25-14STS
	ER25-1400S	14.0	0.551	1.339	1.035	ER25-14STS
	ER25-1500S	15.0	0.591	1.339	1.035	ER25-14STS
	ER25-1600S	16.0	0.630	1.339	1.035	ER25-14STS

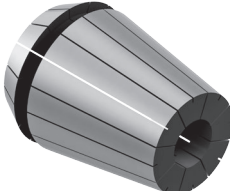
ER32 Rubber Sealed Collets Inch

Rubber Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER32-F125S	0.125	3.2	1.575	1.313	ER32-11STS
	ER32-F187S	0.187	4.7	1.575	1.313	ER32-11STS
	ER32-F250S	0.250	6.4	1.575	1.313	ER32-11STS
	ER32-F281S	0.281	7.1	1.575	1.313	-
	ER32-F312S	0.312	7.9	1.575	1.313	ER32-11STS
	ER32-F375S	0.375	9.5	1.575	1.313	ER32-11STS
	ER32-F437S	0.437	11.1	1.575	1.313	ER32-11STS
	ER32-F500S	0.500	12.7	1.575	1.313	ER32-11STS
	ER32-F562S	0.562	14.3	1.575	1.313	ER32-11STS
	ER32-F625S	0.625	15.9	1.575	1.313	ER32-11STS
	ER32-F687S	0.687	17.4	1.575	1.313	ER32-11STS
	ER32-F750S	0.750	19.0	1.575	1.313	ER32-11STS

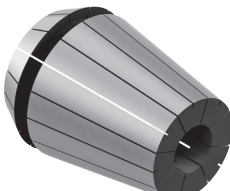
ER32 Rubber Sealed Collets Metric

Rubber Sealed (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER32-0400S	4.0	0.157	1.575	1.313	ER32-17STS
	ER32-0500S	5.0	0.197	1.575	1.313	ER32-17STS
	ER32-0600S	6.0	0.236	1.575	1.313	ER32-17STS
	ER32-0700S	7.0	0.276	1.575	1.313	ER32-17STS
	ER32-0800S	8.0	0.315	1.575	1.313	ER32-17STS
	ER32-0900S	9.0	0.354	1.575	1.313	ER32-17STS
	ER32-1000S	10.0	0.394	1.575	1.313	ER32-17STS
	ER32-1100S	11.0	0.433	1.575	1.313	ER32-17STS
	ER32-1200S	12.0	0.472	1.575	1.313	ER32-17STS
	ER32-1300S	13.0	0.512	1.575	1.313	ER32-17STS
	ER32-1400S	14.0	0.551	1.575	1.313	ER32-17STS
	ER32-1500S	15.0	0.591	1.575	1.313	ER32-17STS
	ER32-1600S	16.0	0.630	1.575	1.313	ER32-17STS
	ER32-1700S	17.0	0.669	1.575	1.313	ER32-17STS
	ER32-1800S	18.0	0.709	1.575	1.313	ER32-17STS
	ER32-1900S	19.0	0.748	1.575	1.313	ER32-17STS
	ER32-2000S	20.0	0.787	1.575	1.313	ER32-17STS

ER40 Rubber Sealed Collets Inch

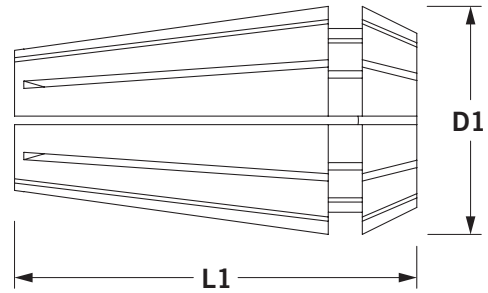
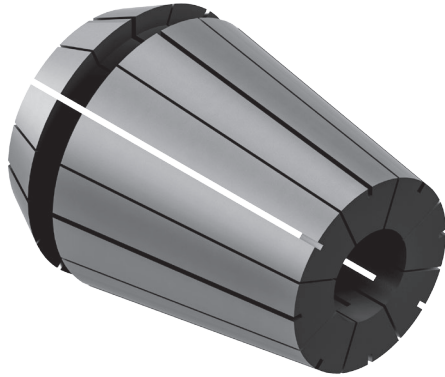
Rubber Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER40-F125S	0.125	3.2	1.811	1.614	ER40-15STS
	ER40-F187S	0.187	4.7	1.811	1.614	ER40-15STS
	ER40-F250S	0.250	6.4	1.811	1.614	ER40-15STS
	ER40-F312S	0.312	7.9	1.811	1.614	ER40-15STS
	ER40-F375S	0.375	9.5	1.811	1.614	ER40-15STS
	ER40-F437S	0.437	11.1	1.811	1.614	ER40-15STS
	ER40-F500S	0.500	12.7	1.811	1.614	ER40-15STS
	ER40-F562S	0.562	14.3	1.811	1.614	ER40-15STS
	ER40-F625S	0.625	15.9	1.811	1.614	ER40-15STS
	ER40-F687S	0.687	17.4	1.811	1.614	ER40-15STS
	ER40-F750S	0.750	19.0	1.811	1.614	ER40-15STS
	ER40-F812S	0.812	20.6	1.811	1.614	ER40-15STS
	ER40-F875S	0.875	22.2	1.811	1.614	ER40-15STS
	ER40-F937S	0.937	23.8	1.811	1.614	ER40-15STS
	ER40-F100S	1.000	25.4	1.811	1.614	ER40-15STS

ER40 Rubber Sealed Collets Metric

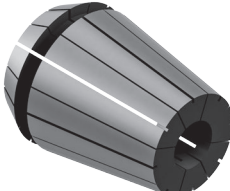
Rubber Sealed (mm)	Part Number	Size (mm)	Reference Size	L1	D1	Collet Set Part No.
	ER40-0400S	4.0	0.157	1.811	1.614	ER40-23STS
	ER40-0500S	5.0	0.197	1.811	1.614	ER40-23STS
	ER40-0600S	6.0	0.236	1.811	1.614	ER40-23STS
	ER40-0700S	7.0	0.276	1.811	1.614	ER40-23STS
	ER40-0800S	8.0	0.315	1.811	1.614	ER40-23STS
	ER40-0900S	9.0	0.354	1.811	1.614	ER40-23STS
	ER40-1000S	10.0	0.394	1.811	1.614	ER40-23STS
	ER40-1100S	11.0	0.433	1.811	1.614	ER40-23STS
	ER40-1200S	12.0	0.472	1.811	1.614	ER40-23STS
	ER40-1300S	13.0	0.512	1.811	1.614	ER40-23STS
	ER40-1400S	14.0	0.551	1.811	1.614	ER40-23STS
	ER40-1500S	15.0	0.591	1.811	1.614	ER40-23STS
	ER40-1600S	16.0	0.63	1.811	1.614	ER40-23STS
	ER40-1700S	17.0	0.669	1.811	1.614	ER40-23STS
	ER40-1800S	18.0	0.709	1.811	1.614	ER40-23STS
	ER40-1900S	19.0	0.748	1.811	1.614	ER40-23STS
	ER40-2000S	20.0	0.787	1.811	1.614	ER40-23STS
	ER40-2100S	21.0	0.827	1.811	1.614	ER40-23STS
	ER40-2200S	22.0	0.866	1.811	1.614	ER40-23STS
	ER40-2300S	23.0	0.906	1.811	1.614	ER40-23STS
ER40-2400S	24.0	0.945	1.811	1.614	ER40-23STS	
ER40-2500S	25.0	0.984	1.811	1.614	ER40-23STS	
ER40-2600S	26.0	1.023	1.811	1.614	ER40-23STS	

ER11 Standard Collets

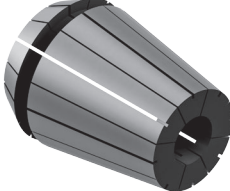
- ▶ ER Standard collets have a 0.0002" T.I.R., with a clamping range of 0.039". ER standard collets are compatible with DR, RD, ESX, AR & BR collets.



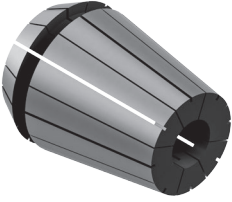
ER11 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER11-F125	0.106 - 0.125	2.7 - 3.2	0.709	0.461	ER11-03ST
	ER11-F187	0.168 - 0.187	4.3 - 4.8	0.709	0.461	ER11-03ST
	ER11-F250	0.231 - 0.250	5.9 - 6.4	0.709	0.461	ER11-03ST

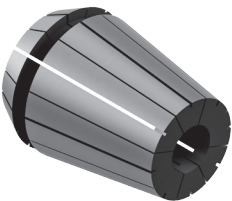
ER11 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	ER11-0100	0.5 - 1.0	0.020 - 0.039	0.709	0.461	ER11-13ST
	ER11-0150	1.0 - 1.5	0.020 - 0.039	0.709	0.461	ER11-13ST
	ER11-0200	1.5 - 2.0	0.059 - 0.079	0.709	0.461	ER11-13ST
	ER11-0250	2.0 - 2.5	0.079 - 0.098	0.709	0.461	ER11-13ST
	ER11-0300	2.5 - 3.0	0.098 - 0.118	0.709	0.461	ER11-13ST
	ER11-0350	3.0 - 3.5	0.118 - 0.138	0.709	0.461	ER11-13ST
	ER11-0400	3.5 - 4.0	0.138 - 0.157	0.709	0.461	ER11-13ST
	ER11-0450	4.0 - 4.5	0.157 - 0.177	0.709	0.461	ER11-13ST
	ER11-0500	4.5 - 5.0	0.177 - 0.197	0.709	0.461	ER11-13ST
	ER11-0550	5.0 - 5.5	0.197 - 0.217	0.709	0.461	ER11-13ST
	ER11-0600	5.5 - 6.0	0.217 - 0.236	0.709	0.461	ER11-13ST
	ER11-0650	6.0 - 6.5	0.236 - 0.256	0.709	0.461	ER11-13ST
	ER11-0700	6.5 - 7.0	0.256 - 0.276	0.709	0.461	ER11-13ST

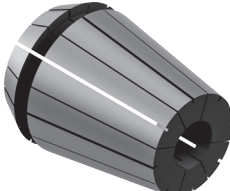
ER16 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER16-F062	0.043 - 0.062	1.1 - 1.6	1.083	0.679	ER16-11ST
	ER16-F093	0.054 - 0.093	1.4 - 2.4	1.083	0.679	ER16-11ST
	ER16-F125	0.086 - 0.125	2.2 - 3.2	1.083	0.679	ER16-11ST
	ER16-F156	0.117 - 0.156	3.0 - 4.0	1.083	0.679	ER16-11ST
	ER16-F187	0.148 - 0.187	3.8 - 4.7	1.083	0.679	ER16-11ST
	ER16-F218	0.179 - 0.218	4.5 - 5.5	1.083	0.679	ER16-11ST
	ER16-F250	0.211 - 0.250	5.4 - 6.4	1.083	0.679	ER16-11ST
	ER16-F281	0.242 - 0.281	6.1 - 7.1	1.083	0.679	ER16-11ST
	ER16-F312	0.273 - 0.312	6.9 - 7.9	1.083	0.679	ER16-11ST
	ER16-F343	0.304 - 0.343	7.7 - 8.7	1.083	0.679	ER16-11ST
	ER16-F375	0.336 - 0.375	8.5 - 9.5	1.083	0.679	ER16-11ST

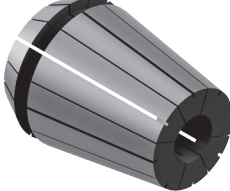
ER16 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER16-0100	0.5 - 1.0	0.020 - 0.039	1.083	0.679	ER16-10ST
	ER16-0150	1.0 - 1.5	0.039 - 0.059	1.083	0.679	-
	ER16-0200	1.0 - 2.0	0.039 - 0.079	1.083	0.679	ER16-10ST
	ER16-0250	2.0 - 2.5	0.079 - 0.098	1.083	0.679	-
	ER16-0300	2.0 - 3.0	0.079 - 0.118	1.083	0.679	ER16-10ST
	ER16-0400	3.0 - 4.0	0.118 - 0.157	1.083	0.679	ER16-10ST
	ER16-0500	4.0 - 5.0	0.157 - 0.197	1.083	0.679	ER16-10ST
	ER16-0600	5.0 - 6.0	0.197 - 0.236	1.083	0.679	ER16-10ST
	ER16-0700	6.0 - 7.0	0.236 - 0.276	1.083	0.679	ER16-10ST
	ER16-0800	7.0 - 8.0	0.276 - 0.315	1.083	0.679	ER16-10ST
	ER16-0900	8.0 - 9.0	0.315 - 0.354	1.083	0.679	ER16-10ST
	ER16-1000	9.0 - 10.0	0.354 - 0.394	1.083	0.679	ER16-10ST

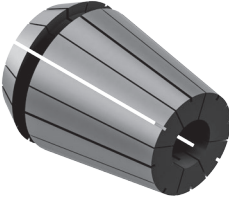
ER20 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER20-F062	0.043 - 0.062	1.1 - 1.6	1.240	0.839	ER20-15ST
	ER20-F093	0.054 - 0.093	1.4 - 2.4	1.240	0.839	ER20-15ST
	ER20-F125	0.086 - 0.125	2.2 - 3.2	1.240	0.839	ER20-15ST
	ER20-F156	0.117 - 0.156	3.0 - 4.0	1.240	0.839	ER20-15ST
	ER20-F187	0.148 - 0.187	3.8 - 4.7	1.240	0.839	ER20-15ST
	ER20-F218	0.179 - 0.218	4.5 - 5.5	1.240	0.839	ER20-15ST
	ER20-F250	0.211 - 0.250	5.4 - 6.4	1.240	0.839	ER20-15ST
	ER20-F281	0.242 - 0.281	6.1 - 7.1	1.240	0.839	ER20-15ST
	ER20-F312	0.273 - 0.312	6.9 - 7.9	1.240	0.839	ER20-15ST
	ER20-F343	0.304 - 0.343	7.7 - 8.7	1.240	0.839	ER20-15ST
	ER20-F375	0.336 - 0.375	8.5 - 9.5	1.240	0.839	ER20-15ST
	ER20-F406	0.367 - 0.406	9.3 - 10.3	1.240	0.839	ER20-15ST
	ER20-F437	0.398 - 0.437	10.1 - 11.1	1.240	0.839	ER20-15ST
	ER20-F468	0.429 - 0.468	10.9 - 11.9	1.240	0.839	ER20-15ST
	ER20-F500	0.461 - 0.500	11.7 - 12.7	1.240	0.839	ER20-15ST

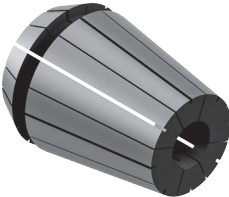
ER20 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	ER20-0150	1.0 - 1.5	0.039 - 0.059	1.240	0.839	-
	ER20-0200	1.0 - 2.0	0.039 - 0.079	1.240	0.839	ER20-12ST
	ER20-0250	2.0 - 2.5	0.079 - 0.098	1.240	0.839	-
	ER20-0300	2.0 - 3.0	0.079 - 0.118	1.240	0.839	ER20-12ST
	ER20-0400	3.0 - 4.0	0.118 - 0.157	1.240	0.839	ER20-12ST
	ER20-0500	4.0 - 5.0	0.157 - 0.197	1.240	0.839	ER20-12ST
	ER20-0600	5.0 - 6.0	0.197 - 0.236	1.240	0.839	ER20-12ST
	ER20-0700	6.0 - 7.0	0.236 - 0.276	1.240	0.839	ER20-12ST
	ER20-0800	7.0 - 8.0	0.276 - 0.315	1.240	0.839	ER20-12ST
	ER20-0900	8.0 - 9.0	0.315 - 0.354	1.240	0.839	ER20-12ST
	ER20-1000	9.0 - 10.0	0.354 - 0.394	1.240	0.839	ER20-12ST
	ER20-1100	10.0 - 11.0	0.394 - 0.433	1.240	0.839	ER20-12ST
	ER20-1200	11.0 - 12.0	0.433 - 0.472	1.240	0.839	ER20-12ST
	ER20-1300	12.0 - 13.0	0.472 - 0.512	1.240	0.839	ER20-12ST

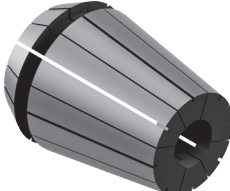
ER25 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER25-F125	0.086 - 0.125	2.2 - 3.2	1.339	1.035	ER25-09ST
	ER25-F187	0.148 - 0.187	3.8 - 4.7	1.339	1.035	ER25-09ST
	ER25-F250	0.211 - 0.250	5.4 - 6.4	1.339	1.035	ER25-09ST
	ER25-F312	0.273 - 0.312	6.9 - 7.9	1.339	1.035	ER25-09ST
	ER25-F375	0.336 - 0.375	8.5 - 9.5	1.339	1.035	ER25-09ST
	ER25-F437	0.398 - 0.437	10.1 - 11.1	1.339	1.035	ER25-09ST
	ER25-F500	0.461 - 0.500	11.7 - 12.7	1.339	1.035	ER25-09ST
	ER25-F562	0.523 - 0.562	13.3 - 14.3	1.339	1.035	ER25-09ST
	ER25-F625	0.586 - 0.625	14.9 - 15.9	1.339	1.035	ER25-09ST

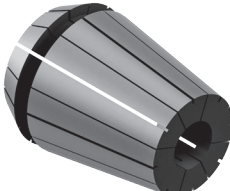
ER25 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	ER25-0150	1.0 - 1.5	0.039 - 0.059	1.339	1.035	-
	ER25-0200	1.0 - 2.0	0.039 - 0.079	1.339	1.035	ER25-15ST
	ER25-0250	2.0 - 2.5	0.079 - 0.098	1.339	1.035	-
	ER25-0300	2.0 - 3.0	0.079 - 0.118	1.339	1.035	ER25-15ST
	ER25-0400	3.0 - 4.0	0.118 - 0.157	1.339	1.035	ER25-15ST
	ER25-0500	4.0 - 5.0	0.157 - 0.197	1.339	1.035	ER25-15ST
	ER25-0600	5.0 - 6.0	0.197 - 0.236	1.339	1.035	ER25-15ST
	ER25-0700	6.0 - 7.0	0.236 - 0.276	1.339	1.035	ER25-15ST
	ER25-0800	7.0 - 8.0	0.276 - 0.315	1.339	1.035	ER25-15ST
	ER25-0900	8.0 - 9.0	0.315 - 0.354	1.339	1.035	ER25-15ST
	ER25-1000	9.0 - 10.0	0.354 - 0.394	1.339	1.035	ER25-15ST
	ER25-1100	10.0 - 11.0	0.394 - 0.433	1.339	1.035	ER25-15ST
	ER25-1200	11.0 - 12.0	0.433 - 0.472	1.339	1.035	ER25-15ST
	ER25-1300	12.0 - 13.0	0.472 - 0.512	1.339	1.035	ER25-15ST
	ER25-1400	13.0 - 14.0	0.512 - 0.551	1.339	1.035	ER25-15ST
	ER25-1500	14.0 - 15.0	0.551 - 0.591	1.339	1.035	ER25-15ST
	ER25-1600	15.0 - 16.0	0.591 - 0.630	1.339	1.035	ER25-15ST

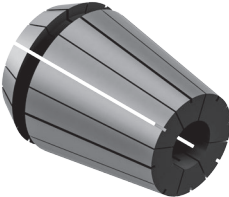
ER32 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER32-F125	0.086 - 0.125	2.2 - 3.2	1.575	1.313	ER32-11ST
	ER32-F187	0.148 - 0.187	3.8 - 4.7	1.575	1.313	ER32-11ST
	ER32-F250	0.211 - 0.250	5.4 - 6.4	1.575	1.313	ER32-11ST
	ER32-F312	0.273 - 0.312	6.9 - 7.9	1.575	1.313	ER32-11ST
	ER32-F375	0.336 - 0.375	8.5 - 9.5	1.575	1.313	ER32-11ST
	ER32-F437	0.398 - 0.437	10.1 - 11.1	1.575	1.313	ER32-11ST
	ER32-F500	0.461 - 0.500	11.7 - 12.7	1.575	1.313	ER32-11ST
	ER32-F562	0.523 - 0.562	13.3 - 14.3	1.575	1.313	ER32-11ST
	ER32-F625	0.586 - 0.625	14.9 - 15.9	1.575	1.313	ER32-11ST
	ER32-F687	0.648 - 0.687	16.5 - 17.4	1.575	1.313	ER32-11ST
	ER32-F750	0.711 - 0.750	18.0 - 19.0	1.575	1.313	ER32-11ST

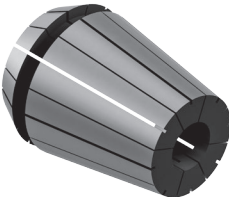
ER32 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	ER32-0300	2.0 - 3.0	0.079 - 0.118	1.575	1.313	ER32-18ST
	ER32-0400	3.0 - 4.0	0.118 - 0.157	1.575	1.313	ER32-18ST
	ER32-0500	4.0 - 5.0	0.157 - 0.197	1.575	1.313	ER32-18ST
	ER32-0600	5.0 - 6.0	0.197 - 0.236	1.575	1.313	ER32-18ST
	ER32-0700	6.0 - 7.0	0.236 - 0.276	1.575	1.313	ER32-18ST
	ER32-0800	7.0 - 8.0	0.276 - 0.315	1.575	1.313	ER32-18ST
	ER32-0900	8.0 - 9.0	0.315 - 0.354	1.575	1.313	ER32-18ST
	ER32-1000	9.0 - 10.0	0.354 - 0.394	1.575	1.313	ER32-18ST
	ER32-1100	10.0 - 11.0	0.394 - 0.433	1.575	1.313	ER32-18ST
	ER32-1200	11.0 - 12.0	0.433 - 0.472	1.575	1.313	ER32-18ST
	ER32-1300	12.0 - 13.0	0.472 - 0.512	1.575	1.313	ER32-18ST
	ER32-1400	13.0 - 14.0	0.512 - 0.551	1.575	1.313	ER32-18ST
	ER32-1500	14.0 - 15.0	0.551 - 0.591	1.575	1.313	ER32-18ST
	ER32-1600	15.0 - 16.0	0.591 - 0.630	1.575	1.313	ER32-18ST
	ER32-1700	16.0 - 17.0	0.630 - 0.669	1.575	1.313	ER32-18ST
	ER32-1800	17.0 - 18.0	0.669 - 0.709	1.575	1.313	ER32-18ST
	ER32-1900	18.0 - 19.0	0.709 - 0.748	1.575	1.313	ER32-18ST
	ER32-2000	19.0 - 20.0	0.748 - 0.787	1.575	1.313	ER32-18ST

ER40 Standard Collets Inch

Standard	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	ER40-F125	0.086 - 0.125	2.2 - 3.2	1.811	1.614	ER40-15ST
	ER40-F187	0.148 - 0.187	3.8 - 4.7	1.811	1.614	ER40-15ST
	ER40-F250	0.211 - 0.250	5.4 - 6.4	1.811	1.614	ER40-15ST
	ER40-F312	0.273 - 0.312	6.9 - 7.9	1.811	1.614	ER40-15ST
	ER40-F375	0.336 - 0.375	8.5 - 9.5	1.811	1.614	ER40-15ST
	ER40-F437	0.398 - 0.437	10.1 - 11.1	1.811	1.614	ER40-15ST
	ER40-F500	0.461 - 0.500	11.7 - 12.7	1.811	1.614	ER40-15ST
	ER40-F562	0.523 - 0.562	13.3 - 14.3	1.811	1.614	ER40-15ST
	ER40-F625	0.586 - 0.625	14.9 - 15.9	1.811	1.614	ER40-15ST
	ER40-F687	0.648 - 0.687	16.5 - 17.4	1.811	1.614	ER40-15ST
	ER40-F750	0.711 - 0.750	18.0 - 19.0	1.811	1.614	ER40-15ST
	ER40-F812	0.774 - 0.812	19.7 - 20.6	1.811	1.614	ER40-15ST
	ER40-F875	0.836 - 0.875	21.2 - 22.2	1.811	1.614	ER40-15ST
	ER40-F937	0.899 - 0.937	22.8 - 23.8	1.811	1.614	ER40-15ST
	ER40-F100	0.961 - 1.000	24.4 - 25.4	1.811	1.614	ER40-15ST

ER40 Standard Collets Metric

Standard (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	ER40-0400	3.0 - 4.0	0.118 - 0.157	1.811	1.614	ER40-23ST
	ER40-0500	4.0 - 5.0	0.157 - 0.197	1.811	1.614	ER40-23ST
	ER40-0600	5.0 - 6.0	0.197 - 0.236	1.811	1.614	ER40-23ST
	ER40-0700	6.0 - 7.0	0.236 - 0.276	1.811	1.614	ER40-23ST
	ER40-0800	7.0 - 8.0	0.276 - 0.315	1.811	1.614	ER40-23ST
	ER40-0900	8.0 - 9.0	0.315 - 0.354	1.811	1.614	ER40-23ST
	ER40-1000	9.0 - 10.0	0.354 - 0.394	1.811	1.614	ER40-23ST
	ER40-1100	10.0 - 11.0	0.394 - 0.433	1.811	1.614	ER40-23ST
	ER40-1200	11.0 - 12.0	0.433 - 0.472	1.811	1.614	ER40-23ST
	ER40-1300	12.0 - 13.0	0.472 - 0.512	1.811	1.614	ER40-23ST
	ER40-1400	13.0 - 14.0	0.512 - 0.551	1.811	1.614	ER40-23ST
	ER40-1500	14.0 - 15.0	0.551 - 0.591	1.811	1.614	ER40-23ST
	ER40-1600	15.0 - 16.0	0.591 - 0.630	1.811	1.614	ER40-23ST
	ER40-1700	16.0 - 17.0	0.630 - 0.669	1.811	1.614	ER40-23ST
	ER40-1800	17.0 - 18.0	0.669 - 0.709	1.811	1.614	ER40-23ST
	ER40-1900	18.0 - 19.0	0.709 - 0.748	1.811	1.614	ER40-23ST
	ER40-2000	19.0 - 20.0	0.748 - 0.787	1.811	1.614	ER40-23ST
	ER40-2100	20.0 - 21.0	0.787 - 0.827	1.811	1.614	ER40-23ST
	ER40-2200	21.0 - 22.0	0.827 - 0.866	1.811	1.614	ER40-23ST
	ER40-2300	22.0 - 23.0	0.866 - 0.906	1.811	1.614	ER40-23ST
	ER40-2400	23.0 - 24.0	0.906 - 0.945	1.811	1.614	ER40-23ST
	ER40-2500	24.0 - 25.0	0.945 - 0.984	1.811	1.614	ER40-23ST
	ER40-2600	25.0 - 26.0	0.984 - 1.023	1.811	1.614	ER40-23ST

Command Tooling Systems Online

- ▶ Command Tooling Systems' online catalog offers part file downloads, instant list price quoting, and distributor locator. Catalogs and/or fliers for each of the four classes are also available for download.

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PART NUMBER	D1	D2	D3	L1	L2	T	QTY ON HAND	LIST PRICE USD	PRODUCT CODE
CH9-0312	0.312	0.79	1.00	3.38	1.38	M8 X 1	7	FOR A	Add to Quote
CH9-0375	0.375	0.79	1.00	3.38	1.57	M8 X 1	9	FOR A	Add to Quote
CH9-0437	0.437	0.94	1.25	3.38	1.57	M8 X 1	3	FOR A	Add to Quote
CH9-0500	0.500	0.94	1.25	3.38	1.77	M10 X 1	18	FOR A	Add to Quote
CH9-0562	0.562	1.06	1.38	3.63	1.77	M10 X 1	4	FOR A	Add to Quote
CH9-0625	0.625	1.06	1.38	3.63	1.77	M12 X 1	4	FOR A	Add to Quote
CH9-0750	0.750	1.30	1.63	3.63	2.17	M16 X 1	17	FOR A	Add to Quote
CH9-1000	1.000	1.71	2.00	3.63	2.17	M18 X 1	14	FOR A	Add to Quote
CH9-1250	1.250	1.71	2.00	3.63	3.17	M18 X 1	4	FOR A	Add to Quote

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Overview

- No other manufacturer in the world offers such a variety of products than EWS Tool Technologies. At Command Tooling Systems we are able to bring these extensive tooling options to the USA marketplace through our partnership with EWS.

Fliers Video Catalog

View Product Types

Static Holders
More than 20,000 different tool holders are available for machine operators, including VDI tool holders with shaft diameters of 1/8 to 1/2 inch, block tool holders of BMT5, BMT8, and machine-specific holders for BMT6, Okuma or Mori Seiki. Also available are prism holders according to DIN 61821 (VDI 3425 B1) in all normal sizes. In addition to the standard holders, you will also find custom, HSK, T8 and A8.

Driven Tools
More than 8,000 driven tools are available. In

CLASS

Overview

- USA-made high quality, durable tools with close-to-perfect run-out for the manufacturing of precision medical parts. Command offers its driven tools for Star and Citizen machines.

Fliers Videos Catalog

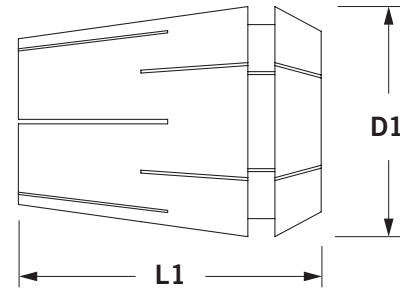
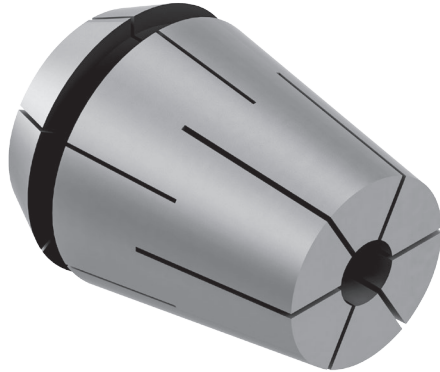
View Product Types

Swiss Live Tooling for Star and Citizen
All Command Swiss live tools are stocked and serviced in Minnesota USA and feature:


- A labyrinth seal that shields internal components from contaminants during operation
- Housings of high strength alloy steel
- Solid shafts of tool steel that have less flex and dampen vibration
- ABEC 7 or better spindle bearings
- Final assembly run-out better than 2.5 microns for

ER16 Steel Sealed Collets


- ▶ Steel sealed coolant collets are available for Micro Precision® ER collet chucks. Steel sealed coolant collets are all metal, no rubber seals with a collapse range of 0.005" and a maximum of 2000 PSI. Steel sealed collets are compatible with DR, RD, ESX, AR & BR collets.



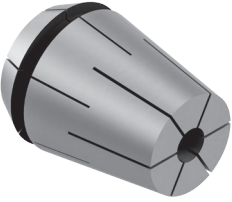
ER16 Steel Sealed Collets

Steel Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER16-F125SS	0.125	3.2	1.083	0.679	ER16-09STSS
	ER16-F156SS	0.156	4.0	1.083	0.679	ER16-09STSS
	ER16-F187SS	0.187	4.7	1.083	0.679	ER16-09STSS
	ER16-F218SS	0.218	5.5	1.083	0.679	ER16-09STSS
	ER16-F250SS	0.250	6.4	1.083	0.679	ER16-09STSS
	ER16-F281SS	0.281	7.1	1.083	0.679	ER16-09STSS
	ER16-F312SS	0.312	7.9	1.083	0.679	ER16-09STSS
	ER16-F343SS	0.343	8.7	1.083	0.679	ER16-09STSS
	ER16-F375SS	0.375	9.5	1.083	0.679	ER16-09STSS

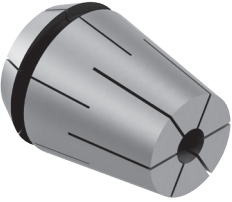
ER20 Steel Sealed Collets

Steel Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER20-F156SS	0.156	4.0	1.240	0.839	ER20-12STSS
	ER20-F187SS	0.187	4.7	1.240	0.839	ER20-12STSS
	ER20-F218SS	0.218	5.5	1.240	0.839	ER20-12STSS
	ER20-F250SS	0.250	6.4	1.240	0.839	ER20-12STSS
	ER20-F281SS	0.281	7.1	1.240	0.839	ER20-12STSS
	ER20-F312SS	0.312	7.9	1.240	0.839	ER20-12STSS
	ER20-F343SS	0.343	8.7	1.240	0.839	ER20-12STSS
	ER20-F375SS	0.375	9.5	1.240	0.839	ER20-12STSS
	ER20-F406SS	0.406	10.3	1.240	0.839	ER20-12STSS
	ER20-F437SS	0.437	11.1	1.240	0.839	ER20-12STSS
	ER20-F468SS	0.468	11.9	1.240	0.839	ER20-12STSS
	ER20-F500SS	0.500	12.7	1.240	0.839	ER20-12STSS

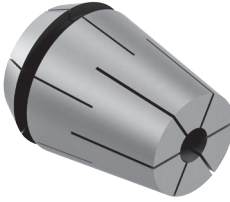
ER25 Steel Sealed Collets

Steel Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER25-F250SS	0.250	6.4	1.339	1.035	ER25-07STSS
	ER25-F312SS	0.312	7.9	1.339	1.035	ER25-07STSS
	ER25-F375SS	0.375	9.5	1.339	1.035	ER25-07STSS
	ER25-F437SS	0.437	11.1	1.339	1.035	ER25-07STSS
	ER25-F500SS	0.500	12.7	1.339	1.035	ER25-07STSS
	ER25-F562SS	0.562	14.3	1.339	1.035	ER25-07STSS
	ER25-F625SS	0.625	15.9	1.339	1.035	ER25-07STSS
	ER25-F250SS	0.250	6.4	1.339	1.035	ER25-07STSS
	ER25-F312SS	0.312	7.9	1.339	1.035	ER25-07STSS
	ER25-F375SS	0.375	9.5	1.339	1.035	ER25-07STSS
	ER25-F437SS	0.437	11.1	1.339	1.035	ER25-07STSS
	ER25-F500SS	0.500	12.7	1.339	1.035	ER25-07STSS
	ER25-F562SS	0.562	14.3	1.339	1.035	ER25-07STSS
	ER25-F625SS	0.625	15.9	1.339	1.035	ER25-07STSS

ER32 Steel Sealed Collets

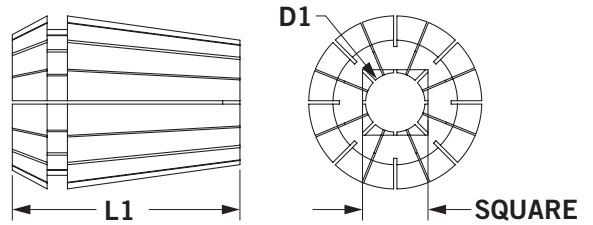
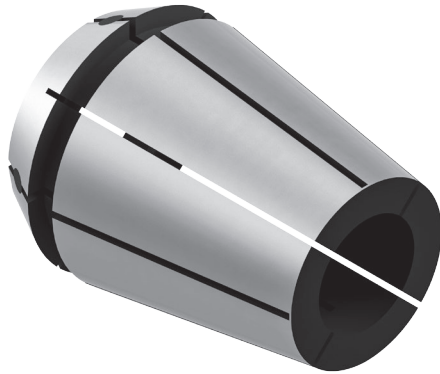
Steel Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER32-F125SS	0.125	3.2	1.575	1.313	ER32-09STSS
	ER32-F312SS	0.312	7.9	1.575	1.313	ER32-09STSS
	ER32-F375SS	0.375	9.5	1.575	1.313	ER32-09STSS
	ER32-F437SS	0.437	11.1	1.575	1.313	ER32-09STSS
	ER32-F500SS	0.500	12.7	1.575	1.313	ER32-09STSS
	ER32-F562SS	0.562	14.3	1.575	1.313	ER32-09STSS
	ER32-F625SS	0.625	15.9	1.575	1.313	ER32-09STSS
	ER32-F687SS	0.687	17.4	1.575	1.313	ER32-09STSS
	ER32-F750SS	0.750	19.0	1.575	1.313	ER32-09STSS

ER40 Steel Sealed Collets

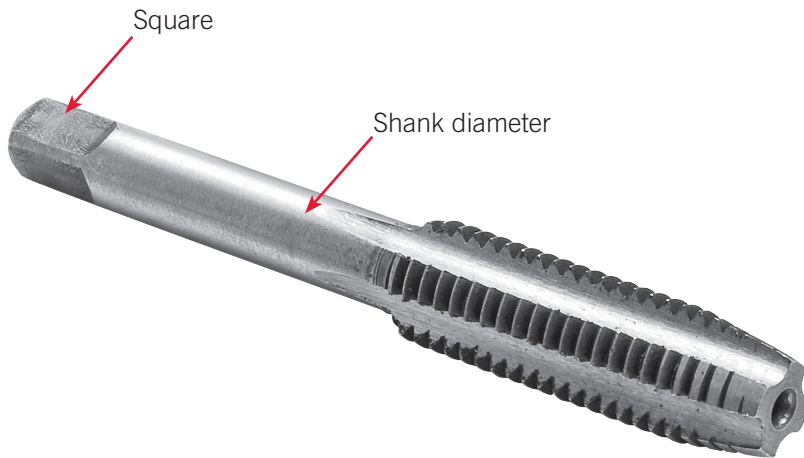
Steel Sealed	Part Number	Size	Reference Size (mm)	L1	D1	Collet Set Part No.
	ER40-F375SS	0.375	9.5	1.811	1.614	ER40-09STSS
	ER40-F437SS	0.437	11.1	1.811	1.614	ER40-09STSS
	ER40-F500SS	0.500	12.7	1.811	1.614	ER40-09STSS
	ER40-F562SS	0.562	14.3	1.811	1.614	ER40-09STSS
	ER40-F625SS	0.625	15.9	1.811	1.614	ER40-09STSS
	ER40-F687SS	0.687	17.4	1.811	1.614	ER40-09STSS
	ER40-F750SS	0.750	19.0	1.811	1.614	ER40-09STSS
	ER40-F875SS	0.875	22.2	1.811	1.614	ER40-09STSS
	ER40-F100SS	1.000	25.4	1.811	1.614	ER40-09STSS

Tap Collets

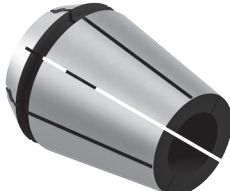
- ▶ The tap collets special design locks square in slots and reduces tapping clearance requirements. Tap collets are compatible with DR, RD, ESX, AR & BR collets.




Be sure to measure the square size and the shank diameter of your tap before ordering tap collets.




ER16 Tap Collets

Tap Collets	Part Number	Size	Shank Diameter	Square Size	L1	D1
	ER16-T006	No. 6	0.141	0.110	1.083	0.679
	ER16-T008	No. 8	0.168	0.131	1.083	0.679
	ER16-T010	No. 10	0.194	0.152	1.083	0.679
	ER16-T012	No. 12	0.220	0.165	1.083	0.679
	ER16-T250	1/4"	0.255	0.191	1.083	0.679

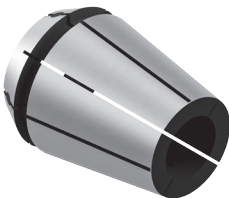
ER20 Tap Collets

Tap Collets	Part Number	Size	Shank Diameter	Square Size	L1	D1
	ER20-T008	No. 8	0.168	0.131	1.240	0.839
	ER20-T010	No. 10	0.194	0.152	1.240	0.839
	ER20-T012	No. 12	0.220	0.165	1.240	0.839
	ER20-T250	1/4"	0.255	0.191	1.240	0.839
	ER20-T312	5/16"	0.318	0.238	1.240	0.839
	ER20-T375	3/8"	0.381	0.286	1.240	0.839
	ER20-T437	7/16"	0.323	0.242	1.240	0.839
	ER20-T500	1/2"	0.367	0.275	1.240	0.839


ER25 Tap Collets

Tap Collets	Part Number	Size	Shank Diameter	Square Size	L1	D1
	ER25-P062	1/16", 1/8" NPT	0.313	0.234	1.339	1.035
	ER25-P125	1/8" NPT	0.437	0.328	1.339	1.035
	ER25-T008	No. 8	0.168	0.131	1.339	1.035
	ER25-T010	No. 10	0.194	0.152	1.339	1.035
	ER25-T012	No. 12	0.220	0.165	1.339	1.035
	ER25-T250	1/4"	0.255	0.191	1.339	1.035
	ER25-T312	5/16"	0.318	0.238	1.339	1.035
	ER25-T375	3/8"	0.381	0.286	1.339	1.035
	ER25-T437	7/16"	0.323	0.242	1.339	1.035
	ER25-T500	1/2"	0.367	0.275	1.339	1.035
	ER25-T562	9/16"	0.429	0.322	1.339	1.035
	ER25-T625	5/8"	0.480	0.360	1.339	1.035

ER32 Tap Collets

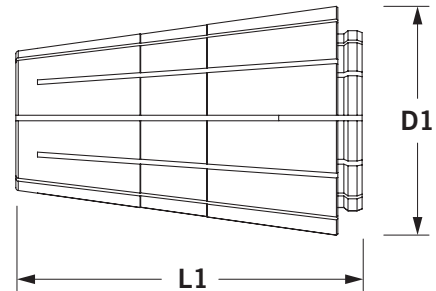
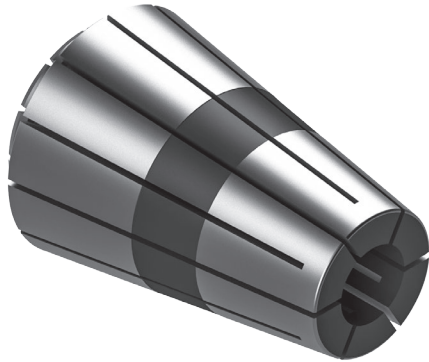
Tap Collets	Part Number	Size	Shank Diameter	Square Size	L1	D1
	ER32-P062	1/16", 1/8" NPT	0.313	0.234	1.575	1.313
	ER32-P125	1/8" NPT	0.437	0.328	1.575	1.313
	ER32-P250	1/4" NPT	0.562	0.421	1.575	1.313
	ER32-T008	No. 8	0.168	0.131	1.575	1.313
	ER32-T010	No. 10	0.194	0.152	1.575	1.313
	ER32-T012	No. 12	0.220	0.165	1.575	1.313
	ER32-T250	1/4"	0.255	0.191	1.575	1.313
	ER32-T312	5/16"	0.318	0.238	1.575	1.313
	ER32-T375	3/8"	0.381	0.286	1.575	1.313
	ER32-T437	7/16"	0.323	0.242	1.575	1.313
	ER32-T500	1/2"	0.367	0.275	1.575	1.313
	ER32-T562	9/16"	0.429	0.322	1.575	1.313
	ER32-T625	5/8"	0.480	0.360	1.575	1.313
	ER32-T687	1 1/16"	0.542	0.406	1.575	1.313
	ER32-T750	3/4"	0.590	0.442	1.575	1.313
	ER32-T812	13/16"	0.652	0.489	1.575	1.313

ER40 Tap Collets

Tap Collets	Part Number	Size	Shank Diameter	Square Size	L1	D1
	ER40-T250	1/4"	0.255	0.191	1.811	1.614
	ER40-T312	5/16"	0.318	0.238	1.811	1.614
	ER40-T375	3/8"	0.381	0.286	1.811	1.614
	ER40-T437	7/16"	0.323	0.242	1.811	1.614
	ER40-T500	1/2"	0.367	0.275	1.811	1.614
	ER40-T562	9/16"	0.429	0.322	1.811	1.614
	ER40-T625	5/8"	0.480	0.360	1.811	1.614
	ER40-T687	11/16"	0.542	0.406	1.811	1.614
	ER40-T750	3/4"	0.590	0.442	1.811	1.614
	ER40-T812	13/16"	0.652	0.489	1.811	1.614
	ER40-T875	7/8"	0.697	0.523	1.811	1.614
	ER40-T937	15/16"	0.760	0.570	1.811	1.614
	ER40-T100	1"	0.800	0.600	1.811	1.614

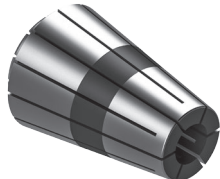
XT Precision® Collets

- ▶ XT Precision® collets are part of the XT Precision® collet system. When used with XT Precision® collet nuts, this combination significantly improves T.I.R., and is ideal for long run repeatability on CNC milling, drilling, and reaming operations. Command XT Precision® collet nuts and compatible wrenches can be found beginning on page 393. XT Precision® collets are compatible with DR, RD, ESX, AR & BR collets.

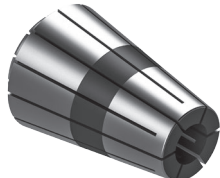


- + XT Precision® collets feature outstanding accuracy and gripping pressure at any speed.
- + The extreme accuracy and gripping pressure ensures precise tool centering and rigidity—tools last longer and cut more accurately.
- + The XT Precision® collet system is engineered to provide a balanced chip-cutting feature, increasing metal removal up to 200%.
- + You can double toolholder accuracy with this collet system while using existing inventory of traditional ER style collet chucks.
- + Equipped with XT Precision® collets, the toolholder easily takes the thrust of drilling and reaming as well as milling. Single angle collet chuck design efficiently transfers torque on the compression collet nut into gripping force on the tool.
- + Optimal performance of the XT Precision® collet system results when XT Precision® collets are used in conjunction with XT Precision® collet nuts. Run out of <math><0.0002</math> (0.005mm or 5 microns) at the collet face is guaranteed with this combination of XT Precision® products.

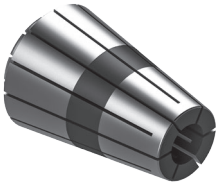
XT11 Precision® Collets Inch

XT Precision	Part Number	Size Range	Reference Size (mm)	L1	D1	Collet Set Part No.
	XT11-F125	0.106 - 0.125	2.7 - 3.2	0.709	0.461	XT11-03ST
	XT11-F187	0.168 - 0.187	4.3 - 4.8	0.709	0.461	XT11-03ST
	XT11-F250	0.231 - 0.250	5.9 - 6.4	0.709	0.461	XT11-03ST

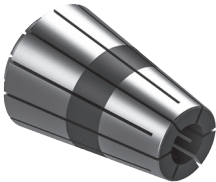
XT11 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Reference Size	L1	D1	Collet Set Part No.
	XT11-0060	0.50 - 0.60	0.020 - 0.024	0.673	0.460	XT11-20ST
	XT11-0070	0.60 - 0.70	0.024 - 0.028	0.673	0.460	XT11-20ST
	XT11-0080	0.70 - 0.80	0.028 - 0.031	0.673	0.460	XT11-20ST
	XT11-0090	0.80 - 0.90	0.031 - 0.035	0.673	0.460	XT11-20ST
	XT11-0100	0.90 - 1.00	0.035 - 0.039	0.673	0.460	XT11-20ST
	XT11-0125	1.00 - 1.25	0.039 - 0.049	0.673	0.460	XT11-20ST
	XT11-0150	1.25 - 1.50	0.049 - 0.059	0.673	0.460	XT11-20ST
	XT11-0175	1.50 - 1.75	0.059 - 0.069	0.673	0.460	XT11-20ST
	XT11-0200	1.75 - 2.00	0.069 - 0.079	0.673	0.460	XT11-20ST
	XT11-0225	2.00 - 2.25	0.079 - 0.089	0.673	0.460	XT11-20ST
	XT11-0250	2.25 - 2.50	0.089 - 0.098	0.673	0.460	XT11-20ST
	XT11-0300	2.50 - 3.00	0.098 - 0.118	0.673	0.460	XT11-20ST
	XT11-0350	3.00 - 3.50	0.118 - 0.138	0.673	0.460	XT11-20ST
	XT11-0400	3.50 - 4.00	0.138 - 0.157	0.673	0.460	XT11-20ST
	XT11-0450	4.00 - 4.50	0.157 - 0.177	0.673	0.460	XT11-20ST
	XT11-0500	4.50 - 5.00	0.177 - 0.198	0.673	0.460	XT11-20ST
	XT11-0550	5.00 - 5.50	0.198 - 0.217	0.673	0.460	XT11-20ST
	XT11-0600	5.50 - 6.00	0.217 - 0.236	0.673	0.460	XT11-20ST
	XT11-0650	6.00 - 6.50	0.236 - 0.256	0.673	0.460	XT11-20ST
	XT11-0700	6.50 - 7.00	0.256 - 0.276	0.673	0.460	XT11-20ST

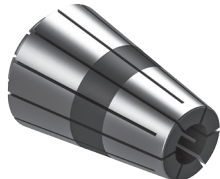
XT16 Precision® Collets Inch

XT Precision	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	XT16-F062	0.043 - 0.062	1.1 - 1.6	0.945	0.654	XT16-11ST
	XT16-F093	0.054 - 0.093	1.4 - 2.4	0.945	0.654	XT16-11ST
	XT16-F125	0.086 - 0.125	2.2 - 3.2	0.945	0.654	XT16-11ST
	XT16-F156	0.117 - 0.156	3.0 - 4.0	0.945	0.654	XT16-11ST
	XT16-F187	0.148 - 0.187	3.8 - 4.7	0.945	0.654	XT16-11ST
	XT16-F218	0.179 - 0.218	4.5 - 5.5	0.945	0.654	XT16-11ST
	XT16-F250	0.211 - 0.250	5.4 - 6.4	0.945	0.654	XT16-11ST
	XT16-F281	0.242 - 0.281	6.1 - 7.1	0.945	0.654	XT16-11ST
	XT16-F312	0.273 - 0.312	6.9 - 7.9	0.945	0.654	XT16-11ST
	XT16-F343	0.304 - 0.343	7.7 - 8.7	0.945	0.654	XT16-11ST
	XT16-F375	0.336 - 0.375	8.5 - 9.5	0.945	0.654	XT16-11ST

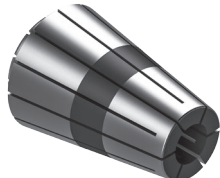
XT16 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	XT16-0100	0.75 - 1.00	0.0295 - 0.0394	0.945	0.654	XT16-16ST
	XT16-0125	1.00 - 1.25	0.0394 - 0.0492	0.945	0.654	XT16-16ST
	XT16-0150	1.25 - 1.50	0.0492 - 0.0591	0.945	0.654	XT16-16ST
	XT16-0175	1.50 - 1.75	0.0591 - 0.0689	0.945	0.654	XT16-16ST
	XT16-0200	1.75 - 2.00	0.0689 - 0.0787	0.945	0.654	XT16-16ST
	XT16-0225	2.00 - 2.25	0.0787 - 0.0886	0.945	0.654	XT16-16ST
	XT16-0250	2.25 - 2.50	0.0886 - 0.0984	0.945	0.654	XT16-16ST
	XT16-0300	2.50 - 3.00	0.0984 - 0.1181	0.945	0.654	XT16-16ST
	XT16-0350	3.00 - 3.50	0.1181 - 0.1378	0.945	0.654	XT16-16ST
	XT16-0400	3.50 - 4.00	0.1378 - 0.1575	0.945	0.654	XT16-16ST
	XT16-0500	4.00 - 5.00	0.1575 - 0.1969	0.945	0.654	XT16-16ST
	XT16-0600	5.00 - 6.00	0.1969 - 0.2362	0.945	0.654	XT16-16ST
	XT16-0700	6.00 - 7.00	0.2362 - 0.2756	0.945	0.654	XT16-16ST
	XT16-0800	7.00 - 8.00	0.2756 - 0.3150	0.945	0.654	XT16-16ST
	XT16-0900	8.00 - 9.00	0.3150 - 0.3543	0.945	0.654	XT16-16ST
	XT16-1000	9.00 - 10.00	0.3543 - 0.3937	0.945	0.654	XT16-16ST

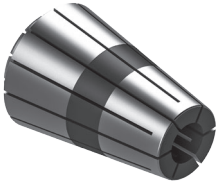
XT20 Precision® Collets Inch

XT Precision	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	XT20-F093	0.054 - 0.093	1.4 - 2.4	1.201	0.815	XT20-14ST
	XT20-F125	0.086 - 0.125	2.2 - 3.2	1.201	0.815	XT20-14ST
	XT20-F156	0.117 - 0.156	3.0 - 4.0	1.201	0.815	XT20-14ST
	XT20-F187	0.148 - 0.187	3.8 - 4.7	1.201	0.815	XT20-14ST
	XT20-F218	0.179 - 0.218	4.5 - 5.5	1.201	0.815	XT20-14ST
	XT20-F250	0.211 - 0.250	5.4 - 6.4	1.201	0.815	XT20-14ST
	XT20-F281	0.242 - 0.281	6.1 - 7.1	1.201	0.815	XT20-14ST
	XT20-F312	0.273 - 0.312	6.9 - 7.9	1.201	0.815	XT20-14ST
	XT20-F343	0.304 - 0.343	7.7 - 8.7	1.201	0.815	XT20-14ST
	XT20-F375	0.336 - 0.375	8.5 - 9.5	1.201	0.815	XT20-14ST
	XT20-F406	0.367 - 0.406	9.3 - 10.3	1.201	0.815	XT20-14ST
	XT20-F437	0.398 - 0.437	10.1 - 11.1	1.201	0.815	XT20-14ST
	XT20-F468	0.429 - 0.468	10.9 - 11.9	1.201	0.815	XT20-14ST
	XT20-F500	0.461 - 0.500	11.7 - 12.7	1.201	0.815	XT20-14ST

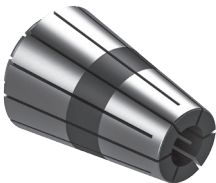
XT20 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	XT20-0200	1.75 - 2.00	0.0689 - 0.0787	1.201	0.815	XT20-15ST
	XT20-0225	2.00 - 2.25	0.0787 - 0.0886	1.201	0.815	XT20-15ST
	XT20-0250	2.25 - 2.50	0.0886 - 0.0984	1.201	0.815	XT20-15ST
	XT20-0300	2.50 - 3.00	0.0984 - 0.1181	1.201	0.815	XT20-15ST
	XT20-0350	3.00 - 3.50	0.1181 - 0.1378	1.201	0.815	XT20-15ST
	XT20-0400	3.50 - 4.00	0.1378 - 0.1575	1.201	0.815	XT20-15ST
	XT20-0500	4.00 - 5.00	0.1575 - 0.1969	1.201	0.815	XT20-15ST
	XT20-0600	5.00 - 6.00	0.1969 - 0.2362	1.201	0.815	XT20-15ST
	XT20-0700	6.00 - 7.00	0.2362 - 0.2756	1.201	0.815	XT20-15ST
	XT20-0800	7.00 - 8.00	0.2756 - 0.3150	1.201	0.815	XT20-15ST
	XT20-0900	8.00 - 9.00	0.3150 - 0.3543	1.201	0.815	XT20-15ST
	XT20-1000	9.00 - 10.00	0.3543 - 0.3937	1.201	0.815	XT20-15ST
	XT20-1100	10.00 - 11.00	0.3937 - 0.4331	1.201	0.815	XT20-15ST
	XT20-1200	11.00 - 12.00	0.4331 - 0.4724	1.201	0.815	XT20-15ST
	XT20-1300	12.00 - 13.00	0.4724 - 0.5118	1.201	0.815	XT20-15ST

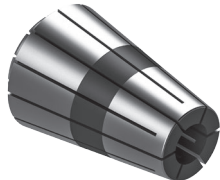
XT25 Precision® Collets Inch

XT Precision	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	XT25-F125	0.086 - 0.125	2.2 - 3.2	1.339	1.035	XT25-09ST
	XT25-F187	0.148 - 0.187	3.8 - 4.7	1.339	1.035	XT25-09ST
	XT25-F250	0.211 - 0.250	5.4 - 6.4	1.339	1.035	XT25-09ST
	XT25-F312	0.273 - 0.312	6.9 - 7.9	1.339	1.035	XT25-09ST
	XT25-F375	0.336 - 0.375	8.5 - 9.5	1.339	1.035	XT25-09ST
	XT25-F437	0.398 - 0.437	10.1 - 11.1	1.339	1.035	XT25-09ST
	XT25-F500	0.461 - 0.500	11.7 - 12.7	1.339	1.035	XT25-09ST
	XT25-F562	0.523 - 0.562	13.3 - 14.3	1.339	1.035	XT25-09ST
	XT25-F625	0.586 - 0.625	14.9 - 15.9	1.339	1.035	XT25-09ST

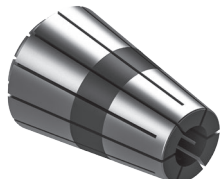
XT25 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	XT25-0300	2.50 - 3.00	0.0984 - 0.1181	1.339	1.035	XT25-15ST
	XT25-0350	3.00 - 3.50	0.1181 - 0.1378	1.339	1.035	XT25-15ST
	XT25-0400	3.50 - 4.00	0.1378 - 0.1575	1.339	1.035	XT25-15ST
	XT25-0500	4.00 - 5.00	0.1575 - 0.1969	1.339	1.035	XT25-15ST
	XT25-0600	5.00 - 6.00	0.1969 - 0.2362	1.339	1.035	XT25-15ST
	XT25-0700	6.00 - 7.00	0.2362 - 0.2756	1.339	1.035	XT25-15ST
	XT25-0800	7.00 - 8.00	0.2756 - 0.3150	1.339	1.035	XT25-15ST
	XT25-0900	8.00 - 9.00	0.3150 - 0.3543	1.339	1.035	XT25-15ST
	XT25-1000	9.00 - 10.00	0.3543 - 0.3937	1.339	1.035	XT25-15ST
	XT25-1100	10.00 - 11.00	0.3937 - 0.4331	1.339	1.035	XT25-15ST
	XT25-1200	11.00 - 12.00	0.4331 - 0.4724	1.339	1.035	XT25-15ST
	XT25-1300	12.00 - 13.00	0.4724 - 0.5118	1.339	1.035	XT25-15ST
	XT25-1400	13.00 - 14.00	0.5118 - 0.5512	1.339	1.035	XT25-15ST
	XT25-1500	14.00 - 15.00	0.5512 - 0.5906	1.339	1.035	XT25-15ST
	XT25-1600	15.00 - 16.00	0.5906 - 0.6299	1.339	1.035	XT25-15ST

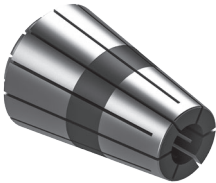
XT32 Precision® Collets Inch

XT Precision	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	XT32-F125	0.086 - 0.125	2.2 - 3.2	1.571	1.301	XT32-11ST
	XT32-F187	0.148 - 0.187	3.8 - 4.7	1.571	1.301	XT32-11ST
	XT32-F250	0.211 - 0.250	5.4 - 6.4	1.571	1.301	XT32-11ST
	XT32-F312	0.273 - 0.312	6.9 - 7.9	1.571	1.301	XT32-11ST
	XT32-F375	0.336 - 0.375	8.5 - 9.5	1.571	1.301	XT32-11ST
	XT32-F437	0.398 - 0.437	10.1 - 11.1	1.571	1.301	XT32-11ST
	XT32-F500	0.461 - 0.500	11.7 - 12.7	1.571	1.301	XT32-11ST
	XT32-F562	0.523 - 0.562	13.3 - 14.3	1.571	1.301	XT32-11ST
	XT32-F625	0.586 - 0.625	14.9 - 15.9	1.571	1.301	XT32-11ST
	XT32-F687	0.648 - 0.687	16.5 - 17.4	1.571	1.301	XT32-11ST
	XT32-F750	0.711 - 0.750	18.0 - 19.0	1.571	1.301	XT32-11ST

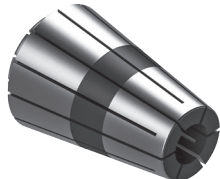
XT32 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	XT32-0300	2.50 - 3.00	0.0984 - 0.1181	1.571	1.301	XT32-19ST
	XT32-0350	3.00 - 3.50	0.1181 - 0.1378	1.571	1.301	XT32-19ST
	XT32-0400	3.50 - 4.00	0.1378 - 0.1575	1.571	1.301	XT32-19ST
	XT32-0500	4.00 - 5.00	0.1575 - 0.1969	1.571	1.301	XT32-19ST
	XT32-0600	5.00 - 6.00	0.1969 - 0.2362	1.571	1.301	XT32-19ST
	XT32-0700	6.00 - 7.00	0.2362 - 0.2756	1.571	1.301	XT32-19ST
	XT32-0800	7.00 - 8.00	0.2756 - 0.3150	1.571	1.301	XT32-19ST
	XT32-0900	8.00 - 9.00	0.3150 - 0.3543	1.571	1.301	XT32-19ST
	XT32-1000	9.00 - 10.00	0.3543 - 0.3937	1.571	1.301	XT32-19ST
	XT32-1100	10.00 - 11.00	0.3937 - 0.4331	1.571	1.301	XT32-19ST
	XT32-1200	11.00 - 12.00	0.4331 - 0.4724	1.571	1.301	XT32-19ST
	XT32-1300	12.00 - 13.00	0.4724 - 0.5118	1.571	1.301	XT32-19ST
	XT32-1400	13.00 - 14.00	0.5118 - 0.5512	1.571	1.301	XT32-19ST
	XT32-1500	14.00 - 15.00	0.5512 - 0.5906	1.571	1.301	XT32-19ST
	XT32-1600	15.00 - 16.00	0.5906 - 0.6299	1.571	1.301	XT32-19ST
	XT32-1700	16.00 - 17.00	0.6299 - 0.6693	1.571	1.301	XT32-19ST
	XT32-1800	17.00 - 18.00	0.6693 - 0.7087	1.571	1.301	XT32-19ST
	XT32-1900	18.00 - 19.00	0.7087 - 0.7480	1.571	1.301	XT32-19ST
	XT32-2000	19.00 - 20.00	0.7480 - 0.7874	1.571	1.301	XT32-19ST

XT40 Precision® Collets Inch

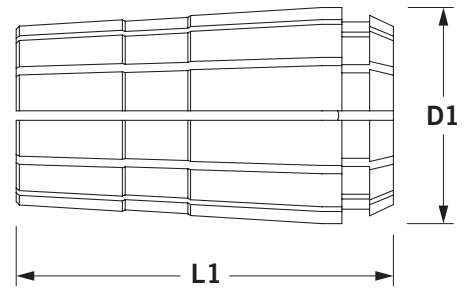
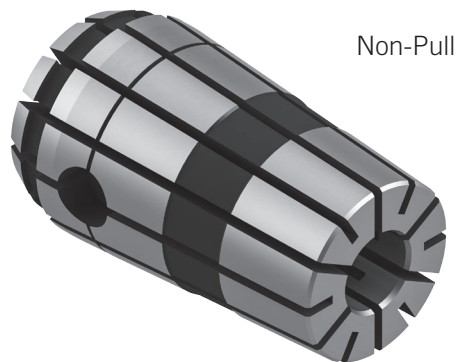
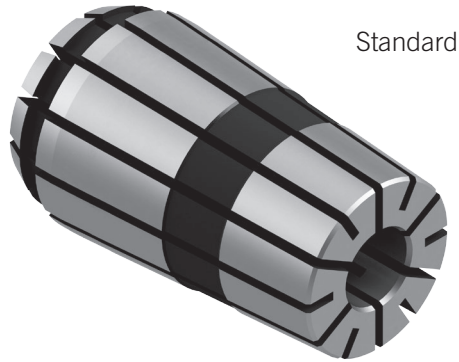
XT Precision	Part Number	Size Range	Ref. Size Range (mm)	L1	D1	Collet Set Part No.
	XT40-F125	0.086 - 0.125	2.2 - 3.2	1.776	1.617	XT40-15ST
	XT40-F187	0.148 - 0.187	3.8 - 4.7	1.776	1.617	XT40-15ST
	XT40-F250	0.211 - 0.250	5.4 - 6.4	1.776	1.617	XT40-15ST
	XT40-F312	0.273 - 0.312	6.9 - 7.9	1.776	1.617	XT40-15ST
	XT40-F375	0.336 - 0.375	8.5 - 9.5	1.776	1.617	XT40-15ST
	XT40-F437	0.398 - 0.437	10.1 - 11.1	1.776	1.617	XT40-15ST
	XT40-F500	0.461 - 0.500	11.7 - 12.7	1.776	1.617	XT40-15ST
	XT40-F562	0.523 - 0.562	13.3 - 14.3	1.776	1.617	XT40-15ST
	XT40-F625	0.586 - 0.625	14.9 - 15.9	1.776	1.617	XT40-15ST
	XT40-F687	0.648 - 0.687	16.5 - 17.4	1.776	1.617	XT40-15ST
	XT40-F750	0.711 - 0.750	18.0 - 19.0	1.776	1.617	XT40-15ST
	XT40-F812	0.774 - 0.812	19.7 - 20.6	1.776	1.617	XT40-15ST
	XT40-F875	0.836 - 0.875	21.2 - 22.2	1.776	1.617	XT40-15ST
	XT40-F937	0.899 - 0.937	22.8 - 23.8	1.776	1.617	XT40-15ST
	XT40-F100	0.961 - 1.000	24.4 - 25.4	1.776	1.617	XT40-15ST

XT40 Precision® Collets Metric

XT Precision (mm)	Part Number	Size Range (mm)	Ref. Size Range	L1	D1	Collet Set Part No.
	XT40-0400	3.50 - 4.00	0.1378 - 0.1575	1.776	1.617	XT40-23ST
	XT40-0500	4.00 - 5.00	0.1575 - 0.1969	1.776	1.617	XT40-23ST
	XT40-0600	5.00 - 6.00	0.1969 - 0.2362	1.776	1.617	XT40-23ST
	XT40-0700	6.00 - 7.00	0.2362 - 0.2756	1.776	1.617	XT40-23ST
	XT40-0800	7.00 - 8.00	0.2756 - 0.3150	1.776	1.617	XT40-23ST
	XT40-0900	8.00 - 9.00	0.3150 - 0.3543	1.776	1.617	XT40-23ST
	XT40-1000	9.00 - 10.00	0.3543 - 0.3937	1.776	1.617	XT40-23ST
	XT40-1100	10.00 - 11.00	0.3937 - 0.4331	1.776	1.617	XT40-23ST
	XT40-1200	11.00 - 12.00	0.4331 - 0.4724	1.776	1.617	XT40-23ST
	XT40-1300	12.00 - 13.00	0.4724 - 0.5118	1.776	1.617	XT40-23ST
	XT40-1400	13.00 - 14.00	0.5118 - 0.5512	1.776	1.617	XT40-23ST
	XT40-1500	14.00 - 15.00	0.5512 - 0.5906	1.776	1.617	XT40-23ST
	XT40-1600	15.00 - 16.00	0.5906 - 0.6299	1.776	1.617	XT40-23ST
	XT40-1700	16.00 - 17.00	0.6299 - 0.6693	1.776	1.617	XT40-23ST
	XT40-1800	17.00 - 18.00	0.6693 - 0.7087	1.776	1.617	XT40-23ST
	XT40-1900	18.00 - 19.00	0.7087 - 0.7480	1.776	1.617	XT40-23ST
	XT40-2000	19.00 - 20.00	0.7480 - 0.7874	1.776	1.617	XT40-23ST
	XT40-2100	20.00 - 21.00	0.7874 - 0.8268	1.776	1.617	XT40-23ST
	XT40-2200	21.00 - 22.00	0.8268 - 0.8661	1.776	1.617	XT40-23ST
	XT40-2300	22.00 - 23.00	0.8661 - 0.9055	1.776	1.617	XT40-23ST
XT40-2400	23.00 - 24.00	0.9055 - 0.9449	1.776	1.617	XT40-23ST	
XT40-2500	24.00 - 25.00	0.9449 - 0.9843	1.776	1.617	XT40-23ST	
XT40-2600	25.00 - 26.00	0.9843 - 1.0236	1.776	1.617	XT40-23ST	

TG100 Complex® Collets

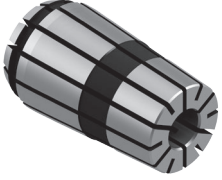
- ▶ For use with TG100 Complex® collet chucks, collet nuts and wrenches. TG100 Complex® collets have a 0.0004" T.I.R., and a clamping range of 1/64".



- + Collets are interchangeable with Erickson type collets.
- + TG100 sizes range from 5/64" through 1".

- + Collet size (I.D.) is the last four digits of our part number. The I.D. will collapse 1/64".
- + Wide range of collets — reduce collet and toolholder inventory.

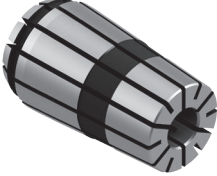
TG100 Comflex® Standard Collets

TG100 Standard	Part Number	Description	Size Range	L1	D1
	TG10-0093	Comflex® Standard Collet	0.078 - 0.093	2.375	1.379
	TG10-0109	Comflex® Standard Collet	0.094 - 0.109	2.375	1.379
	TG10-0125	Comflex® Standard Collet	0.109 - 0.125	2.375	1.379
	TG10-0140	Comflex® Standard Collet	0.125 - 0.140	2.375	1.379
	TG10-0156	Comflex® Standard Collet	0.141 - 0.156	2.375	1.379
	TG10-0171	Comflex® Standard Collet	0.156 - 0.171	2.375	1.379
	TG10-0187	Comflex® Standard Collet	0.172 - 0.187	2.375	1.379
	TG10-0203	Comflex® Standard Collet	0.188 - 0.203	2.375	1.379
	TG10-0218	Comflex® Standard Collet	0.203 - 0.218	2.375	1.379
	TG10-0234	Comflex® Standard Collet	0.219 - 0.234	2.375	1.379
	TG10-0250	Comflex® Standard Collet	0.234 - 0.250	2.375	1.379
	TG10-0265	Comflex® Standard Collet	0.250 - 0.265	2.375	1.379
	TG10-0281	Comflex® Standard Collet	0.266 - 0.281	2.375	1.379
	TG10-0296	Comflex® Standard Collet	0.281 - 0.296	2.375	1.379
	TG10-0312	Comflex® Standard Collet	0.297 - 0.312	2.375	1.379
	TG10-0328	Comflex® Standard Collet	0.313 - 0.328	2.375	1.379
	TG10-0343	Comflex® Standard Collet	0.328 - 0.343	2.375	1.379
	TG10-0359	Comflex® Standard Collet	0.344 - 0.359	2.375	1.379
	TG10-0375	Comflex® Standard Collet	0.359 - 0.375	2.375	1.379
	TG10-0390	Comflex® Standard Collet	0.375 - 0.390	2.375	1.379
	TG10-0406	Comflex® Standard Collet	0.391 - 0.406	2.375	1.379
	TG10-0421	Comflex® Standard Collet	0.406 - 0.421	2.375	1.379
	TG10-0437	Comflex® Standard Collet	0.422 - 0.437	2.375	1.379
	TG10-0453	Comflex® Standard Collet	0.438 - 0.453	2.375	1.379
	TG10-0468	Comflex® Standard Collet	0.453 - 0.468	2.375	1.379
	TG10-0484	Comflex® Standard Collet	0.469 - 0.484	2.375	1.379
	TG10-0500	Comflex® Standard Collet	0.484 - 0.500	2.375	1.379
	TG10-0515	Comflex® Standard Collet	0.500 - 0.515	2.375	1.379
TG10-0531	Comflex® Standard Collet	0.516 - 0.531	2.375	1.379	
TG10-0546	Comflex® Standard Collet	0.531 - 0.546	2.375	1.379	
TG10-0562	Comflex® Standard Collet	0.547 - 0.562	2.375	1.379	
TG10-0578	Comflex® Standard Collet	0.563 - 0.578	2.375	1.379	
TG10-0593	Comflex® Standard Collet	0.578 - 0.593	2.375	1.379	
TG10-0609	Comflex® Standard Collet	0.594 - 0.609	2.375	1.379	
TG10-0625	Comflex® Standard Collet	0.609 - 0.625	2.375	1.379	
TG10-0640	Comflex® Standard Collet	0.625 - 0.640	2.375	1.379	
TG10-0656	Comflex® Standard Collet	0.641 - 0.656	2.375	1.379	

Accessories // TG100 Comflex® Collets

TG100 Complex® Standard Collets *Continued*


Accessories // TG100 Complex® Collets

TG100 Standard	Part Number	Description	Size Range	L1	D1
	TG10-0671	Complex® Standard Collet	0.656 - 0.671	2.375	1.379
	TG10-0687	Complex® Standard Collet	0.672 - 0.687	2.375	1.379
	TG10-0703	Complex® Standard Collet	0.688 - 0.703	2.375	1.379
	TG10-0718	Complex® Standard Collet	0.703 - 0.718	2.375	1.379
	TG10-0734	Complex® Standard Collet	0.719 - 0.734	2.375	1.379
	TG10-0750	Complex® Standard Collet	0.734 - 0.750	2.375	1.379
	TG10-0765	Complex® Standard Collet	0.750 - 0.765	2.375	1.379
	TG10-0781	Complex® Standard Collet	0.766 - 0.781	2.375	1.379
	TG10-0796	Complex® Standard Collet	0.781 - 0.796	2.375	1.379
	TG10-0812	Complex® Standard Collet	0.797 - 0.812	2.375	1.379
	TG10-0828	Complex® Standard Collet	0.813 - 0.828	2.375	1.379
	TG10-0843	Complex® Standard Collet	0.828 - 0.843	2.375	1.379
	TG10-0859	Complex® Standard Collet	0.844 - 0.859	2.375	1.379
	TG10-0875	Complex® Standard Collet	0.859 - 0.875	2.375	1.379
	TG10-0890	Complex® Standard Collet	0.875 - 0.890	2.375	1.379
	TG10-0906	Complex® Standard Collet	0.891 - 0.906	2.375	1.379
	TG10-0921	Complex® Standard Collet	0.906 - 0.921	2.375	1.379
	TG10-0937	Complex® Standard Collet	0.922 - 0.937	2.375	1.379
TG10-0953	Complex® Standard Collet	0.938 - 0.953	2.375	1.379	
TG10-0968	Complex® Standard Collet	0.953 - 0.968	2.375	1.379	
TG10-0984	Complex® Standard Collet	0.969 - 0.984	2.375	1.379	
TG10-1000	Complex® Standard Collet	0.984 - 1.000	2.375	1.379	


Collet Set

Part Number	Description	Set Range
TG10-21ST	21 Piece Complex® Standard Collet Set	0.375-1.000 (1/32 incr.)
TG10-30ST	30 Piece Complex® Standard Collet Set	0.094-1.000 (1/32 incr.)
TG10-41ST	41 Piece Complex® Standard Collet Set	0.375-1.000 (1/64 incr.)
TG10-59ST	59 Piece Complex® Standard Collet Set	0.094-1.000 (1/64 incr.)

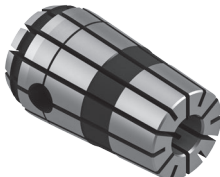
TG100 Complex® Sealed Collets

TG100 Sealed	Part Number	Description	Size Range	L1	D1
	TG10-0093S	Comflex® Sealed Collet	0.093	2.375	1.379
	TG10-0109S	Comflex® Sealed Collet	0.109	2.375	1.379
	TG10-0125S	Comflex® Sealed Collet	0.125	2.375	1.379
	TG10-0140S	Comflex® Sealed Collet	0.140	2.375	1.379
	TG10-0156S	Comflex® Sealed Collet	0.156	2.375	1.379
	TG10-0171S	Comflex® Sealed Collet	0.171	2.375	1.379
	TG10-0187S	Comflex® Sealed Collet	0.187	2.375	1.379
	TG10-0203S	Comflex® Sealed Collet	0.203	2.375	1.379
	TG10-0218S	Comflex® Sealed Collet	0.218	2.375	1.379
	TG10-0234S	Comflex® Sealed Collet	0.234	2.375	1.379
	TG10-0250S	Comflex® Sealed Collet	0.250	2.375	1.379
	TG10-0265S	Comflex® Sealed Collet	0.265	2.375	1.379
	TG10-0281S	Comflex® Sealed Collet	0.281	2.375	1.379
	TG10-0296S	Comflex® Sealed Collet	0.296	2.375	1.379
	TG10-0312S	Comflex® Sealed Collet	0.312	2.375	1.379
	TG10-0328S	Comflex® Sealed Collet	0.328	2.375	1.379
	TG10-0343S	Comflex® Sealed Collet	0.343	2.375	1.379
	TG10-0359S	Comflex® Sealed Collet	0.359	2.375	1.379
	TG10-0375S	Comflex® Sealed Collet	0.375	2.375	1.379
	TG10-0390S	Comflex® Sealed Collet	0.390	2.375	1.379
	TG10-0406S	Comflex® Sealed Collet	0.406	2.375	1.379
	TG10-0421S	Comflex® Sealed Collet	0.421	2.375	1.379
	TG10-0437S	Comflex® Sealed Collet	0.437	2.375	1.379
	TG10-0453S	Comflex® Sealed Collet	0.453	2.375	1.379
	TG10-0468S	Comflex® Sealed Collet	0.468	2.375	1.379
	TG10-0484S	Comflex® Sealed Collet	0.484	2.375	1.379
	TG10-0500S	Comflex® Sealed Collet	0.500	2.375	1.379
	TG10-0515S	Comflex® Sealed Collet	0.515	2.375	1.379
TG10-0531S	Comflex® Sealed Collet	0.531	2.375	1.379	
TG10-0546S	Comflex® Sealed Collet	0.546	2.375	1.379	
TG10-0562S	Comflex® Sealed Collet	0.562	2.375	1.379	
TG10-0578S	Comflex® Sealed Collet	0.578	2.375	1.379	
TG10-0593S	Comflex® Sealed Collet	0.593	2.375	1.379	

TG100 Complex® Sealed Collets *Continued*

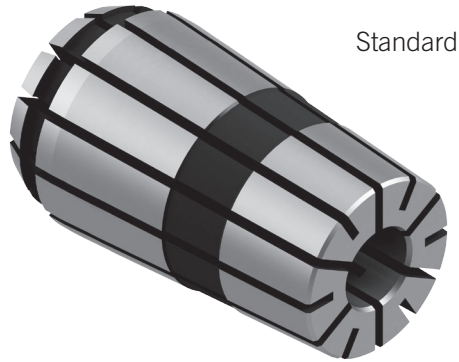
TG100 Standard	Part Number	Description	Size Range	L1	D1
	TG10-0609S	Complex® Sealed Collet	0.609	2.375	1.379
	TG10-0625S	Complex® Sealed Collet	0.625	2.375	1.379
	TG10-0640S	Complex® Sealed Collet	0.640	2.375	1.379
	TG10-0656S	Complex® Sealed Collet	0.656	2.375	1.379
	TG10-0671S	Complex® Sealed Collet	0.671	2.375	1.379
	TG10-0687S	Complex® Sealed Collet	0.687	2.375	1.379
	TG10-0703S	Complex® Sealed Collet	0.703	2.375	1.379
	TG10-0718S	Complex® Sealed Collet	0.718	2.375	1.379
	TG10-0734S	Complex® Sealed Collet	0.734	2.375	1.379
	TG10-0750S	Complex® Sealed Collet	0.750	2.375	1.379
	TG10-0765S	Complex® Sealed Collet	0.765	2.375	1.379
	TG10-0781S	Complex® Sealed Collet	0.781	2.375	1.379
	TG10-0796S	Complex® Sealed Collet	0.796	2.375	1.379
	TG10-0812S	Complex® Sealed Collet	0.812	2.375	1.379
	TG10-0828S	Complex® Sealed Collet	0.828	2.375	1.379
	TG10-0843S	Complex® Sealed Collet	0.843	2.375	1.379
	TG10-0859S	Complex® Sealed Collet	0.859	2.375	1.379
	TG10-0875S	Complex® Sealed Collet	0.875	2.375	1.379
	TG10-0890S	Complex® Sealed Collet	0.890	2.375	1.379
	TG10-0906S	Complex® Sealed Collet	0.906	2.375	1.379
TG10-0921S	Complex® Sealed Collet	0.921	2.375	1.379	
TG10-0937S	Complex® Sealed Collet	0.937	2.375	1.379	
TG10-0953S	Complex® Sealed Collet	0.953	2.375	1.379	
TG10-0968S	Complex® Sealed Collet	0.968	2.375	1.379	
TG10-0984S	Complex® Sealed Collet	0.984	2.375	1.379	
TG10-1000S	Complex® Sealed Collet	1.000	2.375	1.379	
Collet Set					
	Part Number	Description	Set Range		
	TG10-21STS	21 Piece Complex® Sealed Collet Set	0.375-1.000 (1/32 incr.)		
	TG10-30STS	30 Piece Complex® Sealed Collet Set	0.094-1.000 (1/32 incr.)		
	TG10-41STS	41 Piece Complex® Sealed Collet Set	0.375-1.000 (1/64 incr.)		
	TG10-59STS	59 Piece Complex® Sealed Collet Set	0.094-1.000 (1/64 incr.)		

TG100 Comflex® Non-Pull End Mill Collets

TG100 Non-Pull	Part Number	Description	Size Range	L1	D1
	TG10-0375NP	Comflex® Non-Pull End Mill Collet	0.375	2.375	1.379
	TG10-0500NP	Comflex® Non-Pull End Mill Collet	0.500	2.375	1.379
	TG10-0625NP	Comflex® Non-Pull End Mill Collet	0.625	2.375	1.379
	TG10-0750NP	Comflex® Non-Pull End Mill Collet	0.750	2.375	1.379
	TG10-0875NP	Comflex® Non-Pull End Mill Collet	0.875	2.375	1.379
	TG10-1000NP	Comflex® Non-Pull End Mill Collet	1.000	2.375	1.379

TG150 Complex® Collets

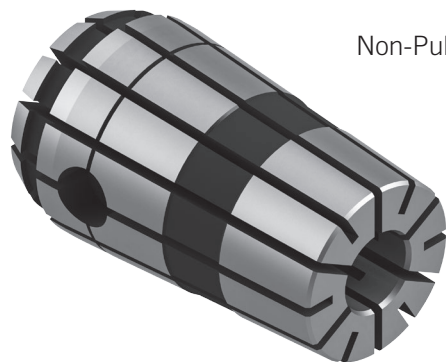
For use with TG150 Complex® collet chucks, collet nuts and wrenches. TG150 Complex® collets have a 0.0004" T.I.R., and a clamping range of 1/64".



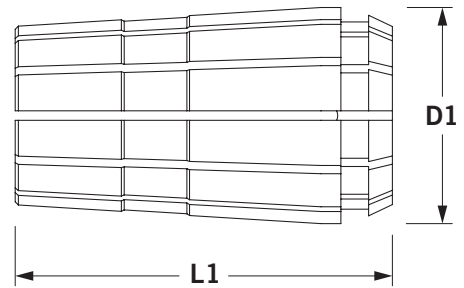
Standard



Sealed



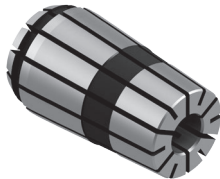
Non-Pull



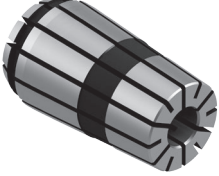
- + Collets are interchangeable with Erickson type collets.
- + TG150 sizes range from 1/2" through 1-1/2".

- + Collet size (I.D.) is the last four digits of our part number. The I.D. will collapse 1/64".
- + Wide range of collets — reduce collet and toolholder inventory.


TG150 Comflex® Standard Collets

TG150 Standard	Part Number	Description	Size Range	L1	D1
	TG15-0500	Comflex® Standard Collet	0.484 - 0.500	3.000	2.001
	TG15-0515	Comflex® Standard Collet	0.500 - 0.515	3.000	2.001
	TG15-0531	Comflex® Standard Collet	0.516 - 0.531	3.000	2.001
	TG15-0546	Comflex® Standard Collet	0.531 - 0.546	3.000	2.001
	TG15-0562	Comflex® Standard Collet	0.547 - 0.562	3.000	2.001
	TG15-0578	Comflex® Standard Collet	0.563 - 0.578	3.000	2.001
	TG15-0593	Comflex® Standard Collet	0.578 - 0.593	3.000	2.001
	TG15-0609	Comflex® Standard Collet	0.594 - 0.609	3.000	2.001
	TG15-0625	Comflex® Standard Collet	0.609 - 0.625	3.000	2.001
	TG15-0640	Comflex® Standard Collet	0.625 - 0.640	3.000	2.001
	TG15-0656	Comflex® Standard Collet	0.641 - 0.656	3.000	2.001
	TG15-0671	Comflex® Standard Collet	0.656 - 0.671	3.000	2.001
	TG15-0687	Comflex® Standard Collet	0.672 - 0.687	3.000	2.001
	TG15-0703	Comflex® Standard Collet	0.688 - 0.703	3.000	2.001
	TG15-0718	Comflex® Standard Collet	0.703 - 0.718	3.000	2.001
	TG15-0734	Comflex® Standard Collet	0.719 - 0.734	3.000	2.001
	TG15-0750	Comflex® Standard Collet	0.734 - 0.750	3.000	2.001
	TG15-0765	Comflex® Standard Collet	0.750 - 0.765	3.000	2.001
	TG15-0781	Comflex® Standard Collet	0.766 - 0.781	3.000	2.001
	TG15-0796	Comflex® Standard Collet	0.781 - 0.796	3.000	2.001
	TG15-0812	Comflex® Standard Collet	0.797 - 0.812	3.000	2.001
	TG15-0828	Comflex® Standard Collet	0.813 - 0.828	3.000	2.001
	TG15-0843	Comflex® Standard Collet	0.828 - 0.843	3.000	2.001
	TG15-0859	Comflex® Standard Collet	0.844 - 0.859	3.000	2.001
	TG15-0875	Comflex® Standard Collet	0.859 - 0.875	3.000	2.001
	TG15-0890	Comflex® Standard Collet	0.875 - 0.890	3.000	2.001
	TG15-0906	Comflex® Standard Collet	0.891 - 0.906	3.000	2.001
	TG15-0921	Comflex® Standard Collet	0.906 - 0.921	3.000	2.001
TG15-0937	Comflex® Standard Collet	0.922 - 0.937	3.000	2.001	
TG15-0953	Comflex® Standard Collet	0.938 - 0.953	3.000	2.001	
TG15-0968	Comflex® Standard Collet	0.953 - 0.968	3.000	2.001	
TG15-0984	Comflex® Standard Collet	0.969 - 0.984	3.000	2.001	
TG15-1000	Comflex® Standard Collet	0.984 - 1.000	3.000	2.001	
TG15-1015	Comflex® Standard Collet	1.000 - 1.015	3.000	2.001	
TG15-1031	Comflex® Standard Collet	1.016 - 1.031	3.000	2.001	
TG15-1046	Comflex® Standard Collet	1.031 - 1.046	3.000	2.001	
TG15-1062	Comflex® Standard Collet	1.047 - 1.062	3.000	2.001	

TG150 Complex® Standard Collets *Continued*


TG150 Standard	Part Number	Description	Size Range	L1	D1	
	TG15-1078	Complex® Standard Collet	1.063 - 1.078	3.000	2.001	
	TG15-1093	Complex® Standard Collet	1.078 - 1.093	3.000	2.001	
	TG15-1109	Complex® Standard Collet	1.094 - 1.109	3.000	2.001	
	TG15-1125	Complex® Standard Collet	1.109 - 1.125	3.000	2.001	
	TG15-1140	Complex® Standard Collet	1.125 - 1.140	3.000	2.001	
	TG15-1156	Complex® Standard Collet	1.141 - 1.156	3.000	2.001	
	TG15-1171	Complex® Standard Collet	1.156 - 1.171	3.000	2.001	
	TG15-1187	Complex® Standard Collet	1.172 - 1.187	3.000	2.001	
	TG15-1203	Complex® Standard Collet	1.188 - 1.203	3.000	2.001	
	TG15-1218	Complex® Standard Collet	1.203 - 1.218	3.000	2.001	
	TG15-1234	Complex® Standard Collet	1.219 - 1.234	3.000	2.001	
	TG15-1250	Complex® Standard Collet	1.234 - 1.250	3.000	2.001	
	TG15-1265	Complex® Standard Collet	1.250 - 1.265	3.000	2.001	
	TG15-1281	Complex® Standard Collet	1.266 - 1.281	3.000	2.001	
	TG15-1296	Complex® Standard Collet	1.281 - 1.296	3.000	2.001	
	TG15-1312	Complex® Standard Collet	1.297 - 1.312	3.000	2.001	
	TG15-1328	Complex® Standard Collet	1.313 - 1.328	3.000	2.001	
	TG15-1343	Complex® Standard Collet	1.328 - 1.343	3.000	2.001	
	TG15-1359	Complex® Standard Collet	1.344 - 1.359	3.000	2.001	
	TG15-1375	Complex® Standard Collet	1.359 - 1.375	3.000	2.001	
	TG15-1390	Complex® Standard Collet	1.375 - 1.390	3.000	2.001	
	TG15-1406	Complex® Standard Collet	1.391 - 1.406	3.000	2.001	
	TG15-1421	Complex® Standard Collet	1.406 - 1.421	3.000	2.001	
	TG15-1437	Complex® Standard Collet	1.422 - 1.437	3.000	2.001	
	TG15-1453	Complex® Standard Collet	1.438 - 1.453	3.000	2.001	
	TG15-1468	Complex® Standard Collet	1.453 - 1.468	3.000	2.001	
	TG15-1484	Complex® Standard Collet	1.469 - 1.484	3.000	2.001	
	TG15-1500	Complex® Standard Collet	1.484 - 1.500	3.000	2.001	
	Collet Set					
		Part Number	Description	Set Range		
		TG15-33ST	33 Piece Complex® Standard Collet Set	0.500-1.500 (1/32 incr.)		
		TG15-65ST	65 Piece Complex® Standard Collet Set	0.500-1.500 (1/64 incr.)		

TG150 Comflex® Sealed Collets

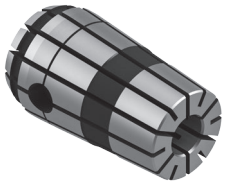
TG150 Sealed	Part Number	Description	Size Range	L1	D1
	TG15-0500S	Comflex® Sealed Collet	0.500	3.000	2.001
	TG15-0515S	Comflex® Sealed Collet	0.515	3.000	2.001
	TG15-0531S	Comflex® Sealed Collet	0.531	3.000	2.001
	TG15-0546S	Comflex® Sealed Collet	0.546	3.000	2.001
	TG15-0562S	Comflex® Sealed Collet	0.562	3.000	2.001
	TG15-0578S	Comflex® Sealed Collet	0.578	3.000	2.001
	TG15-0593S	Comflex® Sealed Collet	0.593	3.000	2.001
	TG15-0609S	Comflex® Sealed Collet	0.609	3.000	2.001
	TG15-0625S	Comflex® Sealed Collet	0.625	3.000	2.001
	TG15-0640S	Comflex® Sealed Collet	0.640	3.000	2.001
	TG15-0656S	Comflex® Sealed Collet	0.656	3.000	2.001
	TG15-0671S	Comflex® Sealed Collet	0.671	3.000	2.001
	TG15-0687S	Comflex® Sealed Collet	0.687	3.000	2.001
	TG15-0703S	Comflex® Sealed Collet	0.703	3.000	2.001
	TG15-0718S	Comflex® Sealed Collet	0.718	3.000	2.001
	TG15-0734S	Comflex® Sealed Collet	0.734	3.000	2.001
	TG15-0750S	Comflex® Sealed Collet	0.750	3.000	2.001
	TG15-0765S	Comflex® Sealed Collet	0.765	3.000	2.001
	TG15-0781S	Comflex® Sealed Collet	0.781	3.000	2.001
	TG15-0796S	Comflex® Sealed Collet	0.796	3.000	2.001
	TG15-0812S	Comflex® Sealed Collet	0.812	3.000	2.001
	TG15-0828S	Comflex® Sealed Collet	0.828	3.000	2.001
	TG15-0843S	Comflex® Sealed Collet	0.843	3.000	2.001
	TG15-0859S	Comflex® Sealed Collet	0.859	3.000	2.001
	TG15-0875S	Comflex® Sealed Collet	0.875	3.000	2.001
	TG15-0890S	Comflex® Sealed Collet	0.890	3.000	2.001
	TG15-0906S	Comflex® Sealed Collet	0.906	3.000	2.001
	TG15-0921S	Comflex® Sealed Collet	0.921	3.000	2.001
	TG15-0937S	Comflex® Sealed Collet	0.937	3.000	2.001
	TG15-0953S	Comflex® Sealed Collet	0.953	3.000	2.001
	TG15-0968S	Comflex® Sealed Collet	0.968	3.000	2.001
	TG15-0984S	Comflex® Sealed Collet	0.984	3.000	2.001
	TG15-1000S	Comflex® Sealed Collet	1.000	3.000	2.001

TG150 Comflex® Sealed Collets *Continued*

Accessories // TG150 Comflex® Collets

TG150 Standard	Part Number	Description	Size Range	L1	D1
	TG15-1015S	Comflex® Sealed Collet	1.015	3.000	2.001
	TG15-1031S	Comflex® Sealed Collet	1.031	3.000	2.001
	TG15-1046S	Comflex® Sealed Collet	1.046	3.000	2.001
	TG15-1062S	Comflex® Sealed Collet	1.062	3.000	2.001
	TG15-1078S	Comflex® Sealed Collet	1.078	3.000	2.001
	TG15-1093S	Comflex® Sealed Collet	1.093	3.000	2.001
	TG15-1109S	Comflex® Sealed Collet	1.109	3.000	2.001
	TG15-1125S	Comflex® Sealed Collet	1.125	3.000	2.001
	TG15-1140S	Comflex® Sealed Collet	1.140	3.000	2.001
	TG15-1156S	Comflex® Sealed Collet	1.156	3.000	2.001
	TG15-1171S	Comflex® Sealed Collet	1.171	3.000	2.001
	TG15-1187S	Comflex® Sealed Collet	1.187	3.000	2.001
	TG15-1203S	Comflex® Sealed Collet	1.203	3.000	2.001
	TG15-1218S	Comflex® Sealed Collet	1.218	3.000	2.001
	TG15-1234S	Comflex® Sealed Collet	1.234	3.000	2.001
	TG15-1250S	Comflex® Sealed Collet	1.250	3.000	2.001
	TG15-1265S	Comflex® Sealed Collet	1.265	3.000	2.001
	TG15-1281S	Comflex® Sealed Collet	1.281	3.000	2.001
	TG15-1296S	Comflex® Sealed Collet	1.296	3.000	2.001
	TG15-1312S	Comflex® Sealed Collet	1.312	3.000	2.001
	TG15-1328S	Comflex® Sealed Collet	1.328	3.000	2.001
	TG15-1343S	Comflex® Sealed Collet	1.343	3.000	2.001
	TG15-1359S	Comflex® Sealed Collet	1.359	3.000	2.001
	TG15-1375S	Comflex® Sealed Collet	1.375	3.000	2.001
	TG15-1390S	Comflex® Sealed Collet	1.390	3.000	2.001
TG15-1406S	Comflex® Sealed Collet	1.406	3.000	2.001	
TG15-1421S	Comflex® Sealed Collet	1.421	3.000	2.001	
TG15-1437S	Comflex® Sealed Collet	1.437	3.000	2.001	
TG15-1453S	Comflex® Sealed Collet	1.453	3.000	2.001	
TG15-1468S	Comflex® Sealed Collet	1.468	3.000	2.001	
TG15-1484S	Comflex® Sealed Collet	1.484	3.000	2.001	
TG15-1500S	Comflex® Sealed Collet	1.500	3.000	2.001	
Collet Set					
	Part Number	Description	Set Range		
	TG15-33STS	33 Piece Comflex® Sealed Collet Set	0.500-1.500 (1/32 incr.)		
	TG15-65STS	65 Piece Comflex® Sealed Collet Set	0.500-1.500 (1/64 incr.)		

TG150 Comflex® Non-Pull End Mill Collets

TG150 Non-Pull	Part Number	Description	Size Range	L1	D1
	TG15-0375NP	Comflex® Non-Pull End Mill Collet	0.375	3.000	2.001
	TG15-0500NP	Comflex® Non-Pull End Mill Collet	0.500	3.000	2.001
	TG15-0625NP	Comflex® Non-Pull End Mill Collet	0.625	3.000	2.001
	TG15-0750NP	Comflex® Non-Pull End Mill Collet	0.750	3.000	2.001
	TG15-0875NP	Comflex® Non-Pull End Mill Collet	0.875	3.000	2.001
	TG15-1000NP	Comflex® Non-Pull End Mill Collet	1.000	3.000	2.001
	TG15-1250NP	Comflex® Non-Pull End Mill Collet	1.250	3.000	2.001
	TG15-1500NP	Comflex® Non-Pull End Mill Collet	1.500	3.000	2.001

Quick Change Tap Collets


- ▶ Bilz style quick change collet system allows tap and tap size to be changed without tools in seconds. For use with command Tension & Compression Tap Holders and Synchronous (Rigid) Tap Holders.




*Add -T to end of part number to specify torque control collet.

- + Check tap shank and square size before ordering Tap Collets.
- + Precision ground components provide smooth action.
- + **IMPORTANT:** Torque control style tap collets not recommended for use with Synchronous (Rigid) tap holders.
- + Metric tap collets manufactured to DIN 371 and 376.


Quick Change Tap Collet#1 Inch

Collet#1	Part Number	Description	Shank Diameter	Square	Tap Size
	XTC1-0006	Quick Change Tap Collet	0.141	0.110	No. 0-6
	XTC1-0008	Quick Change Tap Collet	0.168	0.131	No. 8
	XTC1-0010	Quick Change Tap Collet	0.194	0.152	No. 10
	XTC1-0012	Quick Change Tap Collet	0.220	0.165	No. 12
	XTC1-0250	Quick Change Tap Collet	0.255	0.191	1/4
	XTC1-0312	Quick Change Tap Collet	0.318	0.238	5/16
	XTC1-0375	Quick Change Tap Collet	0.381	0.286	3/8
	XTC1-0437	Quick Change Tap Collet	0.323	0.242	7/16
	XTC1-0500	Quick Change Tap Collet	0.367	0.275	1/2
	XTC1-0562	Quick Change Tap Collet	0.429	0.322	9/16
	XTC1-P062	Quick Change Tap Collet	0.313	0.234	1/16 Pipe
	XTC1-P125	Quick Change Tap Collet	0.437	0.328	1/8 Pipe
	XTC1-12ST	12 Piece Quick Change Tap Collet Set	-	-	-


Quick Change Tap Collet#1 Metric

Collet#1 (mm)	Part Number	Description	Shank Diameter	Square	Tap Size
	XTC1-M035	Quick Change Tap Collet (mm)	3.5	2.7	M3
	XTC1-M035	Quick Change Tap Collet (mm)	4.5	3.4	M4
	XTC1-M035	Quick Change Tap Collet (mm)	6.0	4.9	M5, M6, M8
	XTC1-M035	Quick Change Tap Collet (mm)	8.0	6.2	M8
	XTC1-M035	Quick Change Tap Collet (mm)	10.0	8.0	M10
	XTC1-M035	Quick Change Tap Collet (mm)	7.0	5.5	M10
	XTC1-M035	Quick Change Tap Collet (mm)	9.0	7.0	M12
	XTC1-M035	Quick Change Tap Collet (mm)	11.0	9.0	M14


Quick Change Tap Collet#2 Inch

Collet#2	Part Number	Description	Shank Diameter	Square	Tap Size
	XTC2-0312	Quick Change Tap Collet	0.318	0.238	5/16
	XTC2-0375	Quick Change Tap Collet	0.381	0.286	3/8
	XTC2-0437	Quick Change Tap Collet	0.323	0.242	7/16
	XTC2-0500	Quick Change Tap Collet	0.367	0.275	1/2
	XTC2-0562	Quick Change Tap Collet	0.429	0.322	9/16
	XTC2-0625	Quick Change Tap Collet	0.480	0.360	5/8
	XTC2-0687	Quick Change Tap Collet	0.542	0.406	11/16
	XTC2-0750	Quick Change Tap Collet	0.590	0.442	3/4
	XTC2-0812	Quick Change Tap Collet	0.652	0.489	13/16
	XTC2-0875	Quick Change Tap Collet	0.697	0.523	7/8
	XTC2-P250	Quick Change Tap Collet	0.562	0.421	1/4 Pipe
	XTC2-P375	Quick Change Tap Collet	0.700	0.531	3/8 Pipe
	XTC2-P500	Quick Change Tap Collet	0.687	0.515	1/2 Pipe
	XTC2-13ST	13 Piece Quick Change Tap Collet Set		-	-


Quick Change Tap Collet#2 Metric

Collet#2 (mm)	Part Number	Description	Shank Diameter	Square	Tap Size
	XTC2-M060	Quick Change Tap Collet (mm)	6.0	4.9	M6, M8
	XTC2-M070	Quick Change Tap Collet (mm)	7.0	6.2	M8
	XTC2-M070	Quick Change Tap Collet (mm)	8.0	8.0	M10
	XTC2-M090	Quick Change Tap Collet (mm)	9.0	5.5	M10
	XTC2-M100	Quick Change Tap Collet (mm)	10.0	7.0	M12
	XTC2-M110	Quick Change Tap Collet (mm)	11.0	9.0	M14
	XTC2-M120	Quick Change Tap Collet (mm)	12.0	9.0	M16
	XTC2-M140	Quick Change Tap Collet (mm)	14.0	11.0	M18
	XTC2-M160	Quick Change Tap Collet (mm)	16.0	12.0	M20

Quick Change Tap Collet#3 Inch

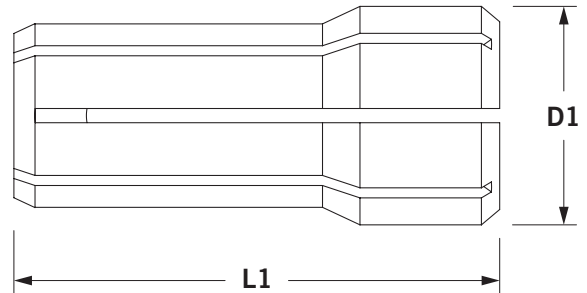
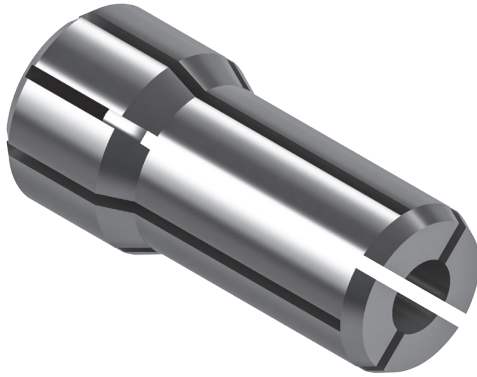
Collet#3	Part Number	Description	Shank Diameter	Square	Tap Size	
	XTC3-0812	Quick Change Tap Collet	0.652	0.489	13/16	
	XTC3-0875	Quick Change Tap Collet	0.697	0.523	7/8	
	XTC3-0937	Quick Change Tap Collet	0.760	0.570	15/16	
	XTC3-1000	Quick Change Tap Collet	0.800	0.600	1	
	XTC3-1125	Quick Change Tap Collet	0.896	0.672	1 1/8	
	XTC3-1250	Quick Change Tap Collet	1.021	0.766	1 1/4	
	XTC3-1375	Quick Change Tap Collet	1.108	0.831	1 3/8	
	XTC3-P750	Quick Change Tap Collet	0.906	0.679	3/4 Pipe	
	XTC3-P100	Quick Change Tap Collet	1.125	0.843	1 Pipe	
	XTC3-09ST	9 Piece Quick Change Tap Collet Set		-	-	-

Quick Change Tap Collet#3 Metric

Collet#3 (mm)	Part Number	Description	Shank Diameter	Square	Tap Size
	XTC3-M110	Quick Change Tap Collet (mm)	11.0	9.0	M14
	XTC3-M120	Quick Change Tap Collet (mm)	12.0	9.0	M16
	XTC3-M140	Quick Change Tap Collet (mm)	14.0	11.0	M18
	XTC3-M160	Quick Change Tap Collet (mm)	16.0	12.0	M20
	XTC3-M180	Quick Change Tap Collet (mm)	18.0	14.5	M22, M24
	XTC3-M200	Quick Change Tap Collet (mm)	20.0	16.0	M27
	XTC3-M220	Quick Change Tap Collet (mm)	22.0	18.0	M30
	XTC3-M250	Quick Change Tap Collet (mm)	25.0	20.0	M33

DA Double Angle Collets

- ▶ DA Double Angle collets have a collapse range of 0.0156" and are made from high-carbon steel.



- + The last four digits of our collet part number are the I.D. size.
- + Collets collapse 1/64" (0.0156").

- + Double Angle (DA) collets are interchangeable with Erickson-type collets.

DA10 Double Angle Collets


DA10	Part Number	Description	Size Range	L1	D1
	DA10-0125	Double Angle Collet	0.109 - 0.125	1.000	0.375
	DA10-0140	Double Angle Collet	0.125 - 0.140	1.000	0.375
	DA10-0156	Double Angle Collet	0.140 - 0.156	1.000	0.375
	DA10-0171	Double Angle Collet	0.156 - 0.171	1.000	0.375
	DA10-0187	Double Angle Collet	0.171 - 0.187	1.000	0.375
	DA10-0203	Double Angle Collet	0.187 - 0.203	1.000	0.375
	DA10-0218	Double Angle Collet	0.203 - 0.218	1.000	0.375
	DA10-0234	Double Angle Collet	0.218 - 0.234	1.000	0.375
	DA10-0250	Double Angle Collet	0.234 - 0.250	1.000	0.375
	DA10-0265	Double Angle Collet	0.250 - 0.265	1.000	0.375
	DA10-0281	Double Angle Collet	0.265 - 0.281	1.000	0.375
	DA10-0296	Double Angle Collet	0.281 - 0.296	1.000	0.375
	DA10-0312	Double Angle Collet	0.296 - 0.312	1.000	0.375
	DA10-0328	Double Angle Collet	0.312 - 0.328	1.000	0.375
	DA10-0343	Double Angle Collet	0.328 - 0.343	1.000	0.375
	DA10-0359	Double Angle Collet	0.343 - 0.359	1.000	0.375
	DA10-0375	Double Angle Collet	0.359 - 0.375	1.000	0.375
	DA10-0390	Double Angle Collet	0.375 - 0.390	1.000	0.375
	DA10-0406	Double Angle Collet	0.390 - 0.406	1.000	0.375
	DA10-0421	Double Angle Collet	0.406 - 0.421	1.000	0.375
	DA10-0437	Double Angle Collet	0.421 - 0.437	1.000	0.375
	DA10-0453	Double Angle Collet	0.437 - 0.453	1.000	0.375
	DA10-0468	Double Angle Collet	0.453 - 0.468	1.000	0.375
	DA10-0484	Double Angle Collet	0.468 - 0.484	1.000	0.375
	DA10-0500	Double Angle Collet	0.484 - 0.500	1.000	0.375
	DA10-0515	Double Angle Collet	0.500 - 0.515	1.000	0.375
	DA10-0531	Double Angle Collet	0.515 - 0.531	1.000	0.375
	DA10-0546	Double Angle Collet	0.531 - 0.546	1.000	0.375
	DA10-0562	Double Angle Collet	0.546 - 0.562	1.000	0.375
DA10-29ST	29 Piece Double Angle Collet Set	0.109 - 0.562	1.000	0.375	

Accessories // DA10 Double Angle Collets


DA18 Double Angle Collets

DA18	Part Number	Description	Size Range	L1	D1
	DA18-0250	Double Angle Collet	0.234 - 0.250	1.188	1.531
	DA18-0265	Double Angle Collet	0.250 - 0.265	1.188	1.531
	DA18-0281	Double Angle Collet	0.265 - 0.281	1.188	1.531
	DA18-0296	Double Angle Collet	0.281 - 0.296	1.188	1.531
	DA18-0312	Double Angle Collet	0.296 - 0.312	1.188	1.531
	DA18-0328	Double Angle Collet	0.312 - 0.328	1.188	1.531
	DA18-0343	Double Angle Collet	0.328 - 0.343	1.188	1.531
	DA18-0359	Double Angle Collet	0.343 - 0.359	1.188	1.531
	DA18-0375	Double Angle Collet	0.359 - 0.375	1.188	1.531
	DA18-0390	Double Angle Collet	0.375 - 0.390	1.188	1.531
	DA18-0406	Double Angle Collet	0.390 - 0.406	1.188	1.531
	DA18-0421	Double Angle Collet	0.406 - 0.421	1.188	1.531
	DA18-0437	Double Angle Collet	0.421 - 0.437	1.188	1.531
	DA18-0453	Double Angle Collet	0.437 - 0.453	1.188	1.531
	DA18-0468	Double Angle Collet	0.453 - 0.468	1.188	1.531
	DA18-0484	Double Angle Collet	0.468 - 0.484	1.188	1.531
	DA18-0500	Double Angle Collet	0.484 - 0.500	1.188	1.531
	DA18-0515	Double Angle Collet	0.500 - 0.515	1.188	1.531
	DA18-0531	Double Angle Collet	0.515 - 0.531	1.188	1.531
	DA18-0546	Double Angle Collet	0.531 - 0.546	1.188	1.531
	DA18-0562	Double Angle Collet	0.546 - 0.562	1.188	1.531
	DA18-0578	Double Angle Collet	0.562 - 0.578	1.188	1.531
	DA18-0593	Double Angle Collet	0.578 - 0.593	1.188	1.531
	DA18-0609	Double Angle Collet	0.593 - 0.609	1.188	1.531
	DA18-0625	Double Angle Collet	0.609 - 0.625	1.188	1.531
	DA18-0640	Double Angle Collet	0.625 - 0.640	1.188	1.531
	DA18-0656	Double Angle Collet	0.640 - 0.656	1.188	1.531
	DA18-0671	Double Angle Collet	0.656 - 0.671	1.188	1.531
	DA18-0687	Double Angle Collet	0.671 - 0.687	1.188	1.531
	DA18-0703	Double Angle Collet	0.687 - 0.703	1.188	1.531
	DA18-0718	Double Angle Collet	0.703 - 0.718	1.188	1.531
	DA18-0734	Double Angle Collet	0.718 - 0.734	1.188	1.531
	DA18-0750	Double Angle Collet	0.734 - 0.750	1.188	1.531
DA18-33ST	33 Piece Double Angle Collet Set		0.234 - 0.750	1.188	1.531

DA20 Double Angle Collets

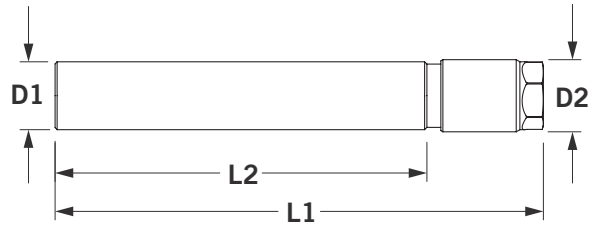
DA20	Part Number	Description	Size Range	L1	D1
	DA20-0062	Double Angle Collet	0.046 - 0.062	1.438	0.769
	DA20-0078	Double Angle Collet	0.062 - 0.078	1.438	0.769
	DA20-0093	Double Angle Collet	0.078 - 0.093	1.438	0.769
	DA20-0109	Double Angle Collet	0.093 - 0.109	1.438	0.769
	DA20-0125	Double Angle Collet	0.109 - 0.125	1.438	0.769
	DA20-0140	Double Angle Collet	0.125 - 0.140	1.438	0.769
	DA20-0156	Double Angle Collet	0.140 - 0.156	1.438	0.769
	DA20-0171	Double Angle Collet	0.156 - 0.171	1.438	0.769
	DA20-0187	Double Angle Collet	0.171 - 0.187	1.438	0.769
	DA20-0203	Double Angle Collet	0.187 - 0.203	1.438	0.769
	DA20-0218	Double Angle Collet	0.203 - 0.218	1.438	0.769
	DA20-0234	Double Angle Collet	0.218 - 0.234	1.438	0.769
	DA20-0250	Double Angle Collet	0.234 - 0.250	1.438	0.769
	DA20-0265	Double Angle Collet	0.250 - 0.265	1.438	0.769
	DA20-0281	Double Angle Collet	0.265 - 0.281	1.438	0.769
	DA20-0296	Double Angle Collet	0.281 - 0.296	1.438	0.769
	DA20-0312	Double Angle Collet	0.296 - 0.312	1.438	0.769
	DA20-0328	Double Angle Collet	0.312 - 0.328	1.438	0.769
	DA20-0343	Double Angle Collet	0.328 - 0.343	1.438	0.769
	DA20-0359	Double Angle Collet	0.343 - 0.359	1.438	0.769
	DA20-0375	Double Angle Collet	0.359 - 0.375	1.438	0.769
DA20-21ST	21 Piece Double Angle Collet Set	0.046 - 0.375	1.438	0.769	

DA30 Double Angle Collets

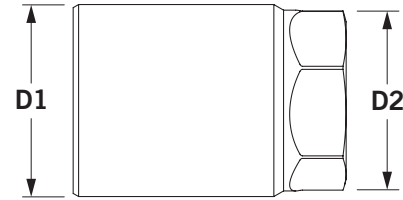
DA30	Part Number	Description	Size Range	L1	D1
	DA30-0046	Double Angle Collet	0.031 - 0.046	1.625	1.035
	DA30-0062	Double Angle Collet	0.046 - 0.062	1.625	1.035
	DA30-0078	Double Angle Collet	0.062 - 0.078	1.625	1.035
	DA30-0093	Double Angle Collet	0.078 - 0.093	1.625	1.035
	DA30-0109	Double Angle Collet	0.093 - 0.109	1.625	1.035
	DA30-0125	Double Angle Collet	0.109 - 0.125	1.625	1.035
	DA30-0140	Double Angle Collet	0.125 - 0.140	1.625	1.035
	DA30-0156	Double Angle Collet	0.140 - 0.156	1.625	1.035
	DA30-0171	Double Angle Collet	0.156 - 0.171	1.625	1.035
	DA30-0187	Double Angle Collet	0.171 - 0.187	1.625	1.035
	DA30-0203	Double Angle Collet	0.187 - 0.203	1.625	1.035
	DA30-0218	Double Angle Collet	0.203 - 0.218	1.625	1.035
	DA30-0234	Double Angle Collet	0.218 - 0.234	1.625	1.035
	DA30-0250	Double Angle Collet	0.234 - 0.250	1.625	1.035
	DA30-14ST	14 Piece Double Angle Collet Set	0.031 - 0.250	1.625	1.035

Double Angle Collet Extensions

- ▶ Command's Double Angle collet extensions offer four different types to fit all tooling needs. Each type offers a unique low profile nose diameter, making it easier to solve clearance problems.



Replacement Collet Nut



- + Double Angle extensions are coolant through.
- + Stop screw included.

- + **IMPORTANT:** Maximum recommended torque is 25 ft-lb. do not over-tighten collet nut assembly.

Double Angle Collet Extensions 18-30

Double Angle Collet Extensions	Part Number	Description	D1	D2	L1	L2
	DACE-0030	DA30 Double Angle Collet Extension	0.50	0.55	6.79	5.3
	DACE-0020	DA20 Double Angle Collet Extension	0.75	0.83	7.23	5.3
	DACE-0010	DA10 Double Angle Collet Extension	1.00	1.06	7.47	5.5
	DACE-0018	DA18 Double Angle Collet Extension	1.25	1.44	7.37	5.5



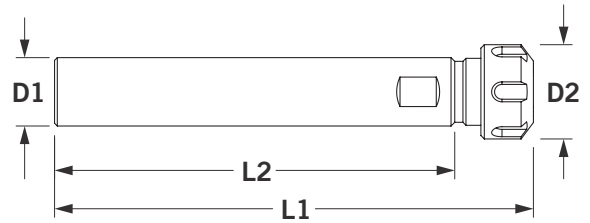
Replacement Collet Nut

Double Angle Collet Extensions	Part Number	Description	D1	D2
	DACN-0030	DA30 Double Angle Replacement Nose Piece	0.560	0.500
	DACN-0020	DA20 Double Angle Replacement Nose Piece	0.860	0.750
	DACN-0010	DA10 Double Angle Replacement Nose Piece	1.060	0.875
	DACN-0018	DA18 Double Angle Replacement Nose Piece	1.440	1.250

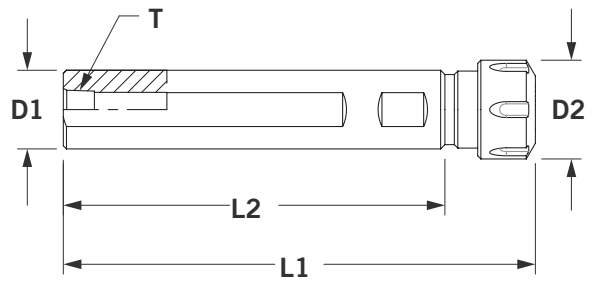


ER Collet Extensions


- ▶ Extend the reach of your current toolholders with collet extensions.




ER Collet Extensions Inch, Coolant Thru, NTP Thread, Shank Flat



ER Collet Extensions Inch Coolant Thru

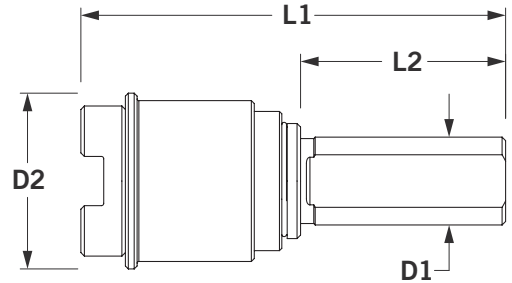
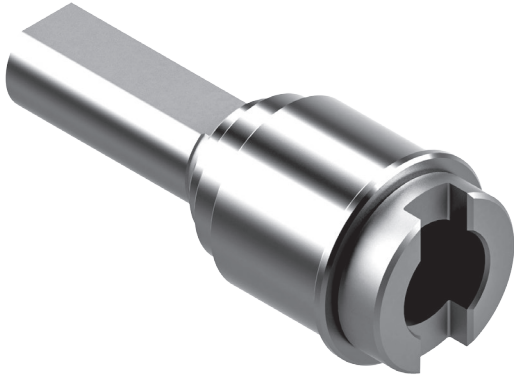
ER Collet Extensions	Part Number	Description	D1	D2	L1	L2
	ERCE-0011	ER11 Collet Chuck Extension	0.50	0.62	6.60	5.80
	ERCE-0016	ER16 Collet Chuck Extension	0.75	1.26	7.00	5.90
	ERCE-0020	ER20 Collet Chuck Extension	1.00	1.38	7.00	5.80
	ERCE-0025	ER25 Collet Chuck Extension	1.00	1.64	7.50	5.50
	ERCE-0032	ER32 Collet Chuck Extension	1.25	1.97	7.50	5.50
	ERCE-0040	ER40 Collet Chuck Extension	1.25	2.48	6.00	3.50

ER Collet Extensions Inch, Coolant Thru, NTP Thread, Shank Flat

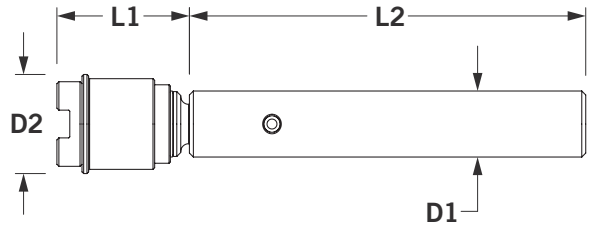
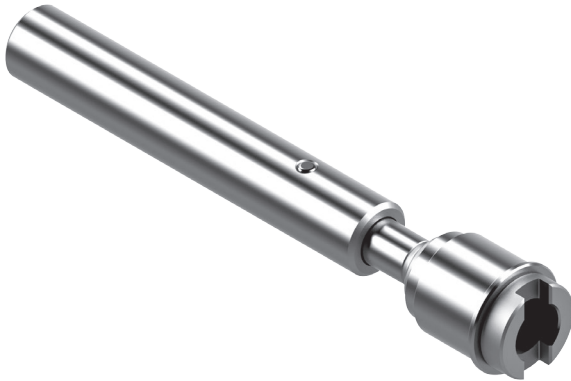
ER Collet Extensions	Part Number	Description	D1	D2	L1	L2	T
	ERCT-0011	ER11 Collet Chuck Extension	0.50	0.63	6.00	5.18	1/16 NPT
	ERCT-0016	ER16 Collet Chuck Extension	0.75	1.26	6.00	4.97	1/8 NPT
	ERCT-0020	ER20 Collet Chuck Extension	1.00	1.38	6.00	4.85	1/4 NPT
	ERCT-0025	ER25 Collet Chuck Extension	1.00	1.64	6.00	3.81	1/4 NPT
	ERCT-0032	ER32 Collet Chuck Extension	1.25	1.97	6.00	3.81	3/8 NPT
	ERCT-0040	ER40 Collet Chuck Extension	1.25	2.48	6.00	3.30	3/8 NPT

Tap Extensions

- ▶ Extend the reach of your current toolholders with collet extensions.



Tension and Compression Tap Extensions



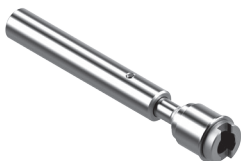
Rigid Tap Extensions

Rigid Tap Extensions	Part Number	Description	D1	D2	L1	L2
	XRTH-A100	Size 1 Rigid Tap Extension	0.75	1.50	3.92	1.72
	XRTH-A200	Size 2 Rigid Tap Extension	0.75	1.88	4.70	1.72



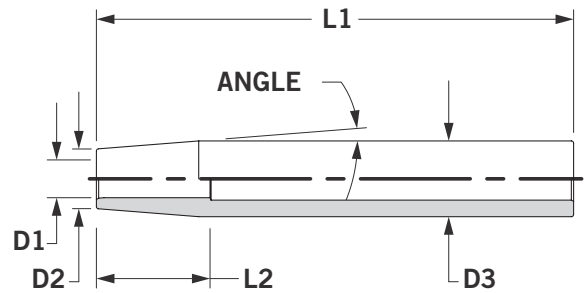
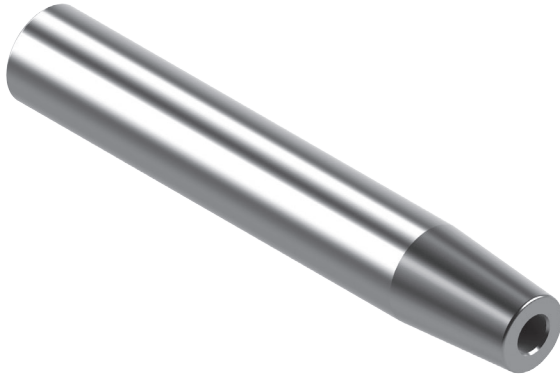
Tension and Compression Tap Extensions

Rigid Tap Extensions	Part Number	Description	D1	D2	L1	L2
	XSTH-0001	Size 1 Tension & Compression Tap Extension	1.00	1.50	2.50	6.00
	XSTH-0002	Size 2 Tension & Compression Tap Extension	1.25	1.88	3.25	6.00

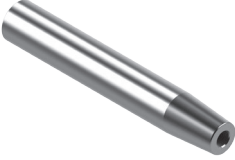


ThermoLock® Extensions

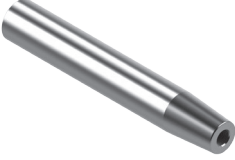
- ▶ ThermoLock® extensions are ideal for small diameter tools. Extensions expand toolholder cutter range and extend tools for difficult to reach areas.



ThermoLock® 4.5" Extensions Inch

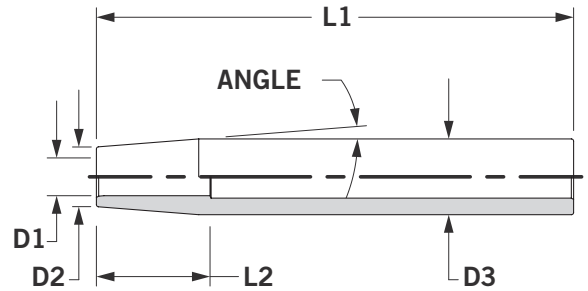
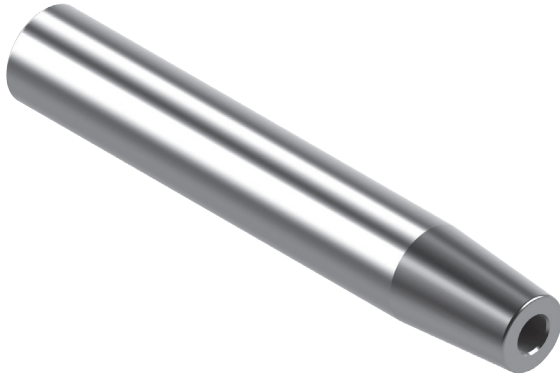
ThermoLock® Extensions	Part Number	D1	D2	D3	L1	L2	Angle
	SSL4-0802	0.125	0.31	0.50	6.3	1.18	4.5
	SSL4-0802	0.187	0.31	0.50	6.3	1.18	4.5
	SSL4-1002	0.125	0.39	0.63	6.3	1.47	4.5
	SSL4-1003	0.187	0.39	0.63	6.3	1.47	4.5
	SSL4-1004	0.250	0.39	0.63	6.3	1.47	4.5
	SSL4-1204	0.250	0.55	0.75	6.3	1.26	4.5
	SSL4-1206	0.375	0.55	0.08	6.3	1.26	4.5
	SSL4-1606	0.375	0.79	1.00	6.3	1.35	4.5
	SSL4-1608	0.500	0.79	1.00	6.3	1.35	4.5
	SSL4-1610	0.625	0.87	1.00	6.3	0.85	4.5
	SSL4-2006	0.375	0.94	1.25	6.3	1.94	4.5
	SSL4-2008	0.500	0.94	1.25	6.3	1.94	4.5
	SSL4-2010	0.625	1.06	1.25	6.3	1.19	4.5

ThermoLock® 4.5" Extensions Metric

ThermoLock® Extensions	Part Number	D1	D2	D3	L1	L2	Angle
	SSL4-1203M	3mm	8mm	12mm	160mm	25.4mm	4.5
	SSL4-1204M	4mm	8mm	12mm	160mm	25.4mm	4.5
	SSL4-1603M	3mm	10mm	16mm	160mm	38.1mm	4.5
	SSL4-1604M	4mm	10mm	16mm	160mm	38.1mm	4.5
	SSL4-1605M	5mm	10mm	16mm	160mm	38.1mm	4.5
	SSL4-1606M	6mm	10mm	16mm	160mm	38.1mm	4.5
	SSL4-2005M	5mm	14mm	20mm	160mm	38.1mm	4.5
	SSL4-2006M	6mm	14mm	20mm	160mm	38.1mm	4.5
	SSL4-2008M	8mm	14mm	20mm	160mm	38.1mm	4.5
	SSL4-2508M	8mm	19mm	25mm	160mm	38.1mm	4.5
	SSL4-2510M	10mm	20mm	25mm	160mm	31.8mm	4.5
	SSL4-2512M	12mm	20mm	25mm	160mm	31.8mm	4.5
	SSL4-2514M	14mm	20mm	25mm	160mm	31.8mm	4.5
	SSL4-2516M	16mm	22mm	25mm	160mm	19.1mm	4.5
	SSL4-3210M	10mm	27mm	32mm	160mm	31.8mm	4.5
	SSL4-3212M	12mm	27mm	32mm	160mm	31.8mm	4.5
	SSL4-3214M	14mm	27mm	32mm	160mm	31.8mm	4.5
	SSL4-3216M	16mm	27mm	32mm	160mm	31.8mm	4.5
SSL4-3220M	20mm	27mm	32mm	160mm	31.8mm	4.5	

ThermoLock® Extensions

- ▶ ThermoLock® extensions are ideal for small diameter tools. Extensions expand toolholder cutter range and extend tools for difficult to reach areas.



ThermoLock® 3" Slim Extensions Metric

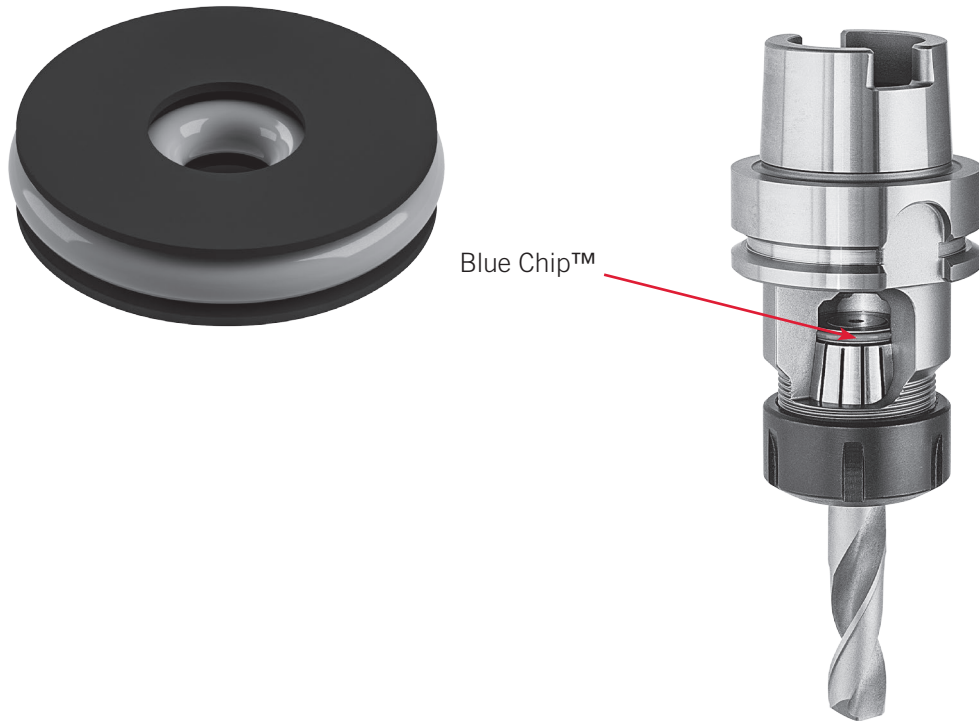
ThermoLock® Extensions	Part Number	D1	D2	D3	L1	L2	Angle
	SSL4-1604M-30	4mm	10mm	16mm	160mm	57.2mm	3
	SSL4-1605M-30	5mm	11mm	16mm	160mm	47.7mm	3
	SSL4-1606M-30	6mm	12mm	16mm	160mm	38.2mm	3
	SSL4-1608M-30	8mm	14mm	16mm	160mm	19.1mm	3
	SSL4-1610M-30	10mm	16mm	16mm	160mm	-	3
	SSL5-2006M-30	6mm	12mm	20mm	200mm	76.3mm	3
	SSL5-2008M-30	8mm	14mm	20mm	200mm	57.2mm	3
	SSL5-2010M-30	10mm	16mm	20mm	200mm	38.2mm	3
	SSL5-2012M-30	12mm	18mm	20mm	200mm	19.1mm	3

ThermoLock® 3" Extra Slim Extensions Metric

ThermoLock® Extensions	Part Number	D1	D2	D3	L1	L2	Angle
	SSL4-1603M-30X	3mm	6mm	16mm	160mm	95.4mm	3
	SSL4-1604M-30X	4mm	7mm	16mm	160mm	85.9mm	3
	SSL4-1605M-30X	5mm	8mm	16mm	160mm	76.3mm	3
	SSL4-1606M-30X	6mm	9mm	16mm	160mm	66.8mm	3
	SSL4-1608M-30X	8mm	11mm	16mm	160mm	47.7mm	3
	SSL4-1610M-30X	10mm	13mm	16mm	160mm	28.6mm	3
	SSL5-2006M-30X	6mm	9mm	20mm	200mm	104.9mm	3
	SSL5-2008M-30X	8mm	11mm	20mm	200mm	85.9mm	3
	SSL5-2010M-30X	10mm	13mm	20mm	200mm	66.8mm	3
	SSL5-2012M-30X	12mm	15mm	20mm	200mm	47.7mm	3

Blue Chip™

- ▶ The Blue Chip™ coolant containment system is available for Micro Precision® ER, Complex® TG Collets and the XT Precision® collet system. Blue Chip™ does not affect collet collapse range, and the sealing disk will contain coolant to 800 PSI for coolant through tools.



- + Blue Chip™ Coolant Containment System consists of one disk with an inner and outer seal. The disk assembly works in most Command Micro Precision® standard size collet chucks.
- + Blue Chip™ contains and directs coolant to 800 PSI. Run tools at optimum speeds with maximum coolant flow and pressure.
- + No loss of toolholder rigidity—collet stays flush with collet nut. Gage length won't be increased using this system.
- + Blue Chip™ uses standard collet chuck, collet nut and collets.
- + Interchangeable and reusable disks allow you to match up the correct size Blue Chip™ disks with any Command collet chuck assembly as applications change. System uses standard seals for easy replacement.
- + Seals coolant tools from 0.12" (3mm) through 1.02" (26mm). Seals will compress to hold a 0.020" (5mm) size range on the cutting tool shank. Each disk holds from its design size to minus 0.020".

ER16 Blue Chip™

Blue Chip	Part Number	Description	Size Range (mm)	Reference Size Range (IN)	Usable in XT Prec. & Shorty Collets
	XD16-0350	ER16 Blue Chip™	3.0 - 3.5	0.0118 - 0.138	No
	XD16-0400	ER16 Blue Chip™	3.5 - 4.0	0.138 - 0.157	No
	XD16-0450	ER16 Blue Chip™	4.0 - 4.5	0.157 - 0.177	No
	XD16-0500	ER16 Blue Chip™	4.5 - 5.0	0.177 - 0.197	No
	XD16-0550	ER16 Blue Chip™	5.0 - 5.5	0.197 - 0.217	No
	XD16-0600	ER16 Blue Chip™	5.5 - 6.0	0.217 - 0.236	No
	XD16-0650	ER16 Blue Chip™	6.0 - 6.5	0.236 - 0.256	No
	XD16-0700	ER16 Blue Chip™	6.5 - 7.0	0.256 - 0.276	No
	XD16-0750	ER16 Blue Chip™	7.0 - 7.5	0.276 - 0.295	No
	XD16-0800	ER16 Blue Chip™	7.5 - 8.0	0.295 - 0.315	No

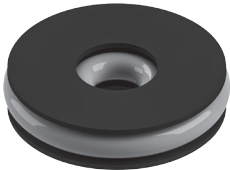
ER20 Blue Chip™

Blue Chip	Part Number	Description	Size Range (mm)	Reference Size Range (IN)	Usable in XT Prec. & Shorty Collets
	XD20-0350	ER20 Blue Chip™	3.0 - 3.5	0.0118 - 0.138	Yes
	XD20-0400	ER20 Blue Chip™	3.5 - 4.0	0.138 - 0.157	Yes
	XD20-0450	ER20 Blue Chip™	4.0 - 4.5	0.157 - 0.177	Yes
	XD20-0500	ER20 Blue Chip™	4.5 - 5.0	0.177 - 0.197	Yes
	XD20-0550	ER20 Blue Chip™	5.0 - 5.5	0.197 - 0.217	Yes
	XD20-0600	ER20 Blue Chip™	5.5 - 6.0	0.217 - 0.236	Yes
	XD20-0650	ER20 Blue Chip™	6.0 - 6.5	0.236 - 0.256	Yes
	XD20-0700	ER20 Blue Chip™	6.5 - 7.0	0.256 - 0.276	Yes
	XD20-0750	ER20 Blue Chip™	7.0 - 7.5	0.276 - 0.295	Yes
	XD20-0800	ER20 Blue Chip™	7.5 - 8.0	0.295 - 0.315	Yes
	XD20-0850	ER20 Blue Chip™	8.0 - 8.5	0.315 - 0.335	No
	XD20-0900	ER20 Blue Chip™	8.5 - 9.0	0.335 - 0.354	No
	XD20-0950	ER20 Blue Chip™	9.0 - 9.5	0.354 - 0.375	No
	XD20-1000	ER20 Blue Chip™	9.5 - 10.0	0.375 - 0.394	No

ER25 Blue Chip™

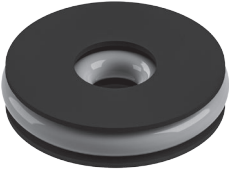
Blue Chip	Part Number	Description	Size Range (mm)	Reference Size Range (IN)	Usable in XT Prec. & Shorty Collets
	XD25-0350	ER25 Blue Chip™	3.0 - 3.5	0.0118 - 0.138	Yes
	XD25-0400	ER25 Blue Chip™	3.5 - 4.0	0.138 - 0.157	Yes
	XD25-0450	ER25 Blue Chip™	4.0 - 4.5	0.157 - 0.177	Yes
	XD25-0500	ER25 Blue Chip™	4.5 - 5.0	0.177 - 0.197	Yes
	XD25-0550	ER25 Blue Chip™	5.0 - 5.5	0.197 - 0.217	Yes
	XD25-0600	ER25 Blue Chip™	5.5 - 6.0	0.217 - 0.236	Yes
	XD25-0650	ER25 Blue Chip™	6.0 - 6.5	0.236 - 0.256	Yes
	XD25-0700	ER25 Blue Chip™	6.5 - 7.0	0.256 - 0.276	Yes
	XD25-0750	ER25 Blue Chip™	7.0 - 7.5	0.276 - 0.295	Yes
	XD25-0800	ER25 Blue Chip™	7.5 - 8.0	0.295 - 0.315	Yes
	XD25-0850	ER25 Blue Chip™	8.0 - 8.5	0.315 - 0.335	Yes
	XD25-0900	ER25 Blue Chip™	8.5 - 9.0	0.335 - 0.354	Yes
	XD25-0950	ER25 Blue Chip™	9.0 - 9.5	0.354 - 0.375	Yes
	XD25-1000	ER25 Blue Chip™	9.5 - 10.0	0.375 - 0.394	Yes
	XD25-1050	ER25 Blue Chip™	10.0 - 10.5	0.394 - 0.413	Yes
	XD25-1100	ER25 Blue Chip™	10.5 - 11.0	0.413 - 0.433	Yes
	XD25-1150	ER25 Blue Chip™	11.0 - 11.5	0.433 - 0.453	Yes
	XD25-1200	ER25 Blue Chip™	11.5 - 12.0	0.453 - 0.472	Yes
	XD25-1250	ER25 Blue Chip™	12.0 - 12.5	0.472 - 0.492	No
	XD25-1300	ER25 Blue Chip™	12.5 - 13.0	0.492 - 0.512	No
XD25-1350	ER25 Blue Chip™	13.0 - 13.5	0.512 - 0.531	No	
XD25-1400	ER25 Blue Chip™	13.5 - 14.0	0.531 - 0.551	No	
XD25-1450	ER25 Blue Chip™	14.0 - 14.5	0.551 - 0.571	No	

ER32 Blue Chip™

Blue Chip	Part Number	Description	Size Range (mm)	Reference Size Range (IN)	Usable in XT Prec. & Shorty Collets
	XD32-0350	ER32 Blue Chip™	3.0 - 3.5	0.0118 - 0.138	Yes
	XD32-0400	ER32 Blue Chip™	3.5 - 4.0	0.138 - 0.157	Yes
	XD32-0450	ER32 Blue Chip™	4.0 - 4.5	0.157 - 0.177	Yes
	XD32-0500	ER32 Blue Chip™	4.5 - 5.0	0.177 - 0.197	Yes
	XD32-0550	ER32 Blue Chip™	5.0 - 5.5	0.197 - 0.217	Yes
	XD32-0600	ER32 Blue Chip™	5.5 - 6.0	0.217 - 0.236	Yes
	XD32-0650	ER32 Blue Chip™	6.0 - 6.5	0.236 - 0.256	Yes
	XD32-0700	ER32 Blue Chip™	6.5 - 7.0	0.256 - 0.276	Yes
	XD32-0750	ER32 Blue Chip™	7.0 - 7.5	0.276 - 0.295	Yes
	XD32-0800	ER32 Blue Chip™	7.5 - 8.0	0.295 - 0.315	Yes
	XD32-0850	ER32 Blue Chip™	8.0 - 8.5	0.315 - 0.335	Yes
	XD32-0900	ER32 Blue Chip™	8.5 - 9.0	0.335 - 0.354	Yes
	XD32-0950	ER32 Blue Chip™	9.0 - 9.5	0.354 - 0.375	Yes
	XD32-1000	ER32 Blue Chip™	9.5 - 10.0	0.375 - 0.394	Yes
	XD32-1050	ER32 Blue Chip™	10.0 - 10.5	0.394 - 0.413	Yes
	XD32-1100	ER32 Blue Chip™	10.5 - 11.0	0.413 - 0.433	Yes
	XD32-1150	ER32 Blue Chip™	11.0 - 11.5	0.433 - 0.453	Yes
	XD32-1200	ER32 Blue Chip™	11.5 - 12.0	0.453 - 0.472	Yes
	XD32-1250	ER32 Blue Chip™	12.0 - 12.5	0.472 - 0.492	Yes
	XD32-1300	ER32 Blue Chip™	12.5 - 13.0	0.492 - 0.512	Yes
XD32-1350	ER32 Blue Chip™	13.0 - 13.5	0.512 - 0.531	Yes	
XD32-1400	ER32 Blue Chip™	13.5 - 14.0	0.531 - 0.551	Yes	
XD32-1450	ER32 Blue Chip™	14.0 - 14.5	0.551 - 0.571	Yes	
XD32-1500	ER32 Blue Chip™	14.5 - 15.0	0.571 - 0.591	Yes	
XD32-1550	ER32 Blue Chip™	15.0 - 15.5	0.591 - 0.610	Yes	
XD32-1600	ER32 Blue Chip™	15.5 - 16.0	0.610 - 0.630	Yes	
XD32-1650	ER32 Blue Chip™	16.0 - 16.5	0.630 - 0.650	Yes	
XD32-1700	ER32 Blue Chip™	16.5 - 17.0	0.650 - 0.669	Yes	
XD32-1750	ER32 Blue Chip™	17.0 - 17.5	0.669 - 0.689	No	
XD32-1800	ER32 Blue Chip™	17.5 - 18.0	0.689 - 0.709	No	
XD32-1850	ER32 Blue Chip™	18.0 - 18.5	0.709 - 0.728	No	
XD32-1900	ER32 Blue Chip™	18.5 - 19.0	0.728 - 0.748	No	
XD32-1950	ER32 Blue Chip™	19.0 - 19.5	0.748 - 0.768	No	
XD32-2000	ER32 Blue Chip™	19.5 - 20.0	0.768 - 0.787	No	

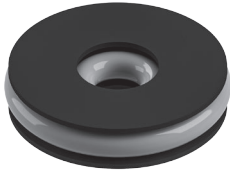
Accessories // ER32 Blue Chip™

ER40 Blue Chip™

Blue Chip	Part Number	Description	Size Range (mm)	Reference Size Range (IN)	Usable in XT Prec. & Shorty Collets
	XD40-0350	ER40 Blue Chip™	3.0 - 3.5	.0118 - 0.138	Yes
	XD40-0400	ER40 Blue Chip™	3.5 - 4.0	0.138 - 0.157	Yes
	XD40-0450	ER40 Blue Chip™	4.0 - 4.5	0.157 - 0.177	Yes
	XD40-0500	ER40 Blue Chip™	4.5 - 5.0	0.177 - 0.197	Yes
	XD40-0550	ER40 Blue Chip™	5.0 - 5.5	0.197 - 0.217	Yes
	XD40-0600	ER40 Blue Chip™	5.5 - 6.0	0.217 - 0.236	Yes
	XD40-0650	ER40 Blue Chip™	6.0 - 6.5	0.236 - 0.256	Yes
	XD40-0700	ER40 Blue Chip™	6.5 - 7.0	0.256 - 0.276	Yes
	XD40-0750	ER40 Blue Chip™	7.0 - 7.5	0.276 - 0.295	Yes
	XD40-0800	ER40 Blue Chip™	7.5 - 8.0	0.295 - 0.315	Yes
	XD40-0850	ER40 Blue Chip™	8.0 - 8.5	0.315 - 0.335	Yes
	XD40-0900	ER40 Blue Chip™	8.5 - 9.0	0.335 - 0.354	Yes
	XD40-0950	ER40 Blue Chip™	9.0 - 9.5	0.354 - 0.375	Yes
	XD40-1000	ER40 Blue Chip™	9.5 - 10.0	0.375 - 0.394	Yes
	XD40-1050	ER40 Blue Chip™	10.0 - 10.5	0.394 - 0.413	Yes
	XD40-1100	ER40 Blue Chip™	10.5 - 11.0	0.413 - 0.433	Yes
	XD40-1150	ER40 Blue Chip™	11.0 - 11.5	0.433 - 0.453	Yes
	XD40-1200	ER40 Blue Chip™	11.5 - 12.0	0.453 - 0.472	Yes
	XD40-1250	ER40 Blue Chip™	12.0 - 12.5	0.472 - 0.492	Yes
	XD40-1300	ER40 Blue Chip™	12.5 - 13.0	0.492 - 0.512	Yes
	XD40-1350	ER40 Blue Chip™	13.0 - 13.5	0.512 - 0.531	Yes
	XD40-1400	ER40 Blue Chip™	13.5 - 14.0	0.531 - 0.551	Yes
	XD40-1450	ER40 Blue Chip™	14.0 - 14.5	0.551 - 0.571	Yes
	XD40-1500	ER40 Blue Chip™	14.5 - 15.0	0.571 - 0.591	Yes
	XD40-1550	ER40 Blue Chip™	15.0 - 15.5	0.591 - 0.610	Yes
	XD40-1600	ER40 Blue Chip™	15.5 - 16.0	0.610 - 0.630	Yes
	XD40-1650	ER40 Blue Chip™	16.0 - 16.5	0.630 - 0.650	Yes
	XD40-1700	ER40 Blue Chip™	16.5 - 17.0	0.650 - 0.669	Yes
	XD40-1750	ER40 Blue Chip™	17.0 - 17.5	0.669 - 0.689	Yes
	XD40-1800	ER40 Blue Chip™	17.5 - 18.0	0.689 - 0.709	Yes
	XD40-1850	ER40 Blue Chip™	18.0 - 18.5	0.709 - 0.728	Yes
	XD40-1900	ER40 Blue Chip™	18.5 - 19.0	0.728 - 0.748	Yes
	XD40-1950	ER40 Blue Chip™	19.0 - 19.5	0.748 - 0.768	Yes
	XD40-2000	ER40 Blue Chip™	19.5 - 20.0	0.768 - 0.787	Yes
	XD40-2050	ER40 Blue Chip™	20.0 - 20.5	0.787 - 0.807	Yes
	XD40-2100	ER40 Blue Chip™	20.5 - 21.0	0.807 - 0.827	Yes
	XD40-2150	ER40 Blue Chip™	21.0 - 21.5	0.827 - 0.846	Yes
	XD40-2200	ER40 Blue Chip™	21.5 - 22.0	0.846 - 0.866	Yes
	XD40-2250	ER40 Blue Chip™	22.0 - 22.5	0.866 - 0.886	Yes
	XD40-2300	ER40 Blue Chip™	22.5 - 23.0	0.886 - 0.906	Yes
	XD40-2350	ER40 Blue Chip™	23.0 - 23.5	0.906 - 0.925	Yes
	XD40-2400	ER40 Blue Chip™	23.5 - 24.0	0.925 - 0.945	Yes
	XD40-2450	ER40 Blue Chip™	24.0 - 24.5	0.945 - 0.965	No
	XD40-2500	ER40 Blue Chip™	24.5 - 25.0	0.965 - 0.984	No
	XD40-2550	ER40 Blue Chip™	25.0 - 25.5	0.984 - 1.004	No
	XD40-2600	ER40 Blue Chip™	25.5 - 26.0	1.004 - 1.024	No

Accessories // ER40 Blue Chip™

TG100 Blue Chip™

Blue Chip	Part Number	Description	Size Range (IN)
	XD10-0250	TG100 Blue Chip™	0.234 - 0.250
	XD10-0312	TG100 Blue Chip™	0.297 - 0.312
	XD10-0359	TG100 Blue Chip™	0.344 - 0.359
	XD10-0375	TG100 Blue Chip™	0.359 - 0.375
	XD10-0390	TG100 Blue Chip™	0.375 - 0.390
	XD10-0406	TG100 Blue Chip™	0.391 - 0.406
	XD10-0421	TG100 Blue Chip™	0.406 - 0.421
	XD10-0437	TG100 Blue Chip™	0.422 - 0.437
	XD10-0453	TG100 Blue Chip™	0.438 - 0.453
	XD10-0468	TG100 Blue Chip™	0.453 - 0.468
	XD10-0484	TG100 Blue Chip™	0.469 - 0.484
	XD10-0500	TG100 Blue Chip™	0.484 - 0.500
	XD10-0515	TG100 Blue Chip™	0.500 - 0.515
	XD10-0531	TG100 Blue Chip™	0.516 - 0.531
	XD10-0546	TG100 Blue Chip™	0.531 - 0.546
	XD10-0562	TG100 Blue Chip™	0.547 - 0.562
	XD10-0578	TG100 Blue Chip™	0.563 - 0.578
	XD10-0593	TG100 Blue Chip™	0.578 - 0.593
	XD10-0609	TG100 Blue Chip™	0.594 - 0.609
	XD10-0625	TG100 Blue Chip™	0.609 - 0.625
	XD10-0640	TG100 Blue Chip™	0.625 - 0.640
	XD10-0656	TG100 Blue Chip™	0.641 - 0.656
	XD10-0671	TG100 Blue Chip™	0.656 - 0.671
	XD10-0687	TG100 Blue Chip™	0.672 - 0.687
	XD10-0703	TG100 Blue Chip™	0.688 - 0.703
	XD10-0718	TG100 Blue Chip™	0.703 - 0.718
	XD10-0734	TG100 Blue Chip™	0.719 - 0.734
	XD10-0750	TG100 Blue Chip™	0.734 - 0.750
	XD10-0765	TG100 Blue Chip™	0.750 - 0.765
	XD10-0781	TG100 Blue Chip™	0.766 - 0.781
	XD10-0796	TG100 Blue Chip™	0.781 - 0.796
	XD10-0812	TG100 Blue Chip™	0.797 - 0.812
	XD10-0828	TG100 Blue Chip™	0.813 - 0.828
	XD10-0843	TG100 Blue Chip™	0.828 - 0.843
	XD10-0859	TG100 Blue Chip™	0.844 - 0.859
	XD10-0875	TG100 Blue Chip™	0.859 - 0.875
	XD10-0890	TG100 Blue Chip™	0.875 - 0.890
	XD10-0906	TG100 Blue Chip™	0.891 - 0.906
	XD10-0921	TG100 Blue Chip™	0.906 - 0.921
	XD10-0937	TG100 Blue Chip™	0.922 - 0.937
	XD10-0953	TG100 Blue Chip™	0.938 - 0.953
	XD10-0968	TG100 Blue Chip™	0.953 - 0.968
	XD10-0984	TG100 Blue Chip™	0.969 - 0.984
	XD10-1000	TG100 Blue Chip™	0.984 - 1.000

Accessories Collet Nuts & Wrenches

- ▶ Optional collet nuts easily replace the standard collet nut that comes with Command Collet Chucks. For a complete listing of collet nut options and additional product details, contact Command's Customer Service Department.



► Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

WWW.COMMANDTOOL.COM

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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.

Torque Wrench Formula

- ▶ Over tightening collet nuts may result in damage to the collet, tool body or collet nut. For more information on recommended torque, contact customer service.

Torque Wrench Extension Effect Formula

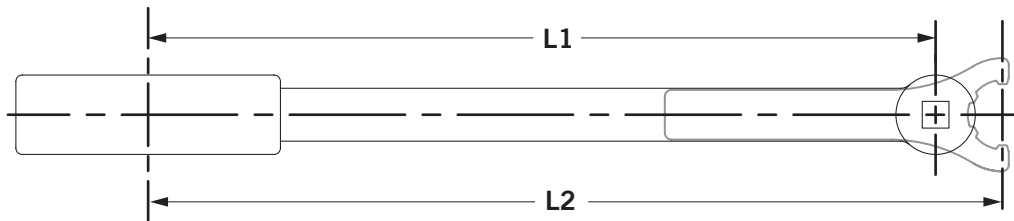
$$M2 = M1 \times L2/L1$$

L1 is the center line of the toolholder.

L2 is the centerline of the square hole.

M1 is the maximum recommended torque.

M2 is the actual torque applied to the collet nut.



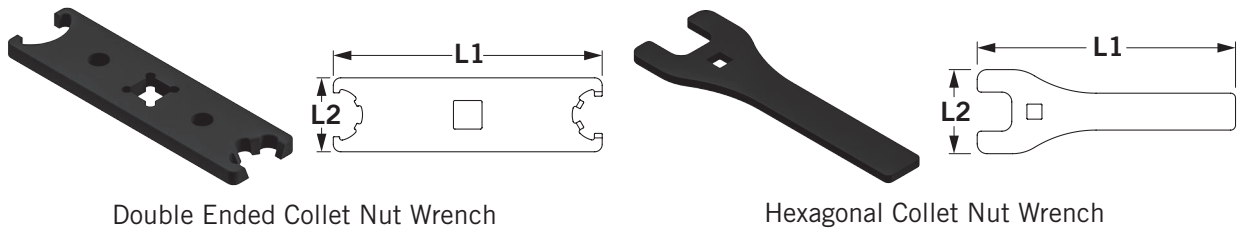
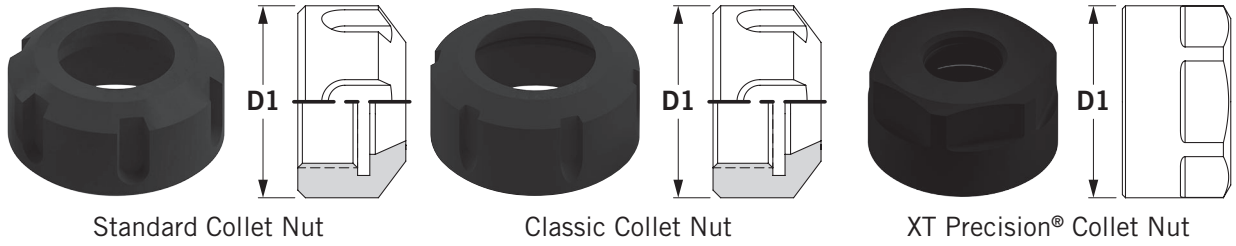
- + Over tightening of collet nuts commonly causes distortion of the collet chuck pocket and uneven compression of collets. This can result in excessive run-out in the tool assembly.
- + Gross over tightening can result in damage to the collet, tool body or collet nut.
- + Collet nut wrenches come with a drive square to adapt to torque wrench.
- + A torque wrench is required to accurately measure these values. See page 432 for Torque wrenches.
- + Classic Collet Nuts are available in smaller diameter for most sizes, and have a replaceable clip for most sizes.
- + Ball Bearing Collet Nuts improve tool concentricity and increase holding power.
- + Fine Balance Collet Nuts are for use without a balancing machine.
- + Fine Tune™ Collet Nuts have 8 small set screws that can be removed or replaced to obtain correction (requires a balancing machine).

Collet Nut Torque Values


Wrenches For Collet Nuts					Corresponding Torque Wrench Data				
Collet Nut Wrench Part Number	Size	Collet Nut Style	Drive Square (IN)	Collet Nut Thread Size	Torque Wrench Part Number	Drive Square (IN)	Range (ft.-lb.)	Recommended with Command Torque Wrench (ft.-lb.)	(Theoretical) Maximum Recommended Torque (ft.-lb)
XCCW-D011	ER11	Standard	3/8	M13-.75	XTQW-0045	3/8	5-45	7	8
XCCW-D016	ER16	Standard	3/8	M22-1.5	XTQW-0045	3/8	5-45	35	40
					XTQW-0080	3/8	15-80	21	24
					XTQW-0150	1/2	30-150	36	40
XCCW-FT16	ER16	Fine Balance & Fine Tune™	3/8	M22-1.5	XTQW-0045	3/8	5-45	33	40
					XTQW-0080	3/8	15-80	34	40
					XTQW-0150	1/2	30-150	35	40
XCCW-H016	ER16	Hex	3/8	M22-1.5	XTQW-0045	3/8	5-45	34	40
					XTQW-0080	3/8	15-80	35	40
					XTQW-0150	1/2	30-150	36	40
XCCW-D020	ER20	Standard & Ball Bearing	3/8	M25-1.5	XTQW-0080	3/8	15-80	Standard - 32 Ball Bearing - 53	Standard - 36 Ball Bearing - 60
					XTQW-0150	1/2	30-150	55	60
XCCW-FT20	ER20	Fine Balance & Fine Tune™	3/8	M25-1.5	XTQW-0080	3/8	15-80	50	60
					XTQW-0150	1/2	30-150	52	60
XCCW-H020	ER20	Hex	3/8	M25-1.5	XTQW-0080	3/8	15-80	52	60
					XTQW-0150	1/2	30-150	54	60
XCCW-D025	ER25	Standard & Ball Bearing	3/8	M32-1.5	XTQW-0080	3/8	15-80	Standard - 38 Ball Bearing - 60	Standard - 42 Ball Bearing - 70
					XTQW-0150	1/2	30-150	63	70
XCCW-FT25	ER25	Fine Balance & Fine Tune™	3/8	M32-1.5	XTQW-0080	3/8	15-80	56	70
					XTQW-0150	1/2	30-150	59	70
XCCW-D032	ER32	Standard & Ball Bearing	3/8	M40-1.5	XTQW-0080	3/8	15-80	Standard - 43 Ball Bearing - 67	Standard - 48 Ball Bearing - 80
					XTQW-0150	1/2	30-150	70	80
XCCW-FT32	ER32	Fine Balance & Fine Tune™	3/8	M40-1.5	XTQW-0080	3/8	15-80	61	80
					XTQW-0150	1/2	30-150	66	80
XCCW-P032INT	ER32	Shorty Standard	3/8	M40-1.5	XTQW-0080	3/8	15-80	43	48
					XTQW-0150	1/2	30-150	71	80
XCCW-0040	ER40	Standard	1/2	M50-1.5	XTQW-0150	1/2	30-150	65	72
XCCW-FT40	ER40	Fine Balance & Fine Tune™	1/2	M50-1.5	XTQW-0150	1/2	30-150	93	120
XCCW-T011	XT11	Standard	3/8	M13-.75	XTQW-0045	3/8	5-45	7	8
XCCW-D016	XT16	Standard & Fine Tune™	3/8	M22-1.5	XTQW-0045	3/8	5-45	35	40
					XTQW-0080	3/8	15-80	35	40
					XTQW-0150	1/2	30-150	36	40
XCCW-D020	XT20	Standard & Fine Tune™	3/8	M25-1.5	XTQW-0080	3/8	15-80	53	60
					XTQW-0150	1/2	30-150	55	60
XCCW-D025	XT25	Standard & Fine Tune™	3/8	M32-1.5	XTQW-0080	3/8	15-80	60	70
					XTQW-0150	1/2	30-150	63	70
XCCW-D032	XT32	Standard & Fine Tune™	3/8	M40-1.5	XTQW-0080	3/8	15-80	67	80
					XTQW-0150	1/2	30-150	70	80
XCCW-0040	XT40	Standard & Fine Tune™	1/2	M50-1.5	XTQW-0150	1.2	30-150	104	120
XCCW-H100	TG100	Hex	3/8	1 7/8-12 ACME	XTQW-0080	3/8	15-80	49	60
					XTQW-0150	1/2	30-150	52	60
XCCW-1500	TG150	Standard	-	2 5/8-12 ACME	-	-	-	-	100


Accessories // Collet Nuts & Wrenches

ER11 Collet Nuts & Collet Nut Wrenches

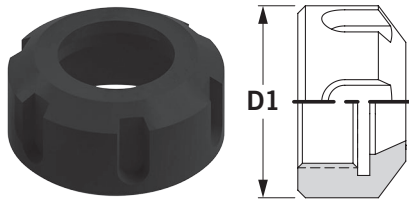


ER11 Collet Nuts & Collet Nut Wrenches

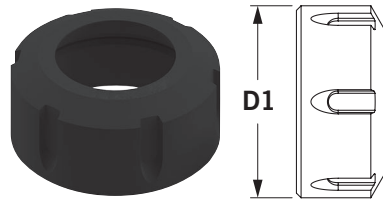
Collet Nuts	Part Number	Description	Thread	D1
	XGSN-0011	ER11 Standard Collet Nut	M13 X 0.75	0.630
	XCNA-0011	ER11 Classic Collet Nut	M13 X 0.75	0.630
	XCNA-T011	ER11 XT Precision® Collet Nut	M13 X 0.75	0.750

Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
	XCCW-D011	ER11 Double-Ended Wrench	XGSN-0011	XCNA-0011	-	3.60	0.99
	XCCW-T011	ER11 XT Precision Wrench	XCNA-T011	-	-	6.50	2.14

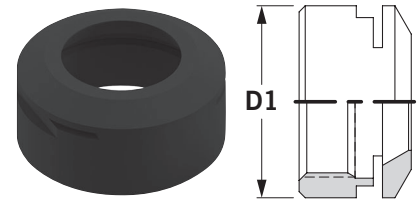
ER16 Collet Nuts & Collet Nut Wrenches



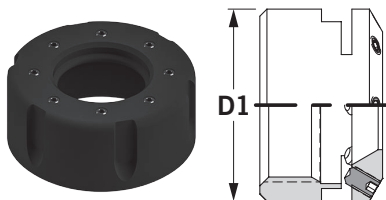
Standard Collet Nut



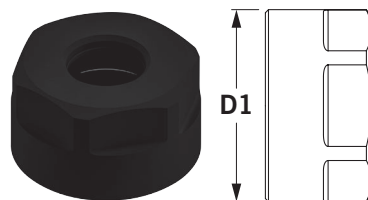
Classic Collet Nut



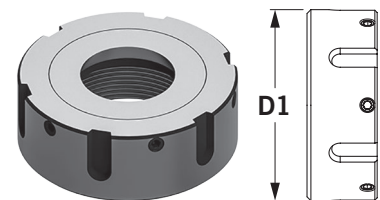
Fine Balance Collet Nut



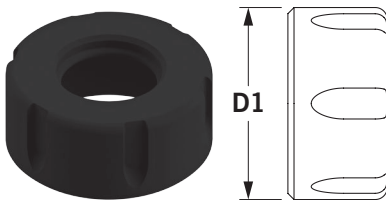
Fine Tune™ Collet Nut



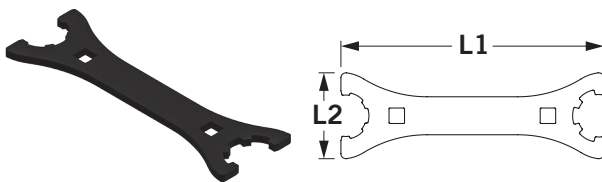
Hexagonal Collet Nut



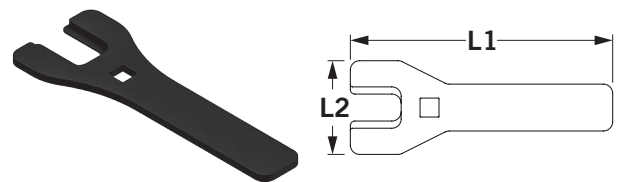
True Zero Collet Nut



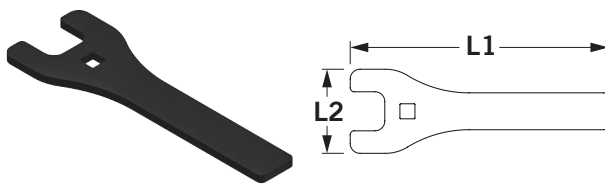
XT Precision® Collet Nut



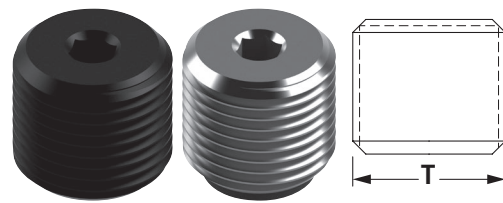
Double-Ended Collet Nut Wrench



Tuned Collet Nut Wrench



Hexagonal Collet Nut Wrench




(Standard)

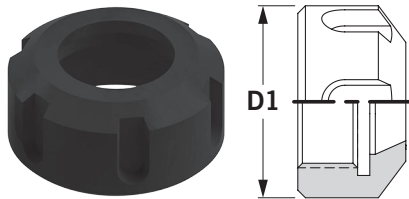
(Coolant Through)

Stop Screw

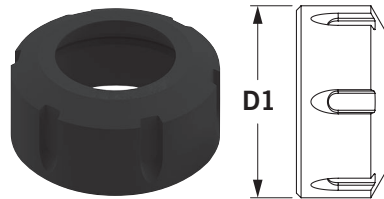
ER16 Collet Nuts & Collet Nut Wrenches

Collet Nuts		Part Number	Description	Thread	D1			
	XGSN-0016	ER16 Standard Collet Nut	M22 X 1.50	1.259				
	XCNA-0016	ER16 Classic Collet Nut	M22 X 1.50	1.085				
	XCNA-FB16	ER16 Fine Balance Collet Nut	M22 X 1.50	1.080				
	XCNA-FT16	ER16 Fine Tune™ Collet Nut	M22 X 1.50	1.080				
	XCNA-H016	ER16 Hexagonal Collet Nut	M22 X 1.50	1.110				
	XGZN-0016	ER16 True Zero Collet Nut	M22 X 1.50	1.339				
	XCNA-T016	ER16 XT Precision® Collet Nut	M22 X 1.50	1.080				
Collet Chuck Wrenches		Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
	XCCW-D016	ER16 Double-Ended Wrench	XGSN-0016	XCNA-0016	XCNA-T016	6.50	2.14	
	XCCW-FT16	ER16 Tuned Collet Nut Wrench	XCNA-FB16	XCNA-FT16	-	6.00	2.14	
	XCCW-H016	ER16 Hexagonal Collet Nut Wrench	XCNA-H016	-	-	6.58	2.14	
Collet Chuck Extension Stop Screws		Part Number	Description	Thread				
	XCCS-0720	Standard ER16 Stop Screw	7/16-20 LH					
	XCCS-0720-C	Coolant Thru ER16 Stop Screw	7/16-20 LH					

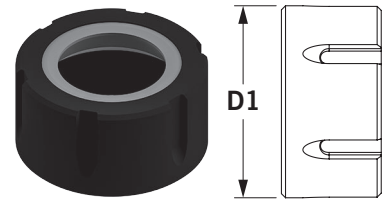
ER20 Collet Nuts & Collet Nut Wrenches



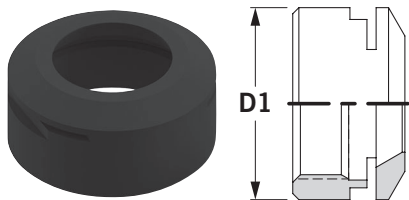
Standard Collet Nut



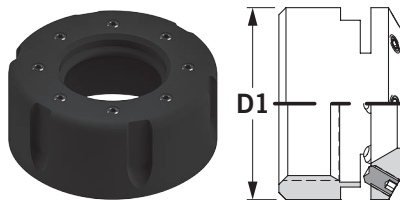
Classic Collet Nut



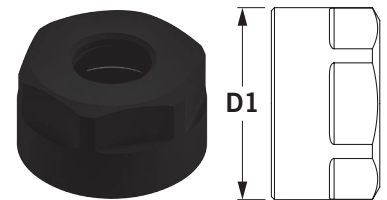
Ball Bearing Collet Nut



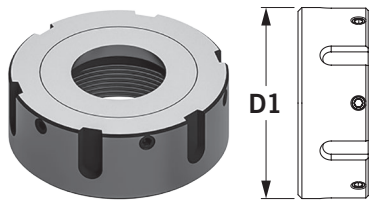
Fine Balance Collet Nut



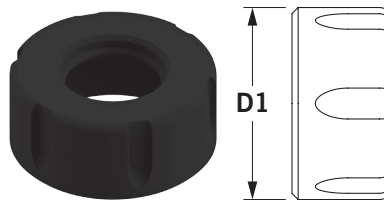
Fine Tune™ Collet Nut



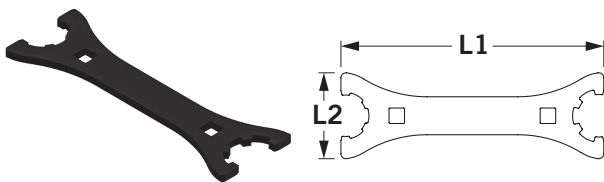
Hexagonal Collet Nut



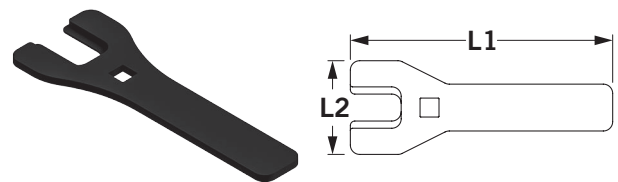
True Zero Collet Nut



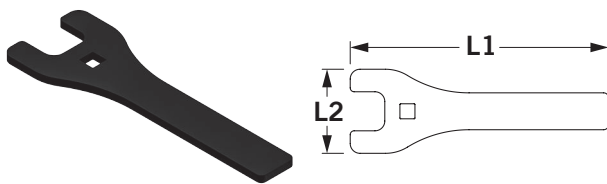
XT Precision® Collet Nut



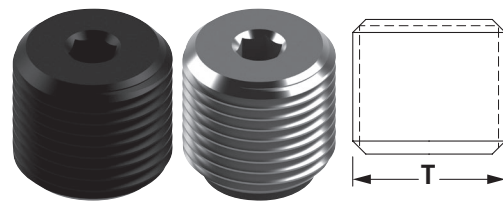
Double-Ended Collet Nut Wrench



Tuned Collet Nut Wrench



Hexagonal Collet Nut Wrench





(Standard)


(Coolant Through)

Stop Screw

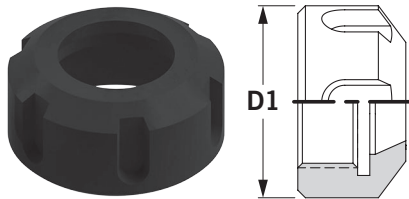
ER20 Collet Nuts & Collet Nut Wrenches

Collet Nuts	Part Number	Description	Thread	D1
	XGSN-0020	ER20 Standard Collet Nut	M25 X 1.50	1.380
	XCNA-0020	ER20 Classic Collet Nut	M25 X 1.50	1.260
	XCNA-BB20	ER20 Ball Bearing Collet Nut	M25 X 1.50	1.260
	XCNA-FB20	ER20 Fine Balance Collet Nut	M25 X 1.50	1.260
	XCNA-FT20	ER20 Fine Tune™ Collet Nut	M25 X 1.50	1.260
	XCNA-H020	ER20 Hexagonal Collet Nut	M25 X 1.50	1.350
	XGZN-0020	ER20 True Zero Collet Nut	M25 X 1.50	1.654
	XCNA-T020	ER20 XT Precision® Collet Nut	M25 X 1.50	1.260

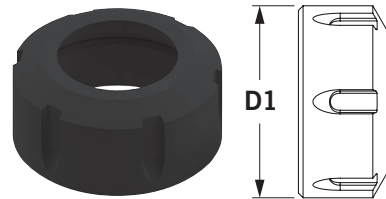
Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
	XCCW-D020	ER20 Double-Ended Wrench	XGSN-0020	XCNA-0020	XCNA-BB20	6.50	2.14
	XCCW-FT20	ER20 Tuned Collet Nut Wrench	XCNA-FB20	XCNA-FT20	-	7.00	2.50
	XCCW-H020	ER20 Hexagonal Wrench	XCNA-H020	-	-	6.75	2.14

Collet Chuck Extension Stop Screws	Part Number	Description	Thread
	XCCS-1415	Standard ER20 Stop Screw	M14 X 1.50 LH
	XCCS-1415-C	Coolant Thru ER20 Stop Screw	M14 X 1.50 LH

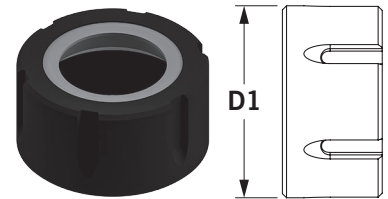
ER25 Collet Nuts & Collet Nut Wrenches



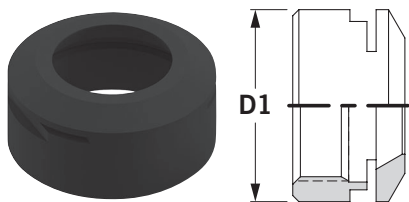
Standard Collet Nut



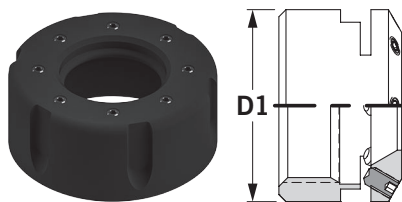
Classic Collet Nut



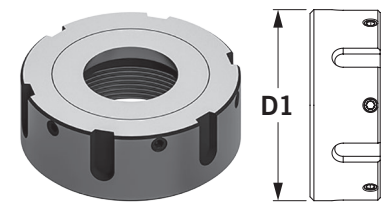
Ball Bearing Collet Nut



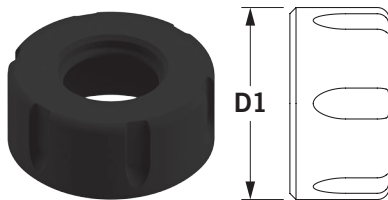
Fine Balance Collet Nut



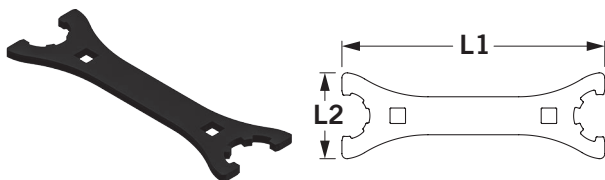
Fine Tune™ Collet Nut



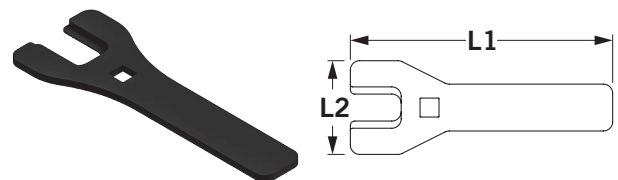
True Zero Collet Nut



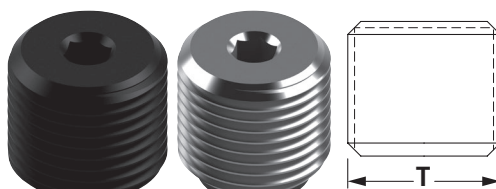
XT Precision® Collet Nut



Double-Ended Collet Nut Wrench



Tuned Collet Nut Wrench

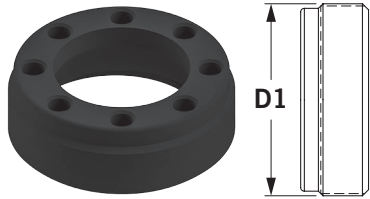


(Standard) (Coolant Through)
Stop Screw

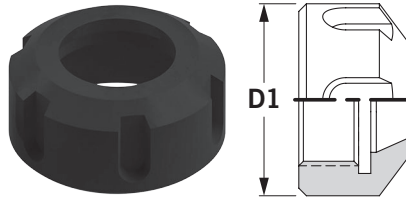
ER25 Collet Nuts & Collet Nut Wrenches

Collet Nuts		Part Number	Description	Thread	D1			
		XGSN-0025	ER25 Standard Collet Nut	M32 X 1.50	1.640			
		XCNA-0025	ER25 Classic Collet Nut	M32 X 1.50	1.650			
		XCNA-BB25	ER25 Ball Bearing Collet Nut	M32 X 1.50	1.650			
		XCNA-FB25	ER25 Fine Balance Collet Nut	M32 X 1.50	1.650			
		XCNA-FT25	ER25 Fine Tune™ Collet Nut	M32 X 1.50	1.650			
		XGZN-0025	ER25 True Zero Collet Nut	M32 X 1.50	1.949			
		XCNA-T025	ER25 XT Precision® Collet Nut	M32 X 1.50	1.650			
Collet Chuck Wrenches		Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
		XCCW-D025	ER25 Double-Ended Wrench	XGSN-0025	XCNA-0025	XCNA-BB25	8.34	2.82
		XCCW-FT25	ER25 Tuned Collet Nut Wrench	XCNA-FB25	XCNA-FT25	-	8.00	2.90
Collet Chuck Extension Stop Screws		Part Number	Description	Thread				
		XCCS-1815	Standard ER25 Stop Screw	M18 X 1.50 LH				
		XCCS-1815-C	Coolant Thru ER25 Stop Screw	M18 X 1.50 LH				

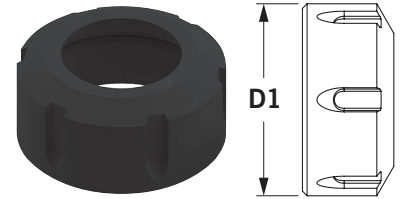
ER32 Collet Nuts & Collet Nut Wrenches



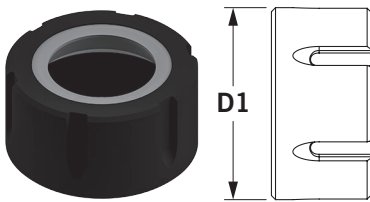
Shorty Collet Nut



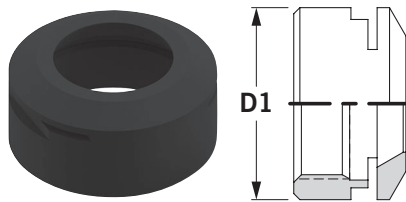
Standard Collet Nut



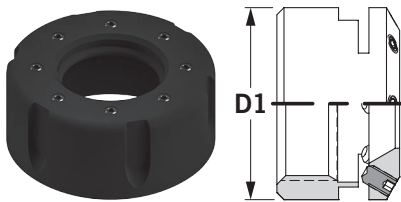
Classic Collet Nut



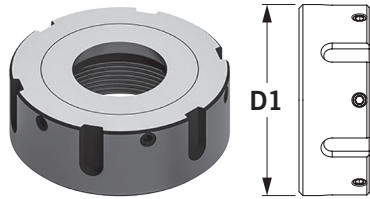
Ball Bearing Collet Nut



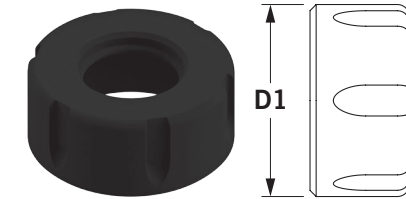
Fine Balance Collet Nut



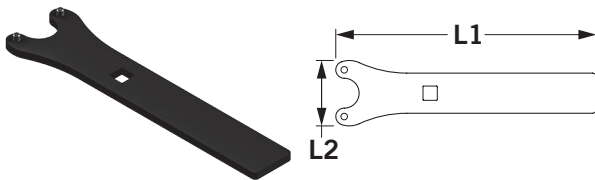
Fine Tune™ Collet Nut



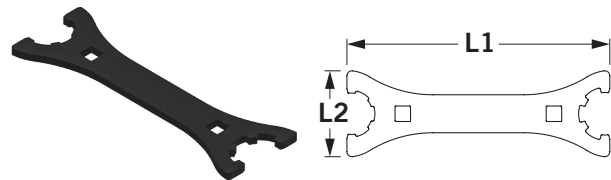
True Zero Collet Nut



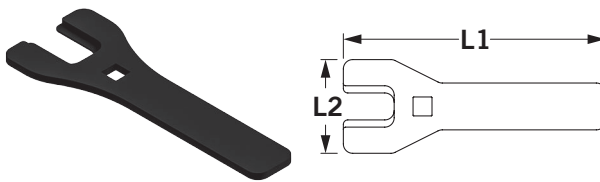
XT Precision® Collet Nut



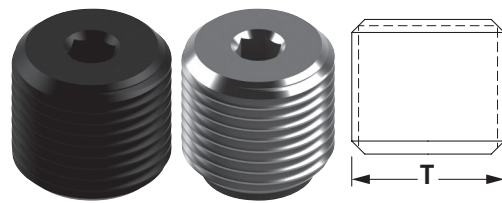
Shorty Collet Nut Wrench



Double-Ended Collet Nut Wrench



Tuned Collet Nut Wrench





(Standard)


(Coolant Through)

Stop Screw

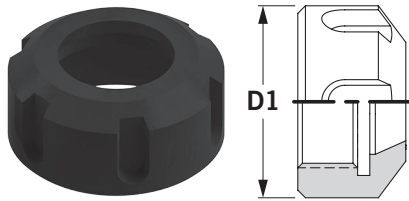
ER32 Collet Nuts & Collet Nut Wrenches

Collet Nuts	Part Number	Description	Thread	D1
	XGCN-0032INT	ER32 Shorty Collet Nut	M40 X 1.50	N/A
	XGSN-0032	ER32 Standard Collet Nut	M40 X 1.50	1.970
	XCNA-0032	ER32 Classic Collet Nut	M40 X 1.50	1.880
	XCNA-BB32	ER32 Ball Bearing Collet Nut	M40 X 1.50	1.880
	XCNA-FB32	ER32 Fine Balance Collet Nut	M40 X 1.50	1.880
	XCNA-FT32	ER32 Fine Tune™ Collet Nut	M40 X 1.50	1.880
	XGZN-0032	ER32 True Zero Collet Nut	M40 X 1.50	2.480
	XCNA-T032	ER32 XT Precision® Collet Nut	M40 X 1.50	1.880

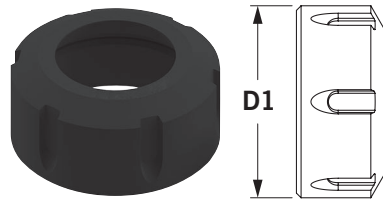
Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
	XCCW-P032INT	ER32 Shorty Wrench	XGCN-0032INT	-	-	7.02	1.26
	XCCW-D032	ER32 Double-Ended Wrench	XGSN-0032	XCNA-0032	XCNA-BB32	9.75	3.11
	XCCW-FT32	ER32 Tuned Collet Nut Wrench	XCNA-FB32	XCNA-FT32	-	9.00	3.19

Collet Chuck Extension Stop Screws	Part Number	Description	Thread
	XCCS-2215	Standard ER32 Stop Screw	M22 X 1.50 LH
	XCCS-2215-C	Coolant Thru ER32 Stop Screw	M22 X 1.50 LH

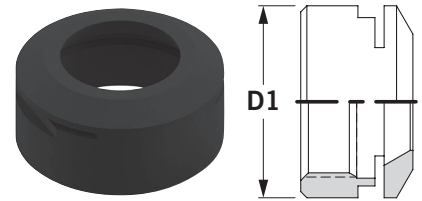
ER40 Collet Nuts & Collet Nut Wrenches



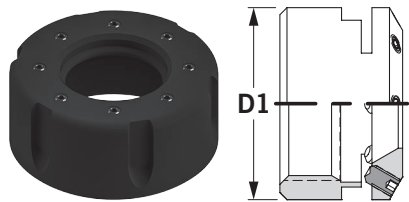
Standard Collet Nut



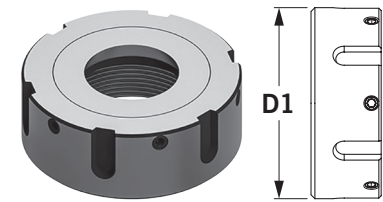
Classic Collet Nut



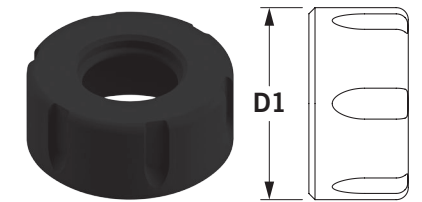
Fine Balance Collet Nut



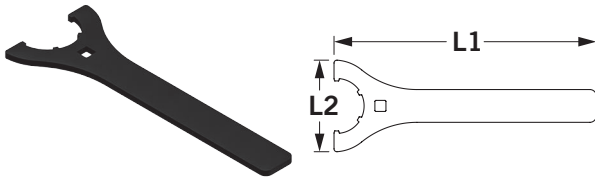
Fine Tune™ Collet Nut



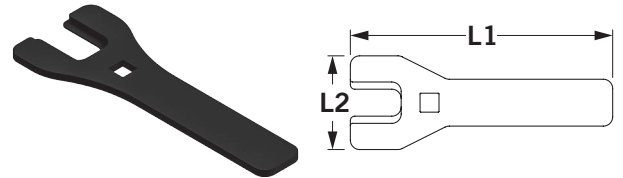
True Zero Collet Nut



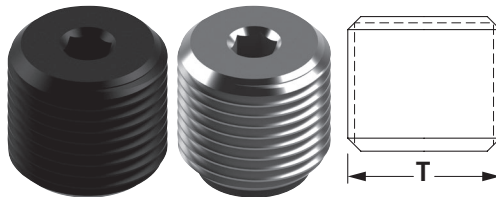
XT Precision® Collet Nut



Standard Collet Nut Wrench





Tuned Collet Nut Wrench




(Standard) (Coolant Through)
Stop Screw

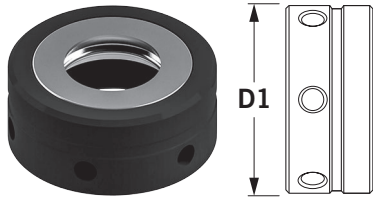
ER40 Collet Nuts & Collet Nut Wrenches

Collet Nuts	Part Number	Description	Thread	D1
	XGSN-0040	ER40 Standard Collet Nut	M50 X 1.50	2.480
	XCNA-0040	ER40 Classic Collet Nut	M50 X 1.50	2.480
	XCNA-FB40	ER40 Fine Balance Collet Nut	M50 X 1.50	2.480
	XCNA-FT40	ER40 Fine Tune™ Collet Nut	M50 X 1.50	2.480
	XGZN-0040	ER40 True Zero Collet Nut	M50 X 1.50	3.071
	XCNA-T040	ER40 XT Precision® Collet Nut	M50 X 1.50	2.480

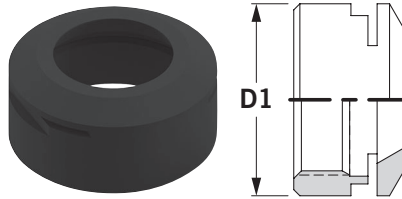
Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	L1	L2
	XCCW-0040	ER40 Standard Collet Nut Wrench	XGSN-0040	XCNA-0040	XCNA-T040	12.00	4.00
	XCCW-FT40	ER40 Tuned Collet Nut Wrench	XCNA-FB40	XCNA-FT40	-	10.00	3.38

Collet Chuck Extension Stop Screws	Part Number	Description	Thread
	XCCS-1816	Standard ER40 Stop Screw	1 1/8-16 LH
	XCCS-1816-C	Coolant Thru ER40 Stop Screw	1 1/8-16 LH

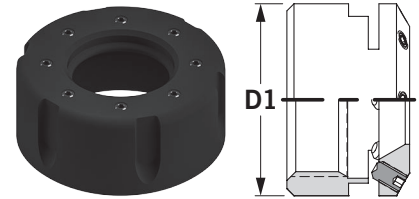
TG100 Collet Nuts & Collet Nut Wrenches



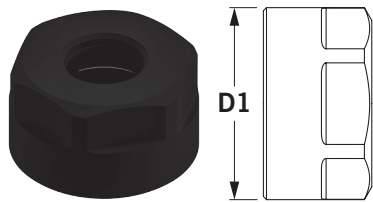
TG100 Standard Collet Nut



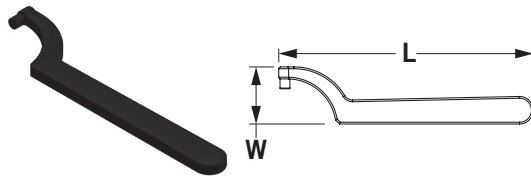
TG100 Fine Balance Collet Nut



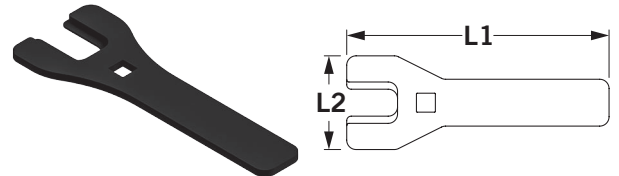
TG100 Fine Tune™ Collet Nut



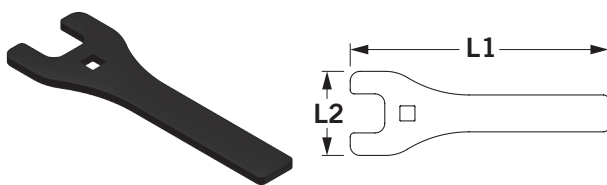
TG100 Hexagonal Collet Nut



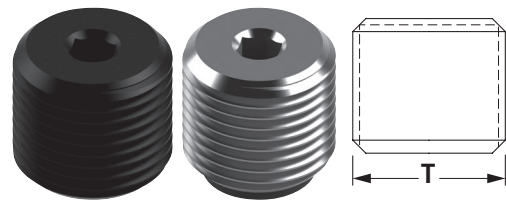
TG100 Standard Collet Nut Wrench



TG100 Tuned Collet Nut Wrench



TG100 Hexagonal Collet Nut Wrench



(Standard) (Coolant Through)
Stop Screw

TG100 Collet Nuts & Collet Nut Wrenches

Collet Nuts	Part Number	Description	Thread	D1
	XCNA-1000	TG100 Standard Collet Nut	1 7/8-12 ACME	2.480
	XCNA-FB10	TG100 Fine Balance Collet Nut	1 7/8-12 ACME	2.250
	XCNA-FT10	TG100 Fine Tune™ Collet Nut	1 7/8-12 ACME	2.250
	XCNA-H100	TG100 Hexagonal Collet Nut	1 7/8-12 ACME	2.500

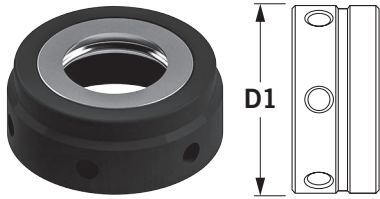
Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	Length	Width
	XCCW-1000	TG100 Standard Collet Nut Wrench	XCNA-1000	-	-	N/A	N/A
	XCCW-FT10	TG100 Tuned Collet Nut Wrench	XCNA-FB10	XCNA-FT10	-	10.00	3.19
	XCCW-H100	TG100 Hexagonal Collet Nut Wrench	XCNA-H100	-	-	8.23	4.26

TG100 & 150 Stop Screws	Part Number	Taper	Description	Thread
	XCCS-2212	40	TG100 Standard Length	1 3/8-12 LH
	XCCS-2212	45	TG100 Standard Length	1 3/8-12 LH
	XCCS-2612	45	TG100 Ext. & Extra Ext. Length	1 5/8-12 LH
	XCCS-2612	50	TG100 Std., Ext. & Extra Ext. Length	1 5/8-12 LH

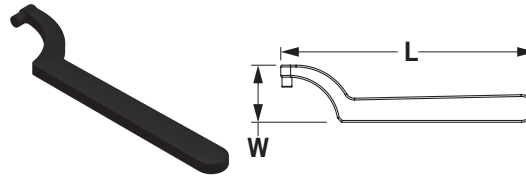
Add -C at end of part number to specify stop screw with coolant passage.

Accessories // TG100 Collet Nuts & Collet Nut Wrenches

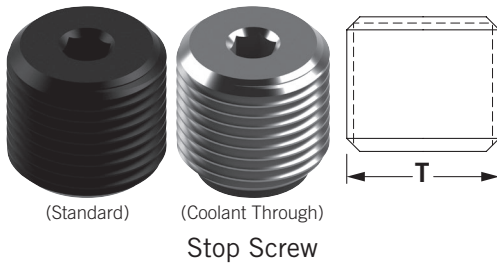
TG150 Collet Nuts & Collet Nut Wrenches



TG150 Standard Collet Nut



TG150 Standard Collet Nut Wrench



(Standard)

(Coolant Through)

Stop Screw

TG150 Collet Nuts & Collet Nut Wrenches

Collet Nuts	Part Number	Description	Thread	D1
	XCNA-1500	TG150 Standard Collet Nut	2 5/8 - 12 ACME	3.470



Collet Chuck Wrenches	Part Number	Description	1 st Compatible Nut	2 nd Compatible Nut	3 rd Compatible Nut	Length	Width
	XCCW-1500	TG150 Standard Collet Nut Wrench	XCNA-1500	-	-	N/A	N/A



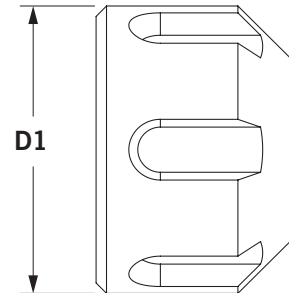
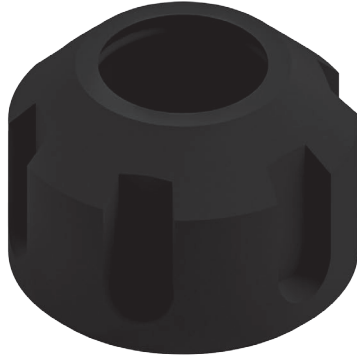
TG100 & 150 Stop Screws	Part Number	Taper	Description	Thread
	XCCS-2212	40	TG150 Standard Length	1 3/8-12 LH
	XCCS-2212	45	TG150 Standard Length	1 3/8-12 LH
	XCCS-2612	45	TG150 Ext. & Extra Ext. Length	1 5/8-12 LH
	XCCS-2612	50	TG150 Std., Ext. & Extra Ext. Length	1 5/8-12 LH



Add -C at end of part number to specify stop screw with coolant passage.

ER Coolant Collet Nuts

- ▶ Front coolant seals and collet nuts are available for all standard Micro Precision® ER Collets, including Tap Collets. Front Coolant Collet Nuts require coolant seal disks, see page 390. Front Coolant Collet Nuts and seal disks do not affect collet collapse range. **NOTE:** Maximum 1,500 psi.



ER Coolant Collet Nuts

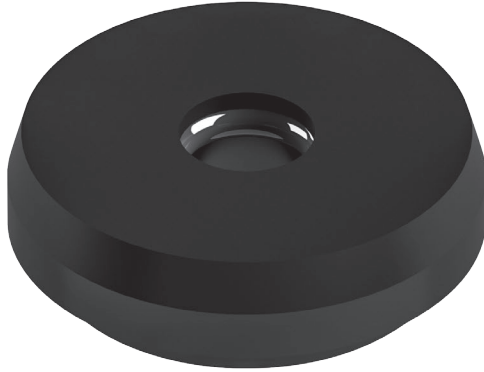
Front Coolant Collet Nuts



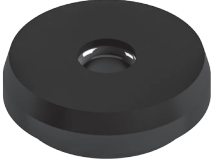
Part Number	Description	Thread	D1
XGCN-C016	ER16 Coolant Collet Nut	M22 X 1.50	1.250
XGCN-C020	ER20 Coolant Collet Nut	M25 X 1.50	1.380
XGCN-C025	ER25 Coolant Collet Nut	M32 X 1.50	1.640
XGCN-C032	ER32 Coolant Collet Nut	M40 X 1.50	1.960
XGCN-C040	ER40 Coolant Collet Nut	M50 X 1.50	2.480

Front Coolant Seal Disks

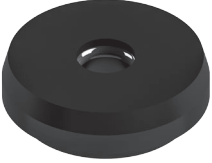
- ▶ Front Coolant Seal Disks are required for all Front Coolant Collet Nuts page 388).



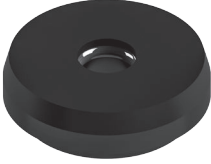
ER16 Front Coolant Seal Disks

Seal Disks	Part Number	Description	Thread
	CSD16-0350	Front Coolant Seal Disk (mm)	3.5
	CSD16-0400	Front Coolant Seal Disk (mm)	4.0
	CSD16-0450	Front Coolant Seal Disk (mm)	4.5
	CSD16-0500	Front Coolant Seal Disk (mm)	5.0
	CSD16-0550	Front Coolant Seal Disk (mm)	5.5
	CSD16-0600	Front Coolant Seal Disk (mm)	6.0
	CSD16-0650	Front Coolant Seal Disk (mm)	6.5
	CSD16-0700	Front Coolant Seal Disk (mm)	7.0
	CSD16-0750	Front Coolant Seal Disk (mm)	7.5
	CSD16-0800	Front Coolant Seal Disk (mm)	8.0
	CSD16-0850	Front Coolant Seal Disk (mm)	8.5
	CSD16-0900	Front Coolant Seal Disk (mm)	9.0
	CSD16-0950	Front Coolant Seal Disk (mm)	9.5
	CSD16-1000	Front Coolant Seal Disk (mm)	10.0

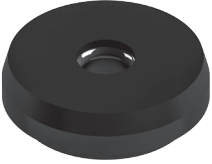
ER20 Front Coolant Seal Disks

Seal Disks	Part Number	Description	Thread
	CSD20-0350	Front Coolant Seal Disk (mm)	3.5
	CSD20-0400	Front Coolant Seal Disk (mm)	4.0
	CSD20-0450	Front Coolant Seal Disk (mm)	4.5
	CSD20-0500	Front Coolant Seal Disk (mm)	5.0
	CSD20-0550	Front Coolant Seal Disk (mm)	5.5
	CSD20-0600	Front Coolant Seal Disk (mm)	6.0
	CSD20-0650	Front Coolant Seal Disk (mm)	6.5
	CSD20-0700	Front Coolant Seal Disk (mm)	7.0
	CSD20-0750	Front Coolant Seal Disk (mm)	7.5
	CSD20-0800	Front Coolant Seal Disk (mm)	8.0
	CSD20-0850	Front Coolant Seal Disk (mm)	8.5
	CSD20-0900	Front Coolant Seal Disk (mm)	9.0
	CSD20-0950	Front Coolant Seal Disk (mm)	9.5
	CSD20-1000	Front Coolant Seal Disk (mm)	10.0
	CSD20-1050	Front Coolant Seal Disk (mm)	10.5
	CSD20-1100	Front Coolant Seal Disk (mm)	11.0
	CSD20-1150	Front Coolant Seal Disk (mm)	11.5
CSD20-1200	Front Coolant Seal Disk (mm)	12.0	
CSD20-1250	Front Coolant Seal Disk (mm)	12.5	
CSD20-1300	Front Coolant Seal Disk (mm)	13.0	

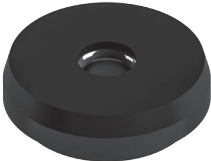
ER25 Front Coolant Seal Disks

Seal Disks	Part Number	Description	Thread
	CSD25-0350	Front Coolant Seal Disk (mm)	3.5
	CSD25-0400	Front Coolant Seal Disk (mm)	4.0
	CSD25-0450	Front Coolant Seal Disk (mm)	4.5
	CSD25-0500	Front Coolant Seal Disk (mm)	5.0
	CSD25-0550	Front Coolant Seal Disk (mm)	5.5
	CSD25-0600	Front Coolant Seal Disk (mm)	6.0
	CSD25-0650	Front Coolant Seal Disk (mm)	6.5
	CSD25-0700	Front Coolant Seal Disk (mm)	7.0
	CSD25-0750	Front Coolant Seal Disk (mm)	7.5
	CSD25-0800	Front Coolant Seal Disk (mm)	8.0
	CSD25-0850	Front Coolant Seal Disk (mm)	8.5
	CSD25-0900	Front Coolant Seal Disk (mm)	9.0
	CSD25-0950	Front Coolant Seal Disk (mm)	9.5
	CSD25-1000	Front Coolant Seal Disk (mm)	10.0
	CSD25-1050	Front Coolant Seal Disk (mm)	10.5
	CSD25-1100	Front Coolant Seal Disk (mm)	11.0
CSD25-1150	Front Coolant Seal Disk (mm)	11.5	
CSD25-1200	Front Coolant Seal Disk (mm)	12.0	
CSD25-1250	Front Coolant Seal Disk (mm)	12.5	
CSD25-1300	Front Coolant Seal Disk (mm)	13.0	
CSD25-1350	Front Coolant Seal Disk (mm)	13.5	
CSD25-1400	Front Coolant Seal Disk (mm)	14.0	
CSD25-1450	Front Coolant Seal Disk (mm)	14.5	
CSD25-1500	Front Coolant Seal Disk (mm)	15.0	
CSD25-1550	Front Coolant Seal Disk (mm)	15.5	
CSD25-1600	Front Coolant Seal Disk (mm)	16.0	

ER32 Front Coolant Seal Disks

Seal Disks	Part Number	Description	Thread
	CSD32-0350	Front Coolant Seal Disk (mm)	3.5
	CSD32-0400	Front Coolant Seal Disk (mm)	4.0
	CSD32-0450	Front Coolant Seal Disk (mm)	4.5
	CSD32-0500	Front Coolant Seal Disk (mm)	5.0
	CSD32-0550	Front Coolant Seal Disk (mm)	5.5
	CSD32-0600	Front Coolant Seal Disk (mm)	6.0
	CSD32-0650	Front Coolant Seal Disk (mm)	6.5
	CSD32-0700	Front Coolant Seal Disk (mm)	7.0
	CSD32-0750	Front Coolant Seal Disk (mm)	7.5
	CSD32-0800	Front Coolant Seal Disk (mm)	8.0
	CSD32-0850	Front Coolant Seal Disk (mm)	8.5
	CSD32-0900	Front Coolant Seal Disk (mm)	9.0
	CSD32-0950	Front Coolant Seal Disk (mm)	9.5
	CSD32-1000	Front Coolant Seal Disk (mm)	10.0
	CSD32-1050	Front Coolant Seal Disk (mm)	10.5
	CSD32-1100	Front Coolant Seal Disk (mm)	11.0
	CSD32-1150	Front Coolant Seal Disk (mm)	11.5
	CSD32-1200	Front Coolant Seal Disk (mm)	12.0
	CSD32-1250	Front Coolant Seal Disk (mm)	12.5
	CSD32-1300	Front Coolant Seal Disk (mm)	13.0
	CSD32-1350	Front Coolant Seal Disk (mm)	13.5
CSD32-1400	Front Coolant Seal Disk (mm)	14.0	
CSD32-1450	Front Coolant Seal Disk (mm)	14.5	
CSD32-1500	Front Coolant Seal Disk (mm)	15.0	
CSD32-1550	Front Coolant Seal Disk (mm)	15.5	
CSD32-1600	Front Coolant Seal Disk (mm)	16.0	
CSD32-1650	Front Coolant Seal Disk (mm)	16.5	
CSD32-1700	Front Coolant Seal Disk (mm)	17.0	
CSD32-1750	Front Coolant Seal Disk (mm)	17.5	
CSD32-1800	Front Coolant Seal Disk (mm)	18.0	
CSD32-1850	Front Coolant Seal Disk (mm)	18.5	
CSD32-1900	Front Coolant Seal Disk (mm)	19.0	
CSD32-1950	Front Coolant Seal Disk (mm)	19.5	
CSD32-2000	Front Coolant Seal Disk (mm)	20.0	
CSD32-2050	Front Coolant Seal Disk (mm)	20.5	
CSD32-2100	Front Coolant Seal Disk (mm)	21.0	


ER40 Front Coolant Seal Disks

Seal Disks	Part Number	Description	Thread
	CSD40-0350	Front Coolant Seal Disk (mm)	3.5
	CSD40-0400	Front Coolant Seal Disk (mm)	4.0
	CSD40-0450	Front Coolant Seal Disk (mm)	4.5
	CSD40-0500	Front Coolant Seal Disk (mm)	5.0
	CSD40-0550	Front Coolant Seal Disk (mm)	5.5
	CSD40-0600	Front Coolant Seal Disk (mm)	6.0
	CSD40-0650	Front Coolant Seal Disk (mm)	6.5
	CSD40-0700	Front Coolant Seal Disk (mm)	7.0
	CSD40-0750	Front Coolant Seal Disk (mm)	7.5
	CSD40-0800	Front Coolant Seal Disk (mm)	8.0
	CSD40-0850	Front Coolant Seal Disk (mm)	8.5
	CSD40-0900	Front Coolant Seal Disk (mm)	9.0
	CSD40-0950	Front Coolant Seal Disk (mm)	9.5
	CSD40-1000	Front Coolant Seal Disk (mm)	10.0
	CSD40-1050	Front Coolant Seal Disk (mm)	10.5
	CSD40-1100	Front Coolant Seal Disk (mm)	11.0
	CSD40-1150	Front Coolant Seal Disk (mm)	11.5
	CSD40-1200	Front Coolant Seal Disk (mm)	12.0
	CSD40-1250	Front Coolant Seal Disk (mm)	12.5
	CSD40-1300	Front Coolant Seal Disk (mm)	13.0
	CSD40-1350	Front Coolant Seal Disk (mm)	13.5
	CSD40-1400	Front Coolant Seal Disk (mm)	14.0
	CSD40-1450	Front Coolant Seal Disk (mm)	14.5
	CSD40-1500	Front Coolant Seal Disk (mm)	15.0
	CSD40-1550	Front Coolant Seal Disk (mm)	15.5
	CSD40-1600	Front Coolant Seal Disk (mm)	16.0
	CSD40-1650	Front Coolant Seal Disk (mm)	16.5
	CSD40-1700	Front Coolant Seal Disk (mm)	17.0
	CSD40-1750	Front Coolant Seal Disk (mm)	17.5
	CSD40-1800	Front Coolant Seal Disk (mm)	18.0
CSD40-1850	Front Coolant Seal Disk (mm)	18.5	
CSD40-1900	Front Coolant Seal Disk (mm)	19.0	
CSD40-1950	Front Coolant Seal Disk (mm)	19.5	
CSD40-2000	Front Coolant Seal Disk (mm)	20.0	
CSD40-2050	Front Coolant Seal Disk (mm)	20.5	
CSD40-2100	Front Coolant Seal Disk (mm)	21.0	
CSD40-2150	Front Coolant Seal Disk (mm)	21.5	
CSD40-2200	Front Coolant Seal Disk (mm)	22.0	
CSD40-2250	Front Coolant Seal Disk (mm)	22.5	
CSD40-2300	Front Coolant Seal Disk (mm)	23.0	
CSD40-2350	Front Coolant Seal Disk (mm)	23.5	
CSD40-2400	Front Coolant Seal Disk (mm)	24.0	
CSD40-2450	Front Coolant Seal Disk (mm)	24.5	
CSD40-2500	Front Coolant Seal Disk (mm)	25.0	
CSD40-2550	Front Coolant Seal Disk (mm)	25.5	
CSD40-2600	Front Coolant Seal Disk (mm)	26.0	

Collet Extractor Clips

- ▶ Used in ER Collet Nuts, Collet Extractor Clips extract the collet from the collet chuck.



Collet Extractor Clip	Part Number	Description	Compatible Nut	Quantity
	XCNA-K016	ER16 Collet Extractor Clip	XCNA-0016	Pack of 10
	XCNA-K020	ER20 Collet Extractor Clip	XCNA-0020	Pack of 10
	XCNA-K025	ER25 Collet Extractor Clip	XCNA-0025	Pack of 10
	XCNA-K032	ER32 Collet Extractor Clip	XCNA-0032	Pack of 10

End Mill Side Lock Screws

► For use with End Mill holders.



End Mill Side Lock Screws Inch

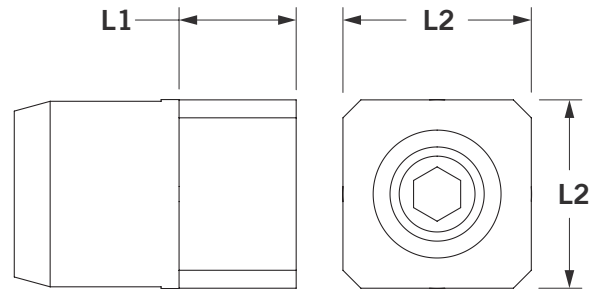
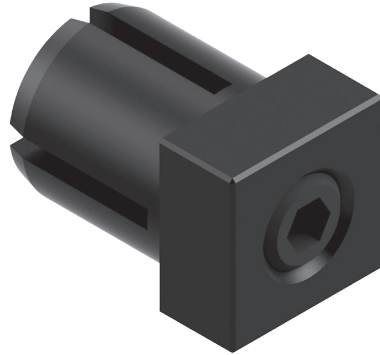
Side Lock Screws (In)	Part Number	End Mill Size	Thread	Length	Max Torque (In-Lbs)
	XEML-0232	0.125	8-32	0.25	18
	XEML-0332	0.187	10-32	0.25	30
	XEML-0428	0.250	1/4-28	0.25	60
	XEML-0524	0.312	5/16-24	0.25	120
	XEML-0624	0.375 & 0.437	3/8-25	0.3	200
	XEML-0720	0.500 & 0.562	7/16-20	0.36	220
	XEML-0820	0.625	1/2-20	0.42	500
	XEML-1018	0.750 & 0.875	5/8-18	0.49	560
	XEML-1216	1.000, 1.250, & 1.500	3/4-16	0.45	1150
	XEML-1614	2.000	1-14	0.88	1500

End Mill Side Lock Screws Metric

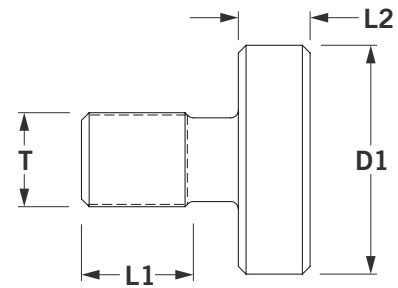
Side Lock Screws (mm)	Part Number	End Mill Size	Thread	Length	Max Torque (In-Lbs)
	XEML-0610	6MM	M6 X 1.0	10	60
	XEML-0813	8MM	M8 X 1.25	10	120
	XEML-1015	10MM	M10 X 1.5	12	180
	XEML-1218	12MM & 14MM	M12 X 1.75	16	250
	XEML-1420	16MM & 18MM	M14 X 2.0	16	450
	XEML-1620	20MM	M16 X 2.0	16	840

Shell Mill Replacement Parts

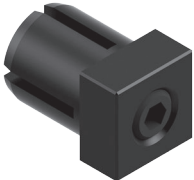
- ▶ Replacement drive keys and lock screws for Shell Mill holders.




Shell Mill Lock Screws



Shell Mill Drive Keys

Shell Mill Drive Keys	Part Number	L1	L2
	XSDK-0500	0.125	0.250
	XSDK-0750	0.156	0.313
	XSDK-1000	0.187	0.375
	XSDK-1250	0.250	0.500
	XSDK-1500	0.312	0.625
	XSDK-2000	0.375	0.750
	XSDK-2500	0.500	1.000

Shell Mill Lock Screws

Shell Mill Lock Screw	Part Number	D1	T	L1	L2
	XSAS-0500	0.625	1/4-28	0.50	0.34
	XSAS-0750	0.875	3/8-24	0.63	0.37
	XSAS-1000	1.188	1/2-20	0.81	0.37
	XSAS-1250	1.500	5/8-18	0.94	0.50
	XSAS-1500	1.875	3/4-16	1.13	0.50
	XSAS-2000	2.480	1-14	1.31	0.50
	XSAS-2500	3.125	1-14	1.50	0.50

Accessories Retention Knobs, Wrenches, Storage

- ▶ Command retention knobs are made to industry standards, and are available for all popular domestic and imported machining centers. Command also offers a variety of accessories to help maintain and organize your tools.

<p>402-403</p>  <p>U.S. ANSI CT & BT</p>	<p>404-405</p>  <p>MAS Style CT & BT</p>	<p>406-407</p>  <p>DIN/ISO CT & BT</p>	<p>408-409</p>  <p>Domestic & Import CT</p>
<p>410-411</p>  <p>Ret./Torque Wrenches</p>	<p>414-415</p>  <p>Setup Holding Fixtures</p>	<p>412</p>  <p>HSK Accessories</p>	<p>413</p>  <p>Tool Tags</p>
<p>416-417</p>  <p>Taper Check™, Zero Master</p>	<p>418-419</p>  <p>Drawbar Dynamometer</p>	<p>420-423</p>  <p>Test Bars & Storage</p>	<p>424-429</p>  <p>Carts, Shelves</p>

Accessories Retention Knobs, Wrenches, Storage

Retention Knobs U.S. ANSI CT & BT	424-425
Retention Knobs MAS Style CT & BT	426-427
Retention Knobs DIN/ISO CT & BT	428-429
Retention Knobs Dom. & Import Mach. CT	430-431
Retention & Torque Wrenches, Torque Values	432-433
HSK Accessories	434
Tool Tags.....	435
Setup Holding Fixtures & Accessories	436-437
Taper Check™ & Zero Master Edge Finder	438-439
System II™ Drawbar Dynamometer	440-441
CT, BT & HSK Test Bars, Storage Cases	442-445
Tool Carts & Shelves	446-451

- ▶ Visit Command Tooling Systems' on line catalog for Command standard product part file downloads, up-to-date stock levels and our list price instant quoting feature. Command's printed catalogs and fliers are also available for download from the Command Tooling Systems website.

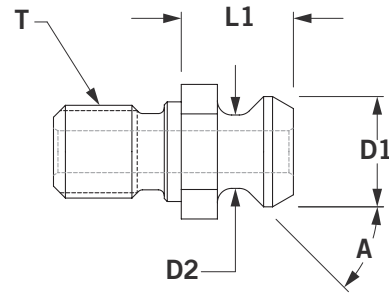
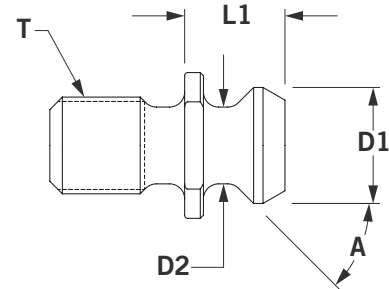
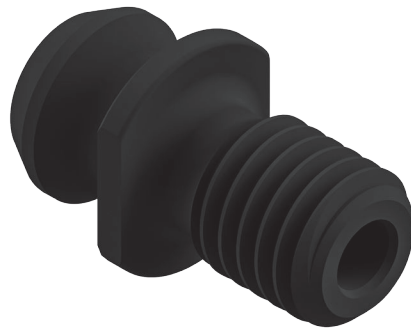
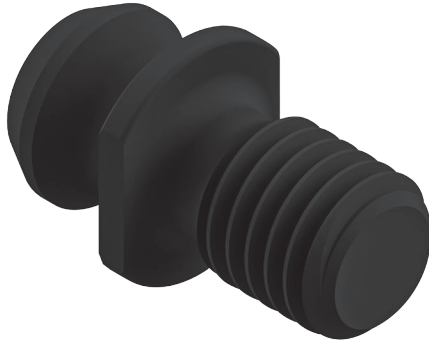
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Command Tooling Systems is the technology leader in toolholder manufacturing for high precision machining operations. Command manufactures standard, precision, and special application tooling systems to service the needs of the manufacturing community.

Command Tooling Systems' core product lines are now organized into four distinct product classes to define the diverse product range offered by Command Tooling Systems. This catalog contains Command standard product (C Class). Visit our website for more information on the product classes, information downloads, and distributors in your area.


Retention Knobs


- ▶ Command retention knobs are available for all popular domestic and imported machining centers. Knobs are made of the finest quality steel, specifically treated to give an excellent wear surface over a tough shock resistant core.




- + At end of part number "C" designates coolant hole; "H" designates O-Ring included.
- + Avoid cost of damaged holder and spindles from incorrectly torqued retention knobs.
- + Retention knob wrench and torque wrench details, page 410.
- + For special retention knobs, contact Command Customer Service.
- + **NOTE:** Retention knobs are manufactured to the specifications of the machine tool builder, and deviations from this could cause serious problems. If you are in doubt about an application, send us a print of the knob so that we may find the correct part. Please specify machine make and the toolholder shank being used when ordering.

Retention Knobs U.S. ANSI CT & BT

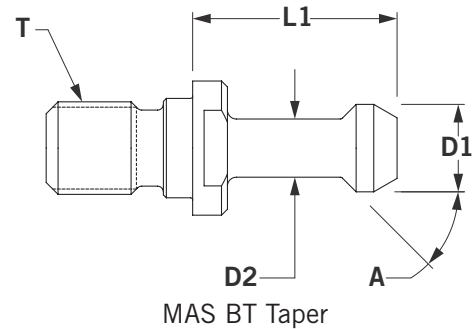
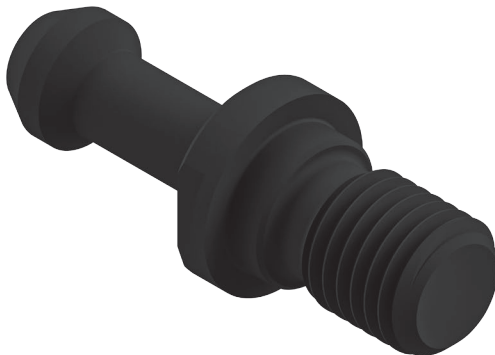
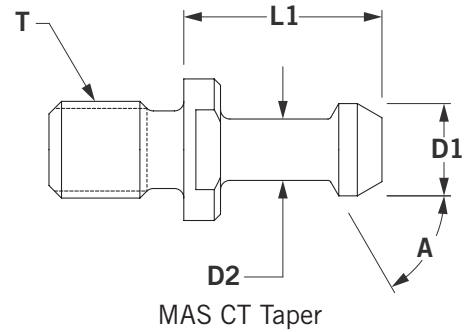
U.S. ANSI CT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RC2E-0001	CT30	0.52	0.39	0.46	45	1/2-13	Yes	-
	RC4E-0001	CT40	0.74	0.49	0.64	45	5/8-11	Yes	XRKW-0750
	RC5E-0001	CT45	0.94	0.61	0.82	45	3/4-10	Yes	XRKW-1000
	RC6E-0001	CT50	1.14	0.83	1.00	45	1-8	Yes	XRKW-1187

U.S. ANSI CT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RC4E-0002	CT40	0.74	0.49	0.64	45	5/8-11	No	XRKW-0750
	RC5E-0002	CT45	0.94	0.61	0.82	45	3/4-10	No	XRKW-1000
	RC6E-0002	CT50	1.14	0.83	1.00	45	1-8	No	XRKW-1187

U.S. ANSI BT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RB4M-0105	BT40	0.74	0.49	0.64	45	M16X2.0	Yes	XRKW-0750
	RB4M-0115	BT40	0.74	0.49	0.75	45	M16X2.0	Yes	XRKW-0750
	RB5M-0106	BT45	0.94	0.61	0.82	45	M20X2.5	Yes	XRKW-1000
	RB6M-0105	BT50	1.14	0.83	1.00	45	M24X3.0	Yes	XRKW-1187

Retention Knobs

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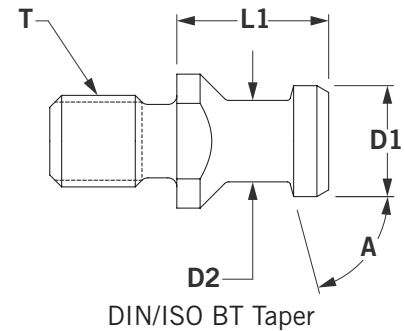
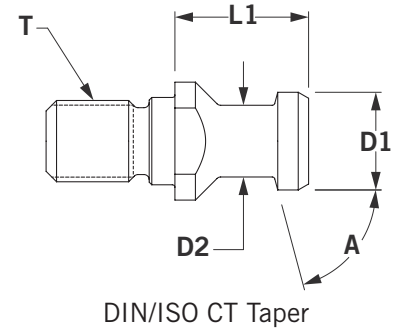
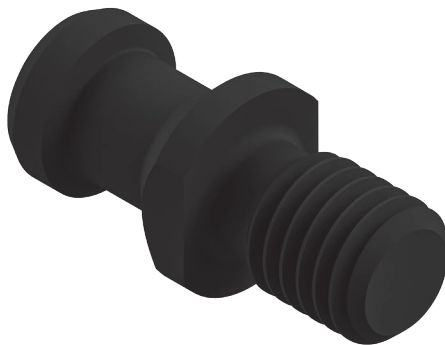
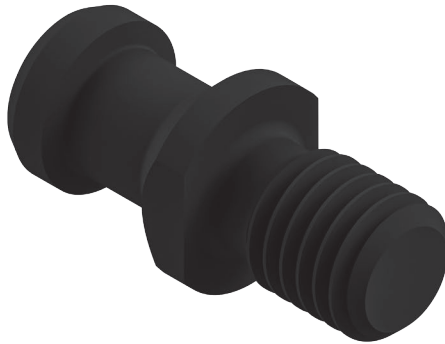
- + At end of part number "C" designates coolant hole; "H" designates O-Ring included.
- + Avoid cost of damaged holder and spindles from incorrectly torqued retention knobs, see page 410 for recommended torque values.
- + Retention knob wrench and torque wrench details, page 410.
- + For special retention knobs, contact Command Customer Service.
- + **NOTE:** Retention knobs are manufactured to the specifications of the machine tool builder, and deviations from this could cause serious problems. If you are in doubt about an application, send us a print of the knob so that we may find the correct part. Please specify machine make and the toolholder shank being used when ordering.

Retention Knobs MAS Style CT & BT

MAS Style CT Taper		Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RB4E-0001	CT40	0.59	0.39	1.27	45	5/8-11	No	XRKW-0750	
	RB4E-0001-C	CT40	0.59	0.39	1.27	45	5/8-11	Yes	XRKW-0750	
	RS4E-0221	CT40	0.59	0.39	1.27	45	5/8-11	No	XRKW-0750	
	RS4E-0221-C	CT40	0.59	0.39	1.27	45	5/8-11	Yes	XRKW-0750	
	RB4E-0002	CT40	0.59	0.39	1.27	60	5/8-11	No	XRKW-0750	
	RB4E-0002-C	CT40	0.59	0.39	1.27	60	5/8-11	Yes	XRKW-0750	
	RB4E-0003	CT40	0.59	0.39	1.27	90	5/8-11	No	XRKW-0750	
	RB4E-0003-C	CT40	0.59	0.39	1.27	90	5/8-11	Yes	XRKW-0750	
	RB5E-0001	CT45	0.75	0.55	1.58	45	3/4-10	No	XRKW-1000	
	RB5E-0003	CT45	0.75	0.55	1.58	90	3/4-10	No	XRKW-1000	
	RB6E-0001	CT50	0.91	0.67	1.78	45	1-8	No	XRKW-1187	
	RB6E-0001-C	CT50	0.91	0.67	1.78	45	1-8	Yes	XRKW-1187	
	RB6E-0002	CT50	0.91	0.67	1.78	60	1-8	No	XRKW-1187	
	RB6E-0002-C	CT50	0.91	0.67	1.78	60	1-8	Yes	XRKW-1187	
	RB6E-0003	CT50	0.91	0.67	1.78	90	1-8	No	XRKW-1187	
	RB6E-0003-C	CT50	0.91	0.67	1.78	90	1-8	Yes	XRKW-1187	
MAS Style BT Taper		Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RB2M-0001	BT30	0.43	0.27	0.90	45	M12X1.75	No	-	
	RB2M-0001-C	BT30	0.43	0.27	0.90	45	M12X1.75	Yes	-	
	RB2M-0002	BT30	0.43	0.27	0.90	60	M12X1.75	No	-	
	RB3M-0001	BT35	0.51	0.33	1.10	45	M12X1.75	No	-	
	RB3M-0002	BT35	0.51	0.33	1.10	60	M12X1.75	No	-	
	RB4M-0001	BT40	0.59	0.39	1.38	45	M16X2.0	No	XRKW-0750	
	RB4M-0001-C	BT40	0.59	0.39	1.38	45	M16X2.0	Yes	XRKW-0750	
	RB4M-0002	BT40	0.59	0.39	1.38	60	M16X2.0	No	XRKW-0750	
	RB4M-0002-C	BT40	0.59	0.39	1.38	60	M16X2.0	Yes	XRKW-0750	
	RB4M-0003	BT40	0.59	0.39	1.38	90	M16X2.0	No	XRKW-0750	
	RB5M-0001	BT45	0.75	0.55	1.57	45	M20X2.5	No	XRKW-1000	
	RB5M-0002	BT45	0.75	0.55	1.57	60	M20X2.5	No	XRKW-1000	
	RB5M-0003	BT45	0.75	0.55	1.57	90	M20X2.5	No	XRKW-1000	
	RB6M-0001	BT50	0.91	0.67	1.77	45	M24X3.0	No	XRKW-1187	
	RB6M-0001-C	BT50	0.91	0.67	1.77	45	M24X3.0	Yes	XRKW-1187	
	RB6M-0002	BT50	0.91	0.67	1.77	60	M24X3.0	No	XRKW-1187	
	RB6M-0003	BT50	0.91	0.67	1.77	90	M24X3.0	No	XRKW-1187	
	RB6M-0003-C	BT50	0.91	0.67	1.77	90	M24X3.0	Yes	XRKW-1187	


Retention Knobs


- ▶ Command retention knobs are available for all popular domestic and imported machining centers. Knobs are made of the finest quality steel, specifically treated to give an excellent wear surface over a tough shock resistant core.



- + At end of part number “C” designates coolant hole; “H” designates O-Ring included.
- + Avoid cost of damaged holder and spindles from incorrectly torqued retention knobs, see page 410 for recommended torque values.
- + Retention knob wrench and torque wrench details, page 410.
- + For special retention knobs, contact Command Customer Service.
- + **NOTE:** Retention knobs are manufactured to the specifications of the machine tool builder, and deviations from this could cause serious problems. If you are in doubt about an application, send us a print of the knob so that we may find the correct part. Please specify machine make and the toolholder shank being used when ordering.

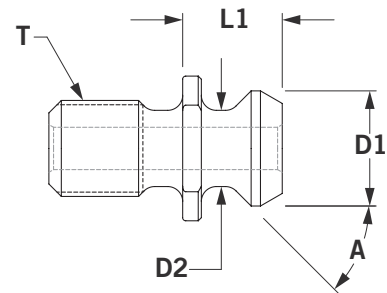
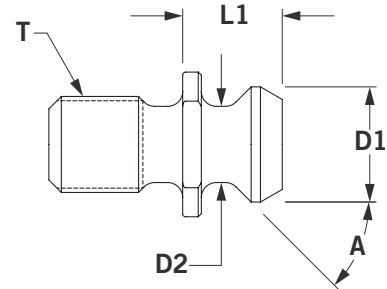
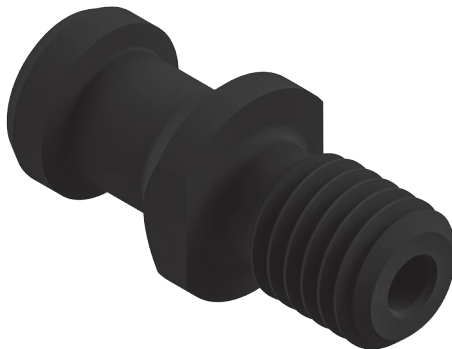
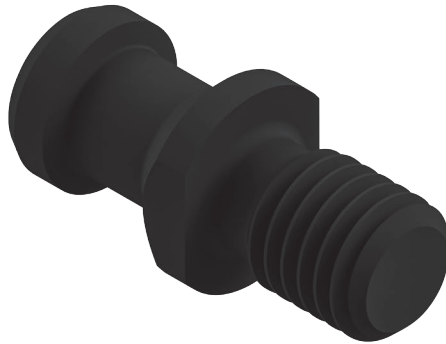
Retention Knobs DIN/ISO CT & BT

DIN/ISO CT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RS2E-0114-C	CT30	0.51	0.35	0.95	75	1/2-13	Yes	-
	RS4E-0114	CT40	0.75	0.55	1.02	75	5/8-11	No	XRKW-0750
	RS4E-0114-C	CT40	0.75	0.55	1.02	75	5/8-11	Yes	XRKW-0750
	RS6E-0114	CT50	1.10	0.83	1.34	75	1-8	No	XRKW-1187
	RS6E-0114-C	CT50	1.10	0.83	1.34	75	1-8	Yes	XRKW-1187

DIN/ISO DIN Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RS2M-0114	DIN30	0.51	0.35	0.94	75	M12X1.75	No	-
	RS4M-0114	DIN40	0.75	0.55	1.02	75	M16X2.0	No	XRKW-0750
	RS4M-0114-C	DIN40	0.75	0.55	1.02	75	M16X2.0	Yes	XRKW-0750
	RS6M-0114	DIN50	1.10	0.83	1.34	75	M24X3.0	No	XRKW-1187
	RS6M-0114-C	DIN50	1.10	0.83	1.34	75	M24X3.0	Yes	XRKW-1187

Retention Knobs *Continued*


- ▶ Command retention knobs are available for all popular domestic and imported machining centers. Knobs are made of the finest quality steel, specifically treated to give an excellent wear surface over a tough shock resistant core.




- + At end of part number "C" designates coolant hole; "H" designates O-Ring included.
- + Avoid cost of damaged holder and spindles from incorrectly torqued retention knobs, see page 410 for recommended torque values.
- + Retention knob wrench and torque wrench details, page 410.
- + For special retention knobs, contact Command Customer Service.

- + **NOTE:** Retention knobs are manufactured to the specifications of the machine tool builder, and deviations from this could cause serious problems. If you are in doubt about an application, send us a print of the knob so that we may find the correct part. Please specify machine make and the toolholder shank being used when ordering.

Retention Knobs Domestic & Import Machines CT

Domestic & Import Machines CT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RS2E-0206	CT30	0.50	0.40	0.76	45	1/2-13	No	-
	RS2E-0207	CT30	0.50	0.31	0.75	75	1/2-13	No	-
	RB4E-0100	CT40	0.59	0.39	1.05	90	5/8-11	No	XRKW-0750
	RB4E-0101	CT40	0.59	0.39	0.98	90	5/8-11	No	XRKW-0750
	RS4E-0104	CT40	0.59	0.41	1.44	45	5/8-11	No	XRKW-0750
	RS4E-0104-C	CT40	0.59	0.41	1.44	45	5/8-11	Yes	XRKW-0750
	RS4E-0106	CT40	0.59	0.39	1.38	45	5/8-11	No	XRKW-0750
	RS4E-0109	CT40	0.52	0.39	0.47	50	5/8-11	No	XRKW-0750
	RS4E-0110	CT40	0.98	0.83	0.99	75	5/8-11	No	-
	RS4E-0111	CT40	0.50	0.31	0.75	75	5/8-11	No	-
	RS4E-0114-H	CT40	0.75	0.55	1.02	75	5/8-11	Yes	XRKW-0750
	RS4E-0201	CT40	0.50	0.31	0.87	75	5/8-11	No	-
	RS4E-0203	CT40	0.50	0.31	2.38	90	5/8-11	No	-
	RS4E-0207	CT40	0.74	0.48	0.87	75	5/8-11	No	XRKW-0750
	RS4E-0208-C	CT40	0.74	0.49	0.64	45	5/8-11	Yes	XRKW-0750
	RS4E-0209-C	CT40	0.74	0.55	1.03	75	5/8-11	Yes	XRKW-0750
	RS4E-0211-C	CT40	0.74	0.49	0.64	45	5/8-11	Yes	XRKW-0750
	RS4E-0212	CT40	0.75	0.55	1.02	75	5/8-11	No	XRKW-0750
	RS4E-0212-C	CT40	0.75	0.55	1.02	75	5/8-11	Yes	XRKW-0750
	RS4E-0212-H	CT40	0.75	0.55	1.02	75	5/8-11	Yes	XRKW-0750
	RS4E-0215-C	CT40	0.75	0.55	1.14	75	5/8-11	Yes	XRKW-0750
	RS4E-0220-H	CT40	0.59	0.39	1.26	45	5/8-11	Yes	XRKW-0750
	RS4E-0228-H	CT40	0.74	0.49	0.64	45	5/8-11	Yes	XRKW-0750
	RS4E-0254-C	CT40	0.75	0.55	1.03	75	5/8-11	Yes	XRKW-0750
	RS5E-0203	CT45	0.81	0.56	1.20	90	3/4-10	No	-
	RS5E-0205	CT45	0.94	0.61	1.34	45	3/4-10	No	XRKW-1000
	RS5E-0205-C	CT45	0.94	0.61	1.34	45	3/4-10	Yes	XRKW-1000
	RB6E-0100	CT50	0.91	0.67	1.78	90	1-8	No	XRKW-0750
	RS6E-0101	CT50	0.94	0.71	1.23	90	1-8	No	XRKW-1187
	RS3E-0101-C	CT50	0.94	0.71	1.23	90	1-8	Yes	XRKW-1187
	RS6E-0102-C	CT50	0.95	0.70	2.48	0.22 R	1-8	Yes	XRKW-1250
	RS6E-0103-C	CT50	0.95	0.70	3.48	0.22 R	1-8	Yes	XRKW-1250
	RS6E-0204-C	CT50	1.14	0.82	1.00	45	1-8	Yes	XRKW-1187
	RS6E-0214-H	CT50	0.75	0.57	1.78	60	1-8	Yes	XRKW-1187
	RS6E-0232-H	CT50	0.90	0.66	1.78	45	1-8	Yes	XRKW-1187
	RS6E-0242-H	CT50	0.90	0.66	1.78	60	1-8	Yes	XRKW-1187

Domestic & Import Machines BT Taper	Part Number	Taper	D1	D2	L1	A	T	Thru Coolant	Wrench
	RB2M-0100	BT30	0.47	0.31	0.94	0.16 R	M12X1.75	No	-
	RS2M-0207-C	BT30	0.47	0.31	0.92	75	M12X1.75	Yes	-
	RB3M-0100	BT35	0.54	0.35	1.10	60	M12X1.75	No	-
	RB3M-0101	BT35	0.55	0.31	0.91	90	M12X1.75	No	-
	RS4M-0205	BT40	0.75	0.55	1.14	75	M16X2.0	No	XRKW-1250
	RS4M-0205-C	BT40	0.75	0.55	1.14	75	M16X2.0	Yes	XRKW-0750
	RS4M-0206	BT40	0.59	0.39	1.09	90	M16X2.0	No	XRKW-0750
	RS4M-0210	BT40	0.59	0.39	0.98	90	M16X2.0	No	XRKW-0750
	RS4M-0217-H	BT40	0.75	0.55	1.14	75	M16X2.0	No	XRKW-0750
	RS5M-0108-C	BT45	0.90	0.67	1.18	75	M20X2.5	Yes	XRKW-1000

Retention & Torque Wrenches

- ▶ Retention knob wrenches come with a drive square to adapt to a torque wrench, see retention knob part tables beginning on page 402 for proper wrench. See table below for retention knob torque values.

Torque Wrench Extension Effect Formula

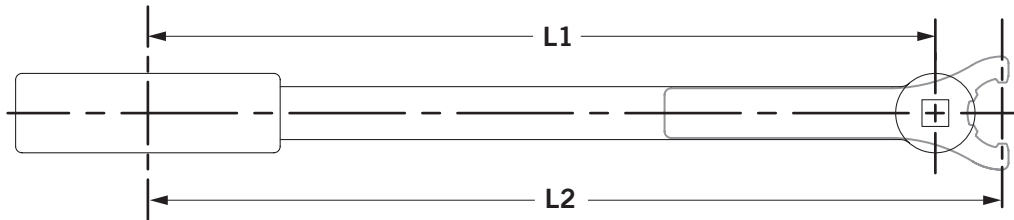
$$M2 = M1 \times L2/L1$$

L1 is the center line of the toolholder.

L2 is the centerline of the square hole.

M1 is the maximum recommended torque.


M2 is the actual torque applied to the collet nut.




Retention Knob Torque Values

Taper & Flange	Thread Size	Recommended ANSI Installation Torque (ft-lbs)
CT30	1/2 - 13	8
CT40	5/8 - 11	30
CT45	3/4 - 10	50
CT50	1 - 8	75
BT30	M12 - 1.75	8
BT35	M12 - 1.75	12
BT40	M16 - 2.0	30
BT45	M20 - 2.5	50
BT50	M24 - 3.0	75

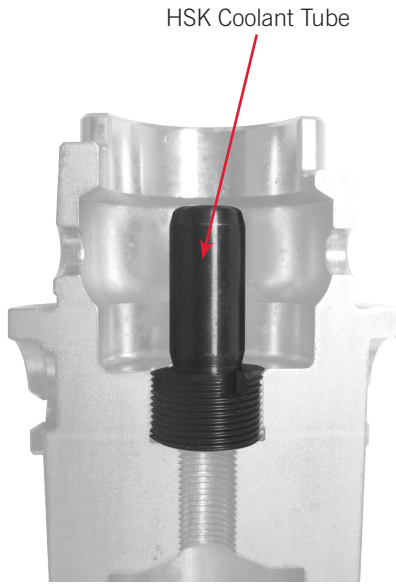
Retention & Torque Wrenches

Retention Knob Wrenches	Part Number	Drive Square	Distance Across Retention Knob Flats
	XRKW-1250	0.500	1.250
	XRKW-1187	0.500	1.187
	XRKW-1000	0.500	1.000
	XRKW-0750	0.375	0.750

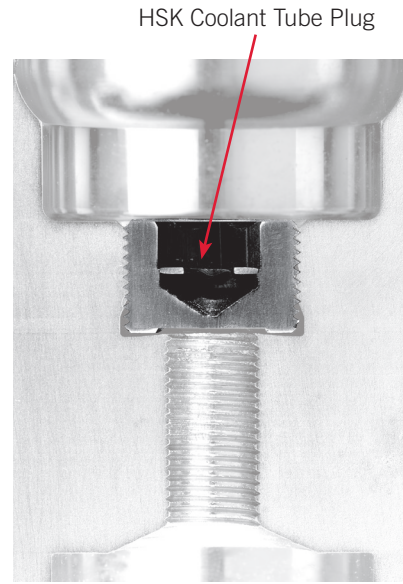
Torque Wrenches	Part Number	Drive Square	Torque Range (Ft-Lbs)
	XTQW-0045	0.375	5-45
	XTQW-0080	0.375	15-80
	XTQW-0150	0.500	30-150

HSK Accessories


- ▶ HSK accessories for making simple coolant adjustments to HSK toolholders.

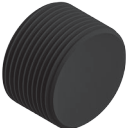



HSK Coolant Tube



HSK Coolant Tube Plug

HSK Coolant Tubes	Part Number	Taper	Description
	XSCCA0040	HSK40A	Compliant Coolant Tube
	XSCCA0050	HSK50A	Compliant Coolant Tube
	XSCCA0063	HSK63A	Compliant Coolant Tube
	XSCCA0100	HSK100A	Compliant Coolant Tube

HSK Coolant Tube Plugs	Part Number	Taper	Description
	XCHPA0040	HSK40A	Coolant Hole Plug
	XCHPA0050	HSK50A	Coolant Hole Plug
	XCHPA0063	HSK63A	Coolant Hole Plug
	XCHPA0100	HSK100A	Coolant Hole Plug

HSK Coolant Tube Wrenches	Part Number	Taper	Description
	XCTWA0040	HSK40A	Coolant Tube Wrench
	XCTWA0050	HSK50A	Coolant Tube Wrench
	XCTWA0063	HSK63A	Coolant Tube Wrench
	XCTWA0100	HSK100A	Coolant Tube Wrench

Tool Tags

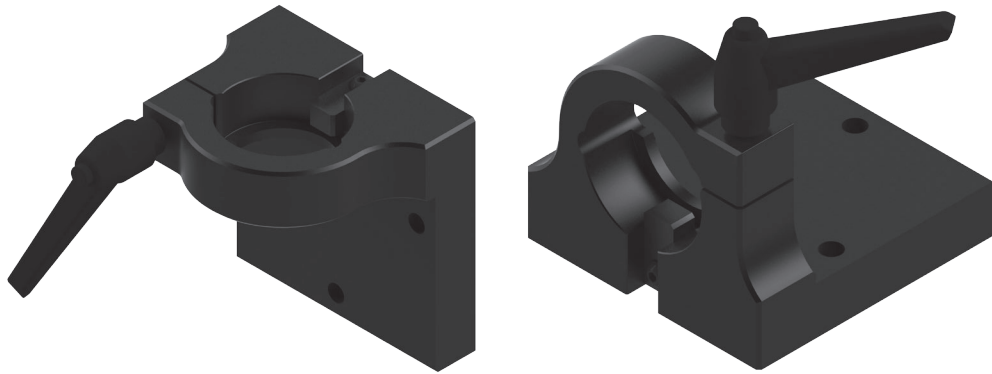
Reusable tool tags make toolholder labeling quick and easy. Tool tags stay in place by snapping onto the toolholder. Use grease pencil to write on tool tag, WD40 to remove writing for new application.



Tool Tags	Part Number	For Flange Style
	XCTT-0004	40 V-Flange & HSK63 - Packaged 20 per bag
	XCTT-0006	50 V-Flange & HSK100 - Packaged 20 per bag

Setup Holding Fixtures & Accessories

- ▶ Setup holding fixtures have precision machined internal bores that cradle flanges precisely. Vertical or horizontal mount fixtures have an open design for easy access to retention knobs, removable keylock for keyed or unkeyed use, and high torque split clamp with ratchet handle, mar-free grip. Bottom mount setup holding fixtures are extra long to accommodate leaving retention knobs in place, and are available in all tapers that fit both BT and CT flanges.




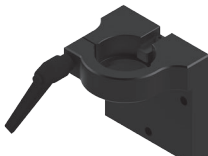
Setup holding fixture mounts either vertically or horizontally

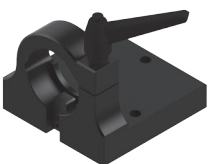



Bottom mount fixture drilled for two 3/8" diameter hold down socket head cap screws.

Setup Holding Fixtures & Accessories

Bottom Mount	Part Number	Taper	Hex	OAL	Key	Replacement Key
	XHDF-0002	30	3.0	3.41	0.625	XHDF-K004
	XHDF-0003	35	3.0	3.42	0.530	XHDF-K003
	XHDF-0004	40	3.0	4.15	0.625	XHDF-K004
	XHDF-0005	45	3.5	4.90	0.750	XHDF-K005
	XHDF-0006	50	4.0	5.85	1.000	XHDF-K006
	XHDF-0007	60	5.7	8.50	1.000	XHDF-K007

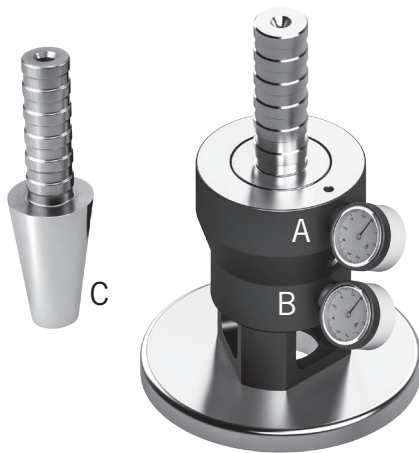
Vertical or Horizontal Mount CT & BT Taper	Part Number	Taper	Key	Replacement Key
	XFGF-0004	CT40	0.625	XFGF-K004
	XFGF-0006	CT50	0.530	XFGF-K006
	XFGF-00B2	BT30	0.625	XFGF-K0B2
	XFGF-00B3	BT35	0.531	XFGF-K0B2
	XFGF-00B4	BT40	0.625	XFGF-K0B2

Vertical or Horizontal Mount HSK Taper	Part Number	Taper
	XFGF-00H2	HSK40
	XFGF-00H3	HSK50
	XFGF-00H4	HSK63
	XFGF-00H6	HSK100

Replacement Parts	Part Number	Description
	XFGF-H000	Replacement handle for vertical or horizontal mount setup holding fixtures

Taper Check™ & Zero Master Edge Finder

- ▶ Maximize tool and spindle life by checking tool taper with the Taper Check™—quickly and easily detect any shank wear in seconds. The Zero Master Edge Finder helps increase productivity by eliminating calculation errors, and minimizing costly down time.



Easy To Use

1. Place the master shank (C) into the Taper Check™.
2. Adjust the two indicators (A) and (B) so they both read zero with the master shank.
3. Remove the setup taper/master shank.
4. Place the toolholder to be tested into the Taper Check™.
5. Take the reading from each indicator to find the difference between the two to detect shank wear.

Taper Check™

Taper Check™ detects tool shank wear in seconds, helping you to maximize tool life and spindle life.

Available for 40 and 50 taper toolholders. Includes (A) and (B) indicators with 0.0001" resolution. Durable construction using carbide locating pins and hardened tool steel body.

Comes with setup taper/master shank (C).

Toolholder can be tested with components assembled, works with retention knob installed.

Combine with System II™ Drawbar Dynamometer (page 418) to optimize the spindle-toolholder interface.

Quick And Easy To Use

1. Clamp into machine spindle (or electrode head).
2. Adjust T.I.R. to zero.
3. The digital readout indicates the distance between the spindle Axis and workpiece edge.

Zero Master Edge Finder

Increases productivity by eliminating calculation errors.

Can be used on any milling machine.

Also for use on EDM machines (with insulated probe).

Measures X, Y, or Z-axis.

Locates workpiece edges (from spindle center) or workpiece length.

Easy-to-read digital display in inch units.


Splash-proof, dust-proof unit can be stored in the machine tool carousel; ready for use.

Battery operated (3V Lithium) for up to 3,000 hours continuous operation.

Extended probe displacement range helps prevent damage.



Taper Check™

Taper Check™	Part Number	Taper
	XSIT-0040	40
	XSIT-0050	50

Zero Master Edge Finder

Zero Master Edge Finder	Part Number	Description
	XWEF-0001	Command Zero Master Edge Finder

Zero Master Replacement Parts	Part Number	Description
	XWEF-0001-5	Replacement Probe
	XWEF-0001-6	Optional Probe

System II™ Drawbar Dynamometer

- ▶ The System II™ Drawbar Dynamometer detects inadequate retention force in seconds without disassembling the drawbar. With modular components that fit most machining centers, the System II™ Drawbar Dynamometer ensures original machine performance; maximizing tool life, spindle life and system rigidity.



Simple Operation


Simply attach the taper adapter and retention knob adapter, screw in a retention knob, and install it in your spindle like an ordinary toolholder.


The load cell is stretched by the machine's drawbar. This stretch is measured electronically and is instantly displayed on the digital readout.

Spring deterioration or maladjustment can be detected in no time. No costly disassembly. No Machine downtime.

- + A simple three piece design allows you to quickly change tapers from BT30 up to CT50. The retention knob adapters accept standard retention knobs, allowing measurements to be taken on virtually any machining center. Reads pounds, kilonewtons, and kilograms.
- + Provides accurate drawbar force measurements on steep taper (CT, BT, DIN, etc.) and HSK machining centers. Verifies the machine's drawbar performance against the manufacturers' specifications.
- + Quickly identifies if retention force losses are at fault when poor surface finishes appear or when tool performance deteriorates.
- + A compact load cell with an electronic display and a family of taper adapters combine to make a single measuring unit that can service an entire machine shop employing a variety of machining centers.
- + Features standard 0-10,000 lb. range, large easy-to-read digital display, auto-off feature, and touch sensitive buttons sealed for dust-proof operation.
- + Operates on two 9 volt batteries for up to 1,000 hours continuous operation. Calibration data is stored on a non-volatile memory chip—no programming to enter, not data to remember.
- + Standard calibration is 0-10,000 lbs. Can be custom calibrated. Call Command Customer Service for quote.

System II™ Drawbar Dynamometer

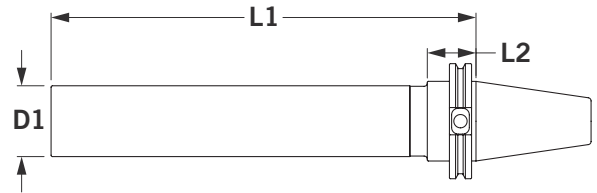
Dynamometer	Part Number	Description
	GDKT-0001	System II™ Adaptive Drawbar Dynamometer Kit: Dynamometer, Case, 30, 40, & 50 taper sleeves. CT and BT retention knob adapters - excludes HSK & DIN Adapters
	GDAT-0001	System II™ Adaptive Drawbar Dynamometer Kit: Dynamometer & carrying case. Adapters sold separately

Dynamometer Accessories	Part Number	Size
	XDTA-0002	30 Taper adapter sleeve
	XDTA-0003	35 Taper adapter sleeve
	XDTA-0004	40 Taper adapter sleeve
	XDTA-0005	45 Taper adapter sleeve
	XDTA-0006	50 Taper adapter sleeve
	XDFA-0040	HSK40A/E Flange adapter
	XDTA-0040	HSK40A/E Drawbar adapter
	XDFA-0050	HSK50A/HSK63F Flange adapter
	XDTA-0050	HSK50A/HSK63F Drawbar adapter
	XDFA-0063	HSK63A Flange adapter
	XDTA-0063	HSK63A Drawbar adapter
	XDFA-0100	HSK100A Flange adapter
	XDTA-0100	HSK100A Drawbar adapter
	XDNA-0006	NMTB50 adapter
	XDBA-0002	BT30 Retention knob adapter
	XDCA-0002	CT30 Retention knob adapter
	XDBA-0003	BT35 Retention knob adapter
	XDBA-0004	BT40 Retention knob adapter
	XDCA-0004	CT40 Retention knob adapter
	XDBA-0005	BT45 Retention knob adapter
	XDCA-0005	CT45 Retention knob adapter
	XDBA-0006	BT50 Retention knob adapter
	XDCA-0006	CT50 Retention knob adapter
	XDDA-0002	DIN69872 30 Taper retention knob adapter
	XDDA-0004	DIN69872 40 Taper retention knob adapter
	XDDA-0006	DIN69872 50 Taper retention knob adapter
	XDCS-0001	Replacement carrying case
	XDRP-0001	Retention knob pallet (optional) - For holding retention knobs inside case

CT Test Bars

- ▶ Our calibrated and certified precision test bars accurately align workpieces and/or holding fixtures. Test bars are hardened, normalized, and ground for reliable, permanent accuracy. Wooden storage case sold separately.

Nose specifications: Concentric to taper within .002" T.I.R.; Diameter within .0002" over the entire length.



CT Test Bars

CT40	Part Number	Taper	D1	L1
	C4W4-0004	CT40	2.00	10.00



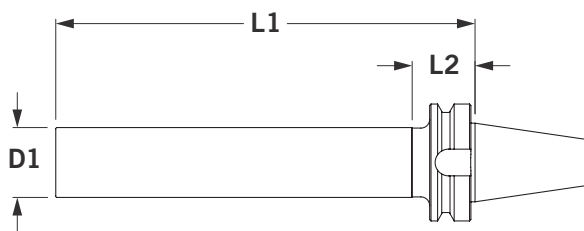
CT45	Part Number	Taper	D1	L1
	C5W4-0005	CT45	2.00	12.00



CT50	Part Number	Taper	D1	L1
	C6W4-0006	CT50	2.00	12.00



BT Test Bars



BT Test Bars

BT35	Part Number	Taper	D1	L1
	B3W4-0003	BT35	2.00	8.00



BT40	Part Number	Taper	D1	L1
	B4W4-0004	BT40	2.00	10.00



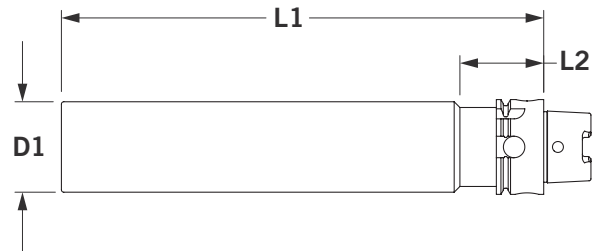
BT45	Part Number	Taper	D1	L1
	B5W4-0005	BT45	2.00	12.00



BT50	Part Number	Taper	D1	L1
	B6W4-0006	BT50	2.00	12.00



HSK Test Bars



HSK Test Bars

HSK40A/40E	Part Number	Taper	D1	L1
	H2W4A0002	HSK40A/40E	1.50	8.00



HSK50A/63F	Part Number	Taper	D1	L1
	H3W4A0003	HSK50A/63F	1.50	8.00



HSK63A	Part Number	Taper	D1	L1
	H4W4A0004	HSK63A	2.00	10.00




HSK100A	Part Number	Taper	D1	L1
	H6W4A0006	HSK100A	2.00	12.00





Storage Cases (All Tapers)

Storage Cases	Part Number	For Taper
	XTBC-0002	HSK40A/40E
	XTBC-0003	HSK50A/50E
	XTBC-0004	30/35/40/HSK63A
	XTBC-0006	45/50/HSK100A

Tool Carts

- ▶ Command Tooling Systems offers a wide range of tool organization and storage solutions. See page 414 for Command's setup holding fixtures.



ToolScoot (Tightening Fixture Sold Separately)

Quality and mobility at an affordable price with durable nylon inserts on both shelves to protect toolholders. Angled lower shelf for quick, easy access. Interlocking side panel for maximum stability. Includes two end storage trays with universal mounting holes for setup holding fixture. Heavy duty 5" x 1 1/4" casters load rated at 1,000 lbs. All steel painted with durable Ecolo-Clad in red and black.



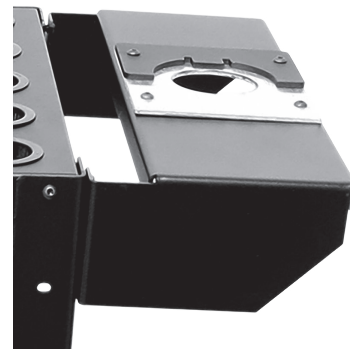
SuperScoot (Tightening Fixture Sold Separately)

Constructed of prime 12 gauge steel for rugged heavy duty use. Almost twice the storage capacity for less! New outrigger base design for improved stability; easier maneuverability for a safe, smooth ride. Heavy duty, extra smooth rolling casters load rated to 1,600 lbs. with locking caster mechanism. Phosphate pretreatment undercoating for additional toughness.




Econo-Kart™ (Tightening Fixture Sold Separately)


Heavy gauge steel construction—large ball bearing casters for smooth rolling. Shown with optional organizer rack in middle shelf position and optional tool tightening fixture. Total weight capacity of 1,000 lbs.




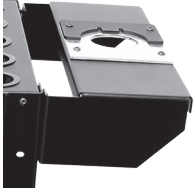
Optional Tool Tightening Fixture

Tool Carts

ToolScoot	Part Number	Description
	XCTH-S040	40 Taper, 48 Tool Capacity Cart, Standard Duty
	XCTH-S050	50 Taper, 36 Tool Capacity Cart, Standard Duty
	XCTH-S063	HSK63A , 48 Tool Capacity Cart, Standard Duty
	XCTH-S010	HSK100A , 36 Tool Capacity Cart, Standard Duty
	ToolScoot Dimensions: 18"W x 35.25"L x 35"H ToolScoot Weight: 79 lbs.	

SuperScoot	Part Number	Description
	XCTH-L040	40 Taper, 90 Tool Capacity Cart, Heavy Duty
	XCTH-L050	50 Taper, 52 Tool Capacity Cart, Heavy Duty
	XCTH-L063	HSK63A , 90 Tool Capacity Cart, Heavy Duty
	XCTH-L010	HSK100A , 52 Tool Capacity Cart, Heavy Duty
	SuperScoot Dimensions: 45.25"W x 17.5"L x 40"H (width includes handle & end tray) SuperScoot Weight: 132 lbs.	

Econo-Kart™	Part Number	Taper	Description
	XCRT-EK11	30 & 35	Holds 50 Tool Holders
	XCRT-EK01	40 & HSK63	Holds 50 Tool Holders
	XCRT-EK45	45	Holds 32 Tool Holders
	XCRT-EK07	50 & HSK100	Holds 32 Tool Holders
	XCRT-EK10		Optional organizer racks
	Econo-Kart™ Dimensions: 42"L x 40"W x 46"H Econo-Kart™ Weight: 160 lbs.		

Tool Tightening Fixture	Part Number	Taper
	XCRT-EK09	50
	XCRT-EK03	40

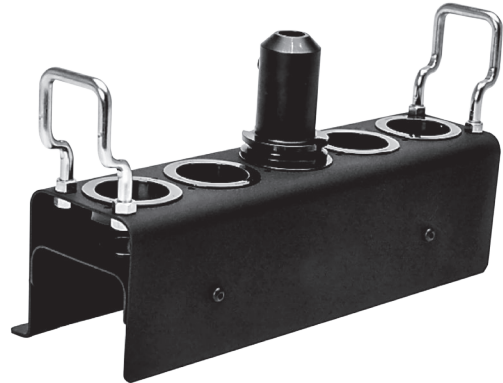
Tool Carts & Shelves

- ▶ Command Tooling Systems offers a wide range of tool organization and storage solutions. See page 414 for Command's Setup Holding Fixtures.



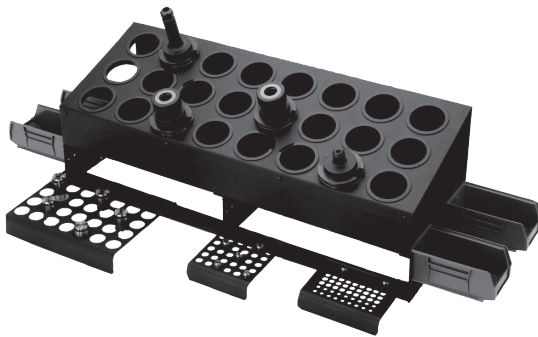
Tool Cart Base

Tool carts hold up to five toolholder rack modules in the front, plus collet rack and setup tool storage in the back and on top—connecting shelves can join two carts to create a setup work station. Comes with six plastic bins, caster and assembly hardware. Toolholder and Collet Rack modules stack on the shelf bars. Order racks separately to suit your needs.



Toolholder Racks for Tool Carts

Optional handles available: Set of 2 mar-free plastic inserts support toolholders, top and bottom.



Workbench Storage

Shown with optional Collet Racks (sold separately). Comes with four plastic side bins.



Collet Racks

Tool handling and storage system that keeps frequently used tool organized and mobile for quicker setups, yet with full access to coordinated shelf storage of remaining tools. Toolholder and Collet Rack modules are available with receptacles sized for all toolholder tapers or collet shapes and made to fit in both the tool cart and tool shelves—tools can be organized by size and/or by job.

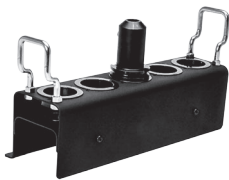
Tool Carts & Shelves

Tool Cart	Part Number	Description
	XCRT-BASE	Tool Cart Base

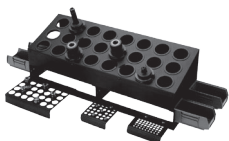


Tool Cart Dimensions: 37"L x 17 1/2"W x 34"H

Toolholder Racks for Tool Carts	Part Number	Dimensions	Taper	Hold Quantity	Optional Handle Set
	XCRT-R030	15.5" x 4.375" x 4.5"	30 & 35	6	XCRT-34HL
	XCRT-R040	15.5" x 4.375" x 4.5"	40	5	XCRT-34HL
	XCRT-R045	17" x 6" x 6.625"	45	4	XCRT-56HL
	XCRT-R050	17" x 6" x 6.625"	50	4	XCRT-56HL



Workbench Storage	Part Number	Taper	Hold Quantity
	XCDY-17-1	30 & 35	30
	XCDY-17-2	40	30
	XCDY-17-3-45	45	24
	XCDY-17-3-45	50	24



Workbench Storage Dimensions: 36"L x 12"W x 15"H

Collet Racks	Part Number	Dimension	Description
	XCRT-CRMP	12" x 10.625" x 2"	Holds 68 Micro Precision® collets
	XCRT-CR01	6" x 8" x 1.375"	Holds 36 DA10 Double Angle collets
	XCRT-CR02	7.25" x 6.625" x 1.375"	Holds 54 collets
	XCRT-CR03	12.125" x 14" x 2.375"	Holds 25 TG150 Complex® collets
	XCRT-CR04	12" x 10.625" x 2"	Holds 35 TG100 Complex® collets
	XCRT-CR05	10.75" x 8" x 1.5"	Holds 45 DA18 collets
	XCRT-CR11	6" x 8"	Holds 36 ER11 collets
	XCRT-CR16	6" x 8"	Holds 36 ER16 collets
	XCRT-CR20	6" x 8"	Holds 36 ER20 collets
	XCRT-CR25	12" x 10.5"	Holds 30 ER25 collets
	XCRT-CR32	12" x 10.5"	Holds 30 ER32 collets
	XCRT-CR40	12" x 10.5"	Holds 24 ER40 collets



Shelving

- ▶ Command Tooling Systems offers a wide range of tool organization and storage solutions. See page 414 for Command's Setup Holding Fixtures.



Shelving With Assembly Hardware

Steel shelving stores inactive tools organized by size and/or job—shelves available with receptacles for all toolholder tapers in both BT and CT Flange styles. Sturdy construction of heavy ten gauge steel legs with floor-bolt tabs and shelves with welded steel cross braces.

Shelves with toolholder receptacles include mar-free plastic inserts.

Order leg sets and individual shelves separately from table on page 429.

All shelving comes disassembled.

Stand alone units must be bolted to floor.

Replacement rings available, contact customer service.



Tool Caddy

Each Tool Caddy comes with your choice of 6 shelves, specify the shelves you need using table on page 429.

Large capacity 5" casters included (casters are the only assembly required).

Total weight capacity per unit: 2000 lbs.

Interchangeable shelving will accept CT-Flange, BT-Flange or HSK toolholders.

Shelves can be mounted on an angle or horizontally.


Made of heavy steel with welded construction.





Tool Rack w/Center Insert Option


Tool Rack comes with your choice of eight shelves

Shelving

Shelving With Assembly Hardware	Part Number	Taper	Hold Quantity
	XSHF-16-1	30 & 35	50
	XSHF-16-2	40	50
	XSHF-16-3-45	45	32
	XSHF-16-3	50	32
	XSHF-16-4	-	Plain Shelf

Shelving Legs	Part Number	Description
	XSHF-16-0	Set of 4 legs

Tool Caddy	Part Number	Description
	XCTC-BASE	Tool Caddy Base Unit with wheels & 6 shelves
	XCTC-RACK	Tool Rack Base unit with 8 shelves
	Tool Caddy Dimensions: 54"H x 29.125"W x 27.75"D	

Tool Rack Center Insert Option	Part Number	Description	Holes Per Shelf
	XCTC-IH40	HSK40A taper center insert	8
	XCTC-IH50	HSK50A/63F taper center insert	7
	XCTC-IN30	30 taper center insert	8
	XCTC-IN35	35 taper center insert	7
	XCTC-IN40	40 taper center insert	6
	XCTC-IN45	45 taper center insert	6
	XCTC-IN50	50 taper center insert	5
	XCTC-ING3	HSK63A center insert	6
	XCTC-I100	HSK100A center insert	5
	XCTC-INPN	Plain shelf center insert	0
Tool Rack Dimensions: 62"H x 29.125"W x 27.75" D			

Command Tooling Systems Terms Of Sale

Payment Terms - Payment terms are net 30 days from shipment, for customers of satisfactory credit. No shipments will be made to delinquent accounts.

Prices, Freight Terms, and Order Minimum- All prices are subject to change without notice. All products are shipped FOB Command Tooling Systems Ramsey, MN USA. There is no minimum order quantity on Standard Command parts. Custom or Made to Order parts have a minimum order requirement two parts.

Return Goods

1. To return a product, contact Command's Customer Service Department for a Returned Material Authorization (RMA) number.
2. Credit for returned product is good for use toward purchases only and must be used within 60 days of issuance, afterwards the credit will be null and void.
3. Be sure to include the RMA number on the return package for prompt processing.
4. Product may be returned for credit only upon prior approval from Command Tooling Systems and is subject to the following conditions:
 - a. Returns must be made within 60 days from date of factory shipment. All exchanges must be accompanied by an order of equal or greater value. Restocking charge of 15% will apply to returns that do not include orders of equal or greater value.
 - b. Product must be received in like-new saleable condition and of current manufacture.
 - c. Product must be returned complete. All returns are subject to inspection.
 - d. "M" Made to order, modified standard, and custom manufactured products are non- returnable.
 - e. ThermoLock® products that have been heated are non-returnable.
 - f. Return transportation charges must be prepaid.

Exchanging Purchased Parts – The replacement order must be of greater or equal value of the original order to the original customer to avoid the 15% restocking fee. Returned product must be in like-new saleable condition, and of current manufacture. To return product, contact Command's Customer Service Department for a Returned Material Authorization (RMA) number. A new Purchase Order for replacement order must be placed at the same time to avoid the 15% re-stocking fee. Returned product must have the RMA number on the return package for prompt processing.

Cancellation Fees for Custom Manufactured Parts – A cancellation fee applies to custom manufactured orders. The fee is 25% of the order amount or the cost of labor & materials at the time of cancellation, whichever is higher.

Damage Claims & Shipping Shortages - Command Tooling Systems assumes no responsibility for loss or damage in transit. The consignee should present claims for such damage to the carrier. Our terms of sales are FOB Command Tooling Systems, Ramsey, Minnesota USA. Shipping shortages must be reported to the factory within 5 business days after receipt of material.

Warranty - Our policy of 100% unconditionally guaranteed materials and workmanship assures your satisfaction. Command Tooling Systems' manufactured products are covered by our 100% satisfaction guarantee. Should they prove to be defective in materials or workmanship, simply contact the Customer Service Department to obtain a RMA number and shipping instructions. Warranty determined by Command Tooling Systems within 60 days of factory shipment.

Command Tooling Systems disclaims any and all warranties, either expressed or implied, arising by law or otherwise, including but not limited to non-infringement and implied warranties of merchantability or fitness for a particular purpose. Command Tooling Systems' liability, if any, is limited to and shall not exceed the amount paid for a defective part. In no event will Command Tooling Systems be liable for any indirect, special or consequential damages, including but not limited to: lost profits or lost revenues, even if Command Tooling Systems has been advised of the possibility of these damages.

Vision:

A premier tooling solutions company for precision machining.

Our Mission:

To advance precision machining productivity by providing the world's finest tools and tooling solutions faster than the competition through superior dealers and distributors supported by highly motivated and well-trained employees.

Command Quality:

The best in product, service, availability, and value. This is our foundation and our path to growth.

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