

# RedLine Toolholder Selection Guide

## BT30 Toolholders

Hydraulic Chucks.....	<a href="#"><u>549</u></a>
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## CAT40 Toolholders

Collet Chucks: ER11-ER40.....	<a href="#"><u>550-555</u></a>
Hydraulic Chucks.....	<a href="#"><u>556</u></a>
Shrink Fit with Coolant Ports.....	<a href="#"><u>557</u></a>
Endmill Holders.....	<a href="#"><u>558-559</u></a>
Facemill Holders.....	<a href="#"><u>560</u></a>
Tap Holders - Bilz Style.....	<a href="#"><u>561-562</u></a>
Stub Arbor Holders - Lock Screw / Lock Nut Styles.....	<a href="#"><u>563-564</u></a>
Probe Calibration Gage.....	<a href="#"><u>565</u></a>

## CAT50 Toolholders

Collet Chucks: ER16-ER40.....	<a href="#"><u>566-570</u></a>
Hydraulic Chucks.....	<a href="#"><u>571</u></a>
Shrink Fit with Coolant Ports.....	<a href="#"><u>572</u></a>
Endmill Holders.....	<a href="#"><u>573-574</u></a>
Facemill Holders.....	<a href="#"><u>575-576</u></a>
Tap Holders - Bilz Style.....	<a href="#"><u>577-578</u></a>
Stub Arbor Holders - Lock Screw / Lock Nut Styles.....	<a href="#"><u>579-580</u></a>
Probe Calibration Gage.....	<a href="#"><u>581</u></a>

## HSK63A Toolholders

Collet Chucks: ER16-ER40.....	<a href="#"><u>582-586</u></a>
Shrink Fit with Coolant Ports.....	<a href="#"><u>587</u></a>
Endmill Holders.....	<a href="#"><u>588</u></a>
Facemill Holders.....	<a href="#"><u>589</u></a>
Probe Calibration Gage.....	<a href="#"><u>590</u></a>

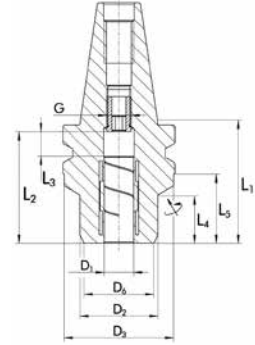
## Toolholder Accessories

Rego-Fix ER11-40 Collets.....	<a href="#"><u>591-602</u></a>
ER Small Tool Adapters for Milling, Boring and Sawing...	<a href="#"><u>603-606</u></a>
Hydraulic Chuck Sleeves.....	<a href="#"><u>607-608</u></a>
Bilz Tap Collets.....	<a href="#"><u>609</u></a>
Retention Knobs & Setup Fixtures.....	<a href="#"><u>610</u></a>
Shrink Fit Machines.....	<a href="#"><u>611-612</u></a>



**BT30 Hydraulic Chuck**  
(Balanced to G2.5@25,000 RPM)

- Used for milling, drilling, reaming and boring
- Concentric to .00012"
- Wide range of coolant sealed or coolant flush reduction sleeves available.
- Safe operating temp should be between 68-122 degrees Fahrenheit
- **Hydraulic Chuck Sleeves can be found on pages 607.**



**BT30 Hydraulic Chuck**

Bore ø D1	Shank	D2	D3	D6	L1	L2	Min Clamp Depth - L3	L4	L5	G	Part #
1/2	BT30	1.26	N/A	1.13	2.00	1.81	1.42	.77	1.18	M10x1	<a href="#">RB3HC05000200</a>

**Successful Use and Care for RedLine Hydraulic Chucks**

- RedLine hydraulic chucks can accept tools with a smooth cylindrical shank, weldon shank or a whistle notch without the use of reduction sleeves. Tools must have a H6 or better shank tolerance.
- To clamp a tool in the hydraulic chuck, turn the clamping screw with an allen key with 7-8.5 ft. lbs. torque completely to the limit stop. Never use a power screwdriver to turn the actuation screw!
- Testing of the clamping force should be done before the first use and after approximately 100 tool changes or every 3 months. A test shaft should be inserted at least to the minimum clamping depth into the toolholder. Tighten the clamping screw to a dead stop. If the test shaft can be easily removed from the toolholder manually and without any effort, the clamping force is not high enough. The hydraulic chuck shouldn't be used and sent in for repair.
- When using intermediate sleeves, they must be inserted completely into the hydraulic chuck, so the edge of the sleeve makes contact with the face of the hydraulic chuck. Failure to do this will result in poor run-out and lower grip force.
- \*Tools with weldon shanks or whistle notches influence balance and will affect the max rpm the tools can run.
- If tools are not clamped to minimum clamping depth there is a risk of damaging the expansion sleeve and will result in a loss of accuracy.
- The vent screw of the hydraulic system is protected with a pin or resin. Don't remove it!
- The axial length stop is set with an allen key via the length adjustment screw. There is 10MM (.394") adjustment. Never actuate the length adjustment screw when tools are clamped. Axial adjustment screws maximum tightening torque is 2.2 ft. lbs.

**Clamping / Unclamping**

- The tool shank must be burr-free and free of dirt.
- Always insert the tool down to the minimum clamping depth into the toolholder.
- Do not combine several extensions. The clamp screw is not secured against dropping out!
- Hydraulic Chucks must not be clamped without a tool or workpiece.

**Shanks to be used in hydraulic expansion toolholders**

- Type A with straight cylindrical shaft. Cylindrical shaft acc. to DIN 6535 HA and form A according to DIN 6535 part 1
- Type AB with one weldon flat cylinder shank form B according to DIN 1835 part 1 and DIN 6535 HB
- Type B with two weldon flats cylinder shank B according to DIN 1835 part 1
- Type E with whistle notch flat cylinder shank E according to DIN 1835 part 1 and DIN 6535 HE

**Care, Storage and Maintenance**

- For optimum clamping force, the clamping bore and groove must be cleaned after every tool change with a solvent.
- Before storage, oil the entire surface of the hydraulic chuck and store in an unclamped position.
- Warranty is void if repairs are by anyone other than RedLine Tools.
- It may be necessary to adjust and lubricate the actuation screw, especially with a high number of clamping cycles, high operating temperatures or where abrasive dirt or swarf are present. For optimum lubrication of the actuation screw, we are recommending the use of copper paste MOLYKOTE CU 7439 (100 g tube, Id.-No. 9247204).
- Adjustment range of the length adjustment: .394"
- Operating temperature: 68-122°F
- Max. coolant pressure: 1160 P.S.I.

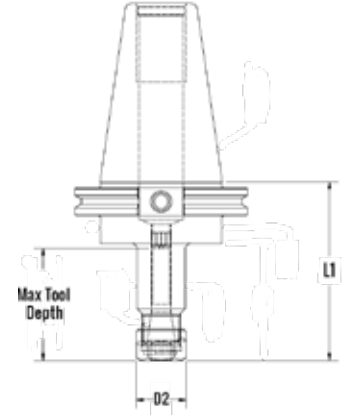
## Collet Chucks - ER11

### CAT40 & Straight Shank Collet Chucks - ER11

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER11 Collets found on page 591.**



#### CAT40 ER11 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0078-.2755	CAT40	.75	2.50	2.25	22 ft lbs	<a href="#">RC4ER11250Z</a>
.0078-.2755	CAT40	.75	4.00	2.25	22 ft lbs	<a href="#">RC4ER11400Z</a>
.0078-.2755	CAT40	.75	6.00	2.25	22 ft lbs	<a href="#">RC4ER11600Z</a>

Part numbers above include nosepiece

#### ER11 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.500	.62	6.65	12 ft lbs		<a href="#">RSSER110500665Z</a>
.625	.62	6.65	12 ft lbs		<a href="#">RSSER110625665Z</a>
.750	.62	6.65	12 ft lbs		<a href="#">RSSER110750665Z</a>

#### ER11 Parts & Accessories

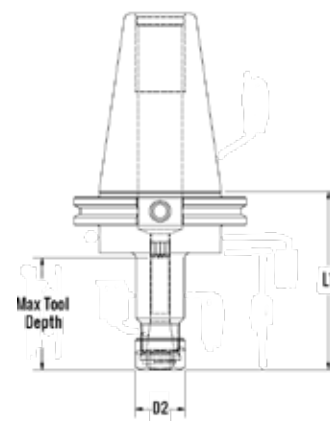
Description	Photo	Dimensions	Part #
ER11 Replacement Nosepiece		.75	<a href="#">RER11HNZ</a>
ER11 Open Hex Style Wrench 11/16"			<a href="#">RER11HWZ</a>
ER11 Stop Screw			<a href="#">RBS0312LHZ</a>
ER11 Slimline Nut		.62	<a href="#">RER11SNZ</a>
ER11 Slimline Wrench 9/16"			<a href="#">RER11SNWZ</a>

### CAT40 & Straight Shank Collet Chucks - ER16

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER16 Collets found on pages 592 and 593.**



#### CAT40 ER16 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0200-.3930	CAT40	1.10	2.50	2.25	42 ft lbs	<a href="#">RC4ER16250Z</a>
.0200-.3930	CAT40	1.10	3.00	2.50	42 ft lbs	<a href="#">RC4ER16300Z</a>
.0200-.3930	CAT40	1.10	4.00	2.50	42 ft lbs	<a href="#">RC4ER16400Z</a>
.0200-.3930	CAT40	1.10	5.00	2.50	42 ft lbs	<a href="#">RC4ER16500Z</a>
.0200-.3930	CAT40	1.10	8.00	2.50	42 ft lbs	<a href="#">RC4ER16800Z</a>

#### ER16 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.10	5.50	42 ft lbs		<a href="#">RSSER160750550Z</a>
.750	1.10	7.50	42 ft lbs		<a href="#">RSSER160750750Z</a>
.750	.86	7.10	20 ft lbs		<a href="#">RSSER160750710Z</a>

#### ER16 Parts & Accessories

Description	Photo	Dimensions	Part #
ER16 Replacement Nosepiece		1.10	<a href="#">RER16HNZ</a>
ER16 Open Hex Style Wrench 15/16"			<a href="#">RER16HWZ</a>
ER16 Stop Screw			<a href="#">RBS0437LHZ</a>
ER16 Slimline Nut		.86	<a href="#">RER16SNZ</a>
ER16 Slimline Wrench 3/4"			<a href="#">RER16SNWZ</a>

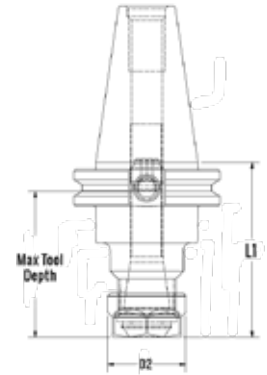
## Collet Chucks - ER20

### CAT40 & Straight Shank Collet Chucks - ER20

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER20 Collets found on pages 594 and 595.**



### CAT40 ER20 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.5110	CAT40	1.34	3.00	2.50	59 ft lbs	<a href="#">RC4ER20300Z</a>
.0400-.5110	CAT40	1.34	4.00	3.50	59 ft lbs	<a href="#">RC4ER20400Z</a>
.0400-.5110	CAT40	1.34	6.00	3.50	59 ft lbs	<a href="#">RC4ER20600Z</a>
.0400-.5110	CAT40	1.34	8.00	3.50	59 ft lbs	<a href="#">RC4ER20800Z</a>

### ER20 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.34	7.20	59 ft lbs		<a href="#">RSSER200750720Z</a>
1.000	1.10	7.20	22 ft lbs		<a href="#">RSSER201000720Z</a>

### ER20 Parts & Accessories

Description	Photo	Dimensions	Part #
ER20 Replacement Nosepiece			<a href="#">RER20HNZ</a>
ER20 Open Hex Wrench 1-1/8"			<a href="#">RER20HWZ</a>
ER20 Stop Screw			<a href="#">RBS0562LHZ</a>
ER20 Slimline Nut			<a href="#">RER20SNZ</a>
ER20 Slimline Wrench 15/16"			<a href="#">RER16HWZ</a>

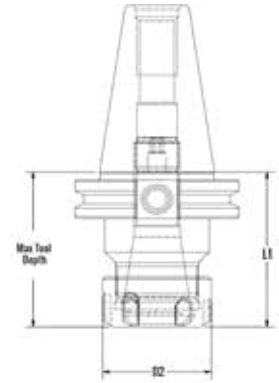
Toolholders

## CAT40 & Straight Shank Collet Chucks - ER25


(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER25 Collets found on pages [596](#) and [597](#).**



CAT40 ER25 Collet Chucks						
Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.6299	CAT40	1.65	2.50	2.50	77 ft lbs	<a href="#">RC4ER25250Z</a>
.0400-.6299	CAT40	1.65	4.00	3.50	77 ft lbs	<a href="#">RC4ER25400Z</a>
.0400-.6299	CAT40	1.65	6.00	3.50	77 ft lbs	<a href="#">RC4ER25600Z</a>

ER25 Straight Shank Collet Extensions					
A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.65	5.31	77 ft lbs		<a href="#">RSSER250750531Z</a>

ER25 Parts & Accessories			
Description	Photo	Dimensions	Part #
ER25 Replacement Nosepiece			<a href="#">RER25NZ</a>
ER25 Fixed Spanner Wrench			<a href="#">RER25SWZ</a>
ER25 Stop Screw			<a href="#">RBS0687LHZ</a>

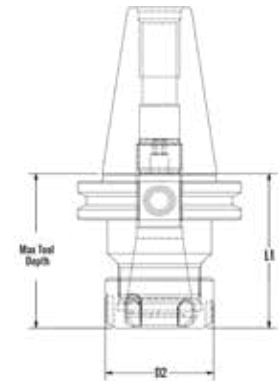
## Collet Chucks - ER32



### CAT40 & Straight Shank Collet Chucks - ER32

(Balanced to G2.5@25,000 RPM)

- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER32 Collets found on pages 598 and 599.**



CAT40 ER32 Collet Chucks						
Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.7870	CAT40	1.97	2.36	2.50	100 ft lbs	<a href="#">RC4ER32236Z</a>
.0400-.7870	CAT40	1.97	3.00	3.00	100 ft lbs	<a href="#">RC4ER32300Z</a>
.0400-.7870	CAT40	1.97	4.00	3.50	100 ft lbs	<a href="#">RC4ER32400Z</a>
.0400-.7870	CAT40	1.97	6.00	3.50	100 ft lbs	<a href="#">RC4ER32600Z</a>
.0400-.7870	CAT40	1.97	8.00	3.50	100 ft lbs	<a href="#">RC4ER32800Z</a>

ER32 Straight Shank Collet Extensions					
A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
1.000	1.97	4.25	100 ft lbs		<a href="#">RSSER321000425Z</a>
1.250	1.97	8.05	100 ft lbs		<a href="#">RSSER321250805Z</a>

ER32 Parts & Accessories			
Description	Photo	Dimensions	Part #
ER32 Replacement Nosepiece			<a href="#">RER32NZ</a>
ER32 Fixed Spanner Wrench			<a href="#">RER32SWZ</a>
ER32 Stop Screw			<a href="#">RBS0812LHZ</a>

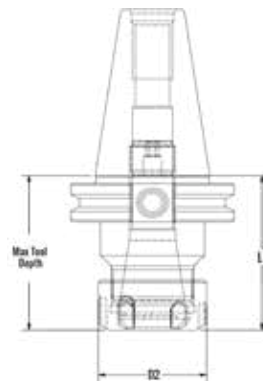
Toolholders



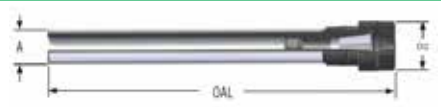
### CAT40 & Straight Shank Collet Chucks - ER40

(Balanced to G2.5@25,000 RPM)

- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER40 Collets found on pages [600-602](#).**



CAT40 ER40 Collet Chucks						
Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.1181-1.1875	CAT40	2.48	4.00	4.00	130 ft lbs	<a href="#">RC4ER40400Z</a>
.1181-1.1875	CAT40	2.48	6.00	4.00	130 ft lbs	<a href="#">RC4ER40600Z</a>

ER40 Straight Shank Collet Extension						
A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #	
1.250	2.48	4.85	130 ft lbs		<a href="#">RSSER401250485Z</a>	

ER40 Parts & Accessories			
Description	Photo	Dimensions	Part #
ER40 Replacement Nosepiece			<a href="#">RER40NZ</a>
ER40 Fixed Spanner Wrench			<a href="#">RER40SWZ</a>
ER40 Stop Screw			<a href="#">RBS1250LHZ</a>



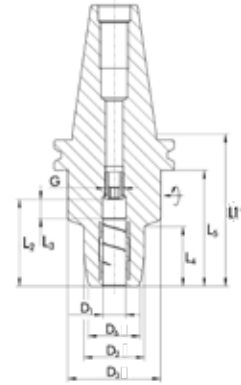
## Hydraulic Chucks



### CAT40 Hydraulic Chucks

(Balanced to G2.5@25,000 RPM)

- Used for milling, drilling, reaming and boring
- Concentric to .00012"
- Wide range of coolant sealed or coolant flush reduction sleeves available.
- Safe operating temp should be between 68-122 degrees Fahrenheit
- **Hydraulic Chuck Sleeves can be found on pages 607 and 608.**



### CAT40 Hydraulic Chucks

Bore ø D1	Shank	D2	D3	D6	L1	L2	Min Clamp Depth - L3	L4	L5	G	Part #
1/2	CAT40	1.26	1.93	1.19	2.50	1.81	1.42	.97	1.75	M10x1	<a href="#">RC4HC05000250</a>
1/2	CAT40	1.26	1.93	1.19	4.00	1.81	1.42	.97	3.25	M10x1	<a href="#">RC4HC05000400</a>
3/4	CAT40	1.75	2.36	1.71	2.50	2.01	1.61	.91	1.75	M12x1	<a href="#">RC4HC07500250</a>
3/4	CAT40	1.75	1.93	1.57	4.00	1.99	1.59	1.70	3.25	M12x1	<a href="#">RC4HC07500400</a>

#### Successful Use and Care for RedLine Hydraulic Chucks

- RedLine hydraulic chucks can accept tools with a smooth cylindrical shank, weldon shank or a whistle notch without the use of reduction sleeves. Tools must have a H6 or better shank tolerance.
- To clamp a tool in the hydraulic chuck, turn the clamping screw with an allen key with 7-8.5 ft. lbs. torque completely to the limit stop. Never use a power screwdriver to turn the actuation screw!
- Testing of the clamping force should be done before the first use and after approximately 100 tool changes or every 3 months. A test shaft should be inserted at least to the minimum clamping depth into the toolholder. Tighten the clamping screw to a dead stop. If the test shaft can be easily removed from the toolholder manually and without any effort, the clamping force is not high enough. The hydraulic chuck shouldn't be used and sent in for repair.
- When using intermediate sleeves, they must be inserted completely into the hydraulic chuck, so the edge of the sleeve makes contact with the face of the hydraulic chuck. Failure to do this will result in poor run-out and lower grip force.
- \*Tools with weldon shanks or whistle notches influence balance and will affect the max rpm the tools can run.
- If tools are not clamped to minimum clamping depth there is a risk of damaging the expansion sleeve and will result in a loss of accuracy.
- The vent screw of the hydraulic system is protected with a pin or resin. Don't remove it!
- The axial length stop is set with an allen key via the length adjustment screw. There is 10MM (.394") adjustment. Never actuate the length adjustment screw when tools are clamped. Axial adjustment screws maximum tightening torque is 2.2 ft. lbs.

#### Clamping / Unclamping

- The tool shank must be burr-free and free of dirt.
- Always insert the tool down to the minimum clamp depth into the toolholder.
- Do not combine several extensions. The clamping screw is not secured against dropping out!
- Hydraulic Chucks must not be clamped without a tool or workpiece.

#### Shanks To Be Used in Hydraulic Expansion Toolholders

- Type A with straight cylindrical shaft. Cylindrical shaft acc. to DIN 6535 HA and form A according to DIN 6535 part 1
- Type AB with one weldon flat cylinder shank form B according to DIN 1835 part 1 and DIN 6535 HB
- Type B with two weldon flats cylinder shank B according to DIN 1835 part 1
- Type E with whistle-notch flat cylinder shank E according to DIN 1835 part 1 and DIN 6535 HE

#### Care, Storage and Maintenance

- For optimum clamping force, the clamping bore and groove must be cleaned after every tool change with a solvent.
- Before storage, oil the entire surface of the hydraulic chuck and store in an unclamped position.
- Warranty is void if repairs are by anyone other than RedLine Tools.
- It may be necessary to adjust and lubricate the actuation screw, especially with a high number of clamping cycles, high operating temperatures or where abrasive dirt or swarf are present. For optimum lubrication of the actuation screw, we are recommending the use of copper paste MOLYKOTE CU 7439 (100 g tube, Id.-No. 9247204).
- Adjustment range of the length adjustment: .394"
- Operating temperature: 68-122°F
- Max. coolant pressure: 1160 P.S.I.

## CAT40 Shrink Fit with Coolant Ports

(Balanced to G2.5 @ 25,000 RPM)

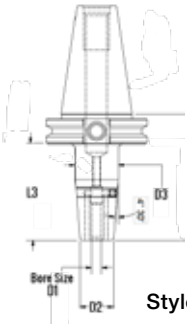


Style 2

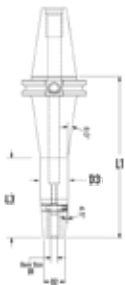


Style 3

- Concentric to .0001" TIR for increased cutting tool life
- 2 Angled ports direct coolant to cutting area
- Gage lengths match international standards
- AT3 or better shank taper allows for accurate, rigid tool holder-spindle mount
- Made from H13 tool steel for superior rigidity and maximum grip for extended longevity
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance



Style 2



Style 3

### CAT40 Shrink Fit Holders with Coolant Ports

Taper	Bore Size	Style	D2	D3	L1	L3	Part #
CAT40	1/4	2	.83	1.06	3.15	2.40	<a href="#">RC4SFCT20250315Z</a>
CAT40	1/4	2	.83	1.06	5.12	4.37	<a href="#">RC4SFCT20250512Z</a>
CAT40	1/4	3	.83	1.06	6.30	3.15	<a href="#">RC4SFCT30250630Z</a>
CAT40	5/16	2	.83	1.06	3.15	2.40	<a href="#">RC4SFCT20312315Z</a>
CAT40	5/16	2	.83	1.06	5.12	4.37	<a href="#">RC4SFCT20312512Z</a>
CAT40	5/16	3	.83	1.06	6.30	3.15	<a href="#">RC4SFCT30312630Z</a>
CAT40	3/8	2	.94	1.26	3.15	2.40	<a href="#">RC4SFCT20375315Z</a>
CAT40	3/8	2	.94	1.26	5.12	4.37	<a href="#">RC4SFCT20375512Z</a>
CAT40	3/8	3	.94	1.26	6.30	3.15	<a href="#">RC4SFCT30375630Z</a>
CAT40	1/2	2	.94	1.26	3.15	2.40	<a href="#">RC4SFCT20500315Z</a>
CAT40	1/2	2	.94	1.26	5.12	4.37	<a href="#">RC4SFCT20500512Z</a>
CAT40	1/2	3	.94	1.26	6.30	3.15	<a href="#">RC4SFCT30500630Z</a>
CAT40	5/8	2	1.06	1.34	3.15	2.40	<a href="#">RC4SFCT20625315Z</a>
CAT40	5/8	2	1.06	1.34	5.12	4.37	<a href="#">RC4SFCT20625512Z</a>
CAT40	5/8	3	1.06	1.34	6.30	3.15	<a href="#">RC4SFCT30625630Z</a>
CAT40	3/4	2	1.30	1.65	3.15	2.40	<a href="#">RC4SFCT20750315Z</a>
CAT40	3/4	2	1.30	1.65	5.12	4.37	<a href="#">RC4SFCT20750512Z</a>
CAT40	3/4	2	1.30	1.65	6.30	3.15	<a href="#">RC4SFCT20750630Z</a>
CAT40	1	2	1.73	2.09	3.94	2.92	<a href="#">RC4SFCT21000394Z</a>
CAT40	1	2	1.73	2.09	5.12	4.37	<a href="#">RC4SFCT21000512Z</a>
CAT40	1	2	1.73	2.09	6.30	3.15	<a href="#">RC4SFCT21000630Z</a>
CAT40	1-1/4	2	1.73	2.09	3.94	2.92	<a href="#">RC4SFCT21250394Z</a>
CAT40	1-1/4	2	1.73	2.09	5.12	4.37	<a href="#">RC4SFCT21250512Z</a>
CAT40	1-1/4	2	1.73	2.09	6.30	3.15	<a href="#">RC4SFCT21250630Z</a>



Shrink fit machines found on pages 611-612.

### CAT40 Shrink Fit Stop Screws

Bore Size	Thread	Hex	Length	Photo	Part #
1/4	M5x.8	2.5 mm	.630		<a href="#">RSFSS250Z</a>
5/16	M6X1	3 mm	.630		<a href="#">RSFSS312Z</a>
3/8	M8x1	4 mm	.630		<a href="#">RSFSS375Z</a>
1/2	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
9/16	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
5/8	M12X1	6 mm	.787		<a href="#">RSFSS625Z</a>
3/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1-1/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>

## Endmill Holders



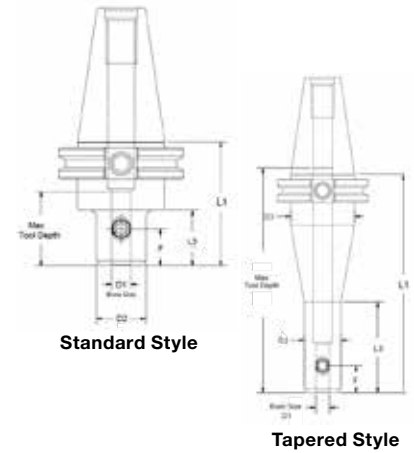
Standard Style

Tapered Style

### CAT40 Endmill Holders

(Balanced to G6.3@15,000 RPM)

- Holders through 1.000" accept double end cutters saving on tool costs
- Fine thread screws match weldon flats - lock tight, stay tight
- H5 bore tolerance. H5 is an extremely accurate bore I.D. and provides improved T.I.R. to .0002" for extended cutting tool life.
- Taper ground to AT3 or better for accurate, rigid toolholder-to-spindle mount
- Less tool wear and replacement means less scrap
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance



Standard Style

Tapered Style

### CAT40 Endmill Holders - Fractional


Taper	Bore Size - D1	D2	L1	L3	Style	F	Set Screw Qty (Distance Apart)	Max Tool Depth	Part #
CAT40	1/8	.69	1.75	-	Std.	.38	1	3.00	<a href="#">RC4EM0125175Z</a>
CAT40	1/8	.69	2.50	-	Std.	.38	1	3.80	<a href="#">RC4EM0125250Z</a>
CAT40	1/8	1.00	3.00	-	Std.	.38	1	3.00	<a href="#">RC4EM0125300Z</a>
CAT40	3/16	.69	1.75	-	Std.	.38	1	3.00	<a href="#">RC4EM0187175Z</a>
CAT40	3/16	.69	2.50	-	Std.	.38	1	3.80	<a href="#">RC4EM0187250Z</a>
CAT40	3/16	1.00	3.00	-	Std.	.38	1	3.00	<a href="#">RC4EM0187300Z</a>
CAT40	1/4	.88	1.75	-	Std.	.38	1	3.00	<a href="#">RC4EM0250175Z</a>
CAT40	1/4	.88	2.50	-	Std.	.38	1	3.80	<a href="#">RC4EM0250250Z</a>
CAT40	1/4	1.00	3.00	-	Std.	.38	1	3.00	<a href="#">RC4EM0250300Z</a>
CAT40	1/4	1.00	6.00	2.50	Taper	.38	1	3.80	<a href="#">RC4EM0250600Z</a>
CAT40	5/16	1.00	1.75	-	Std.	.44	1	3.00	<a href="#">RC4EM0312175Z</a>
CAT40	5/16	1.00	2.50	-	Std.	.44	1	3.80	<a href="#">RC4EM0312250Z</a>
CAT40	5/16	1.00	6.00	3.00	Taper	.44	1	3.80	<a href="#">RC4EM0312600Z</a>
CAT40	3/8	1.00	1.75	-	Std.	.63	1	3.00	<a href="#">RC4EM0375175Z</a>
CAT40	3/8	1.00	2.50	-	Std.	.75	1	3.80	<a href="#">RC4EM0375250Z</a>
CAT40	3/8	1.00	4.50	1.00	Taper	.75	1	3.80	<a href="#">RC4EM0375450Z</a>
CAT40	3/8	1.00	6.00	2.50	Taper	.75	1	3.80	<a href="#">RC4EM0375600Z</a>
CAT40	7/16	1.25	2.62	-	Std.	.75	1	3.80	<a href="#">RC4EM0437262Z</a>
CAT40	1/2	1.75	1.75	-	Std.	.88	1	3.00	<a href="#">RC4EM0500175Z</a>
CAT40	1/2	1.25	2.62	-	Std.	.88	1	3.80	<a href="#">RC4EM0500262Z</a>
CAT40	1/2	1.25	4.62	-	Std.	.88	1	3.80	<a href="#">RC4EM0500462Z</a>
CAT40	1/2	1.25	6.00	3.00	Taper	.88	1	3.12	<a href="#">RC4EM0500600Z</a>
CAT40	9/16	1.25	2.62	-	Std.	.88	1	2.05	<a href="#">RC4EM0562262Z</a>
CAT40	5/8	1.75	1.75	-	Std.	.94	1	2.24	<a href="#">RC4EM0625175Z</a>
CAT40	5/8	1.50	2.75	-	Std.	.94	1	3.62	<a href="#">RC4EM0625275Z</a>
CAT40	5/8	1.50	6.00	-	Std.	.94	1	3.31	<a href="#">RC4EM0625600Z</a>
CAT40	3/4	1.75	1.75	-	Std.	.94	1	2.37	<a href="#">RC4EM0750175Z</a>
CAT40	3/4	1.75	3.50	-	Std.	1.00	1	3.94	<a href="#">RC4EM0750350Z</a>
CAT40	3/4	1.75	6.00	-	Std.	.94	1	3.94	<a href="#">RC4EM0750600Z</a>
CAT40	7/8	1.90	1.75	-	Std.	1.00	1	2.38	<a href="#">RC4EM0875175Z</a>
CAT40	7/8	1.88	3.75	-	Std.	1.00	2 (.81")	4.25	<a href="#">RC4EM0875375Z</a>
CAT40	1	2.00	1.75	-	Std.	1.00	1	2.38	<a href="#">RC4EM1000175Z</a>
CAT40	1	2.00	3.00	-	Std.	1.00	2 (.81")	3.00	<a href="#">RC4EM1000300Z</a>



## CAT40 Endmill Holders - Fractional

Taper	Bore Size - D1	D2	L1	L3	Style	F	Set Screw Qty (Distance Apart)	Max Tool Depth	Part #
CAT40	1	2.00	4.00	-	Std.	1.13	2 (1")	4.50	<a href="#">RC4EM1000400Z</a>
CAT40	1	2.00	6.00	-	Std.	1.13	2 (1")	4.50	<a href="#">RC4EM1000600Z</a>
CAT40	1-1/4	2.25	2.00	-	Std.	1.13	2 (1")	2.38	<a href="#">RC4EM1250200Z</a>
CAT40	1-1/4	2.50	4.00	-	Std.	1.13	2 (1")	3.75	<a href="#">RC4EM1250400Z</a>
CAT40	1-1/4	2.50	6.00	-	Std.	1.13	2 (1")	3.75	<a href="#">RC4EM1250600Z</a>
CAT40	1-1/2	2.62	4.00	-	Std.	1.13	2 (1")	2.38	<a href="#">RC4EM1500400Z</a>
CAT40	1-1/2	2.62	4.62	-	Std.	1.13	2 (1")	2.38	<a href="#">RC4EM1500462Z</a>
CAT40	1-1/2	2.62	6.00	-	Std.	1.13	2 (1")	2.38	<a href="#">RC4EM1500600Z</a>

## Endmill Holder Replacement Lock Screws

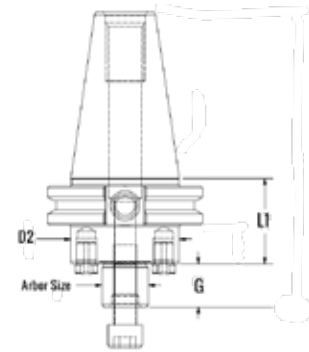
Holder Size	Screw Thread Size	Length	Max Torque	Photo	Part #
1/8	10-32	.25	3 ft lbs		<a href="#">REMLS0125Z</a>
3/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0187Z</a>
1/4	1/4-28	.25	7 ft lbs		<a href="#">REMLS0250Z</a>
5/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0312Z</a>
3/8	3/8-24	.31	13 ft lbs		<a href="#">REMLS0375Z</a>
7/16	3/8-24	.31	13 ft lbs		<a href="#">REMLS0437Z</a>
1/2	7/16-20	.38	19 ft lbs		<a href="#">REMLS0500Z</a>
9/16	7/16-20	.38	19 ft lbs		<a href="#">REMLS0562Z</a>
5/8	9/16-18	.43	31 ft lbs		<a href="#">REMLS0625Z</a>
3/4	5/8-18	.50	45 ft lbs		<a href="#">REMLS0750Z</a>
7/8	5/8-18	.50	48 ft lbs		<a href="#">REMLS0875Z</a>
1	3/4-16	.50	69 ft lbs		<a href="#">REMLS1000Z</a>
1-1/4	3/4-16	.62	69 ft lbs		<a href="#">REMLS1250Z</a>
1-1/2	3/4-16	.62	69 ft lbs		<a href="#">REMLS1500Z</a>
2	1-14	.88	80 ft lbs		<a href="#">REMLS2000Z</a>
2-1/2	1-14	.88	80 ft lbs		<a href="#">REMLS2500Z</a>

## Facemill Holders



### CAT40 Facemill Holders



- Arbor pilot TIR <.0002"
- Compatible with all facemills
- Constructed of alloy steel
- Hardened to 56-60 Rc for long service life



### CAT40 Facemill Holders


Taper	Arbor Size	D2	L1	G	Part #
CAT40	3/4	1.75	1.38	.69	<a href="#">RC4SM0750138Z</a>
CAT40	3/4	1.75	1.50	.69	<a href="#">RC4SM0750150Z</a>
CAT40	3/4	1.75	2.00	.69	<a href="#">RC4SM0750200Z</a>
CAT40	3/4	1.75	4.00	.69	<a href="#">RC4SM0750400Z</a>
CAT40	1	2.25	1.00	.69	<a href="#">RC4SM1000100Z</a>
CAT40	1	2.25	2.00	.69	<a href="#">RC4SM1000200Z</a>
CAT40	1	2.25	4.00	.69	<a href="#">RC4SM1000400Z</a>
CAT40	1-1/4	2.75	1.62	.69	<a href="#">RC4SM1250162Z</a>
CAT40	1-1/4	2.75	2.25	.69	<a href="#">RC4SM1250225Z</a>
CAT40	1-1/4	2.75	4.00	.69	<a href="#">RC4SM1250400Z</a>
CAT40	1-1/2	3.75	2.40	.94	<a href="#">RC4SM1500240Z</a>
CAT40	1-1/2	3.75	4.00	.94	<a href="#">RC4SM1500400Z</a>

### Facemill Holder Replacement Lock Screws

Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Dimensions	Part #
3/4	.56	.38	1.37	3/8-24	5/16	45 ft lbs			<a href="#">RSMLS0750Z</a>
1	1.19	.28	1.12	1/2-20	5/16	60 ft lbs			<a href="#">RSMLS1000Z</a>
1-1/4	1.50	.50	1.44	5/8-18	5/16	70 ft lbs			<a href="#">RSMLS1250Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs			<a href="#">RSMLS1500Z</a>
3/4	.88	.38	.97	3/8-24	1/4	45 ft lbs			<a href="#">RSMLSC0750Z</a>
1	1.19	.28	1.20	1/2-20	5/16	60 ft lbs			<a href="#">RSMLSC1000Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs			<a href="#">RSMLSC1500Z</a>

\*Coolant Thru Option

### Facemill Holder Replacement Socket Head Cap Screws

Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Part #
3/4	.56	.37	1.37	3/8-24	5/16	45 ft lbs		<a href="#">RSMCS0750Z</a>
1	.75	.50	1.75	1/2-20	3/8	60 ft lbs		<a href="#">RSMCS1000Z</a>
1-1/4	.94	.62	1.87	5/8-18	1/2	70 ft lbs		<a href="#">RSMCS1250Z</a>
3/4	.56	.37	1.37	1/2-20	5/16	45 ft lbs		<a href="#">RSMCSC0750Z</a>
1	.75	.50	1.75	3/8-24	3/8	60 ft lbs		<a href="#">RSMCSC1000Z</a>

\*Coolant Thru Option

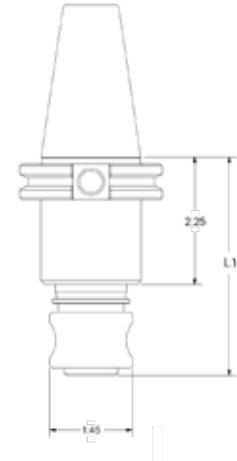
### Facemill Holder Replacement Drive Keys

Arbor Size	A	B	C	Photo	Dimensions	Part #
3/4	.31	.52	.16			<a href="#">RSMKD0750Z</a>
1	.38	.67	.19			<a href="#">RSMKD1000Z</a>
1-1/4	.50	.86	.25			<a href="#">RSMKD1250Z</a>
1-1/2	.62	1.04	.31			<a href="#">RSMKD1500Z</a>

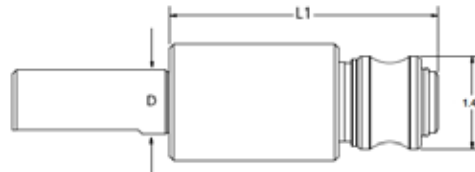


### CAT40 & Straight Shank Bilz Style #1

- From 0-9/16" standard and 1/16"-1/8" NPT
- For use with popular Bilz style #1 adapters
- Rigid for use with synchronous tapping cycles
- Radial float improves thread quality and tap life
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- **Bilz Style #1 Collets can be found on page 609.**



CAT40 Bilz Style #1 Tap Holders					
Taper	Collet Size	Compression	Tension	L1	Part #
CAT40	Bilz #1	0 - .250	.56	3.96	<a href="#">RC4THT01396Z</a>
CAT40	Bilz #1	Rigid	Rigid	3.96	<a href="#">RC4THR01396Z</a>



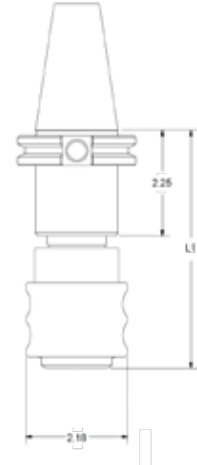
Straight Shank Bilz Style #1 Tap Holders					
Diameter (D)	Collet Size	Compression	Tension	L1	Part #
1.00	Bilz #1	Rigid	Rigid	4.21	<a href="#">RTHSSR0110421Z</a>

## Tap Holders - Bilz Style #2

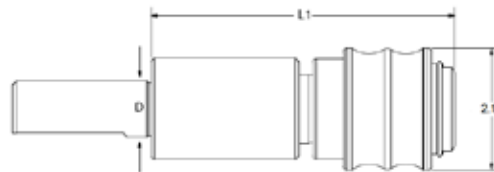


### CAT40 & Straight Shank Bilz Style #2

- From 5/16"-7/8" standard and 1/4"-1/2" NPT
- For use with popular Bilz style #2 adapters
- Rigid for use with synchronous tapping cycles
- Radial float improves thread quality and tap life
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- **Bilz Style #2 Collets can be found on page 609.**



CAT40 Bilz Style #2 Tap Holders					
Taper	Collet Size	Compression	Tension	L1	Part #
CAT40	Bilz #2	0 - .250	.56	5.06	<a href="#">RC4THT02425Z</a>
CAT40	Bilz #2	Rigid	Rigid	3.86	<a href="#">RC4THR02386Z</a>

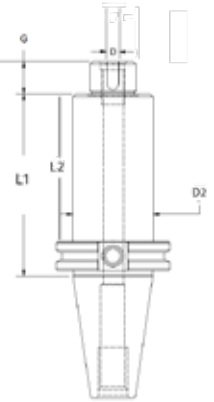


Straight Shank Bilz Style #2 Tap Holders					
Diameter (D)	Collet Size	Compression	Tension	L1	Part #
1.00	Bilz #2	0 - .250	.56	5.46	<a href="#">RTHSST0210546Z</a>
1.00	Bilz #2	Rigid	Rigid	5.46	<a href="#">RTHSSR0210546Z</a>
1.25	Bilz #2	0 - .250	.56	5.46	<a href="#">RTHSST02125546Z</a>



### CAT40 Stub Arbor Holders - Lock Screw Style

- Face is perpendicular to center line within .0002"
- Pilot diameter is sized for precision fit with cutter and is keyed for positive drive
- Heavy duty lock screw and three arbor spacers are included - 1/4", 3/8", 3/4"



### CAT40 Stub Arbor Holders - Lock Screw Style

Taper	Pilot Dia	D2	L1	L2	D	G	Part #
CAT40	1.00	1.75	4.00	3.25	.25	.72	<a href="#">RC4T2SAH1000400Z</a>
CAT40	1.25	1.75	4.00	3.25	.31	.72	<a href="#">RC4T2SAH1250400Z</a>
CAT40	1.50	2.12	4.00	3.25	.37	.98	<a href="#">RC4T2SAH1500400Z</a>

Part numbers above include drive key and nut

### CAT40 Stub Arbor Holder Components

Description	Part #
Drive key for 1" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21000Z</a>
Lock screw for 1" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1000Z</a>
Drive key for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21250Z</a>
Lock screw for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1250Z</a>
Drive key for 1.50" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21500Z</a>
Lock screw for 1.50" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1500Z</a>

### CAT40 Stub Arbor Holder Spacers

Pilot Diameter	Description	Part #
1" Pilot Diameter	1/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000125Z</a>
	1/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000250Z</a>
	3/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000375Z</a>
	3/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000750Z</a>
1.25" Pilot Diameter	1/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500125Z</a>
	1/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500250Z</a>
	3/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500375Z</a>
	3/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500750Z</a>
1.50" Pilot Diameter	1/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000125Z</a>
	1/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000250Z</a>
	3/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000375Z</a>
	1/2" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000500Z</a>
	3/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000750Z</a>

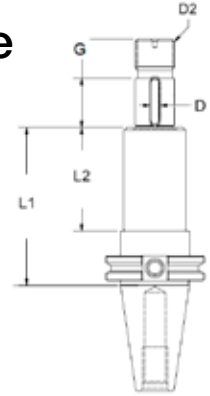


## Stub Arbor Holders



### CAT40 Stub Arbor Holders - Lock Nut Style

- Pilot thread is ground concentric to the tapered shank
- Face is perpendicular to center line within .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"



### CAT40 Stub Arbor Holders - Lock Nut Style

Taper	Pilot Dia	D2	L1	L2	D	G	Part #
CAT40	1.00	1.56	4.00	2.62	.25	1.25	<a href="#">RC4T1SAH1000400Z</a>
CAT40	1.25	1.88	4.00	2.45	.31	1.25	<a href="#">RC4T1SAH1250400Z</a>

Part numbers above include drive key and nut

### CAT40 Stub Arbor Holder Components

Description	Part #
Drive key for 1.00" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT11000Z</a>
Lock nut for 1.00" Diameter Pilot Stub Arbor Holder	<a href="#">RSAN1000Z</a>
Drive key for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT11250Z</a>
Lock nut for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSAN1250Z</a>

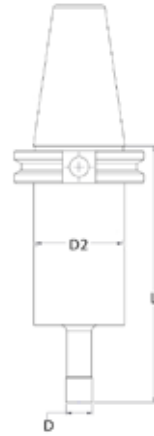
### CAT40 Stub Arbor Holder Spacers

Pilot Diameter	Description	Part #
1" Pilot Diameter	1/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000125Z</a>
	1/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000250Z</a>
	3/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000375Z</a>
	3/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000750Z</a>
1.25" Pilot Diameter	1/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500125Z</a>
	1/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500250Z</a>
	3/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500375Z</a>
	3/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500750Z</a>



## CAT40 Probe Calibration Gage

- Works on all CAT40 spindle machines
- This tool is to be used as a standard for gage length and diameter
- Can be used to calibrate your table tool probe
- Can be kept in tool changer for periodic probe calibration
- All critical tool holder surfaces precision ground
- Made from alloy steel hardened to 54-56rc
- Individual calibration certificate is included with each tool holder
- Concentricity of gage diameter is .0001" or less



CAT40 Probe Calibration Gage				
Taper	D	D2	L	Part #
CAT40	.500	1.63	5.00	<a href="#">RC4CA0500500Z</a>

### Calibration Certificate

PART NUMBER: [RC4CA0500500](#)

PART NAME: CAT40 CALIBRATION PROBE

SERIAL NUMBER: SN-7353

Diameter (D) Dimension: 0.5007"

Length (L) Dimension: 5.0030"

Calibrated by: *Jake E. Casagrate*

Date: 1/9/2024

Temperature: 68°F (20°C)

Humidity: 17.0 %

**RedLine Tools**  
PERFORMANCE MATTERS

RedLine Tools: 15150 25th Avenue North  
Plymouth (Mpls.), MN 55447 • (800) 791-7542  
[www.redlinetools.com](http://www.redlinetools.com) • [support@redlinetools.com](mailto:support@redlinetools.com)

The adapter covered by this certification has been calibrated with equipment or compared with master reference standards traceable to the National Institute of Standards and Technology (NIST), Washington D.C. Outside diameter & gage line length measurements within +/- .00006"

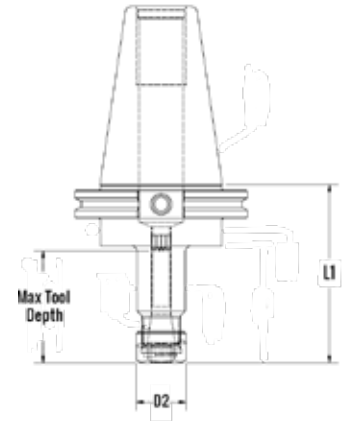
## Collet Chucks - ER16

### CAT50 & Straight Shank Collet Chucks - ER16

(Balanced to G2.5@20,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER16 Collets found on pages 592 and 593.**



### CAT50 ER16 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0200-.3930	CAT50	1.10	4.00	2.50	42 ft lbs	<a href="#">RC5ER16400Z</a>
.0200-.3930	CAT50	1.10	6.00	2.50	42 ft lbs	<a href="#">RC5ER16600Z</a>
.0200-.3930	CAT50	1.10	8.00	2.50	42 ft lbs	<a href="#">RC5ER16800Z</a>
.0200-.3930	CAT50	1.10	10.00	2.50	42 ft lbs	<a href="#">RC5ER161000Z</a>

### ER16 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.10	5.50	42 ft lbs		<a href="#">RSSER160750550Z</a>
.750	1.10	7.50	42 ft lbs		<a href="#">RSSER160750750Z</a>
.750	.86	7.00	20 ft lbs		<a href="#">RSSER160750710Z</a>

### ER16 Parts & Accessories

Description	Photo	Dimensions	Part #
ER16 Replacement Nosepiece			<a href="#">RER16HNZ</a>
ER16 Open Hex Style Wrench 15/16"			<a href="#">RER16HWZ</a>
ER16 Stop Screw			<a href="#">RBS0437LHZ</a>
ER16 Slimline Nut			<a href="#">RER16SNZ</a>
ER16 Slimline Wrench 3/4"			<a href="#">RER16SNWZ</a>

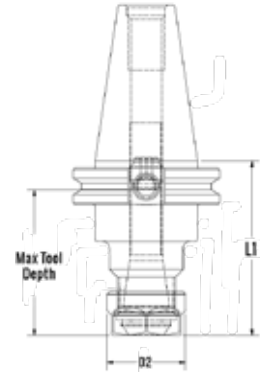
Toolholders

## CAT50 & Straight Shank Collet Chucks - ER20

(Balanced to G2.5@20,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER20 Collets found on pages [594](#) and [595](#).**



### CAT50 ER20 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.5110	CAT50	1.34	4.00	2.50	59 ft lbs	<a href="#">RC5ER20400Z</a>
.0400-.5110	CAT50	1.34	6.00	3.88	59 ft lbs	<a href="#">RC5ER20600Z</a>
.0400-.5110	CAT50	1.34	8.00	3.88	59 ft lbs	<a href="#">RC5ER20800Z</a>

### ER20 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.34	7.20	59 ft lbs		<a href="#">RSSER200750720Z</a>
1.000	1.10	7.20	22 ft lbs		<a href="#">RSSER201000720Z</a>

### ER20 Parts & Accessories

Description	Photo	Dimensions	Part #
ER20 Replacement Nosepiece			<a href="#">RER20HNZ</a>
ER20 Open Hex Wrench 1-1/8"			<a href="#">RER20HWZ</a>
ER20 Stop Screw			<a href="#">RBS0562LHZ</a>
ER20 Slimline Nut			<a href="#">RER20SNZ</a>
ER20 Slimline Wrench 15/16"			<a href="#">RER16HWZ</a>

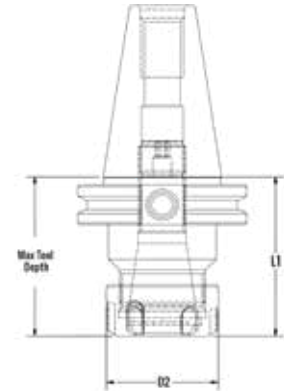
## Collet Chucks - ER25



### CAT50 & Straight Shank Collet Chucks - ER25

(Balanced to G2.5@20,000 RPM)

- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER25 Collets found on pages 596 and 597.**



### CAT50 ER25 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.6299	CAT50	1.65	4.00	4.00	77 ft lbs	<a href="#">RC5ER25400Z</a>
.0400-.6299	CAT50	1.65	6.00	4.00	77 ft lbs	<a href="#">RC5ER25600Z</a>
.0400-.6299	CAT50	1.65	8.00	4.00	77 ft lbs	<a href="#">RC5ER25800Z</a>
.0400-.6299	CAT50	1.65	10.00	4.00	77 ft lbs	<a href="#">RC5ER251000Z</a>

### ER25 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.65	5.81	77 ft lbs		<a href="#">RSSER250750581Z</a>
1.000	1.65	5.31	77 ft lbs		<a href="#">RSSER251000531Z</a>

### ER25 Parts & Accessories

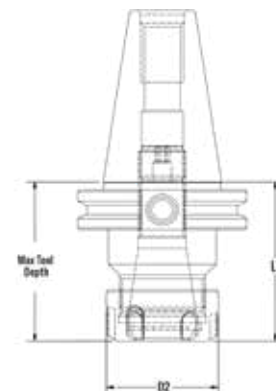
Description	Photo	Dimensions	Part #
ER25 Replacement Nosepiece			<a href="#">RER25NZ</a>
ER25 Fixed Spanner Wrench			<a href="#">RER25SWZ</a>
ER25 Stop Screw			<a href="#">RBS0687LHZ</a>

**CAT50 & Straight Shank Collet Chucks - ER32**

(Balanced to G2.5@20,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER32 Collets found on pages 598-599.**



**CAT50 ER32 Collet Chucks**

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.7870	CAT50	1.97	4.00	3.88	100 ft lbs	<a href="#">RC5ER32400Z</a>
.0400-.7870	CAT50	1.97	6.00	3.88	100 ft lbs	<a href="#">RC5ER32600Z</a>
.0400-.7870	CAT50	1.97	8.00	3.88	100 ft lbs	<a href="#">RC5ER32800Z</a>
.0400-.7870	CAT50	1.97	10.00	3.88	100 ft lbs	<a href="#">RC5ER321000Z</a>

**ER32 Straight Shank Collet Extensions**

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
1.000	1.97	4.25	100 ft lbs		<a href="#">RSSER321000425Z</a>
1.250	1.97	8.05	100 ft lbs		<a href="#">RSSER321250805Z</a>

**ER32 Parts & Accessories**

Description	Photo	Dimensions	Part #
ER32 Replacement Nosepiece			<a href="#">RER32NZ</a>
ER32 Fixed Spanner Wrench			<a href="#">RER32SWZ</a>
ER32 Stop Screw			<a href="#">RBS0812LHZ</a>

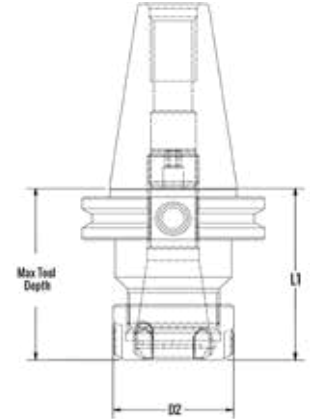
## Collet Chucks - ER40

### CAT50 & Straight Shank Collet Chucks - ER40

(Balanced to G2.5@20,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- AT3 or better shank taper allows for accurate, rigid toolholder-to-spindle mount
- Wide range collets reduce collet and toolholder inventories
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance
- Through spindle coolant standard
- **ER40 Collets found on pages [600-602](#).**



CAT50 ER40 Collet Chucks						
Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.1181-1.1875	CAT50	2.48	4.00	4.10	130 ft lbs	<a href="#">RC5ER40400Z</a>
.1181-1.1875	CAT50	2.48	6.00	4.10	130 ft lbs	<a href="#">RC5ER40600Z</a>
.1181-1.1875	CAT50	2.48	8.00	4.10	130 ft lbs	<a href="#">RC5ER40800Z</a>
.1181-1.1875	CAT50	2.48	10.00	4.10	130 ft lbs	<a href="#">RC5ER401000Z</a>

ER40 Straight Shank Collet Extension					
A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
1.250	2.48	4.85	130 ft lbs		<a href="#">RSSER401250485Z</a>

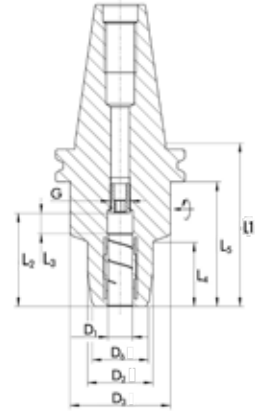
ER40 Parts & Accessories			
Description	Photo	Dimensions	Part #
ER40 Replacement Nosepiece			<a href="#">RER40NZ</a>
ER40 Fixed Spanner Wrench			<a href="#">RER40SWZ</a>
ER40 Stop Screw			<a href="#">RBS1250LHZ</a>



## CAT50 Hydraulic Chucks

(Balanced to G2.5@25,000 RPM)

- Used for milling, drilling, reaming and boring
- Concentric to .00012"
- Wide range of coolant sealed or coolant flush reduction sleeves available.
- Safe operating temp should be between 68-122 degrees Fahrenheit
- **Hydraulic Chuck Sleeves can be found on pages 607-608.**



### CAT50 Hydraulic Chucks

Bore ø D1	Shank	D2	D3	D6	L1	L2	Min Clamp Depth - L3	L4	L5	G	Part #
3/4	CAT50	1.75	1.93	1.58	3.19	1.99	1.59	1.73	2.44	M12x1	<a href="#">RC5HC07500320</a>
1-1/4	CAT50	2.44	3.15	2.18	3.19	2.38	1.99	1.50	2.44	M12x1	<a href="#">RC5HC12500320</a>

#### Successful Use and Care for RedLine Hydraulic Chucks

- RedLine Hydraulic Chucks can accept tools with a smooth cylindrical shank, weldon shank or a whistle notch without the use of reduction sleeves. Tools must have a H6 or better shank tolerance.
- To clamp a tool in the hydraulic chuck, turn the clamping screw with an allen key with 7-8.5 ft. lbs. torque completely to the limit stop. Never use a power screwdriver to turn the actuation screw!
- Testing of the clamping force should be done before the first use and after approximately 100 tool changes or every 3 months. A test shaft should be inserted at least to the minimum shank depth into the toolholder. Tighten the clamping screw to a dead stop. If the test shaft can be easily removed from the toolholder manually and without any effort, the clamping force is not high enough. The hydraulic chuck shouldn't be used and sent in for repair.
- When using intermediate sleeves, they must be inserted completely into the hydraulic chuck, so the edge of the sleeve makes contact with the face of the hydraulic chuck. Failure to do this will result in poor run-out and lower grip force.
- \*Tools with weldon shanks or whistle notches influence balance and will affect the max rpm the tools can run.
- If tools are not clamped to minimum clamping depth there is a risk of damaging the expansion sleeve and will result in a loss of accuracy.
- The vent screw of the hydraulic system is protected with a pin or resin. Don't remove it!
- The axial length stop is set with an allen key via the length adjustment screw. There is 10MM (.394") adjustment. Never actuate the length adjustment screw when tools are clamped. Axial adjustment screws maximum tightening torque is 2.2 ft. lbs.

#### Clamping / Unclamping

- The tool shank must be burr-free and free of dirt.
- Always insert the tool down to the minimum clamping depth into the toolholder.
- Do not combine several extensions. The clamping screw is not secured against dropping out!
- Hydraulic Chucks must not be clamped without a tool or workpiece.

#### Shanks to be used in hydraulic expansion toolholders

- Type A with straight cylindrical shaft. Cylindrical shaft acc. to DIN 6535 HA and form A according to DIN 6535 part 1
- Type AB with one weldon flat cylinder shank form B according to DIN 1835 part 1 and DIN 6535 HB
- Type B with two weldon flats cylinder shank B according to DIN 1835 part 1
- Type E with whistle-notch flat cylinder shank E according to DIN 1835 part 1 and DIN 6535 HE

#### Care, Storage and Maintenance

- For optimum clamping force, the clamping bore and groove must be cleaned after every tool change with a solvent.
- Before storage, oil the entire surface of the hydraulic chuck and store in an unclamped position.
- Warranty is void if repairs are by anyone other than RedLine Tools.
- It may be necessary to adjust and lubricate the actuation screw, especially with a high number of clamping cycles, high operating temperatures or where abrasive dirt or swarf are present. For optimum lubrication of the actuation screw, we are recommending the use of copper paste MOLYKOTE CU 7439 (100 g tube, Id.-No. 9247204).
- Adjustment range of the length adjustment: .394"
- Operating temperature: 68-122°F
- Max. coolant pressure: 1160 P.S.I.



## Shrink Fit Holders with Coolant Ports



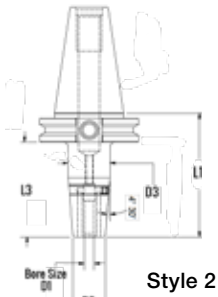
Style 2

Style 3

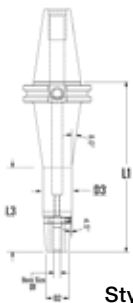
### CAT50 Shrink Fit with Coolant Ports

(Balanced to G2.5@25,000 RPM)

- Concentric to .0001" TIR for increased cutting tool life
- 2 Angled ports direct coolant to cutting area
- Gage lengths match international standards
- AT3 or better shank taper allows for accurate, rigid toolholder-spindle mount
- Made from H13 tool steel for superior rigidity and maximum grip for extended longevity
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance



Style 2



Style 3

### CAT50 Shrink Fit Holders with Coolant Ports

Taper	Bore Size - D1	Style	D2	D3	L1	L3	Part #
CAT50	1/4	2	.83	1.06	3.15	2.40	<a href="#">RC5SFCT20250315Z</a>
CAT50	1/4	2	.83	1.06	5.12	4.37	<a href="#">RC5SFCT20250512Z</a>
CAT50	1/4	3	.83	1.06	6.30	3.15	<a href="#">RC5SFCT30250630Z</a>
CAT50	5/16	2	.83	1.06	3.15	2.40	<a href="#">RC5SFCT20312315Z</a>
CAT50	5/16	2	.83	1.06	5.12	4.37	<a href="#">RC5SFCT20312512Z</a>
CAT50	5/16	3	.83	1.06	6.30	3.15	<a href="#">RC5SFCT30312630Z</a>
CAT50	3/8	2	.94	1.26	3.15	2.40	<a href="#">RC5SFCT20375315Z</a>
CAT50	3/8	2	.94	1.26	5.12	4.37	<a href="#">RC5SFCT20375512Z</a>
CAT50	3/8	3	.94	1.26	6.30	3.15	<a href="#">RC5SFCT30375630Z</a>
CAT50	1/2	2	.94	1.26	3.15	2.40	<a href="#">RC5SFCT20500315Z</a>
CAT50	1/2	2	.94	1.26	5.12	4.37	<a href="#">RC5SFCT20500512Z</a>
CAT50	1/2	3	.94	1.26	6.30	3.15	<a href="#">RC5SFCT30500630Z</a>
CAT50	5/8	2	1.06	1.34	3.15	2.40	<a href="#">RC5SFCT20625315Z</a>
CAT50	5/8	2	1.06	1.34	5.12	4.37	<a href="#">RC5SFCT20625512Z</a>
CAT50	5/8	3	1.06	1.34	6.30	3.15	<a href="#">RC5SFCT30625630Z</a>
CAT50	3/4	2	1.30	1.65	3.15	2.40	<a href="#">RC5SFCT20750315Z</a>
CAT50	3/4	2	1.30	1.65	5.12	4.37	<a href="#">RC5SFCT20750512Z</a>
CAT50	3/4	3	1.30	1.65	6.30	3.15	<a href="#">RC5SFCT30750630Z</a>
CAT50	1	2	1.73	2.09	3.94	3.19	<a href="#">RC5SFCT21000394Z</a>
CAT50	1	2	1.73	2.09	5.12	4.37	<a href="#">RC5SFCT21000512Z</a>
CAT50	1	2	1.73	2.09	6.30	3.15	<a href="#">RC5SFCT21000630Z</a>
CAT50	1-1/4	2	1.73	2.09	3.94	3.19	<a href="#">RC5SFCT21250394Z</a>
CAT50	1-1/4	2	1.73	2.09	5.12	4.37	<a href="#">RC5SFCT21250512Z</a>
CAT50	1-1/4	2	1.73	2.09	6.30	3.15	<a href="#">RC5SFCT21250630Z</a>



Shrink fit machines found on pages 611-612.

### CAT50 Shrink Fit Stop Screws

Bore Size	Thread	Hex	Length	Photo	Part #
1/4	M5x.8	2.5 mm	.630		<a href="#">RSFSS250Z</a>
5/16	M6X1	3 mm	.630		<a href="#">RSFSS312Z</a>
3/8	M8x1	4 mm	.630		<a href="#">RSFSS375Z</a>
1/2	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
9/16	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
5/8	M12X1	6 mm	.787		<a href="#">RSFSS625Z</a>
3/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1-1/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>

### CAT50 Endmill Holders

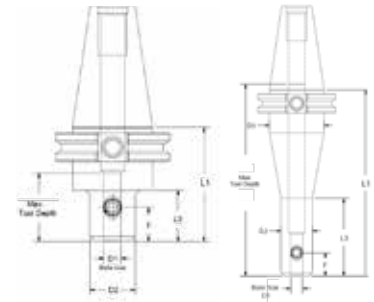
(Balanced to G6.3@15,000 RPM)



Standard Style

Tapered Style

- Holders through 1.000" accept double end cutters saving on tool costs
- Fine thread screws match weldon flats - lock tight, stay tight
- H5 bore tolerance. H5 is an extremely accurate bore I.D. and provides improved T.I.R. to .0002" for extended cutting tool life.
- Taper ground to AT3 or better for accurate, rigid toolholder-to-spindle mount
- Less tool wear and replacement means less scrap
- Fully ground flange and V-groove is easy on tool changers for less spindle and changer maintenance



Standard Style

Tapered Style

### CAT50 Endmill Holders - Fractional

Taper	Bore Size - D1	D2	L1	L3	Style	F	Set Screw Qty (Distance Apart)	Max Tool Depth	Part #
CAT50	3/16	.69	2.50	-	Std.	.38	1	3.80	<a href="#">RC5EM0187250Z</a>
CAT50	1/4	.88	2.50	-	Std.	.38	1	3.00	<a href="#">RC5EM0250250Z</a>
CAT50	1/4	.88	4.50	-	Std.	.38	1	3.00	<a href="#">RC5EM0250450Z</a>
CAT50	5/16	1.00	2.50	-	Std.	.44	1	3.00	<a href="#">RC5EM0312250Z</a>
CAT50	5/16	1.00	4.50	-	Std.	.44	1	3.00	<a href="#">RC5EM0312450Z</a>
CAT50	3/8	1.00	2.50	-	Std.	.75	1	3.00	<a href="#">RC5EM0375250Z</a>
CAT50	3/8	1.00	4.50	-	Std.	.75	1	3.00	<a href="#">RC5EM0375450Z</a>
CAT50	3/8	1.00	6.50	-	Std.	.75	1	3.00	<a href="#">RC5EM0375650Z</a>
CAT50	3/8	1.00	8.00	3.00	Taper	.75	1	3.00	<a href="#">RC5EM0375800Z</a>
CAT50	1/2	1.25	2.62	-	Std.	.88	1	3.00	<a href="#">RC5EM0500262Z</a>
CAT50	1/2	1.25	4.62	-	Std.	.88	1	5.00	<a href="#">RC5EM0500462Z</a>
CAT50	1/2	1.25	6.62	-	Std.	.88	1	5.00	<a href="#">RC5EM0500662Z</a>
CAT50	1/2	1.25	8.00	3.13	Taper	.88	1	5.00	<a href="#">RC5EM0500800Z</a>
CAT50	5/8	1.50	3.75	-	Std.	.94	1	3.50	<a href="#">RC5EM0625375Z</a>
CAT50	5/8	1.50	5.75	-	Std.	.94	1	3.50	<a href="#">RC5EM0625575Z</a>
CAT50	5/8	1.50	7.75	4.25	Taper	.94	1	3.50	<a href="#">RC5EM0625775Z</a>
CAT50	3/4	2.75	1.63	-	Std.	1.00	1	4.00	<a href="#">RC5EM0750163Z</a>
CAT50	3/4	1.75	3.75	-	Std.	1.00	1	4.00	<a href="#">RC5EM0750375Z</a>
CAT50	3/4	1.75	5.75	-	Std.	1.00	1	4.00	<a href="#">RC5EM0750575Z</a>
CAT50	3/4	1.75	7.75	4.25	Taper	1.00	1	4.00	<a href="#">RC5EM0750775Z</a>
CAT50	7/8	1.88	3.75	-	Std.	1.00	2 (.81")	4.19	<a href="#">RC5EM0875375Z</a>
CAT50	7/8	1.88	5.75	-	Std.	1.00	2 (.81")	4.19	<a href="#">RC5EM0875575Z</a>
CAT50	7/8	1.88	7.75	4.25	Taper	1.00	2 (.81")	4.19	<a href="#">RC5EM0875775Z</a>
CAT50	1	2.75	1.63	-	Std.	1.13	1	2.50	<a href="#">RC5EM1000163Z</a>
CAT50	1	2.00	4.00	-	Std.	1.12	2 (1")	4.44	<a href="#">RC5EM1000400Z</a>
CAT50	1	2.00	6.00	-	Std.	1.13	2 (1")	4.44	<a href="#">RC5EM1000600Z</a>
CAT50	1	2.00	8.00	4.50	Taper	1.13	2 (1")	4.44	<a href="#">RC5EM1000800Z</a>
CAT50	1-1/4	2.75	2.63	-	Std.	1.12	2 (1")	3.50	<a href="#">RC5EM1250263Z</a>
CAT50	1-1/4	2.50	4.00	-	Std.	1.13	2 (1")	3.35	<a href="#">RC5EM1250400Z</a>
CAT50	1-1/4	2.50	6.00	-	Std.	1.13	2 (1")	3.35	<a href="#">RC5EM1250600Z</a>
CAT50	1-1/4	2.50	8.00	-	Std.	1.13	2 (1")	3.35	<a href="#">RC5EM1250800Z</a>
CAT50	1-1/2	2.75	2.63	-	Std.	1.50	2 (1")	2.25	<a href="#">RC5EM1500263Z</a>

### CAT50 Endmill Holders - Fractional

Taper	Bore Size - D1	D2	L1	L3	Style	F	Set Screw Qty (Distance Apart)	Max Tool Depth	Part #
CAT50	1-1/2	2.75	4.00	-	Std.	1.13	2 (1")	4.50	<a href="#">RC5EM1500400Z</a>
CAT50	1-1/2	2.75	6.00	-	Std.	1.13	2 (1")	4.50	<a href="#">RC5EM1500600Z</a>
CAT50	1-1/2	2.75	8.00	-	Std.	1.13	2 (1")	4.50	<a href="#">RC5EM1500800Z</a>
CAT50	2	3.75	5.62	-	Std.	1.41	2 (1.50")	3.50	<a href="#">RC5EM2000562Z</a>
CAT50	2	3.75	7.62	-	Std.	1.41	2 (1.50")	3.50	<a href="#">RC5EM2000762Z</a>
CAT50	2	3.75	9.62	-	Std.	1.41	2 (1.50")	3.50	<a href="#">RC5EM2000962Z</a>
CAT50	2-1/2	4.00	6.50	-	Std.	1.50	2 (1.56")	4.00	<a href="#">RC5EM2500650Z</a>

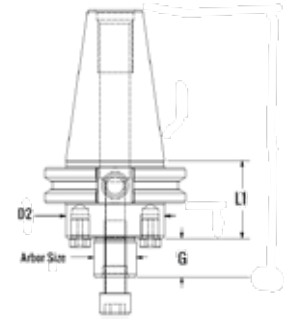
### Endmill Holder Replacement Lock Screws

Holder Size	Screw Thread Size	Length	Max Torque	Photo	Part #
1/8	10-32	.25	3 ft lbs		<a href="#">REMLS0125Z</a>
3/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0187Z</a>
1/4	1/4-28	.25	7 ft lbs		<a href="#">REMLS0250Z</a>
5/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0312Z</a>
3/8	3/8-24	.31	13 ft lbs		<a href="#">REMLS0375Z</a>
7/16	3/8-24	.31	13 ft lbs		<a href="#">REMLS0437Z</a>
1/2	7/16-20	.38	19 ft lbs		<a href="#">REMLS0500Z</a>
9/16	7/16-20	.38	19 ft lbs		<a href="#">REMLS0562Z</a>
5/8	9/16-18	.43	31 ft lbs		<a href="#">REMLS0625Z</a>
3/4	5/8-18	.50	45 ft lbs		<a href="#">REMLS0750Z</a>
7/8	5/8-18	.50	48 ft lbs		<a href="#">REMLS0875Z</a>
1	3/4-16	.50	69 ft lbs		<a href="#">REMLS1000Z</a>
1-1/4	3/4-16	.62	69 ft lbs		<a href="#">REMLS1250Z</a>
1-1/2	3/4-16	.62	69 ft lbs		<a href="#">REMLS1500Z</a>
2	1-14	.88	80 ft lbs		<a href="#">REMLS2000Z</a>
2-1/2	1-14	.88	80 ft lbs		<a href="#">REMLS2500Z</a>



### CAT50 Facemill Holders

- Arbor pilot TIR <0.002"
- Compatible with all facemills
- Constructed of alloy steel
- Hardened to 56-60 Rc for long service life




<b>CAT50 Facemill Holders</b>					
Taper	Arbor Size	D2	L1	G	Part #
CAT50	3/4	1.75	1.50	.68	<a href="#">RC5SM0750150Z</a>
CAT50	3/4	1.75	3.50	.68	<a href="#">RC5SM0750350Z</a>
CAT50	3/4	1.75	5.50	.68	<a href="#">RC5SM0750550Z</a>
CAT50	1	2.25	2.00	.68	<a href="#">RC5SM1000200Z</a>
CAT50	1	2.25	4.00	.68	<a href="#">RC5SM1000400Z</a>
CAT50	1	2.25	6.00	.68	<a href="#">RC5SM1000600Z</a>
CAT50	1	2.25	8.00	.68	<a href="#">RC5SM1000800Z</a>
CAT50	1-1/4	2.75	1.50	.68	<a href="#">RC5SM1250150Z</a>
CAT50	1-1/4	2.75	3.50	.68	<a href="#">RC5SM1250350Z</a>
CAT50	1-1/4	2.75	5.50	.68	<a href="#">RC5SM1250550Z</a>
CAT50	1-1/2	3.75	2.40	.94	<a href="#">RC5SM1500240Z</a>
CAT50	1-1/2	3.75	4.00	.94	<a href="#">RC5SM1500400Z</a>
CAT50	1-1/2	3.75	6.00	.94	<a href="#">RC5SM1500600Z</a>
CAT50	2	4.88	2.40	.94	<a href="#">RC5SM2000240Z</a>
CAT50	2	4.88	4.00	.94	<a href="#">RC5SM2000400Z</a>
CAT50	2	4.88	6.00	.94	<a href="#">RC5SM2000600Z</a>
CAT50	2-1/2	4.88	2.40	1.12	<a href="#">RC5SM2500240Z</a>
CAT50	2-1/2	4.88	4.00	1.12	<a href="#">RC5SM2500400Z</a>
CAT50	2-1/2	4.88	6.00	1.12	<a href="#">RC5SM2500600Z</a>

<b>Facemill Holder Replacement Lock Screws</b>									
Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Dimensions	Part #
3/4	.88	.38	1.06	3/8-24	1/4	45 ft lbs			<a href="#">RSMLS0750Z</a>
1	1.19	.28	1.12	1/2-20	5/16	60 ft lbs			<a href="#">RSMLS1000Z</a>
1-1/4	1.50	.50	1.44	5/8-18	5/16	70 ft lbs			<a href="#">RSMLS1250Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs			<a href="#">RSMLS1500Z</a>
2	2.50	.50	1.75	1-14	1/2	100 ft lbs			<a href="#">RSMLS2000Z</a>
2-1/2	3.12	.50	1.75	1-14	1/2	100 ft lbs			<a href="#">RSMLS2500Z</a>
3/4	.88	.38	.97	3/8-24	1/4	45 ft lbs			<a href="#">RSMLSC0750Z</a>
1	1.19	.28	1.20	1/2-20	5/16	60 ft lbs			<a href="#">RSMLSC1000Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs			<a href="#">RSMLSC1500Z</a>

\*Coolant Thru Option

## Facemill Holder Replacement Socket Head Cap Screws

Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Part #
3/4	.56	.37	1.37	3/8-24	5/16	45 ft lbs		<a href="#">RSMCS0750Z</a>
1	.75	.50	1.75	1/2-20	3/8	60 ft lbs		<a href="#">RSMCS1000Z</a>
1-1/4	.94	.62	1.87	5/8-18	1/2	70 ft lbs		<a href="#">RSMCS1250Z</a>
3/4	.56	.37	1.37	1/2-20	5/16	45 ft lbs		<a href="#">RSMCSC0750Z</a>
1	.75	.50	1.75	3/8-24	3/8	60 ft lbs		<a href="#">RSMCSC1000Z</a>

\*Coolant Thru Option

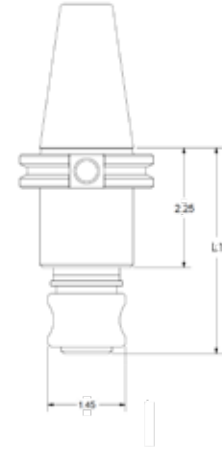
## Facemill Holder Replacement Drive Keys

Arbor Size	A	B	C	Photo	Dimensions	Part #
3/4	.31	.52	.16			<a href="#">RSMDK0750Z</a>
1	.38	.67	.19			<a href="#">RSMDK1000Z</a>
1-1/4	.50	.86	.25			<a href="#">RSMDK1250Z</a>
1-1/2	.62	1.04	.31			<a href="#">RSMDK1500Z</a>
2	.75	1.10	.38			<a href="#">RSMDK2000Z</a>
2-1/2	1.00	1.23	.50			<a href="#">RSMDK2500Z</a>

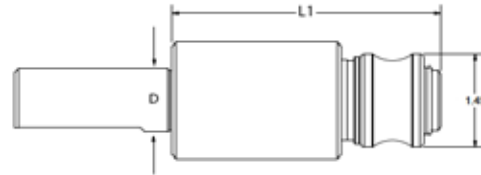


### CAT50 & Straight Shank Bilz Style #1

- From 0-9/16" standard and 1/16"-1/8" NPT
- For use with popular Bilz style #1 adapters
- Rigid for use with synchronous tapping cycles
- Radial float improves thread quality and tap life
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- **Bilz style #1 collets can be found on page 609.**



CAT50 Bilz Style #1 Tap Holders					
Taper	Collet Size	Compression	Tension	L1	Part #
CAT50	Bilz #1	0 - .250	.56	3.15	<a href="#">RC5THT01315Z</a>
CAT50	Bilz #1	Rigid	Rigid	3.15	<a href="#">RC5THR01315Z</a>



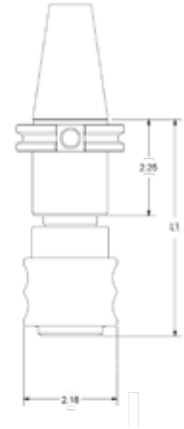
Straight Shank Bilz Style #1 Tap Holders					
Diameter (D)	Collet Size	Compression	Tension	L1	Part #
1.00	Bilz #1	Rigid	Rigid	4.21	<a href="#">RTHSSR0110421Z</a>

## Tap Holders - Bilz Style #2 and #3

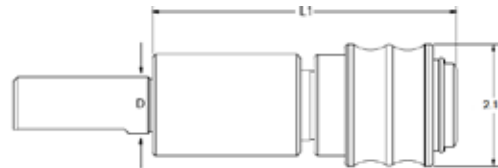


### CAT50 & Straight Shank Bilz Style #2

- From 5/16"-7/8" standard and 1/4"-1/2" NPT
- For use with popular Bilz style #2 adapters
- Rigid for use with synchronous tapping cycles
- Radial float improves thread quality and tap life
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- **Bilz style #2 collets can be found on page 609.**

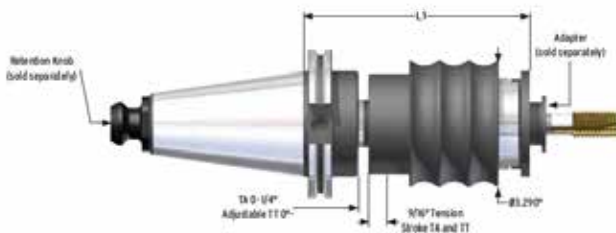


CAT50 Bilz Style #2 Tap Holders					
Taper	Collet Size	Compression	Tension	L1	Part #
CAT50	Bilz #2	0 - .250	.56	4.25	<a href="#">RC5THT02425Z</a>
CAT50	Bilz #2	Rigid	Rigid	4.25	<a href="#">RC5THR02425Z</a>



Straight Shank Bilz Style #2 Tap Holders					
Diameter (D)	Collet Size	Compression	Tension	L1	Part #
1.00	Bilz #2	0 - .250	.56	5.46	<a href="#">RTHSST0210546Z</a>
1.00	Bilz #2	Rigid	Rigid	5.46	<a href="#">RTHSSR0210546Z</a>
1.25	Bilz #2	0 - .250	.56	5.46	<a href="#">RTHSST02125546Z</a>

### CAT50 Bilz Style #3



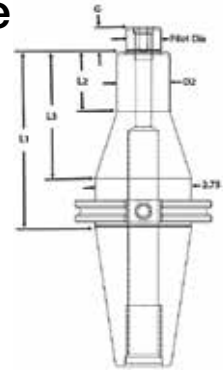
- From 3/16"-1-3/8" standard and 3/4"-1" NPT
- For use with popular Bilz style #3 adapters
- Radial float improves thread quality and tap life
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- **Bilz style #3 collets can be found on page 609.**

CAT50 Bilz Style #3 Tap Holder					
Taper	Collet Size	Compression	Tension	L1	Part #
CAT50	Bilz #3	0 - .250	.56	5.65	<a href="#">RC5THT03565Z</a>



### CAT50 Stub Arbor Holders - Lock Screw Style

- Face is perpendicular to center line within .0002"
- Pilot diameter is sized for precision fit with cutter and is keyed for positive drive
- Heavy duty lock screw and three arbor spacers are included - 1/4", 3/8", 3/4"



CAT50 Stub Arbor Holders - Lock Screw Style								
Taper	Pilot Dia	D2	L1	L2	L3	D	G	Part #
CAT50	1.00	1.50	5.00	1.70	3.62	.25	.720	<a href="#">RC5T2SAH1000500Z</a>
CAT50	1.25	1.75	6.00	1.50	4.62	.31	.720	<a href="#">RC5T2SAH1250600Z</a>
CAT50	1.50	2.12	6.00	1.62	4.62	.37	.980	<a href="#">RC5T2SAH1500600Z</a>

\* Part numbers above include Drive Key and Nut

CAT50 Stub Arbor Holder Components	
Description	Part #
Drive key for 1" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21000Z</a>
Lock screw for 1" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1000Z</a>
Drive key for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21250Z</a>
Lock screw for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1250Z</a>
Drive key for 1.50" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT21500Z</a>
Lock screw for 1.50" Diameter Pilot Stub Arbor Holder	<a href="#">RSMLS1500Z</a>

CAT50 Stub Arbor Holder Spacers		
Pilot Diameter	Description	Part #
1" Pilot Diameter	1/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000125Z</a>
	1/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000250Z</a>
	3/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000375Z</a>
	3/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000750Z</a>
1.25" Pilot Diameter	1/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500125Z</a>
	1/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500250Z</a>
	3/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500375Z</a>
	3/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500750Z</a>
1.50" Pilot Diameter	1/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000125Z</a>
	1/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000250Z</a>
	3/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000375Z</a>
	1/2" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000500Z</a>
	3/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000750Z</a>

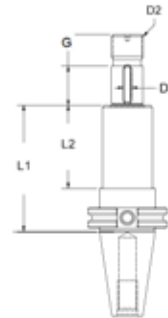


## Stub Arbor Holders



### CAT50 Stub Arbor Holders - Lock Nut Style

- Pilot thread is ground concentric to the tapered shank
- Face is perpendicular to center line within .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"



### CAT50 Stub Arbor Holders - Lock Nut Style

Taper	Pilot Dia	D2	L1	L2	D	G	Part #
CAT50	1.00	1.56	4.00	2.62	.25	1.25	<a href="#">RC5T1SAH1000400Z</a>
CAT50	1.00	1.56	6.00	4.62	.25	1.25	<a href="#">RC5T1SAH1000600Z</a>
CAT50	1.25	1.88	4.00	2.62	.31	1.25	<a href="#">RC5T1SAH1250400Z</a>
CAT50	1.25	1.88	6.00	4.62	.31	1.25	<a href="#">RC5T1SAH1250600Z</a>
CAT50	1.50	2.00	4.00	2.62	.37	1.25	<a href="#">RC5T1SAH1500400Z</a>
CAT50	1.50	2.00	6.00	2.62	.37	1.25	<a href="#">RC5T1SAH1500600Z</a>
CAT50	2.00	2.75	6.00	5.25	.50	1.25	<a href="#">RC5T1SAH2000600Z</a>

Part numbers above include drive key and nut

### CAT50 Stub Arbor Components

Description	Part #
Drive key for 1" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT11000Z</a>
Lock nut for 1" Stub Arbor Holder	<a href="#">RSAN1000Z</a>
Drive key for 1.25" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT11250Z</a>
Lock nut for 1.25" Stub Arbor Holder	<a href="#">RSAN1250Z</a>
Drive key for 1.50" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT11500Z</a>
Lock nut for 1.50" Stub Arbor Holder	<a href="#">RSAN1500Z</a>
Drive key for 2" Diameter Pilot Stub Arbor Holder	<a href="#">RSAKT12000Z</a>
Lock nut for 2" Stub Arbor Holder	<a href="#">RSAN2000Z</a>

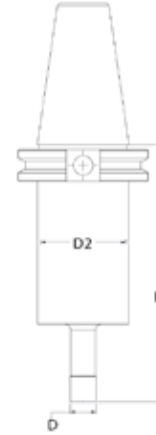
### CAT50 Stub Arbor Holder Spacers

Pilot Diameter	Description	Part #
1" Pilot Diameter	1/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000125Z</a>
	1/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000250Z</a>
	3/8" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000375Z</a>
	3/4" Thick Spacer for 1" Stub Arbor Holder	<a href="#">RSAS10000750Z</a>
1.25" Pilot Diameter	1/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500125Z</a>
	1/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500250Z</a>
	3/8" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500375Z</a>
	3/4" Thick Spacer for 1.25" Stub Arbor Holder	<a href="#">RSAS12500750Z</a>
1.50" Pilot Diameter	1/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000125Z</a>
	1/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000250Z</a>
	3/8" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000375Z</a>
	1/2" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000500Z</a>
	3/4" Thick Spacer for 1.50" Stub Arbor Holder	<a href="#">RSAS15000750Z</a>
2" Pilot Diameter	1/4" Thick Spacer for 2" Stub Arbor Holder	<a href="#">RSAS20000125Z</a>
	3/8" Thick Spacer for 2" Stub Arbor Holder	<a href="#">RSAS20000375Z</a>
	3/4" Thick Spacer for 2" Stub Arbor Holder	<a href="#">RSAS20000750Z</a>



## CAT50 Probe Calibration Gage

- Works on all CAT50 spindle machines
- This tool is to be used as a standard for gage length and diameter
- Can be used to calibrate your table tool probe
- Can be kept in tool changer for periodic probe calibration
- All critical tool holder surfaces precision ground
- Made from alloy steel hardened to 54-56rc
- Individual calibration certificate is included with each tool holder
- Concentricity of gage diameter is .0001" or less



<b>CAT50 Probe Calibration Gage</b>				
Taper	D	D2	L	Part #
CAT50	.500	1.63	5.000	<a href="#">RC5CA0500500Z</a>

### Calibration Certificate

PART NUMBER: RC5CA0500500

PART NAME: CAT50 CALIBRATION PROBE

SERIAL NUMBER: SN-7353



**Diameter (D) Dimension:** 0.5007"

**Length (L) Dimension:** 5.0030"

Calibrated by: John E. Caspergale

Date: 1/9/2024

Temperature: 68°F (20°C)

Humidity: 17.0%



**RedLine Tools**  
 PERFORMANCE MATTERS

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The adapter covered by this certification has been calibrated with equipment or compared with master reference standards traceable to the National Institute of Standards and Technology (NIST), Washington, D.C. Outside diameter & gage line length measurements within +/- .00006"

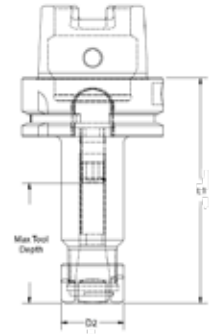
## Collet Chucks - ER16

### HSK63A & Straight Shank Collet Chucks - ER16

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- Wide range collets reduce collet and toolholder inventories
- Through spindle coolant standard
- **ER16 Collets found on pages 592 and 593.**



#### HSK63A ER16 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0200-.3930	HSK63A	1.10	3.94	2.10	42 ft lbs	<a href="#">RHSK63AER16394Z</a>
.0200-.3930	HSK63A	1.10	6.30	3.00	42 ft lbs	<a href="#">RHSK63AER16630Z</a>

#### ER16 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.10	5.50	42 ft lbs		<a href="#">RSSER160750550Z</a>
.750	1.10	7.50	42 ft lbs		<a href="#">RSSER160750750Z</a>
.750	.86	7.00	20 ft lbs		<a href="#">RSSER160750710Z</a>

#### ER16 Parts & Accessories

Description	Photo	Dimensions	Part #
ER16 Replacement Nosepiece			<a href="#">RER16HNZ</a>
ER16 Open Hex Style Wrench 15/16"			<a href="#">RER16HWZ</a>
ER16 Stop Screw			<a href="#">RBS0437LHZ</a>
ER16 Slimline Nut			<a href="#">RER16SNZ</a>
ER16 Slimline Wrench 3/4"			<a href="#">RER16SNWZ</a>

#### HSK63A Coolant Accessories

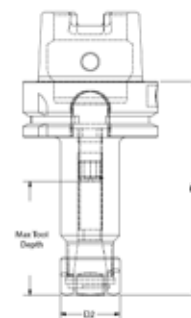
HSK63A Coolant Tube	HSK63A Coolant Tube Wrench
<a href="#">RHSK63ACTZ</a>	<a href="#">RHSK63ATWZ</a>



### HSK63A & Straight Shank Collet Chucks - ER20

(Balanced to G2.5@25,000 RPM)

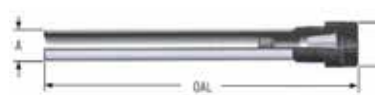
- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- Wide range collets reduce collet and toolholder inventories
- Through spindle coolant standard
- **ER20 Collets found on page 595.**




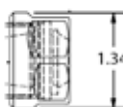



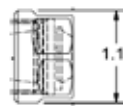

### HSK63A ER20 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.5110	HSK63A	1.34	3.94	1.88	59 ft lbs	<a href="#">RHASK63AER20394Z</a>
.0400-.5110	HSK63A	1.34	6.30	1.88	59 ft lbs	<a href="#">RHASK63AER20630Z</a>



### ER20 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.34	7.20	59 ft lbs		<a href="#">RSSER200750720Z</a>
1.000	1.10	7.20	22 ft lbs		<a href="#">RSSER201000720Z</a>

### ER20 Parts & Accessories

Description	Photo	Dimensions	Part #
ER20 Replacement Nosepiece			<a href="#">RER20HNZ</a>
ER20 Open Hex Wrench 1-1/8"			<a href="#">RER20HWZ</a>
ER20 Stop Screw Coolant Thru			<a href="#">RBS0562LHZ</a>
ER20 Slimline Nut			<a href="#">RER20SNZ</a>
ER20 Slimline Wrench 15/16"			<a href="#">RER16HWZ</a>

### HSK63A Coolant Accessories

HSK63A Coolant Tube	HSK63A Coolant Tube Wrench
	
<a href="#">RHASK63ACTZ</a>	<a href="#">RHASK63ATWZ</a>

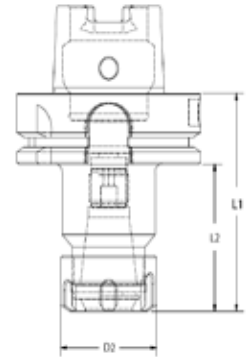
## Collet Chucks - ER25



### HSK63A & Straight Shank Collet Chucks - ER25

(Balanced to G2.5@25,000 RPM)

- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- Wide range collets reduce collet and toolholder inventories
- Through spindle coolant standard
- **ER25 Collets found on page [596-597](#).**



#### HSK63A ER25 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.6299	HSK63A	1.65	3.15	1.50	77 ft lbs	<a href="#">RHSK63AER25315Z</a>
.0400-.6299	HSK63A	1.65	6.30	2.30	77 ft lbs	<a href="#">RHSK63AER25630Z</a>

#### ER25 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
.750	1.65	5.81	77 ft lbs		<a href="#">RSSER250750581Z</a>
1.000	1.65	5.31	77 ft lbs		<a href="#">RSSER251000531Z</a>

#### ER25 Parts & Accessories

Description	Photo	Dimensions	Part #
ER25 Replacement Nosepiece			<a href="#">RER25NZ</a>
ER25 Fixed Spanner Wrench			<a href="#">RER25SWZ</a>
ER25 Stop Screw			<a href="#">RBS0687LHZ</a>

#### HSK63A Coolant Accessories

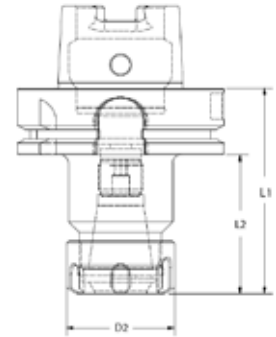
HSK63A Coolant Tube	HSK63A Coolant Tube Wrench
<a href="#">RHSK63ACTZ</a>	<a href="#">RHSK63ATWZ</a>

### HSK63A & Straight Shank Collet Chucks - ER32

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- Wide range collets reduce collet and toolholder inventories
- Through spindle coolant standard
- **ER32 Collets found on pages [598-599](#).**



### HSK63A ER32 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.0400-.7870	HSK63A	1.97	3.15	2.00	100 ft lbs	<a href="#">RHSK63AER32315Z</a>
.0400-.7870	HSK63A	1.97	4.72	2.50	100 ft lbs	<a href="#">RHSK63AER32472Z</a>

### ER32 Straight Shank Collet Extensions

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
1.000	1.97	4.25	100 ft lbs		<a href="#">RSSER321000425Z</a>
1.250	1.97	8.05	100 ft lbs		<a href="#">RSSER321250805Z</a>

### ER32 Parts & Accessories

Description	Photo	Dimensions	Part #
ER32 Replacement Nosepiece			<a href="#">RER32NZ</a>
ER32 Fixed Spanner Wrench			<a href="#">RER32SWZ</a>
ER32 Stop Screw			<a href="#">RBS0812LHZ</a>

### HSK63A Coolant Accessories

HSK63A Coolant Tube	HSK63A Coolant Tube Wrench
<a href="#">RHSK63ACTZ</a>	<a href="#">RHSK63ATWZ</a>

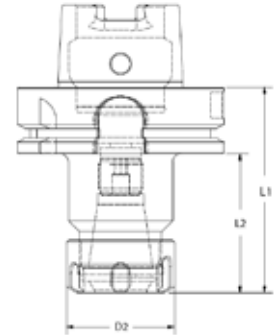
## Collet Chucks - ER40

### HSK63A & Straight Shank Collet Chucks - ER40

(Balanced to G2.5@25,000 RPM)



- Small diameter nose well-suited for working in close quarters
- Increased flexibility for milling, drilling, and reaming
- Flush precision collet nut, grips tool close to cutting edge for accuracy and rigidity
- Concentric to .0001" TIR puts tool precisely on spindle center line
- Wide range collets reduce collet and toolholder inventories
- Through spindle coolant standard
- **ER40 Collets found on pages [600-602](#).**



#### HSK63A ER40 Collet Chucks

Capacity	Taper	D2	L1	Max Tool Depth	Max Nosepiece Torque	Part #
.1181-1.1875	HSK63A	2.48	3.94	2.50	130 ft lbs	<a href="#">RHSK63AER40394Z</a>

#### ER40 Straight Shank Collet Extension

A (Dia)	D2 (Dia)	OAL	Max Nosepiece Torque	Photo	Part #
1.250	2.48	4.85	130 ft lbs		<a href="#">RSSER401250485Z</a>

#### ER40 Parts & Accessories

Description	Photo	Dimensions	Part #
ER40 Replacement Nosepiece			<a href="#">RER40NZ</a>
ER40 Fixed Spanner Wrench			<a href="#">RER40SWZ</a>
ER40 Stop Screw			<a href="#">RBS1250LHZ</a>

#### HSK63A Coolant Accessories

HSK63A Coolant Tube	HSK63A Coolant Tube Wrench
<a href="#">RHSK63ACTZ</a>	<a href="#">RHSK63ATWZ</a>

Toolholders

### HSK63A Shrink Fit with Coolant Ports

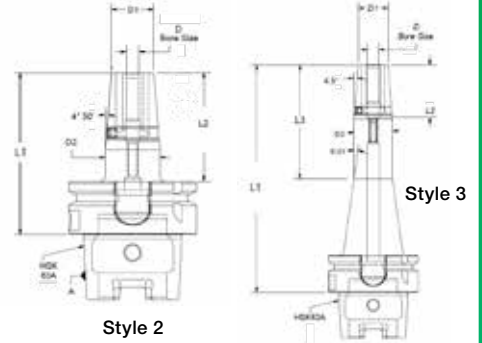
(Balanced to G2.5@25,000 RPM)



Style 2

Style 3

- Concentric to .0001" TIR for increased cutting tool life
- 2 Angled ports direct coolant to cutting area
- Gage lengths match international standards
- AT3 or better shank taper allows for accurate, rigid tool holder-spindle mount
- Made from H13 tool steel for superior rigidity and maximum grip for extended longevity



Style 2

Style 3



Shrink fit machines found on pages 611-612.

### HSK63A Shrink Fit Holders with Coolant Ports

Taper	Bore Size	Style	D2	D3	L1	L3	Part #
HSK63A	1/4	2	.83	1.06	3.15	2.40	<a href="#">RH63ASFC20250315Z</a>
HSK63A	1/4	2	.83	1.06	5.12	4.37	<a href="#">RH63ASFC20250512Z</a>
HSK63A	1/4	3	.83	1.06	6.30	3.15	<a href="#">RH63ASFC30250630Z</a>
HSK63A	5/16	2	.83	1.06	3.15	2.40	<a href="#">RH63ASFC20312315Z</a>
HSK63A	5/16	2	.83	1.06	5.12	4.37	<a href="#">RH63ASFC20312512Z</a>
HSK63A	5/16	3	.83	1.06	6.30	3.15	<a href="#">RH63ASFC30312630Z</a>
HSK63A	3/8	2	.94	1.26	3.35	2.32	<a href="#">RH63ASFC20375335Z</a>
HSK63A	3/8	2	.94	1.26	5.12	4.37	<a href="#">RH63ASFC20375512Z</a>
HSK63A	3/8	3	.94	1.26	6.30	3.15	<a href="#">RH63ASFC30375630Z</a>
HSK63A	1/2	2	.94	1.26	3.54	2.52	<a href="#">RH63ASFC20500354Z</a>
HSK63A	1/2	2	.94	1.26	5.12	4.37	<a href="#">RH63ASFC20500512Z</a>
HSK63A	1/2	3	.94	1.26	6.30	3.15	<a href="#">RH63ASFC30500630Z</a>
HSK63A	5/8	2	1.06	1.34	3.75	2.72	<a href="#">RH63ASFC20625375Z</a>
HSK63A	5/8	2	1.06	1.34	5.12	4.37	<a href="#">RH63ASFC20625512Z</a>
HSK63A	5/8	3	1.06	1.34	6.30	3.15	<a href="#">RH63ASFC30625630Z</a>
HSK63A	3/4	2	1.30	1.65	3.94	3.19	<a href="#">RH63ASFC20750394Z</a>
HSK63A	3/4	2	1.30	1.65	5.12	4.37	<a href="#">RH63ASFC20750512Z</a>
HSK63A	3/4	2	1.30	1.65	6.30	3.15	<a href="#">RH63ASFC20750630Z</a>
HSK63A	1	2	1.73	2.09	4.53	3.50	<a href="#">RH63ASFC21000453Z</a>
HSK63A	1	2	1.73	2.09	6.30	3.15	<a href="#">RH63ASFC21000630Z</a>
HSK63A	1-1/4	2	1.73	2.09	4.72	3.70	<a href="#">RH63ASFC21250472Z</a>
HSK63A	1-1/4	2	1.73	2.09	6.30	3.15	<a href="#">RH63ASFC21250630Z</a>

### HSK63A Shrink Fit Stop Screws

Bore Size	Thread	Hex	Length	Photo	Part #
1/4	M5x.8	2.5 mm	.630		<a href="#">RSFSS250Z</a>
5/16	M6X1	3 mm	.630		<a href="#">RSFSS312Z</a>
3/8	M8x1	4 mm	.630		<a href="#">RSFSS375Z</a>
1/2	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
9/16	M10X1	5 mm	.787		<a href="#">RSFSS500Z</a>
5/8	M12X1	6 mm	.787		<a href="#">RSFSS625Z</a>
3/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>
1-1/4	M16X1	8 mm	.787		<a href="#">RSFSS750Z</a>



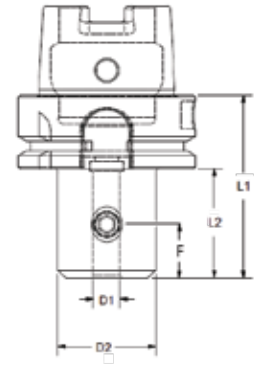
## Endmill Holders



### HSK63A Endmill Holders

(Balanced to G6.3@15,000 RPM)

- Holders through 1.000" accept double end cutters saving on tool costs
- Fine thread screws match weldon flats - lock tight, stay tight
- H5 bore tolerance. H5 is an extremely accurate bore I.D. and provides improved T.I.R. to .0002" for extended cutting tool life.
- Taper ground to AT3 or better for accurate, rigid toolholder-to-spindle mount
- Less tool wear and replacement means less scrap



### HSK63A Endmill Holders - Fractional

Taper	Bore Size D1	D2	L1	L2	F	Set Screw Qty (Distance Apart)	Max Tool Depth	Part #
HSK63A	1/8	1.00	2.56	1.54	.38	1	1.40	<a href="#">RHSK63AEM0125256Z</a>
HSK63A	1/8	1.00	4.00	2.98	.38	1	2.00	<a href="#">RHSK63AEM0125400Z</a>
HSK63A	3/16	1.00	2.56	1.54	.38	1	1.53	<a href="#">RHSK63AEM0188256Z</a>
HSK63A	3/16	1.00	4.00	2.98	.38	1	2.50	<a href="#">RHSK63AEM0188400Z</a>
HSK63A	1/4	1.10	2.56	1.54	.38	1	1.53	<a href="#">RHSK63AEM0250256Z</a>
HSK63A	1/4	1.10	4.00	2.98	.38	1	3.00	<a href="#">RHSK63AEM0250400Z</a>
HSK63A	5/16	1.00	2.56	1.54	.44	1	1.53	<a href="#">RHSK63AEM0313256Z</a>
HSK63A	5/16	1.00	4.00	2.98	.44	1	3.00	<a href="#">RHSK63AEM0313400Z</a>
HSK63A	3/8	1.38	2.56	1.54	.75	1	1.54	<a href="#">RHSK63AEM0375256Z</a>
HSK63A	3/8	1.00	4.00	2.98	.75	1	2.00	<a href="#">RHSK63AEM0375400Z</a>
HSK63A	1/2	1.63	3.13	2.11	.88	1	2.10	<a href="#">RHSK63AEM0500313Z</a>
HSK63A	1/2	1.25	4.00	2.98	.88	1	2.20	<a href="#">RHSK63AEM0500400Z</a>
HSK63A	5/8	1.88	3.13	2.11	.94	1	2.10	<a href="#">RHSK63AEM0625313Z</a>
HSK63A	5/8	1.75	4.00	2.98	.94	1	2.90	<a href="#">RHSK63AEM0625400Z</a>
HSK63A	3/4	1.94	3.13	2.11	1.00	1	2.12	<a href="#">RHSK63AEM0750313Z</a>
HSK63A	3/4	1.94	4.00	2.98	1.00	1	2.75	<a href="#">RHSK63AEM0750400Z</a>
HSK63A	1	2.56	4.25	3.23	1.13	2 (1")	3.00	<a href="#">RHSK63AEM1000425Z</a>
HSK63A	1-1/4	2.81	4.25	3.23	1.13	2 (1")	3.00	<a href="#">RHSK63AEM1250425Z</a>

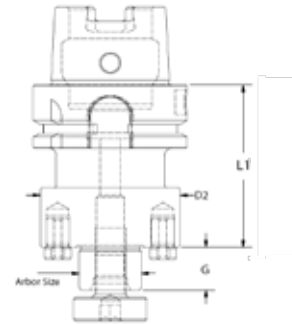
### Endmill Holder Replacement Lock Screws

Holder Size	Screw Thread Size	Length	Max Torque	Photo	Part #
1/8	10-32	.25	3 ft lbs		<a href="#">REMLS0125Z</a>
3/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0187Z</a>
1/4	1/4-28	.25	7 ft lbs		<a href="#">REMLS0250Z</a>
5/16	1/4-28	.25	7 ft lbs		<a href="#">REMLS0312Z</a>
3/8	3/8-24	.31	13 ft lbs		<a href="#">REMLS0375Z</a>
7/16	3/8-24	.31	13 ft lbs		<a href="#">REMLS0437Z</a>
1/2	7/16-20	.38	19 ft lbs		<a href="#">REMLS0500Z</a>
9/16	7/16-20	.38	19 ft lbs		<a href="#">REMLS0562Z</a>
5/8	9/16-18	.43	31 ft lbs		<a href="#">REMLS0625Z</a>
3/4	5/8-18	.50	45 ft lbs		<a href="#">REMLS0750Z</a>
7/8	5/8-18	.50	48 ft lbs		<a href="#">REMLS0875Z</a>
1	3/4-16	.50	69 ft lbs		<a href="#">REMLS1000Z</a>
1-1/4	3/4-16	.62	69 ft lbs		<a href="#">REMLS1250Z</a>



### HSK63A Facemill Holders

- Arbor pilot TIR <.0002"
- Compatible with all facemills
- Constructed of alloy steel
- Hardened to 56-60 Rc for long service life



HSK63A Facemill Holders					
Taper	Arbor Size	D2	L1	G	Part #
HSK63A	3/4	1.75	2.38	.69	<a href="#">RHSK63ASM0750238Z</a>
HSK63A	1	2.25	2.63	.69	<a href="#">RHSK63ASM1000263Z</a>
HSK63A	1-1/4	2.75	2.63	.69	<a href="#">RHSK63ASM1250263Z</a>
HSK63A	1-1/2	3.75	2.63	.94	<a href="#">RHSK63ASM1500263Z</a>

Facemill Holder Replacement Lock Screws									
Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Dimensions	Part #
3/4	.88	.38	1.06	3/8-24	1/4	45 ft lbs			<a href="#">RSMLS0750Z</a>
1	1.19	.28	1.12	1/2-20	5/16	60 ft lbs			<a href="#">RSMLS1000Z</a>
1-1/4	1.50	.50	1.44	5/8-18	5/16	70 ft lbs			<a href="#">RSMLS1250Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs			<a href="#">RSMLS1500Z</a>
3/4	.88	.38	.97	3/8-24	1/4	45 ft lbs			<a href="#">RSMSC0750Z</a>
1	1.19	.28	1.20	1/2-20	5/16	60 ft lbs			<a href="#">RSMSC1000Z</a>
1-1/2	1.88	.50	1.75	3/4-16	3/8	75 ft lbs	<a href="#">RSMSC1500Z</a>		

\*Coolant Thru Option

Facemill Holder Replacement Socket Head Cap Screws									
Arbor Size	A	B	C	Thread	Hex	Torque	Photo	Part #	
3/4	.56	.37	1.37	3/8-24	5/16	45 ft lbs		<a href="#">RSMCS0750Z</a>	
1	.75	.50	1.75	1/2-20	3/8	60 ft lbs		<a href="#">RSMCS1000Z</a>	
1-1/4	.94	.62	1.87	5/8-18	1/2	70 ft lbs		<a href="#">RSMCS1250Z</a>	
3/4	.56	.37	1.37	1/2-20	5/16	45 ft lbs		<a href="#">RSMCSC0750Z</a>	
1	.75	.50	1.75	3/8-24	3/8	60 ft lbs		<a href="#">RSMCSC1000Z</a>	

\*Coolant Thru Option

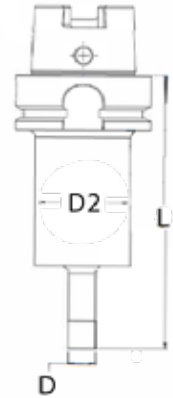
Facemill Holder Replacement Drive Keys							
Arbor Size	A	B	C	Photo	Dimensions	Part #	
3/4	.31	.52	.16			<a href="#">RSMDBK0750Z</a>	
1	.38	.67	.19			<a href="#">RSMDBK1000Z</a>	
1-1/4	.50	.86	.25			<a href="#">RSMDBK1250Z</a>	
1-1/2	.62	1.04	.31			<a href="#">RSMDBK1500Z</a>	

## Probe Calibration Gage



### HSK63A Probe Calibration Gage

- Works on all HSK63A spindle machines
- This tool is to be used as a standard for gage length and diameter
- Can be used to calibrate your table tool probe
- Can be kept in tool changer for periodic probe calibration
- All critical tool holder surfaces precision ground
- Made from alloy steel hardened to 54-56rc
- Individual calibration certificate is included with each tool holder
- Concentricity of gage diameter is .0001" or less



HSK63A Probe Calibration Gage				
Taper	D	D2	L	Part #
HSK63A	.500	1.630	5.000	<a href="#">RHSK63ACA0500500Z</a>

Toolholders

### Calibration Certificate

PART NUMBER: RHSK63ACA0500500

PART NAME: HSK63A CALIBRATION PROBE

SERIAL NUMBER: SN-7364

**Diameter (D) Dimension: 0.5004"**

**Length (L) Dimension: 5.0025"**

Calibrated by: John E. Casagrate

Date: 1/23/2024

Temperature: \_\_\_\_\_ °F

Humidity: \_\_\_\_\_ %


**RedLine Tools**  
PERFORMANCE MATTERS

RedLine Tools: 15150 25th Avenue North  
Plymouth (Mpls.), MN 55447 • (800) 791-7542  
[www.redlinetools.com](http://www.redlinetools.com) • [support@redlinetools.com](mailto:support@redlinetools.com)


The adapter covered by this certification has been calibrated with equipment or compared with master reference standards traceable to the National Institute of Standards and Technology (NIST), Washington D.C. Outside diameter & gage line length measurements within +/- .00006"

SAMPLE


## REGO-FIX® ER11 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 7 pc Collet Set with tray; includes all sizes except 1/32"	<a href="#">1111.00002</a>	
<b>Metric</b> 13 pc Collet Set with tray	<a href="#">1111.00000</a>	

## REGO-FIX® ER11 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<a href="#">1/32</a>	.0394-.0197	1.00-0.50	<a href="#">1111.01000</a>	
<a href="#">1/16</a>	.0625-.0425	1.59-1.09	<a href="#">1111.01592</a>	
<a href="#">3/32</a>	.0938-.0738	2.38-1.88	<a href="#">1111.02382</a>	
<a href="#">1/8</a>	.1250-.1050	3.18-2.68	<a href="#">1111.03182</a>	
<a href="#">5/32</a>	.1563-.1363	3.97-3.47	<a href="#">1111.03972</a>	
<a href="#">3/16</a>	.1875-.1675	4.76-4.26	<a href="#">1111.04762</a>	
<a href="#">7/32</a>	.2188-.1988	5.56-5.06	<a href="#">1111.05562</a>	
<a href="#">1/4</a>	.2500-.2300	6.35-5.85	<a href="#">1111.06352</a>	

## REGO-FIX® ER11 Metric Collets

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
<a href="#">1.00-0.50</a>	.0394-.0197	1/32	<a href="#">1111.01000</a>	
<a href="#">1.50-1.00</a>	.0591-.0394	—	<a href="#">1111.01500</a>	
<a href="#">2.00-1.50</a>	.0787-.0591	1/16	<a href="#">1111.02000</a>	
<a href="#">2.50-2.00</a>	.0984-.0787	3/32	<a href="#">1111.02500</a>	
<a href="#">3.00-2.50</a>	.1181-.0984	—	<a href="#">1111.03000</a>	
<a href="#">3.50-3.00</a>	.1378-.1181	1/8	<a href="#">1111.03500</a>	
<a href="#">4.00-3.50</a>	.1575-.1378	5/32	<a href="#">1111.04000</a>	
<a href="#">4.50-4.00</a>	.1772-.1575	—	<a href="#">1111.04500</a>	
<a href="#">5.00-4.50</a>	.1969-.1772	3/16	<a href="#">1111.05000</a>	
<a href="#">5.50-5.00</a>	.2165-.1969	—	<a href="#">1111.05500</a>	
<a href="#">6.00-5.50</a>	.2362-.2165	7/32	<a href="#">1111.06000</a>	
<a href="#">6.50-6.00</a>	.2559-.2362	1/4	<a href="#">1111.06500</a>	
<a href="#">7.00-6.50</a>	.2756-.2559	—	<a href="#">1111.07000</a>	



## ER16 Collets

### REGO-FIX® ER16 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 12 pc Collet Set with tray; includes all sizes except 1/32"	<a href="#">1116.00002</a>	
<b>Fractional Metallic Sealed</b> 5 pc Collet Set with tray; includes all sizes except 1/32"	<a href="#">1216.00002</a>	
<b>Metric</b> 10 pc Collet Set with tray *Sizes that are included in sets- See page 593	<a href="#">1116.00000</a>	
<b>Metric Metallic Sealed</b> 8 pc Collet Set with tray *See page 593	<a href="#">1216.00000</a>	

### REGO-FIX® ER16 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/32	.0394-.0197	1.00-0.50	<a href="#">1116.01000</a>	
1/16	.0625-.0425	1.59-1.09	<a href="#">1116.01592</a>	
3/32	.0938-.0738	2.38-1.88	<a href="#">1116.02382</a>	
1/8	.1250-.0850	3.18-2.18	<a href="#">1116.03182</a>	
5/32	.1563-.1163	3.97-2.97	<a href="#">1116.03972</a>	
3/16	.1875-.1475	4.76-3.76	<a href="#">1116.04762</a>	
7/32	.2188-.1788	5.56-4.56	<a href="#">1116.05562</a>	
1/4	.2500-.2100	6.35-5.35	<a href="#">1116.06352</a>	
9/32	.2813-.2413	7.14-6.14	<a href="#">1116.07142</a>	
5/16	.3125-.2725	7.94-6.94	<a href="#">1116.07942</a>	
11/32	.3438-.3038	8.73-7.73	<a href="#">1116.08732</a>	
3/8	.3750-.3350	9.53-8.53	<a href="#">1116.09532</a>	
13/32	.4063-.3663	10.32-9.32	<a href="#">1116.10322</a>	


### REGO-FIX® ER16 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250	3.18	<a href="#">1216.03182</a>	
3/16	.1875	4.76	<a href="#">1216.04762</a>	
1/4	.2500-.2303	6.35-5.85	<a href="#">1216.06352</a>	
5/16	.3125-.2929	7.94-7.44	<a href="#">1216.07942</a>	
3/8	.3750-.3556	9.53-9.03	<a href="#">1216.09532</a>	




Toolholders

**REGO-FIX® ER16 Metric Collets**

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50*	.0394-.0197	1/32	<a href="#">1116.01000</a>	
1.50-1.00	.0591-.0394	—	<a href="#">1116.01500</a>	
2.00-1.00*	.0787-.0394	1/16	<a href="#">1116.02000</a>	
2.50-1.50	.0984-.0591	—	<a href="#">1116.02500</a>	
3.00-2.00*	.1181-.0787	3/32	<a href="#">1116.03000</a>	
3.50-2.50	.1378-.0984	—	<a href="#">1116.03500</a>	
4.00-3.00*	.1575-.1181	1/8	<a href="#">1116.04000</a>	
4.50-3.50	.1772-.1378	5/32	<a href="#">1116.04500</a>	
5.00-4.00*	.1969-.1575	3/16	<a href="#">1116.05000</a>	
5.50-4.50	.2165-.1772	—	<a href="#">1116.05500</a>	
6.00-5.00*	.2362-.1969	7/32	<a href="#">1116.06000</a>	
6.50-5.50	.2559-.2165	—	<a href="#">1116.06500</a>	
7.00-6.00*	.2756-.2362	1/4	<a href="#">1116.07000</a>	
7.50-6.50	.2953-.2559	—	<a href="#">1116.07500</a>	
8.00-7.00*	.3150-.2756	9/32	<a href="#">1116.08000</a>	
8.50-7.50	.3347-.2953	5/16	<a href="#">1116.08500</a>	
9.00-8.00*	.3543-.3150	11/32	<a href="#">1116.09000</a>	
9.50-8.50	.3740-.3347	—	<a href="#">1116.09500</a>	
10.00-9.00*	.3937-.3543	3/8	<a href="#">1116.10000</a>	

**REGO-FIX® ER16 Metric Metallic Sealed Collets**  
(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00	.1181	—	<a href="#">1216.03000</a>	
4.00	.1575	—	<a href="#">1216.04000</a>	
5.00-4.50	.1969-.1772	3/16	<a href="#">1216.05000</a>	
6.00-5.50	.2362-.2165	7/32	<a href="#">1216.06000</a>	
7.00-6.50	.2756-.2559	—	<a href="#">1216.07000</a>	
8.00-7.50	.3150-.2953	5/16	<a href="#">1216.08000</a>	
9.00-8.50	.3543-.3347	11/32	<a href="#">1216.09000</a>	
10.00-9.50	.3937-.3740	3/8	<a href="#">1216.10000</a>	

\* Represents items included in the Collet Set on page [592](#).



## ER20 Collets

### REGO-FIX® ER20 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 7 pc Collet Set with tray; includes all sizes	<a href="#">1120.00002</a>	
<b>Fractional Metallic Sealed</b> 7 pc Collet Set with tray; includes all sizes	<a href="#">1220.00002</a>	
<b>Metric</b> 12 pc Collet Set with tray *Sizes that are included in sets - see page 595	<a href="#">1120.00000</a>	
<b>Metric Metallic Sealed</b> 11 pc Collet Set with tray *Sizes that are included in sets - see page 595	<a href="#">1220.00000</a>	

### REGO-FIX® ER20 Fractional Collets


ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/8</b>	.1250-.0850	3.18-2.18	<a href="#">1120.03182</a>	
<b>3/16</b>	.1875-.1475	4.76-3.76	<a href="#">1120.04762</a>	
<b>1/4</b>	.2500-.2100	6.35-5.35	<a href="#">1120.06352</a>	
<b>5/16</b>	.3125-.2725	7.94-6.94	<a href="#">1120.07942</a>	
<b>3/8</b>	.3750-.3350	9.53-8.53	<a href="#">1120.09532</a>	
<b>7/16</b>	.4375-.3975	11.11-10.11	<a href="#">1120.11112</a>	
<b>1/2</b>	.5000-.4600	12.70-11.70	<a href="#">1120.12702</a>	

### REGO-FIX® ER20 Fractional Metallic Sealed Collets (Good to 2000 psi)


ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/8</b>	.1250	3.18	<a href="#">1220.03182</a>	
<b>3/16</b>	.1875	4.76	<a href="#">1220.04762</a>	
<b>1/4</b>	.2500	6.35	<a href="#">1220.06352</a>	
<b>5/16</b>	.3125-.2929	7.94-7.44	<a href="#">1220.07942</a>	
<b>3/8</b>	.3750-.3556	9.53-9.03	<a href="#">1220.09532</a>	
<b>7/16</b>	.4375-.4177	11.11-10.61	<a href="#">1220.11112</a>	
<b>1/2</b>	.5000-.4803	12.70-12.20	<a href="#">1220.12702</a>	



**REGO-FIX® ER20 Metric Collets**

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50	.0394-.0197	1/32	<a href="#">1120.01000</a>	
1.50-1.00	.0591-.0394	—	<a href="#">1120.01500</a>	
2.00-1.00*	.0787-.0394	1/16	<a href="#">1120.02000</a>	
2.50-1.50	.0984-.0591	—	<a href="#">1120.02500</a>	
3.00-2.00*	.1181-.0787	3/32	<a href="#">1120.03000</a>	
3.50-2.50	.1378-.0984	—	<a href="#">1120.03500</a>	
4.00-3.00*	.1575-.1181	1/8	<a href="#">1120.04000</a>	
4.50-3.50	.1772-.1378	5/32	<a href="#">1120.04500</a>	
5.00-4.00*	.1969-.1575	3/16	<a href="#">1120.05000</a>	
5.50-4.50	.2165-.1772	—	<a href="#">1120.05500</a>	
6.00-5.00*	.2362-.1969	7/32	<a href="#">1120.06000</a>	
6.50-5.50	.2559-.2165	—	<a href="#">1120.06500</a>	
7.00-6.00*	.2756-.2362	1/4	<a href="#">1120.07000</a>	
7.50-6.50	.2953-.2559	9/32	<a href="#">1120.07500</a>	
8.00-7.00*	.3150-.2756	5/16	<a href="#">1120.08000</a>	
8.50-7.50	.3347-.2953	—	<a href="#">1120.08500</a>	
9.00-8.00*	.3543-.3150	11/32	<a href="#">1120.09000</a>	
9.50-8.50	.3740-.3347	—	<a href="#">1120.09500</a>	
10.00-9.00*	.3937-.3543	3/8	<a href="#">1120.10000</a>	
10.50-9.50	.4134-.3740	13/32	<a href="#">1120.10500</a>	
11.00-10.00*	.4330-.3937	—	<a href="#">1120.11000</a>	
11.50-10.50	.4528-.4134	7/16	<a href="#">1120.11500</a>	
12.00-11.00*	.4724-.4330	15/32	<a href="#">1120.12000</a>	
12.50-11.50	.4921-.4528	—	<a href="#">1120.12500</a>	
13.00-12.00*	.5118-.4724	1/2	<a href="#">1120.13000</a>	

**REGO-FIX® ER20 Metric Metallic Sealed Collets**  
(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00	.1181	—	<a href="#">1220.03000</a>	
4.00	.1575	—	<a href="#">1220.04000</a>	
5.00	.1969	—	<a href="#">1220.05000</a>	
6.00	.2362	—	<a href="#">1220.06000</a>	
7.00-6.50	.2756-.2559	—	<a href="#">1220.07000</a>	
8.00-7.50	.3150-.2653	9/32 & 5/16	<a href="#">1220.08000</a>	
9.00-8.50	.3543-.3347	11/32	<a href="#">1220.09000</a>	
10.00-9.50	.3937-.3740	3/8	<a href="#">1220.10000</a>	
11.00-10.50	.4330-.4134	—	<a href="#">1220.11000</a>	
12.00-11.50	.4724-.4528	15/32	<a href="#">1220.12000</a>	
13.00-12.50	.5118-.4921	1/2	<a href="#">1220.13000</a>	

\* Represents items included in the Collet Set on page 594.





## ER25 Collets

### REGO-FIX® ER25 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 9 pc Collet Set with tray; includes all sizes	<a href="#">1125.00002</a>	
<b>Fractional Metallic Sealed</b> 7 pc Collet Set with tray; includes all sizes	<a href="#">1225.00002</a>	
<b>Metric</b> 15 pc Collet Set with tray *Sizes that are included in sets - see page 597	<a href="#">1125.00000</a>	
<b>Metric Metallic Sealed</b> 6 pc Collet Set with tray *Sizes that are included in sets - see page 597	<a href="#">1225.00000</a>	

### REGO-FIX® ER25 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/8</b>	.1250-.0850	3.18-2.18	<a href="#">1125.03182</a>	
<b>3/16</b>	.1875-.1475	4.76-3.76	<a href="#">1125.04762</a>	
<b>1/4</b>	.2500-.2100	6.35-5.35	<a href="#">1125.06352</a>	
<b>5/16</b>	.3125-.2725	7.94-6.94	<a href="#">1125.07942</a>	
<b>3/8</b>	.3750-.3350	9.53-8.53	<a href="#">1125.09532</a>	
<b>7/16</b>	.4375-.3975	11.11-10.11	<a href="#">1125.11112</a>	
<b>1/2</b>	.5000-.4600	12.70-11.70	<a href="#">1125.12702</a>	
<b>9/16</b>	.5625-.5225	14.29-13.29	<a href="#">1125.14292</a>	
<b>5/8</b>	.6250-.5820	15.88-14.88	<a href="#">1125.15882</a>	

### REGO-FIX® ER25 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/4</b>	.2500	6.35	<a href="#">1225.06352</a>	
<b>5/16</b>	.3125-.2929	7.94-7.44	<a href="#">1225.07942</a>	
<b>3/8</b>	.3750-.3556	9.53-9.03	<a href="#">1225.09532</a>	
<b>7/16</b>	.4375-.4177	11.11-10.61	<a href="#">1225.11112</a>	
<b>1/2</b>	.5000-.4803	12.70-12.20	<a href="#">1225.12702</a>	
<b>9/16</b>	.5625-.5425	14.29-13.79	<a href="#">1225.14292</a>	
<b>5/8</b>	.6250-.6055	15.88-15.38	<a href="#">1225.15882</a>	




Toolholders

**REGO-FIX® ER25 Metric Collets**

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
1.00-0.50	.0394-.0197	1/32	<a href="#">1125.01000</a>	
1.50-1.00	.0591-.0394	—	<a href="#">1125.01500</a>	
2.00-1.00*	.0787-.0394	1/16	<a href="#">1125.02000</a>	
2.50-1.50	.0984-.0591	3/32	<a href="#">1125.02500</a>	
3.00-2.00*	.1181-.0787	—	<a href="#">1125.03000</a>	
3.50-2.50	.1378-.0984	1/8	<a href="#">1125.03500</a>	
4.00-3.00*	.1575-.1181	5/32	<a href="#">1125.04000</a>	
4.50-3.50	.1772-.1378	—	<a href="#">1125.04500</a>	
5.00-4.00*	.1969-.1575	3/16	<a href="#">1125.05000</a>	
5.50-4.50	.2165-.1772	—	<a href="#">1125.05500</a>	
6.00-5.00*	.2362-.1969	7/32	<a href="#">1125.06000</a>	
6.50-5.50	.2559-.2165	—	<a href="#">1125.06500</a>	
7.00-6.00*	.2756-.2362	1/4	<a href="#">1125.07000</a>	
7.50-6.50	.2953-.2559	9/32	<a href="#">1125.07500</a>	
8.00-7.00*	.3150-.2756	5/16	<a href="#">1125.08000</a>	
8.50-7.50	.3347-.2953	—	<a href="#">1125.08500</a>	
9.00-8.00*	.3543-.3150	11/32	<a href="#">1125.09000</a>	
9.50-8.50	.3740-.3347	—	<a href="#">1125.09500</a>	
10.00-9.00*	.3937-.3543	3/8	<a href="#">1125.10000</a>	
10.50-9.50	.4134-.3740	13/32	<a href="#">1125.10500</a>	
11.00-10.00*	.4330-.3937	—	<a href="#">1125.11000</a>	
11.50-10.50	.4528-.4134	7/16	<a href="#">1125.11500</a>	
12.00-11.00*	.4724-.4330	15/32	<a href="#">1125.12000</a>	
12.50-11.50	.4921-.4528	—	<a href="#">1125.12500</a>	
13.00-12.00*	.5118-.4724	1/2	<a href="#">1125.13000</a>	
13.50-12.50	.5315-.4921	—	<a href="#">1125.13500</a>	
14.00-13.00*	.5512-.5118	17/32	<a href="#">1125.14000</a>	
14.50-13.50	.5709-.5315	—	<a href="#">1125.14500</a>	
15.00-14.00*	.5905-.5512	9/16	<a href="#">1125.15000</a>	
15.50-14.50	.6102-.5709	19/32	<a href="#">1125.15500</a>	
16.00-15.00*	.6300-.5905	5/8	<a href="#">1125.16000</a>	

**REGO-FIX® ER25 Metric Metallic Sealed Collets**  
(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	<a href="#">1225.06000</a>	
8.00-7.50	.3150-.2953	5/16	<a href="#">1225.08000</a>	
10.00-9.50	.3937-.3740	3/8	<a href="#">1225.10000</a>	
12.00-11.50	.4724-.4528	15/32	<a href="#">1225.12000</a>	
14.00-13.50	.5512-.5315	—	<a href="#">1225.14000</a>	
16.00-15.50	.6300-.6102	5/8	<a href="#">1225.16000</a>	



\* Represents items included in the Collet Set on page 596.

## ER32 Collets

### REGO-FIX® ER32 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 12 pc Collet Set with tray; includes all sizes	<a href="#">1132.00002</a>	
<b>Fractional Metallic Sealed</b> 9 pc Collet Set with tray; includes all sizes	<a href="#">1232.00002</a>	
<b>Metric</b> 18 pc Collet Set with tray *Sizes that are included in sets - see page 599.	<a href="#">1132.00000</a>	
<b>Metric Metallic Sealed</b> 8 pc Collet Set with tray - see page 599.	<a href="#">1232.00000</a>	

### REGO-FIX® ER32 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/8</b>	.1250-.0850	3.18-2.18	<a href="#">1132.03182</a>	
<b>3/16</b>	.1875-.1475	4.76-3.76	<a href="#">1132.04762</a>	
<b>1/4</b>	.2500-.2100	6.35-5.35	<a href="#">1132.06352</a>	
<b>5/16</b>	.3125-.2725	7.94-6.94	<a href="#">1132.07942</a>	
<b>3/8</b>	.3750-.3350	9.53-8.53	<a href="#">1132.09532</a>	
<b>7/16</b>	.4375-.3975	11.11-10.11	<a href="#">1132.11112</a>	
<b>1/2</b>	.5000-.4600	12.70-11.70	<a href="#">1132.12702</a>	
<b>9/16</b>	.5625-.5225	14.29-13.29	<a href="#">1132.14292</a>	
<b>5/8</b>	.6250-.5820	15.88-14.88	<a href="#">1132.15882</a>	
<b>11/16</b>	.6875-.6475	17.46-16.46	<a href="#">1132.17462</a>	
<b>3/4</b>	.7500-.7100	19.05-18.05	<a href="#">1132.19052</a>	
<b>13/16</b>	.8125-.7725	20.64-19.64	<a href="#">1132.20642</a>	

### REGO-FIX® ER32 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
<b>1/4</b>	.2500	6.35	<a href="#">1232.06352</a>	
<b>5/16</b>	.3125-.2929	7.94-7.44	<a href="#">1232.07942</a>	
<b>3/8</b>	.3750-.3556	9.53-9.03	<a href="#">1232.09532</a>	
<b>7/16</b>	.4375-.4177	11.11-10.61	<a href="#">1232.11112</a>	
<b>1/2</b>	.5000-.4803	12.70-12.20	<a href="#">1232.12702</a>	
<b>9/16</b>	.5625-.5425	14.29-13.79	<a href="#">1232.14292</a>	
<b>5/8</b>	.6250-.6055	15.88-15.38	<a href="#">1232.15882</a>	
<b>11/16</b>	.6875-.6677	17.46-16.96	<a href="#">1232.17462</a>	
<b>3/4</b>	.7500-.7303	19.05-18.55	<a href="#">1232.19052</a>	




Toolholders

**REGO-FIX® ER32 Metric Collets**

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
2.00-1.00	.0787-.0394	1/16	<a href="#">1132.02000</a>	
2.50-1.50	.0984-.0591	—	<a href="#">1132.02500</a>	
3.00-2.00*	.1181-.0787	3/32	<a href="#">1132.03000</a>	
3.50-2.50	.1378-.0984	—	<a href="#">1132.03500</a>	
4.00-3.00*	.1575-.1181	1/8	<a href="#">1132.04000</a>	
4.50-3.50	.1772-.1378	5/32	<a href="#">1132.04500</a>	
5.00-4.00*	.1969-.1575	3/16	<a href="#">1132.05000</a>	
5.50-4.50	.2165-.1772	—	<a href="#">1132.05500</a>	
6.00-5.00*	.2362-.1969	7/32	<a href="#">1132.06000</a>	
6.50-5.50	.2559-.2165	—	<a href="#">1132.06500</a>	
7.00-6.00*	.2756-.2362	1/4	<a href="#">1132.07000</a>	
7.50-6.50	.2953-.2559	9/32	<a href="#">1132.07500</a>	
8.00-7.00*	.3150-.2756	5/16	<a href="#">1132.08000</a>	
8.50-7.50	.3347-.2953	—	<a href="#">1132.08500</a>	
9.00-8.00*	.3543-.3150	11/32	<a href="#">1132.09000</a>	
9.50-8.50	.3740-.3347	—	<a href="#">1132.09500</a>	
10.00-9.00*	.3937-.3543	3/8	<a href="#">1132.10000</a>	
10.50-9.50	.4134-.3740	13/32	<a href="#">1132.10500</a>	
11.00-10.00*	.4330-.3937	—	<a href="#">1132.11000</a>	
11.50-10.50	.4528-.4134	—	<a href="#">1132.11500</a>	
12.00-11.00*	.4724-.4330	7/16	<a href="#">1132.12000</a>	
12.50-11.50	.4921-.4528	15/32	<a href="#">1132.12500</a>	
13.00-12.00*	.5118-.4724	1/2	<a href="#">1132.13000</a>	
13.50-12.50	.5315-.4921	17/32	<a href="#">1132.13500</a>	
14.00-13.00*	.5512-.5118	—	<a href="#">1132.14000</a>	
14.50-13.50	.5709-.5315	—	<a href="#">1132.14500</a>	
15.00-14.00*	.5905-.5512	9/16	<a href="#">1132.15000</a>	
15.50-14.50	.6102-.5709	19/32	<a href="#">1132.15500</a>	
16.00-15.00*	.6300-.5905	5/8	<a href="#">1132.16000</a>	
16.50-15.50	.6496-.6102	—	<a href="#">1132.16500</a>	
17.00-16.00*	.6693-.6300	21/32	<a href="#">1132.17000</a>	
17.50-16.50	.6890-.6496	—	<a href="#">1132.17500</a>	
18.00-17.00*	.7087-.6693	11/16	<a href="#">1132.18000</a>	
18.50-17.50	.7284-.6890	23/32	<a href="#">1132.18500</a>	
19.00-18.00*	.7480-.7087	—	<a href="#">1132.19000</a>	
19.50-18.50	.7677-.7284	—	<a href="#">1132.19500</a>	
20.00-19.00*	.7874-.7480	3/4 & 25/32	<a href="#">1132.20000</a>	

**REGO-FIX® ER32 Metric Metallic Sealed Collets**  
(Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	<a href="#">1232.06000</a>	
8.00-7.50	.3150-.2953	5/16	<a href="#">1232.08000</a>	
10.00-9.50	.3937-.3740	3/8	<a href="#">1232.10000</a>	
12.00-11.50	.4724-.4528	15/32	<a href="#">1232.12000</a>	
14.00-13.50	.5512-.5315	—	<a href="#">1232.14000</a>	
16.00-15.50	.6300-.6102	5/8	<a href="#">1232.16000</a>	
18.00-17.50	.7087-.6890	11/16	<a href="#">1232.18000</a>	
20.00-19.50	.7874-.7677	25/32	<a href="#">1232.20000</a>	



\* Represents items included in the Collet Set on page 598.

## ER40 Collets

### REGO-FIX® ER40 Collet Sets

Description	Part #	Photo
<b>Fractional</b> 14 pc Collet Set with tray; includes all sizes	<a href="#">1140.00002</a>	
<b>Fractional Metallic Sealed</b> 10 pc Collet Set with tray; includes all sizes	<a href="#">1240.00002</a>	
<b>Metric</b> 23 pc Collet Set with tray *Sizes that are included in sets - see page 601	<a href="#">1140.00000</a>	
<b>Metric Metallic Sealed</b> 12 pc Collet Set with tray; includes all sizes - see page 602	<a href="#">1240.00000</a>	

### REGO-FIX® ER40 Fractional Collets

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
1/8	.1250-.0850	3.18-2.18	<a href="#">1140.03182</a>	
3/16	.1875-.1475	4.76-3.76	<a href="#">1140.04762</a>	
1/4	.2500-.2100	6.35-5.35	<a href="#">1140.06352</a>	
5/16	.3125-.2725	7.94-6.94	<a href="#">1140.07942</a>	
3/8	.3750-.3350	9.53-8.53	<a href="#">1140.09532</a>	
7/16	.4375-.3975	11.11-10.11	<a href="#">1140.11112</a>	
1/2	.5000-.4600	12.70-11.70	<a href="#">1140.12702</a>	
9/16	.5625-.5225	14.29-13.29	<a href="#">1140.14292</a>	
5/8	.6250-.5850	15.88-14.88	<a href="#">1140.15882</a>	
11/16	.6875-.6475	17.46-16.46	<a href="#">1140.17462</a>	
3/4	.7500-.7100	19.05-18.05	<a href="#">1140.19052</a>	
13/16	.8125-.7725	20.64-19.64	<a href="#">1140.20642</a>	
7/8	.8750-.8350	22.23-21.23	<a href="#">1140.22232</a>	
1	1.000-.9600	25.40-24.40	<a href="#">1140.25402</a>	

### REGO-FIX® ER40 Fractional Metallic Sealed Collets (Good to 2000 psi)

ø (Inch)	Range (Inch)	Range (mm)	Part #	Photo
3/8	.3750-.3556	9.53-9.03	<a href="#">1240.09532</a>	
7/16	.4375-.4177	11.11-10.61	<a href="#">1240.11112</a>	
1/2	.5000-.4803	12.70-12.20	<a href="#">1240.12702</a>	
9/16	.5625-.5425	14.29-13.79	<a href="#">1240.14292</a>	
5/8	.6250-.6055	15.88-15.38	<a href="#">1240.15882</a>	
11/16	.6875-.6677	17.46-16.96	<a href="#">1240.17462</a>	
3/4	.7500-.7303	19.05-18.55	<a href="#">1240.19052</a>	
13/16	.8125-.7929	20.64-20.14	<a href="#">1240.20642</a>	
7/8	.8750-.8555	22.23-21.73	<a href="#">1240.22232</a>	
1	1.0000-.9803	25.40-24.90	<a href="#">1240.25402</a>	



**REGO-FIX® ER40 Metric Collets**

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
3.00-2.00	.1181-.0787	3/32	<a href="#">1140.03000</a>	
3.50-2.50	.1378-.0984	—	<a href="#">1140.03500</a>	
4.00-3.00*	.1575-.1181	1/8	<a href="#">1140.04000</a>	
4.50-3.50	.1772-.1378	5/32	<a href="#">1140.04500</a>	
5.00-4.00*	.1969-.1575	3/16	<a href="#">1140.05000</a>	
5.50-4.50	.2165-.1772	—	<a href="#">1140.05500</a>	
6.00-5.00*	.2362-.1969	7/32	<a href="#">1140.06000</a>	
6.50-5.50	.2559-.2165	—	<a href="#">1140.06500</a>	
7.00-6.00*	.2756-.2362	1/4	<a href="#">1140.07000</a>	
7.50-6.50	.2953-.2559	9/32	<a href="#">1140.07500</a>	
8.00-7.00*	.3150-.2756	5/16	<a href="#">1140.08000</a>	
8.50-7.50	.3347-.2953	—	<a href="#">1140.08500</a>	
9.00-8.00*	.3543-.3150	11/32	<a href="#">1140.09000</a>	
9.50-8.50	.3740-.3347	—	<a href="#">1140.09500</a>	
10.00-9.00*	.3937-.3543	3/8	<a href="#">1140.10000</a>	
10.50-9.50	.4134-.3740	13/32	<a href="#">1140.10500</a>	
11.00-10.00*	.4330-.3937	—	<a href="#">1140.11000</a>	
11.50-10.50	.4528-.4134	—	<a href="#">1140.11500</a>	
12.00-11.00*	.4724-.4330	7/16	<a href="#">1140.12000</a>	
12.50-11.50	.4921-.4528	15/32	<a href="#">1140.12500</a>	
13.00-12.00*	.5118-.4724	1/2	<a href="#">1140.13000</a>	
13.50-12.50	.5315-.4921	17/32	<a href="#">1140.13500</a>	
14.00-13.00*	.5512-.5118	—	<a href="#">1140.14000</a>	
14.50-13.50	.5709-.5315	—	<a href="#">1140.14500</a>	
15.00-14.00*	.5905-.5512	9/16	<a href="#">1140.15000</a>	
15.50-14.50	.6102-.5709	19/32	<a href="#">1140.15500</a>	
16.00-15.00*	.6300-.5905	5/8	<a href="#">1140.16000</a>	
16.50-15.50	.6496-.6102	—	<a href="#">1140.16500</a>	
17.00-16.00*	.6693-.6300	21/32	<a href="#">1140.17000</a>	
17.50-16.50	.6890-.6496	—	<a href="#">1140.17500</a>	
18.00-17.00*	.7087-.6693	11/16	<a href="#">1140.18000</a>	
18.50-17.50	.7284-.6890	23/32	<a href="#">1140.18500</a>	
19.00-18.00*	.7480-.7087	—	<a href="#">1140.19000</a>	
19.50-18.50	.7677-.7284	—	<a href="#">1140.19500</a>	
20.00-19.00*	.7874-.7480	3/4 & 25/32	<a href="#">1140.20000</a>	
20.50-19.50	.8071-.7677	—	<a href="#">1140.20500</a>	
21.00-20.00*	.8268-.7874	13/16	<a href="#">1140.21000</a>	
21.50-20.50	.8465-.8071	27/32	<a href="#">1140.21500</a>	
22.00-21.00*	.8661-.8268	—	<a href="#">1140.22000</a>	
22.50-21.50	.8858-.8465	7/8	<a href="#">1140.22500</a>	
23.00-22.00*	.9055-.8661	—	<a href="#">1140.23000</a>	
23.50-22.50	.9252-.8858	29/32	<a href="#">1140.23500</a>	
24.00-23.00*	.9449-.9055	15/16	<a href="#">1140.24000</a>	
24.50-23.50	.9646-.9252	—	<a href="#">1140.24500</a>	
25.00-24.00*	.9843-.9449	31/32	<a href="#">1140.25000</a>	
25.50-24.50	1.0039-.9646	1	<a href="#">1140.25500</a>	
26.00-25.00*	1.0236-.9843	—	<a href="#">1140.26000</a>	
27.00-26.00	1.0630-1.0236	1-1/16	<a href="#">1140.27000</a>	
28.00-27.00	1.1024-1.0630	1-3/32	<a href="#">1140.28000</a>	
29.00-28.00	1.1417-1.1024	1-1/8	<a href="#">1140.29000</a>	
30.00-29.00	1.1811-1.1417	1-5/32	<a href="#">1140.30000</a>	

\* Represents items included in the Collet Set on page 600.





## ER40 Collets



### REGO-FIX<sup>®</sup> ER40 Metric Metallic Sealed Collets (Good to 2000 psi)

Range (mm)	Range (Inch)	ø (Inch)	Part #	Photo
6.00	.2362	—	<a href="#">1240.06000</a>	
8.00	.3150	—	<a href="#">1240.08000</a>	
10.00-9.50	.3937-.3740	3/8	<a href="#">1240.10000</a>	
12.00-11.50	.4724-.4528	15/32	<a href="#">1240.12000</a>	
14.00-13.50	.5512-.5315	—	<a href="#">1240.14000</a>	
16.00-15.50	.6300-.6102	5/8	<a href="#">1240.16000</a>	
18.00-17.50	.7087-.6890	—	<a href="#">1240.18000</a>	
20.00-19.50	.7874-.7677	25/32	<a href="#">1240.20000</a>	
22.00-21.50	.8661-.8465	—	<a href="#">1240.22000</a>	
24.00-23.50	.9449-.9252	15/16	<a href="#">1240.24000</a>	
25.00-24.50	.9843-.9646	31/32	<a href="#">1240.25000</a>	
26.00-25.50	1.0236-1.0039	—	<a href="#">1240.26000</a>	

**ER11 Small Tool Adapter for Milling & Boring**

Bore Ø D1	Neck Ext. Ø D2	Ext. Length L1	Taper	Part #	Photo	Dimensions
.1181 (3mm)	.315 (8mm)	.394 (10mm)	ER11	<a href="#">RA1000</a>		
.1181 (3mm)	.315 (8mm)	.590 (15mm)	ER11	<a href="#">RA1001</a>		
.1181 (3mm)	.315 (8mm)	.787 (20mm)	ER11	<a href="#">RA1002</a>		
.1250 (1/8)	.315 (8mm)	.394 (10mm)	ER11	<a href="#">RA1006</a>		
.1250 (1/8)	.315 (8mm)	.590 (15mm)	ER11	<a href="#">RA1007</a>		
.1250 (1/8)	.315 (8mm)	.787 (20mm)	ER11	<a href="#">RA1008</a>		
.1574 (4mm)	.315 (8mm)	.787 (20mm)	ER11	<a href="#">RA1010</a>		

**ER16 Small Tool Adapter for Milling & Boring**

Bore Ø D1	Neck Ext. Ø D2	Ext. Length L1	Taper	Part #	Photo	Dimensions
.1181 (3mm)	.374 (9.5mm)	.630 (16mm)	ER16	<a href="#">RA1014</a>		
.1181 (3mm)	.374 (9.5mm)	.984 (25mm)	ER16	<a href="#">RA1015</a>		
.1250 (1/8)	.374 (9.5mm)	.630 (16mm)	ER16	<a href="#">RA1018</a>		
.1250 (1/8)	.374 (9.5mm)	.984 (25mm)	ER16	<a href="#">RA1019</a>		
.1574 (4mm)	.374 (9.5mm)	.630 (16mm)	ER16	<a href="#">RA1022</a>		
.1574 (4mm)	.374 (9.5mm)	.984 (25mm)	ER16	<a href="#">RA1023</a>		
.1875 (3/16)	.374 (9.5mm)	.630 (16mm)	ER16	<a href="#">RA1026</a>		
.1875 (3/16)	.374 (9.5mm)	.984 (25mm)	ER16	<a href="#">RA1027</a>		
.1969 (5mm)	.374 (9.5mm)	.630 (16mm)	ER16	<a href="#">RA1032</a>		
.1969 (5mm)	.374 (9.5mm)	.984 (25mm)	ER16	<a href="#">RA1033</a>		



**Replacement Hardware for Small Tool Milling and Boring Adapters**

Type	Description	Part #
M3 X .5 X 3	Socket Head Set Screws Stainless	<a href="#">RA1050</a>
M6 X 1.0 X 5	Socket Head Stop Screw	<a href="#">RA1051</a>
M8 X 1.25 X 8	Socket Head Stop Screw	<a href="#">RA1054</a>





## Small Tool Adapters



### ER20 Small Tool Adapter for Milling & Boring

Bore Ø D1	Neck Ext. Ø D2	Ext. Length L1	Taper	Part #	Photo	Dimensions
.1181 (3mm)	.374 (9.5MM)	.984 (25mm)	ER20	<a href="#">RA1040</a>		
.1250 (1/8)	.374 (9.5MM)	.630 (16mm)	ER20	<a href="#">RA1041</a>		
.1250 (1/8)	.374 (9.5MM)	.984 (25mm)	ER20	<a href="#">RA1042</a>		
.1575 (4mm)	.374 (9.5MM)	.630 (16mm)	ER20	<a href="#">RA1043</a>		
.1575 (4mm)	.374 (9.5MM)	.984 (25mm)	ER20	<a href="#">RA1044</a>		
.1875 (3/16)	.449 (11.4)	.551 (14mm)	ER20	<a href="#">RA1055</a>		
.1875 (3/16)	.449 (11.4)	.630 (16mm)	ER20	<a href="#">RA1056</a>		
.1875 (3/16)	.449 (11.4)	.984 (25mm)	ER20	<a href="#">RA1057</a>		
.1969 (5mm)	.449 (11.4)	.551 (14mm)	ER20	<a href="#">RA1058</a>		
.1969 (5mm)	.449 (11.4)	.984 (25mm)	ER20	<a href="#">RA1059</a>		
.2362 (6mm)	.492 (12.5)	.551 (14mm)	ER20	<a href="#">RA1060</a>		
.2362 (6mm)	.492 (12.5)	.984 (25mm)	ER20	<a href="#">RA1061</a>		
.2500 (1/4)	.492 (12.5)	.551 (14mm)	ER20	<a href="#">RA1062</a>		
.2500 (1/4)	.492 (12.5)	.984 (25mm)	ER20	<a href="#">RA1063</a>		

### ER25 Small Tool Adapter for Milling & Boring

Bore Ø D1	Neck Ext. Ø D2	Ext. Length L1	Taper	Part #	Photo	Dimensions
.1181 (3mm)	.394 (10mm)	.984 (25mm)	ER25	<a href="#">RA1070</a>		
.1250 (1/8)	.394 (10mm)	.984 (25mm)	ER25	<a href="#">RA1071</a>		
.1575 (4mm)	.394 (10mm)	.984 (25mm)	ER25	<a href="#">RA1072</a>		
.1875 (3/16)	.492 (12.5)	.984 (25mm)	ER25	<a href="#">RA1073</a>		
.1969 (5mm)	.492 (12.5)	.984 (25mm)	ER25	<a href="#">RA1074</a>		
.2362 (6mm)	.492 (12.5)	.984 (25mm)	ER25	<a href="#">RA1075</a>		
.2756 (7mm)	.630 (16mm)	.984 (25mm)	ER25	<a href="#">RA1076</a>		
.3125 (5/16)	.630 (16mm)	.984 (25mm)	ER25	<a href="#">RA1077</a>		
.3150 (8mm)	.630 (16mm)	.984 (25mm)	ER25	<a href="#">RA1078</a>		

**ER16 Small Tool Adapter for Sawing**

Pilot Dia D1	Nut Dia D2	Ext. Length L1	Nut Length L2	Thread	Taper	Part #	Photo	Dimensions
.1181 (3mm)	.252 (6.4mm)	.984 (25mm)	.354 (9mm)	M3X.5	ER16	<a href="#">RA2000</a>		
.1181 (3mm)	.252 (6.4mm)	1.260 (32mm)	.354 (9mm)	M3X.5	ER16	<a href="#">RA2001</a>		
.1250 (1/8)	.252 (6.4mm)	.984 (25mm)	.354 (9mm)	M3X.5	ER16	<a href="#">RA2004</a>		
.1250 (1/8)	.252 (6.4mm)	1.260 (32mm)	.354 (9mm)	M3X.5	ER16	<a href="#">RA2005</a>		
.1875 (3/16)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	10-32	ER16	<a href="#">RA2008</a>		
.1875 (3/16)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	10-32	ER16	<a href="#">RA2009</a>		
.1969 (5mm)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	M5X.8	ER16	<a href="#">RA2012</a>		
.1969 (5mm)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	M5X.8	ER16	<a href="#">RA2013</a>		
.2362 (6mm)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	M6X1	ER16	<a href="#">RA2016</a>		
.2362 (6mm)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	M6X1	ER16	<a href="#">RA2017</a>		
.2500 (1/4)	.374 (9.5mm)	.984 (25mm)	.354 (9mm)	1/4-32	ER16	<a href="#">RA2020</a>		
.2500 (1/4)	.374 (9.5mm)	1.260 (32mm)	.354 (9mm)	1/4-32	ER16	<a href="#">RA2021</a>		
.3125 (5/16)	.394 (10mm)	.984 (25mm)	.354 (9mm)	5/16-32	ER16	<a href="#">RA2024</a>		
.3125 (5/16)	.394 (10mm)	1.260 (32mm)	.354 (9mm)	5/16-32	ER16	<a href="#">RA2025</a>		
.3150 (8mm)	.394 (10mm)	.984 (25mm)	.354 (9mm)	5/16-32	ER16	<a href="#">RA2028</a>		
.3150 (8mm)	.394 (10mm)	1.260 (32mm)	.354 (9mm)	5/16-32	ER16	<a href="#">RA2029</a>		

Note: Recommended MAX. SAW THICKNESS: ~2mm / .080"

**Small Tool Saw Adapter Spare Arbor Nuts**

Description	Nut Diameter	Nut Thickness	Type	Part #	Dimensions
M3X.5 Arbor Jam Nut	.240 (6.0mm)	.118 (2.9mm)	1	<a href="#">RA2040</a>	
M3X.5 Arbor Nut	.252 (6.4mm)	.354 (9mm)	2	<a href="#">RA2050</a>	
10-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2041</a>	
10-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2051</a>	
M5X.8 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2042</a>	
M5X.8 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2052</a>	
M6X1 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2043</a>	
M6X1 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2053</a>	
1/4-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2044</a>	
1/4-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2054</a>	
5/16-32 Arbor Jam Nut	.384 (9.7mm)	.118 (2.9mm)	1	<a href="#">RA5045</a>	
5/16-32 Arbor Nut	.394 (10mm)	.354 (9mm)	2	<a href="#">RA2055</a>	

## Saw Adapters

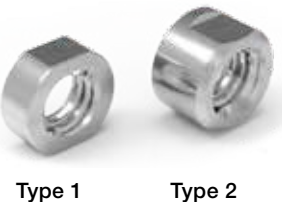
### ER20 Small Tool Adapter for Sawing

Pilot Dia D1	Nut Dia D2	Ext. Length L1	Nut Length L2	Thread	Taper	Part #	Photo	Dimensions
.118 (3.00mm)	.250 (6.35mm)	.709 (18mm)	.250 (6.35mm)	M3x.5	ER20	<a href="#">RA2070</a>		
.118 (3.00mm)	.250 (6.35mm)	1.180 (30mm)	.250 (6.35mm)	M3x.5	ER20	<a href="#">RA2071</a>		
.125 (3.18mm)	.250 (6.35mm)	.709 (18mm)	.250 (6.35mm)	M3x.5	ER20	<a href="#">RA2072</a>		
.125 (3.18mm)	.250 (6.35mm)	1.180 (30mm)	.250 (6.35mm)	M3x.5	ER20	<a href="#">RA2073</a>		
.187 (4.76mm)	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	3/16-32	ER20	<a href="#">RA2074</a>		
.187 (4.76mm)	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	3/16-32	ER20	<a href="#">RA2075</a>		
.197 (5.00mm)	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	3/16-32	ER20	<a href="#">RA2076</a>		
.197 (5.00mm)	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	3/16-32	ER20	<a href="#">RA2077</a>		
.236 (6.00mm)	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	M6x1	ER20	<a href="#">RA2078</a>		
.236 (6.00mm)	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	M6x1	ER20	<a href="#">RA2079</a>		
.250 (6.35mm)	.375 (9.53mm)	.709 (18mm)	.250 (6.35mm)	1/4-32	ER20	<a href="#">RA2080</a>		
.250 (6.35mm)	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	1/4-32	ER20	<a href="#">RA2081</a>		
.312 (7.94mm)	.375 (9.50mm)	.709 (18mm)	.250 (6.35mm)	5/16-32	ER20	<a href="#">RA2082</a>		
.312 (7.94mm)	.375 (9.53mm)	1.180 (30mm)	.250 (6.35mm)	5/16-32	ER20	<a href="#">RA2083</a>		
.315 (8.00mm)	.394 (10.00mm)	.709 (18mm)	.250 (6.35mm)	5/16-32	ER20	<a href="#">RA2084</a>		
.315 (8.00mm)	.394 (10.00mm)	1.180 (30mm)	.250 (6.35mm)	5/16-32	ER20	<a href="#">RA2085</a>		
.375 (9.52mm)	.492 (12.00mm)	.709 (18mm)	.276 (7.00mm)	3/8-32	ER20	<a href="#">RA2086</a>		
.375 (9.52mm)	.492 (12.00mm)	1.180 (30mm)	.276 (7.00mm)	3/8-32	ER20	<a href="#">RA2087</a>		
.394 (10.00mm)	.492 (12.00mm)	.709 (18mm)	.276 (7.00mm)	3/8-32	ER20	<a href="#">RA2088</a>		
.394 (10.00mm)	.492 (12.00mm)	1.180 (30mm)	.276 (7.00mm)	3/8-32	ER20	<a href="#">RA2089</a>		


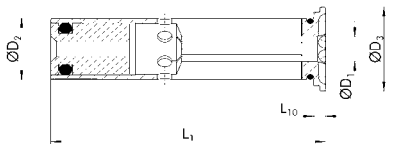
Note: Recommended MAX. SAW THICKNESS: ~2mm / .080"

### Small Tool Saw Adapter Spare Arbor Nuts


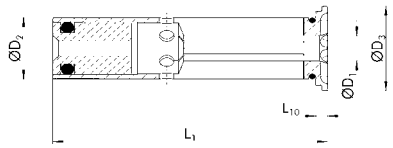
Description	Nut Diameter	Nut Thickness	Type	Part #	Dimensions
M3X.5 Arbor Jam Nut	.240 (6.0mm)	.118 (2.9mm)	1	<a href="#">RA2040</a>	
M3X.5 Arbor Nut	.252 (6.4mm)	.354 (9mm)	2	<a href="#">RA2050</a>	
10-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2041</a>	
10-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2051</a>	
M5X.8 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2042</a>	
M5X.8 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2052</a>	
M6X1 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2043</a>	
M6X1 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2053</a>	
1/4-32 Arbor Jam Nut	.365 (9.2mm)	.118 (2.9mm)	1	<a href="#">RA2044</a>	
1/4-32 Arbor Nut	.374 (9.5mm)	.354 (9mm)	2	<a href="#">RA2054</a>	
5/16-32 Arbor Jam Nut	.384 (9.7mm)	.118 (2.9mm)	1	<a href="#">RA5045</a>	
5/16-32 Arbor Nut	.394 (10mm)	.354 (9mm)	2	<a href="#">RA2055</a>	



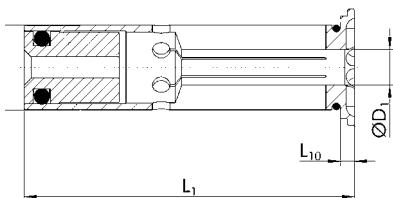
**SCHUNK 1/2" Hydraulic Chuck Sleeves  
Coolant Sealed & Coolant Flush Metric**

Bore Ø Metric D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
3mm (.1181)	1/2	16.5	45	2	<a href="#">0224381</a>	—		
4mm (.1575)	1/2	16.5	45	2	<a href="#">0224382</a>	—		
5mm (.1969)	1/2	16.5	45	2	<a href="#">0224383</a>	<a href="#">0217383</a>		
6mm (.2362)	1/2	16.5	45	2	<a href="#">0224384</a>	<a href="#">0217384</a>		
8mm (.3150)	1/2	16.5	45	2	<a href="#">0224385</a>	—		

**SCHUNK 1/2" Hydraulic Chuck Sleeves  
Coolant Sealed & Coolant Flush Fractional**

Bore Ø Inch D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
1/8	1/2	16.5	45	2	<a href="#">0224376</a>	<a href="#">0217376</a>		
3/16	1/2	16.5	45	2	<a href="#">0224377</a>	<a href="#">0217377</a>		
1/4	1/2	16.5	45	2	<a href="#">0224378</a>	<a href="#">0217378</a>		
5/16	1/2	16.5	45	2	<a href="#">0224379</a>	<a href="#">0217379</a>		
3/8	1/2	16.5	45	2	<a href="#">0224380</a>	<a href="#">0217380</a>		

**SCHUNK 3/4" Hydraulic Chuck Sleeves  
Coolant Sealed & Coolant Flush Fractional**

Bore Ø Inch D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
1/8	3/4	24.0	50.5	2.0	<a href="#">0224386</a>	<a href="#">0217960</a>		
3/16	3/4	24.0	50.5	2.0	<a href="#">0224387</a>	<a href="#">0217961</a>		
1/4	3/4	24.0	50.5	2.0	<a href="#">0224388</a>	<a href="#">0217962</a>		
5/16	3/4	24.0	50.5	2.0	<a href="#">0224389</a>	<a href="#">0217963</a>		
3/8	3/4	24.0	50.5	2.0	<a href="#">0224390</a>	<a href="#">0217964</a>		
7/16	3/4	24.0	50.5	2.0	<a href="#">0224391</a>	<a href="#">0217965</a>		
1/2	3/4	24.0	50.5	2.0	<a href="#">0224392</a>	<a href="#">0217966</a>		
9/16	3/4	24.0	50.5	2.0	<a href="#">0224393</a>	<a href="#">0217967</a>		
5/8	3/4	24.0	50.5	2.0	<a href="#">0224394</a>	<a href="#">0217968</a>		

## Hydraulic Chuck Sleeves

### SCHUNK 3/4" Hydraulic Chuck Sleeves Coolant Sealed & Coolant Flush Metric

Bore Ø Metric D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
3mm (.1181)	3/4	24.0	50.5	2.0	<a href="#">0224395</a>	<a href="#">0217969</a>		
4mm (.1575)	3/4	24.0	50.5	2.0	<a href="#">0224396</a>	<a href="#">0217970</a>		
5mm (.1969)	3/4	24.0	50.5	2.0	<a href="#">0224397</a>	<a href="#">0217971</a>		
6mm (.2362)	3/4	24.0	50.5	2.0	<a href="#">0224398</a>	<a href="#">0217972</a>		
8mm (.3150)	3/4	24.0	50.5	2.0	<a href="#">0224399</a>	<a href="#">0217973</a>		
10mm (.3937)	3/4	24.0	50.5	2.0	<a href="#">0224400</a>	<a href="#">0217974</a>		
12mm (.4724)	3/4	24.0	50.5	2.0	<a href="#">0224401</a>	<a href="#">0217975</a>		
14mm (.5512)	3/4	24.0	50.5	2.0	<a href="#">0224402</a>	<a href="#">0217976</a>		

### SCHUNK 1-1/4" Hydraulic Chuck Sleeves Coolant Sealed & Coolant Flush Fractional


Bore Ø Inch D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
1/4	1-1/4	35.5	60.5	3.0	<a href="#">0224404</a>	<a href="#">0217980</a>		
5/16	1-1/4	35.5	60.5	3.0	<a href="#">0224405</a>	<a href="#">0217981</a>		
3/8	1-1/4	35.5	60.5	3.0	<a href="#">0224406</a>	<a href="#">0217982</a>		
7/16	1-1/4	35.5	60.5	3.0	<a href="#">0224407</a>	—		
1/2	1-1/4	35.5	60.5	3.0	<a href="#">0224408</a>	<a href="#">0217984</a>		
9/16	1-1/4	35.5	60.5	3.0	<a href="#">0224409</a>	<a href="#">0217985</a>		
5/8	1-1/4	35.5	60.5	3.0	<a href="#">0224410</a>	<a href="#">0217986</a>		
11/16	1-1/4	35.5	60.5	3.0	<a href="#">0224411</a>	<a href="#">0217987</a>		
3/4	1-1/4	35.5	60.5	3.0	<a href="#">0224412</a>	<a href="#">0217988</a>		
13/16	1-1/4	35.5	60.5	3.0	<a href="#">0224413</a>	—		
7/8	1-1/4	35.5	60.5	3.0	<a href="#">0224414</a>	<a href="#">0217990</a>		
15/16	1-1/4	35.5	60.5	3.0	<a href="#">0224415</a>	—		
1	1-1/4	35.5	60.5	3.0	<a href="#">0224416</a>	<a href="#">0217992</a>		

### SCHUNK 1-1/4" Hydraulic Chuck Sleeves Coolant Sealed & Coolant Flush Metric

Bore Ø Metric D1	D2	D3	L1	L10	Coolant Sealed Part #	Coolant Flush Part #	Photo	Dimensions
8mm (.3150)	1-1/4	35.5	60.5	3.0	<a href="#">0224421</a>	—		
10mm (.3937)	1-1/4	35.5	60.5	3.0	<a href="#">0224422</a>	—		
12mm (.4724)	1-1/4	35.5	60.5	3.0	<a href="#">0224423</a>	—		
14mm (.5512)	1-1/4	35.5	60.5	3.0	<a href="#">0224424</a>	—		
16mm (.6299)	1-1/4	35.5	60.5	3.0	<a href="#">0224425</a>	—		
18mm (.7087)	1-1/4	35.5	60.5	3.0	<a href="#">0224426</a>	—		
20mm (.7874)	1-1/4	35.5	60.5	3.0	<a href="#">0224427</a>	<a href="#">0218010</a>		
25mm (.9843)	1-1/4	35.5	60.5	3.0	<a href="#">0224428</a>	<a href="#">0218011</a>		


Toolholders

### BILZ #1 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
#0-6	.141	.110	<a href="#">21-100-019</a>	
#8	.168	.131	<a href="#">21-100-027</a>	
#10	.194	.152	<a href="#">21-100-038</a>	
#12	.220	.165	<a href="#">21-100-046</a>	
1/4 (M6)	.255	.191	<a href="#">21-100-063</a>	
5/16 (M8)	.318	.238	<a href="#">21-100-089</a>	
3/8 (M10)	.381	.286	<a href="#">21-100-112</a>	
7/16	.323	.242	<a href="#">21-100-091</a>	
1/2 (M12)	.367	.275	<a href="#">21-100-105</a>	
9/16	.429	.322	<a href="#">21-100-119</a>	
1/16 Pipe	.313	.234	<a href="#">21-100-081</a>	
1/8 Pipe*	.437	.328	<a href="#">21-100-124</a>	
Set includes one of each of the above EXCEPT 1/8 pipe.			<a href="#">21-100-SET</a>	


\* Large Shank

### BILZ #2 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
1/4 (M6)	.255	.191	<a href="#">22-100-010</a>	
5/16 (M8)	.318	.238	<a href="#">22-100-022</a>	
3/8 (M10)	.381	.286	<a href="#">22-100-040</a>	
7/16	.323	.242	<a href="#">22-100-023</a>	
1/2 (M12)	.367	.275	<a href="#">22-100-033</a>	
9/16	.429	.322	<a href="#">22-100-043</a>	
5/8	.480	.360	<a href="#">22-100-058</a>	
11/16	.542	.406	<a href="#">22-100-067</a>	
3/4	.590	.442	<a href="#">22-100-147</a>	
13/16	.652	.489	<a href="#">22-100-089</a>	
7/8	.697	.523	<a href="#">22-100-093</a>	
1/8 Pipe	.437	.328	<a href="#">22-102-016</a>	
1/4 Pipe	.562	.421	<a href="#">22-102-002</a>	
3/8 Pipe	.700	.531	<a href="#">22-102-005</a>	
1/2 Pipe*	.687	.515	<a href="#">22-102-004</a>	
Set includes one of each of the above EXCEPT 11/16, 13/16 and 7/8.			<a href="#">22-100-SET</a>	

\* Large Shank

### BILZ #3 Tap Collets

Tap Size	Shank ø	Square	Part #	Photo
3/4	.590	.442	<a href="#">23-100-013</a>	
13/16 (M20)	.652	.489	<a href="#">23-100-018</a>	
7/8 (M22)	.697	.523	<a href="#">23-100-021</a>	
15/16 (M24)	.760	.570	<a href="#">23-100-028</a>	
1 (M25)	.800	.600	<a href="#">23-100-031</a>	
1-1/8	.896	.672	<a href="#">23-100-038</a>	
1-1/4	1.021	.766	<a href="#">23-100-045</a>	
1-3/8	1.108	.831	<a href="#">23-100-053</a>	
3/8 Pipe	.700	.531	<a href="#">23-102-035</a>	
1/2 Pipe	.688	.515	<a href="#">23-102-049</a>	
3/4 Pipe	.906	.679	<a href="#">23-102-004</a>	
1 Pipe	1.125	.843	<a href="#">23-102-007</a>	
Set includes one of each of the above.			<a href="#">23-100-SET</a>	

## Retention Knobs & Setup Fixtures

### CAT40 Standard Retention Knobs

All retention knobs are compatible with all Haas CAT40 spindles. Retention knobs are also compatible with other manufacturers - please check your machine specifications to see if they are compatible with your equipment.

Machine Type	A	B	C	Angle	Thread Size	Hole $\phi$	Torque Ft/lbs	Part #	Photo	Dimensions
Haas	.590	.390	1.270	45	5/8-11	—	30	<a href="#">RC4HRKZ</a>		
Haas	.590	.390	1.270	45	5/8-11	.190	30	<a href="#">RC4HRKCZ</a>		

### CAT50 Standard Retention Knobs

All retention knobs are compatible with all Haas CAT50 spindles. Retention knobs are also compatible with other manufacturers - please check your machine specifications to see if they are compatible with your equipment.

Machine Type	A	B	C	Angle	Thread Size	Hole $\phi$	Torque Ft/lbs	Part #	Photo	Dimensions
Haas	.910	.670	1.780	45	1-8	—	75	<a href="#">RC5HRKZ</a>		
Haas	.910	.670	1.780	45	1-8	.310	75	<a href="#">RC5HRKCZ</a>		

### Swivel Tightening Fixtures

Swivels to vertical and horizontal orientation. Mounts directly to workbench. Compatible with BT30, CAT40, BT40, CAT50, BT50, HSK63A AND HSK100A.

Taper Size	Photo	Part #
BT30		<a href="#">RSTF30Z</a>
CAT40, BT40		<a href="#">RSTF40Z</a>
CAT50, BT50		<a href="#">RSTF50Z</a>
HSK63A		<a href="#">RSTFHSK63AZ</a>
HSK100A		<a href="#">RSTFHSK100AZ</a>



### PRODUCT FEATURES

- Connect to power and air and change tools in 5 minutes or less.
- Includes all 4 induction rings listed below.
- Includes toolholder adapter discs for **40 Taper, PSC6 and HSK63**
- CAT50 AND HSK100 are built into the machine. No adapter required.
- The **OPTIONAL Toolholder Adapter Disk Pack** includes toolholder adapter discs for the following spindle adaptations - BT30, 40 Taper, HSK 40/50/63 and PSC4/PSC5/PSC6 (Not Sold Individually)
- Tools with up to 11" Gage Lengths can be accommodated.
- Easy to use touch screen adjustments for temp and time settings.
- Cooling Cycle uses 90 PSI shop air to cool the holder for safe handling.

### MACHINE SPECIFICATIONS

Tool Diameter	Power	L x D x H	Ship Wt	Part #
1/8"-1-1/4"	<b>208-240VAC, single phase, 30A, NEMA L6-30P</b>	16" x 16" x 22"	70 lbs	<a href="#">RSFM10</a>
1/8"-1-1/4"	<b>208-240VAC, 3 phase, 30A, NEMA L15-30P</b>	16" x 16" x 22"	70 lbs	<a href="#">RSFM20</a>

Accessories	Item #
Thermal Insulated Glove	<a href="#">RTIG01</a>
Induction Ring (3MM-5MM)	<a href="#">RIR0305</a>
Induction Ring (6MM-12MM)	<a href="#">RIR0612</a>
Induction Ring (14MM-20MM)	<a href="#">RIR1420</a>
Induction Ring (25MM-32MM)	<a href="#">RIR2532</a>
<b>Toolholder Adapter Disk Pack (Includes all adapters below)</b>	<a href="#">RTHADPK10/20</a>
Toolholder Adapter - BT30	<b>Not Sold Individually</b>
Toolholder Adapter - 40 Taper	<b>Not Sold Individually</b>
Toolholder Adapter - HSK40 & PSC4	<b>Not Sold Individually</b>
Toolholder Adapter - HSK50 & PSC5	<b>Not Sold Individually</b>
Toolholder Adapter - PSC6	<b>Not Sold Individually</b>
Toolholder Adapter - HSK63	<b>Not Sold Individually</b>



Induction Ring



Toolholder Adapter Disc Pack



## RSFM30



### PRODUCT FEATURES

- Connect to Power and air and change tools in 2 minutes or less.
- The **RSFM30 Shrink Fit Machine** comes with all 4 induction rings listed below.
- Includes toolholder adapter discs for **BT30, 40 Taper, HSK40/50/63 and PSC4/PSC5/PSC6**
- **CAT50 AND HSK100 are built into the machine. No adapter required.**
- Tools with **Up to 24" Gage Lengths** can be accommodated with the **RSFM30**.
- Easy to use touch screen adjustments for temp and time settings.
- Cooling Cycle uses 90 PSI shop air to cool the holder for safe handling. The use of an in-line filter is required.

### MACHINE SPECIFICATIONS

Tool Diameter	Power	L x D x H	Ship Wt	Part #
1/8"-1-1/4"	<b>480VAC, 3 phase, 30A NEMA L16-30P</b>	20" x 20" x 37"	84 lbs	<b><u>RSFM30</u></b>

### Included Accessories

Accessory	Item #
Thermal Insulated Glove	<b><u>RTIG01</u></b>
Induction Ring (3MM-5MM)	<b><u>RIR0305</u></b>
Induction Ring (6MM-12MM)	<b><u>RIR0612</u></b>
Induction Ring (14MM-20MM)	<b><u>RIR1420</u></b>
Induction Ring (25MM-32MM)	<b><u>RIR2532</u></b>
<b>Toolholder Adapter Disk Pack (Includes all adapters below)</b>	<b><u>RTHADPK30</u></b>
Toolholder Adapter - BT30	<b>Not Sold Individually</b>
Toolholder Adapter - 40 Taper	<b>Not Sold Individually</b>
Toolholder Adapter - HSK40 & PSC4	<b>Not Sold Individually</b>
Toolholder Adapter - HSK50 & PSC5	<b>Not Sold Individually</b>
Toolholder Adapter - PSC6	<b>Not Sold Individually</b>
Toolholder Adapter - HSK63	<b>Not Sold Individually</b>



Induction Ring



Toolholder Adapter Disc Pack