

# Precision Collet and Nut Style Toolholders

Techniks toolholders improve performance and extend tool life.

**Balanced to 25,000 RPM**  
*Balanced to 25,000 RPM at G2.5. Custom balancing to 60,000 RPM available.*

**Taper Accuracy AT3**  
*Taper ground to AT3 accuracy for maximum contact with spindle.*

**T.I.R. 0.0001" or better!**  
*Measured from taper O.D. to collet pocket I.D.*

**Lab Certified Accuracy**  
*Each toolholder is lab certified for accuracy and balance.*

**TECHNIKS CERTIFIED ACCURACY BALANCE**

**Inch and Metric Sizes**

**Sealed**

**Steel Sealed**

**T.I.R. 0.0002"**

**Quick-Change Tap**

**Floating Tap**

**Rigid Tap**

**PowerCOAT Nuts**  
*Special PowerCOAT nut holds up to 75% tighter for best T.I.R., rigidity, and safety.*

**Extend Tool Life**  
*PowerCOAT nut is balanced for reduced vibration at high speed to extend tool life.*

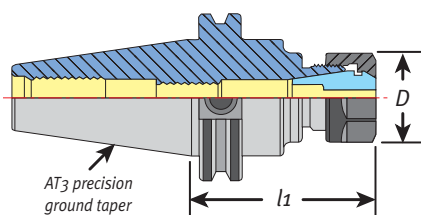
*You lose 10% of tool life for every .0001" of T.I.R.  
The rigidity and accuracy of Techniks toolholders  
minimizes T.I.R. and extend cutting tool life.*

**Built for Speed.**

# CAT40 Precision ER Toolholders



Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report



## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power



Collets  
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Nuts  
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Coolant  
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Retention  
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For ER16 and 20 slotted nuts, simply add **SLOTNUT** to the end of the part number. For holders with coolant nut included add **-C** to the end of the part number. Coolant nuts are not available for ER11 or ER50.

## CAT40 ER Toolholders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22213-3	CAT40 x ER11 - 3", hex nut	3"	.748"	.275"	06081	04608
22225	CAT40 x ER16 - 2.76", hex nut	2.76"	1.08"	.406"	06083	04609
22227	CAT40 x ER16 - 4", hex nut	4"	1.08"	.406"	06083	04609
22231	CAT40 x ER16 - 6", hex nut	6"	1.08"	.406"	06083	04609
22233	CAT40 x ER16 - 8", hex nut	8"	1.08"	.406"	06083	04609
22235	CAT40 x ER20 - 2.76", hex nut	2.76"	1.34"	.512"	06087	04610
22237	CAT40 x ER20 - 4", hex nut	4"	1.34"	.512"	06087	04610
22239	CAT40 x ER20 - 6", hex nut	6"	1.34"	.512"	06087	04610
22243-2.5	CAT40 x ER25 - 2.5", slotted nut	2.5"	1.65"	.630"	06089	04615
22243	CAT40 x ER25 - 2.76", slotted nut	2.76"	1.65"	.630"	06089	04615
22245	CAT40 x ER25 - 4", slotted nut	4"	1.65"	.630"	06089	04615
22247	CAT40 x ER25 - 6", slotted nut	6"	1.65"	.630"	06089	04615
22251	CAT40 x ER25 - 8", slotted nut	8"	1.65"	.630"	06089	04615
22253	CAT40 x ER32 - 2.76", slotted nut	2.76"	1.97"	.788"	06089	04616
22255	CAT40 x ER32 - 4", slotted nut	4"	1.97"	.788"	06089	04616
22257	CAT40 x ER32 - 6", slotted nut	6"	1.97"	.788"	06089	04616
22259	CAT40 x ER32 - 8", slotted nut	8"	1.97"	.788"	06089	04616
22261	CAT40 x ER40 - 3.15", slotted nut	3.15"	2.48"	1.023"	06091	04617
22263	CAT40 x ER40 - 4", slotted nut	4"	2.48"	1.023"	06091	04617
22265	CAT40 x ER40 - 6", slotted nut	6"	2.48"	1.023"	06091	04617
22269	CAT40 x ER50 - 4", slotted nut	4"	3.07"	1.338"	06093	04618

# CAT40 Precision CoolFLEX ER Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

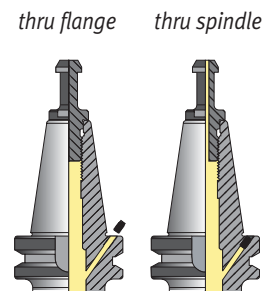
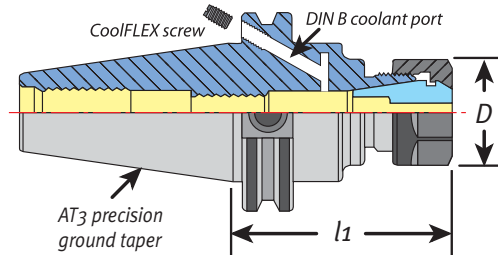
## Features

- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket

## CoolFLEX Feature

CoolFLEX holders are factory set for coolant-thru spindle. Simply remove 2 stop screws for DIN B coolant-thru flange.

For ER16, and 20 slotted nuts, simply add SLOTNUT to the end of the part number. For holders with coolant nut included add -C to the end of the part number.



## Replacement CoolFLEX Screws

Part No. Description

HSA-4-6 40 taper DIN B screw

Coolant Set Screws page 45.

## CAT40 CoolFLEX Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22225F	CAT40 x ER16 - 2.76", hex nut	2.76"	1.08"	.406"	06083	04609
22227F	CAT40 x ER16 - 4", hex nut	4"	1.08"	.406"	06083	04609
22231F	CAT40 x ER16 - 6", hex nut	6"	1.08"	.406"	06083	04609
22233F	CAT40 x ER16 - 8", hex nut	8"	1.08"	.406"	06083	04609
22235F	CAT40 x ER20 - 2.76", hex nut	2.76"	1.34"	.512"	06087	04610
22237F	CAT40 x ER20 - 4", hex nut	4"	1.34"	.512"	06087	04610
22239F	CAT40 x ER20 - 6", hex nut	6"	1.34"	.512"	06087	04610
22243F	CAT40 x ER25 - 2.76", slotted nut	2.76"	1.65"	.630"	06089	04615
22245F	CAT40 x ER25 - 4", slotted nut	4"	1.65"	.630"	06089	04615
22247F	CAT40 x ER25 - 6", slotted nut	6"	1.65"	.630"	06089	04615
22251F	CAT40 x ER25 - 8", slotted nut	8"	1.65"	.630"	06089	04615
22253F	CAT40 x ER32 - 2.76", slotted nut	2.76"	1.97"	.788"	06089	04616
22255F	CAT40 x ER32 - 4", slotted nut	4"	1.97"	.788"	06089	04616
22257F	CAT40 x ER32 - 6", slotted nut	6"	1.97"	.788"	06089	04616
22259F	CAT40 x ER32 - 8", slotted nut	8"	1.97"	.788"	06089	04616
22261F	CAT40 x ER40 - 3.15", slotted nut	3.15"	2.48"	1.023"	06091	04617
22263F	CAT40 x ER40 - 4", slotted nut	4"	2.48"	1.023"	06091	04617



All Techniks products are backed by our 100% satisfaction guarantee!

# CAT40 Precision ER Mini Nut Holders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Narrow nut diameter for better clearance
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket



Collets  
pg. 48



Nuts  
pg. 62



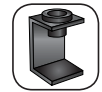
Coolant  
Rings  
pg. 64



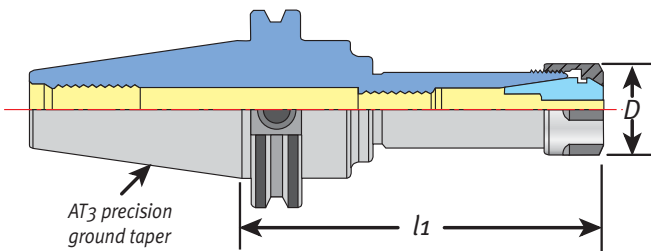
Retention  
Knobs  
pg. 200



Wrenches  
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Tightening  
Stands  
pg. 206



## Coolant Options

- ER coolant rings (pg. 64)
- ER Steel Sealed collets (pg. 54)
- ER coolant collets (pg. 56)

## CAT40 ER Mini Nut Holders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22352	CAT40 x ER11 - 2.75", mini nut	2.75"	.63"	.275"	06081	04621
22354	CAT40 x ER11 - 4", mini nut	4"	.63"	.275"	06081	04621
22354-6	CAT40 x ER11 - 6", mini nut	6"	.63"	.275"	06081	04621
22354-8.5	CAT40 x ER11 - 8.5", mini nut	8.5"	.63"	.275"	06081	04621
22356	CAT40 x ER16 - 2.76", mini nut	2.76"	.87"	.406"	06083	04622
22358	CAT40 x ER16 - 4", mini nut	4"	.87"	.406"	06083	04622
22359	CAT40 x ER16 - 6", mini nut	6"	.87"	.406"	06083	04622
22359-8	CAT40 x ER16 - 8", mini nut	8"	.87"	.406"	06083	04622
22360	CAT40 x ER20 - 2.76", mini nut	2.76"	1.102"	.512"	06087	04623
22362	CAT40 x ER20 - 4", mini nut	4"	1.102"	.512"	06087	04623



# CAT40 Precision ER32 SuperRIGID Holders



## Features

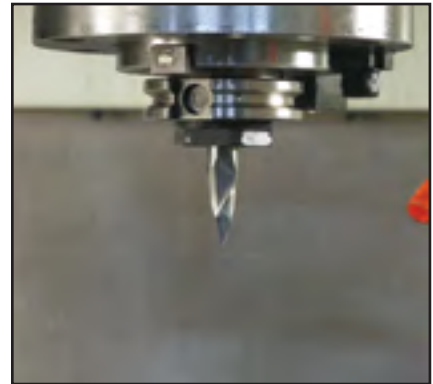
- *Balanced to 25,000 RPM at G2.5*
- *Best T.I.R. of any collet chuck*
- *Best Z axis clearance of any collet chuck*
- *SuperRIGID design is great for heavy side loads*



Collet nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report



Standard collet chuck



SuperRIGID collet chuck



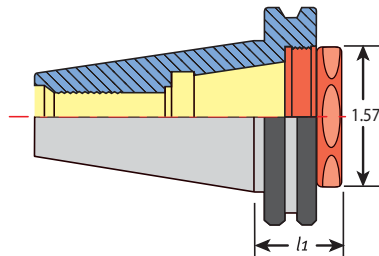
Use SuperRIGID holders with ER32 collets.  
For coolant applications use our ER32 Steel Sealed coolant collets (page 54).



Standard collet chucks have more than double the projection of SuperRIGID chucks.



Minimal projection maximizes rigidity. SuperRIGID holders are an ideal choice for high speed or high torque machining.



PowerCOAT Replacement Nut

## CAT40 SuperRIGID ER Toolholders

Part No.	Description	l1	Collet	Max. Shank	Wrench
22253S	CAT40 x ER32	1.10"	ER32	3/4" or 20mm	894-36
TE-22HN	hex style nut				

# CAT40 Precision DualDRIVE Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

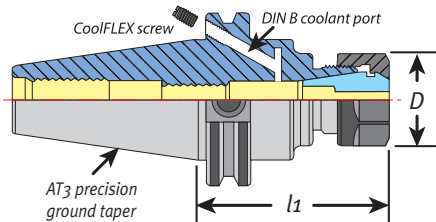
## Benefits

- Better rigidity and reduced vibration
- Improved performance at high metal removal rates and when machining at extended lengths
- Provides the benefits of dual-contact machining on standard spindles too!

## CoolFLEX Feature

CoolFLEX holders are factory set for coolant-thru spindle. Simply remove 2 stop screws for DIN B coolant-thru flange.

Coolant Set Screws page 45.



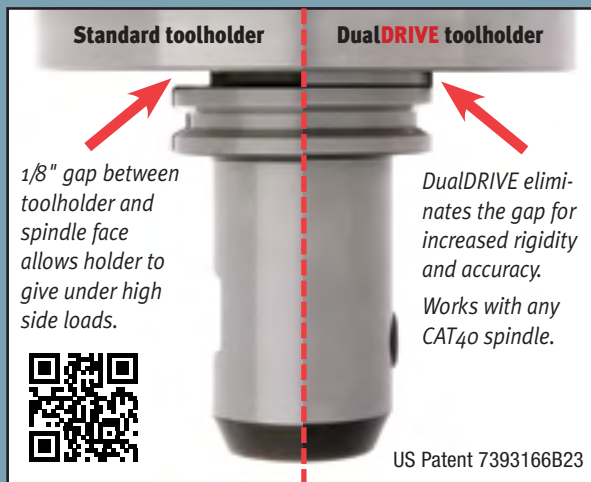
## CAT40 DualDRIVE Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description - L1	L1	D	Collet	Max. Shank	Set Screw	Wrench
72225	CAT40 x ER16 -2.76" DualDRIVE	2.76"	1.08"	ER16	.406"	06083	04609
72227	CAT40 x ER16 - 4" DualDRIVE	4"	1.08"	ER16	.406"	06083	04609
72231	CAT40 x ER16 - 6" DualDRIVE	6"	1.08"	ER16	.406"	06083	04609
72233	CAT40 x ER16 - 8" DualDRIVE	8"	1.08"	ER16	.406"	06083	04609
72253	CAT40 x ER32 - 2.76" DualDRIVE	2.76"	1.97"	ER32	.788"	06089	04616
72255	CAT40 x ER32 - 4" DualDRIVE	4"	1.97"	ER32	.788"	06089	04616
72257	CAT40 x ER32 - 6" DualDRIVE	6"	1.97"	ER32	.788"	06089	04616
72261	CAT40 x ER40 - 3.15" DualDRIVE	3.15"	2.48"	ER40	1.023"	06091	04617

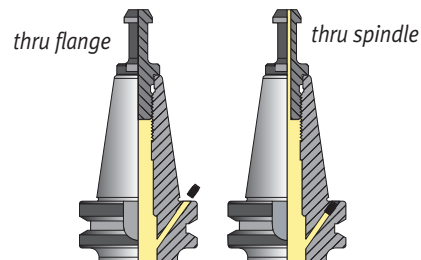
## Features

- Use with existing dual-contact spindles
- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5

## DualDRIVE For dual contact



See an on machine demonstration video of DualDRIVE compared to standard toolholders at: [www.techniksusa.com/videos2008/DD](http://www.techniksusa.com/videos2008/DD)



## Replacement CoolFLEX Screws

Part No.	Description
HSA-4-6	40 taper DIN B screw

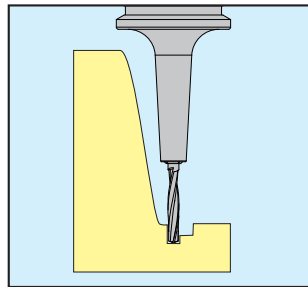
# CAT40, 50 Precision SlimFIT Toolholders



Internal drawbar collet eliminates need for clamping nut to permit narrow nose diameter. 4° collet provides greater holding power and improved accuracy.



Coolant-thru design



Maximum nose clearance

## Features

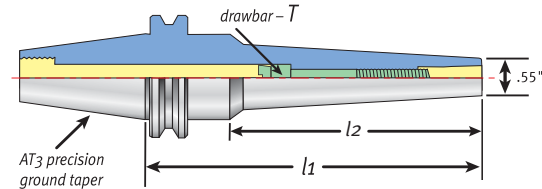
- Maximum T.I.R. 0.0001" from taper to collet pocket
- Balanced to 25,000 RPM at G2.5
- Nose diameter only .55"
- Use with SlimFIT collets for shank sizes 3/32" – 1/4"



## Collet Set

Part No.	Description
18743-12IMS	SlimFIT 6 - 12 pc. set

1/8" – 1/4" by 64ths (except no 5/32 or 7/32) 3mm – 6mm by 1mm



## SlimFIT CAT40, CAT50 Toolholders

Part No.	Description	l1	l2	Drawbar-T
23654	CAT40 x SBL6 - 3" SlimFIT	3"	1.625"	SYIC-SBL-M6C-60
23656	CAT40 x SBL6 - 4" SlimFIT	4"	2.625"	SYIC-SBL-M6C-35
23658	CAT40 x SBL6 - 6" SlimFIT	6"	4.625"	SYIC-SBL-M6C-75
23659	CAT40 x SBL6 - 8" SlimFIT	8"	6.622"	SYIC-SBL-M6C-130
23672	CAT50 x SBL6-3.5" SlimFIT	3.5"	2.12"	SYIC-SBL-M6C-70
23676	CAT50 x SBL6-6" SlimFIT	6"	4.622"	SYIC-SBL-M6C-75

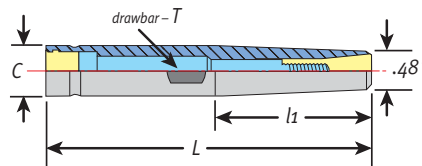


## Features

- Use with any toolholder
- Extremely accurate drawbar collet
- Use with SlimFIT 6 collets

## SlimFIT Extensions

Part No.	Description	L	l1	C
06032-3	1/2" x OLP6-3" extension	3"	1.89"	.50"
06032	1/2" x OLP6-5" extension	5"	1.89"	.50"
06034	1/2" x OLP6-6" extension	6"	1.89"	.50"
06038	5/8" x OLP6-5" extension	5"	1.89"	.625"
06040	5/8" x OLP6-6" extension	6"	1.89"	.625"
06042	5/8" x OLP6-8" extension	8"	1.89"	.625"



## SlimFIT Inch Size Collets

Part No.	Description
18851-3/32	SlimFIT 6 - 3/32" collet
18851-7/64	SlimFIT 6 - 7/64" collet
18851-1/8	SlimFIT 6 - 1/8" collet
18851-9/64	SlimFIT 6 - 9/64" collet
18851-5/32	SlimFIT 6 - 5/32" collet
18851-11/64	SlimFIT 6 - 11/64" collet
18851-3/16	SlimFIT 6 - 3/16" collet
18851-13/64	SlimFIT 6 - 13/64" collet
18851-7/32	SlimFIT 6 - 7/32" collet
18851-15/64	SlimFIT 6 - 15/64" collet
18851-1/4	SlimFIT 6 - 1/4" collet

## SlimFIT Metric Size Collets

Part No.	Description
18851-03	SlimFIT 6 - 3mm collet
18851-04	SlimFIT 6 - 4mm collet
18851-05	SlimFIT 6 - 5mm collet
18851-05.5	SlimFIT 6 - 5.5mm collet
18851-06	SlimFIT 6 - 6mm collet



Distributors – Call to register for our Distributors Webstore for full online access.

# CAT50 Precision ER Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- *Balanced to 25,000 RPM at G2.5*
- *T.I.R. 0.0001" measured from taper to collet pocket*
- *PowerCOAT nut included for 75% more clamping power*



Collets  
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Nuts  
pg. 62



Coolant  
Rings  
pg. 64



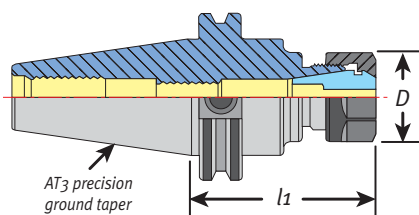
Retention  
Knobs  
pg. 200



Wrenches  
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Tightening  
Stands  
pg. 206



For ER16 and 20 slotted nuts, simply add **SLOTNUT** to the end of the part number. For holders with coolant nut included add **-C** to the end of the part number. Coolant nuts are not available for ER50.

## CAT50 ER Toolholders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22281	CAT50 x ER16 - 4", hex nut	4"	1.08"	.406"	06083	04609
22285	CAT50 x ER16 - 6", hex nut	6"	1.08"	.406"	06083	04609
22287	CAT50 x ER16 - 8", hex nut	8"	1.08"	.406"	06083	04609
22291	CAT50 x ER20 - 4", hex nut	4"	1.34"	.512"	06087	04610
22293	CAT50 x ER20 - 6", hex nut	6"	1.34"	.512"	06087	04610
22295	CAT50 x ER20 - 8", hex nut	8"	1.34"	.512"	06087	04610
22303	CAT50 x ER25 - 4", slotted nut	4"	1.65"	.630"	06089	04615
22305	CAT50 x ER25 - 6", slotted nut	6"	1.65"	.630"	06089	04615
22307	CAT50 x ER25 - 8", slotted nut	8"	1.65"	.630"	06089	04615
22307-9	CAT50 x ER25 - 9", slotted nut	9"	1.65"	.630"	06089	04615
22311	CAT50 x ER32 - 4", slotted nut	4"	1.97"	.788"	06089	04616
22313	CAT50 x ER32 - 6", slotted nut	6"	1.97"	.788"	06089	04616
22317	CAT50 x ER32 - 8", slotted nut	8"	1.97"	.788"	06089	04616
22321	CAT50 x ER40 - 4", slotted nut	4"	2.48"	1.023"	06091	04617
22325	CAT50 x ER40 - 6", slotted nut	6"	2.48"	1.023"	06091	04617
22327	CAT50 x ER40 - 8", slotted nut	8"	2.48"	1.023"	06091	04617
22331	CAT50 x ER50 - 4", slotted nut	4"	3.07"	1.338"	06093	04618
22335	CAT50 x ER50 - 6", slotted nut	6"	3.07"	1.338"	06093	04618
22337	CAT50 x ER50 - 8", slotted nut	8"	3.07"	1.338"	06093	04618



# CAT50 Precision CoolFLEX Toolholders



PowerCOAT nut is included with each holder.  
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Each holder comes with a complete lab report

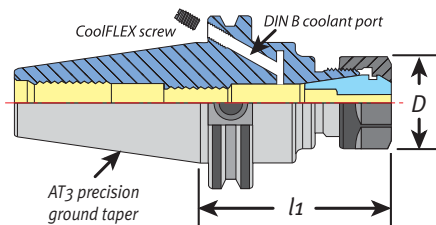
## Features

- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket

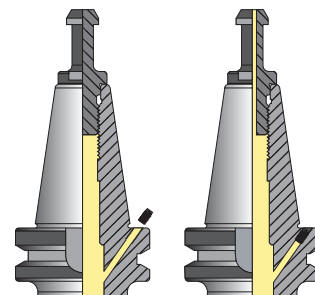
## CoolFLEX Toolholders

CoolFLEX holders are factory set for coolant-thru spindle.  
Simply remove 2 stop screws for DIN B coolant-thru flange.

Coolant Set Screws page 45.



thru flange thru spindle



## Replacement CoolFLEX Screws

Part No.	Description
HSA-6-6	50 taper DIN B screw

## CAT50 CoolFLEX Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22281F	CAT50 x ER16 - 4", hex nut	4"	1.08"	.406"	06083	04609
22285F	CAT50 x ER16 - 6", hex nut	6"	1.08"	.406"	06083	04609
22291F	CAT50 x ER20 - 4", hex nut	4"	1.34"	.512"	06087	04610
22293F	CAT50 x ER20 - 6", hex nut	6"	1.34"	.512"	06087	04610
22295F	CAT50 x ER20 - 8", hex nut	8"	1.34"	.512"	06087	04610
22303F	CAT50 x ER25 - 4", slotted nut	4"	1.65"	.630"	06089	04615
22311F	CAT50 x ER32 - 4", slotted nut	4"	1.97"	.788"	06089	04616
22313F	CAT50 x ER32 - 6", slotted nut	6"	1.97"	.788"	06089	04616
22317F	CAT50 x ER32 - 8", slotted nut	8"	1.97"	.788"	06089	04616
22321F	CAT50 x ER40 - 4", slotted nut	4"	2.48"	1.023"	06091	04617
22327F	CAT50 x ER40 - 8", slotted nut	8"	2.48"	1.023"	06091	04617

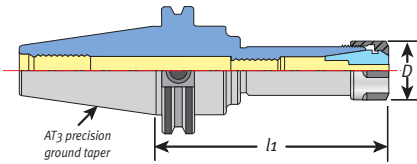


All Techniks products are backed by our 100% satisfaction guarantee!

# CAT50 Precision ER Mini Nut Holders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report



## Features

- Narrow nut diameter for better clearance
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket



Collets  
pg. 48



Nuts  
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Wrenches  
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Tightening  
Stands  
pg. 206



## Coolant Options

- ER coolant rings (pg. 64)
- ER Steel Sealed collets (pg. 54)
- ER coolant collets (pg. 56)

## CAT50 ER Mini Nut Holders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
22364	CAT50 x ER16 - 4", mini nut	4"	.87"	.406"	06083	04622
22366	CAT50 x ER16 - 6", mini nut	6"	.87"	.406"	06083	04622
22368	CAT50 x ER20 - 4", mini nut	4"	1.102"	.512"	06087	04623
22370	CAT50 x ER20 - 6", mini nut	6"	1.102"	.512"	06087	04623

# CAT50 Precision ER32 SuperRIGID Holders



## Features

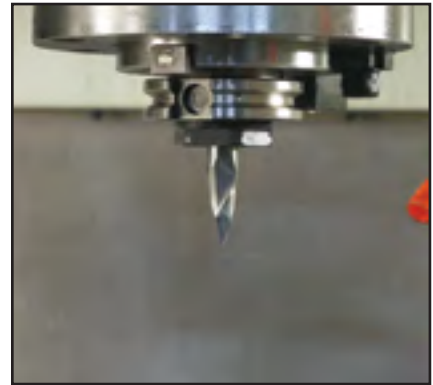
- Balanced to 25,000 RPM at G2.5
- Best T.I.R. of any collet chuck
- Best Z axis clearance of any collet chuck
- SuperRIGID design is great for heavy side loads



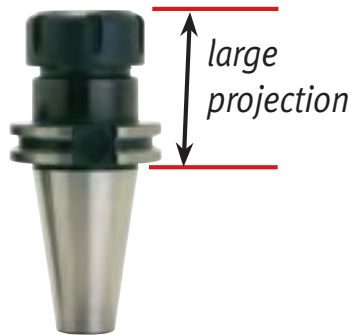
Collet nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report



Standard collet chuck



SuperRIGID collet chuck



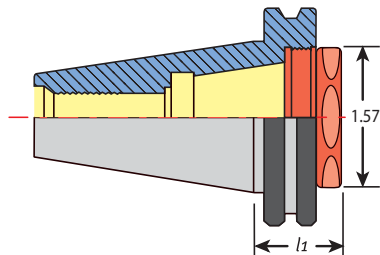
Standard collet chucks have more than double the projection of SuperRIGID chucks.



Minimal projection maximizes rigidity. SuperRIGID holders are an ideal choice for high speed or high torque machining.



Use SuperRIGID holders with ER32 collets.  
For coolant applications use our ER32 Steel Sealed coolant collets (page 54).



PowerCOAT Replacement Nut

## CAT50 SuperRIGID ER Toolholders

Part No.	Description	l1	Collet	Max. Shank	Wrench
22311S	CAT50 x ER32	1.10"	ER32	3/4" or 20mm	894-36
TE-22HN	hex style nut				

# CAT50 Precision ER DualDRIVE Toolholders



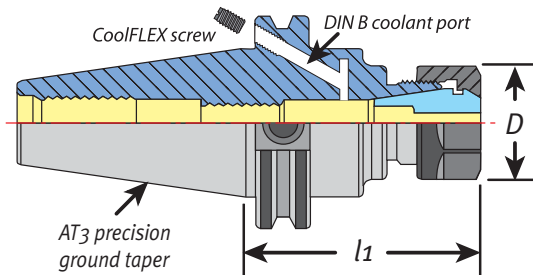
PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Benefits

- Better rigidity and reduced vibration
- Improved performance at high metal removal rates and when machining at extended lengths
- Provides the benefits of dual-contact machining on standard spindles too!

## CoolFLEX Feature

CoolFLEX holders are factory set for coolant-thru spindle. Simply remove 2 stop screws for DIN B coolant-thru flange.



Coolant Set Screws page 45.

## CAT50 ER DualDRIVE Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description - l1	l1	D	Collet	Max. Shank	Set Screw	Wrench
72281	CAT50 x ER16 - 4" DualDRIVE	4"	1.08"	ER16	.406"	06083	04609
72285	CAT50 x ER16 - 6" DualDRIVE	6"	1.08"	ER16	.406"	06083	04609
72287	CAT50 x ER16 - 8" DualDRIVE	8"	1.08"	ER16	.406"	06083	04609
72311	CAT50 x ER32 - 4" DualDRIVE	4"	1.97"	ER32	.788"	06089	04616
72313	CAT50 x ER32 - 6" DualDRIVE	6"	1.97"	ER32	.788"	06089	04616
72317	CAT50 x ER32 - 8" DualDRIVE	8"	1.97"	ER32	.788"	06089	04616
72321	CAT50 x ER40 - 4" DualDRIVE	4"	2.48"	ER40	1.023"	06091	04617

## Features

- Use with existing dual-contact spindles
- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5

### DualDRIVE For dual contact

**Standard toolholder**

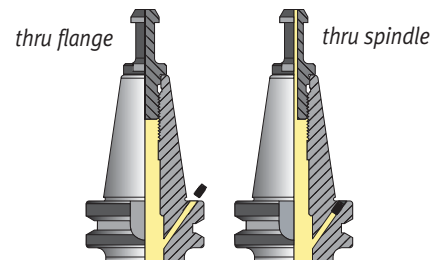
1/8" gap between toolholder and spindle face allows holder to give under high side loads.

**DualDRIVE toolholder**

DualDRIVE eliminates the gap for increased rigidity and accuracy. Works with any CAT50 spindle.

US Patent 7393166B23

See an on machine demonstration video of DualDRIVE compared to standard toolholders at: [www.techniksusa.com/videos2008/DD](http://www.techniksusa.com/videos2008/DD)



## Replacement CoolFLEX Screws

Part No.	Description
HSA-6-6	50 taper DIN B screw



# BT30 Precision ER Toolholders and Mini Nut Holders

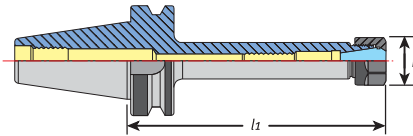


PowerCOAT nut is included with each holder. Techniks Certified for accuracy and balance.

## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- Taper ground to AT3 accuracy or better

NOTE: ER16 and 20 toolholders come with hex nut as standard. For slotted nuts simply add SLOTNUT to the end of the part number. For holders with coolant nut included add -C to the end of the part number.



## BT30 Precision ER Toolholders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16102	BT30 x ER16 - 60mm, hex nut	60mm	1.08"	.406"	06083	04609
16101	BT30 x ER16 - 70mm, hex nut	70mm	1.08"	.406"	06083	04609
16103	BT30 x ER16 - 90mm, hex nut	90mm	1.08"	.406"	06083	04609
16104	BT30 x ER16 - 100mm, hex nut	100mm	1.08"	.406"	06083	04609
16105	BT30 x ER16 - 120mm, hex nut	120mm	1.08"	.406"	06083	04609
16106	BT30 x ER20 - 70mm, hex nut	70mm	1.34"	.512"	06087	04610
16107	BT30 x ER20 - 135mm, hex nut	135mm	1.34"	.512"	06087	04610
16108-2.5	BT30 x ER20 - 63.5mm, hex nut	63.5mm	1.34"	.512"	06087	04610
16109	BT30 x ER25 - 70mm, slotted nut	70mm	1.65"	.63"	06089	04615
16110	BT30 x ER25 - 60mm, slotted nut	60mm	1.65"	.63"	06089	04615
16111-90	BT30 x ER25 - 90mm, slotted nut	90mm	1.65"	.63"	06089	04615
16111	BT30 x ER25 - 135mm, slotted nut	135mm	1.65"	.63"	06089	04615
16112	BT30 x ER32 - 60mm, slotted nut	60mm	1.97"	.788"	06089	04616
16113	BT30 x ER32 - 70mm, slotted nut	70mm	1.97"	.788"	06089	04616
16114	BT30 x ER32 - 100mm, slotted nut	100mm	1.97"	.788"	06089	04616
16115	BT30 x ER40 - 80mm, slotted nut	80mm	2.48"	1.023"	06091	04617



## Features

- Narrow nut diameter for better clearance
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket



## BT30 Precision ER Mini Nut Holders

For coolant applications use ER16 or ER20 coolant mini nut (pg. 63)

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16302	BT30 x ER11 - 70mm, mini nut	70	.63"	.275"	06081	04621
16304	BT30 x ER11 - 100mm, mini nut	100mm	.63"	.275"	06081	04621
16308	BT30 x ER16 - 70mm, mini nut	70mm	.87"	.406"	06083	04622
16312	BT30 x ER16 - 120mm, mini nut	120mm	.87"	.406"	06083	04622
16313	BT30 x ER20 - 70mm, mini nut	70mm	1.34"	.512"	06087	04610
16314	BT30 x ER20 - 100mm, mini nut	100mm	1.102"	.512"	06087	04623
16318	BT30 x ER20 - 150mm, mini nut	150mm	1.102"	.512"	06087	04623

# BT30 Precision ER DualDRIVE Toolholders

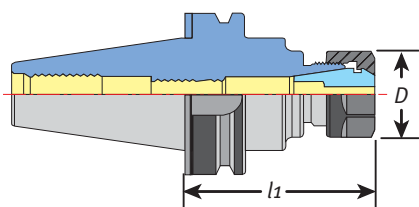


PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Benefits

- Better rigidity and reduced vibration
- Improved performance at high metal removal rates and when machining at extended lengths
- Provides the benefits of dual-contact machining on standard spindles too!

See an on machine demonstration video of DualDRIVE compared to standard toolholders at: [www.techniksusa.com/videos2008/DD](http://www.techniksusa.com/videos2008/DD)



## BT30 ER DualDRIVE Toolholders

Part No.	Description - l1	l1	D	Collet	Max. Shank	Set Screw	Wrench
66102	BT30 x ER16 - 60mm DualDRIVE	60mm	1.08"	ER16	.406"	06083	04609
66103	BT30 x ER16 - 90mm DualDRIVE	90mm	1.08"	ER16	.406"	06083	04609
66104-105	BT30 x ER16 - 105mm DualDRIVE	105mm	1.08"	ER16	.406"	06083	04609
66106-105	BT30 x ER20 - 105mm DualDRIVE	105mm	1.34"	ER20	.512"	06087	04610
66106-60	BT30 x ER20 - 60mm DualDRIVE	60mm	1.34"	ER20	.512"	06087	04610
66106-90	BT30 x ER20 - 90mm DualDRIVE	90mm	1.34"	ER20	.512"	06087	04610
66109-60	BT30 x ER25 - 60mm DualDRIVE	60mm	1.65"	ER25	.63"	06089	04615
66113-60	BT30 x ER32 - 60mm DualDRIVE	60mm	1.97"	ER32	.788"	06089	04616
66113-90	BT30 x ER32 - 90mm DualDRIVE	90mm	1.97"	ER32	.788"	06089	04616
66115	BT30 x ER40 - 80mm DualDRIVE	80mm	2.48"	ER40	1.023"	06091	04617

## Features

- Use with existing dual-contact spindles
- Improves rigidity and reduces vibration
- Balanced to 25,000 RPM at G2.5

### DualDRIVE For dual contact







**Standard toolholder**

1/8" gap between toolholder and spindle face allows holder to give under high side loads.

**DualDRIVE toolholder**

DualDRIVE eliminates the gap for increased rigidity and accuracy. Works with any BT30 spindle.

US Patent 7393166B23

-   
 Collets  
pg. 48
-   
 Nuts  
pg. 62
-   
 Coolant  
Rings  
pg. 64
-   
 Retention  
Knobs  
pg. 200
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 Wrenches  
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 Tightening  
Stands  
pg. 206



### Coolant Options

- ER coolant rings (pg. 64)
- ER Steel Sealed collets (pg. 54)
- ER coolant collets (pg. 56)

# BT30 and BT40 Precision SlimFIT Toolholders



## Features

- Maximum T.I.R. 0.0001" from taper to collet pocket
- Balanced to 25,000 RPM at G2.5
- Nose diameter only .55"
- Use with SlimFIT collets for shank sizes 3/32" – 1/4"



Internal drawbar collet eliminates need for clamping nut to permit narrow nose diameter. 4° collet provides greater holding power and improved accuracy.



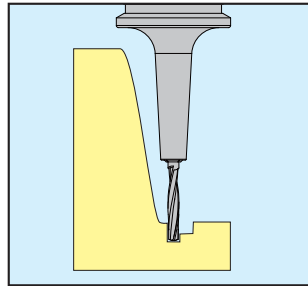
## Collet Set

Part No.	Description
18743-12IMS	SlimFIT 6 - 12 pc. set

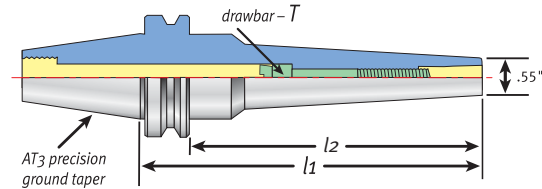
1/8" – 1/4" by 64ths (except no 5/32 or 7/32) 3mm – 6mm by 1mm



Coolant-thru design



Maximum nose clearance



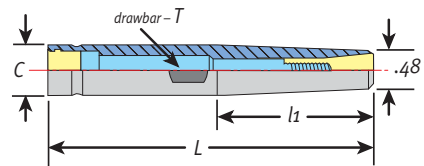
## SlimFIT BT30, BT40 Toolholders

Part No.	Description	l1	l2	Drawbar
18854	BT30 x SBL6-70	70mm	48mm	SYIC-SBL-M6C-45
18856	BT30 x SBL6-100	100mm	78mm	SYIC-SBL-M6C-70
18866	BT40 x SBL6-70	70mm	43mm	SYIC-SBL-M6C-45
18868	BT40 x SBL6-100	100mm	73mm	SYIC-SBL-M6C-75
18868-150	BT40 x SBL6-150	150mm	123mm	SYIC-SBL-M6C-70
18869	BT40 x SBL6-200	200mm	173mm	SYIC-SBL-M6C-130



## Features

- Use with any toolholder
- Extremely accurate drawbar collet
- Use with SlimFIT 6 collets



## SlimFIT Extensions

Part No.	Description	L	l1	C
06032-3	1/2" x OLP6-3" extension	3"	1.89"	.50"
06032	1/2" x OLP6-5" extension	5"	1.89"	.50"
06034	1/2" x OLP6-6" extension	6"	1.89"	.50"
06038	5/8" x OLP6-5" extension	5"	1.89"	.625"
06040	5/8" x OLP6-6" extension	6"	1.89"	.625"
06042	5/8" x OLP6-8" extension	8"	1.89"	.625"

## SlimFIT Inch Size Collets

Part No.	Description
18851-3/32	SlimFIT 6 - 3/32" collet
18851-7/64	SlimFIT 6 - 7/64" collet
18851-1/8	SlimFIT 6 - 1/8" collet
18851-9/64	SlimFIT 6 - 9/64" collet
18851-5/32	SlimFIT 6 - 5/32" collet
18851-11/64	SlimFIT 6 - 11/64" collet
18851-3/16	SlimFIT 6 - 3/16" collet
18851-13/64	SlimFIT 6 - 13/64" collet
18851-7/32	SlimFIT 6 - 7/32" collet
18851-15/64	SlimFIT 6 - 15/64" collet
18851-1/4	SlimFIT 6 - 1/4" collet

## SlimFIT Metric Size Collets

Part No.	Description
18851-03	SlimFIT 6 - 3mm collet
18851-04	SlimFIT 6 - 4mm collet
18851-05	SlimFIT 6 - 5mm collet
18851-05.5	SlimFIT 6 - 5.5mm collet
18851-06	SlimFIT 6 - 6mm collet



All Techniks products are backed by our 100% satisfaction guarantee!

# BT40 Precision ER Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

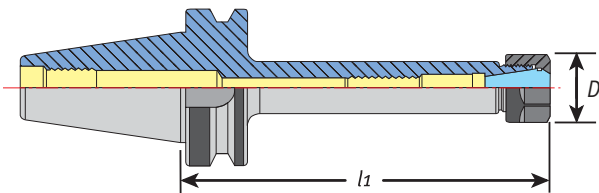
## Features

- *Balanced to 25,000 RPM at G2.5*
- *T.I.R. 0.0001" measured from taper to collet pocket*
- *PowerCOAT nut included for 75% more clamping power*



## Coolant Options

- *ER coolant rings (pg. 64)*
- *ER Steel Sealed collets (pg. 54)*
- *ER coolant collets (pg. 56)*



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200



Wrenches  
pg. 204



Tightening  
Stands  
pg. 206

For ER16 and 20 slotted nuts, simply add **SLOTNUT** to the end of the part number. For holders with coolant nut included add **-C** to the end of the part number.

## BT40 ER Toolholders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16151	BT40 x ER16 - 70mm, hex nut	70mm	1.08"	.406"	06083	04609
16153	BT40 x ER16 - 100mm, hex nut	100mm	1.08"	.406"	06083	04609
16155	BT40 x ER16 - 125mm, hex nut	125mm	1.08"	.406"	06083	04609
16157	BT40 x ER16 - 150mm, hex nut	150mm	1.08"	.406"	06083	04609
16158	BT40 x ER16 - 180mm, hex nut	180mm	1.08"	.406"	06083	04609
16159	BT40 x ER20 - 70mm, hex nut	70mm	1.34"	.512"	06085	04610
16162	BT40 x ER20 - 100mm, hex nut	100mm	1.34"	.512"	06085	04610
16165	BT40 x ER20 - 135mm, hex nut	135mm	1.34"	.512"	06085	04610
16167	BT40 x ER20 - 150mm, hex nut	150mm	1.34"	.512"	06085	04610
16169	BT40 x ER25 - 70mm, slotted nut	70mm	1.65"	.630"	06089	04615
16171	BT40 x ER25 - 100mm, slotted nut	100mm	1.65"	.630"	06089	04615
16175	BT40 x ER25 - 150mm, slotted nut	150mm	1.65"	.630"	06089	04615
16177	BT40 x ER32 - 70mm, slotted nut	70mm	1.97"	.788"	06089	04616
16179	BT40 x ER32 - 100mm, slotted nut	100mm	1.97"	.788"	06089	04616
16181	BT40 x ER32 - 150mm, slotted nut	150mm	1.97"	.788"	06089	04616
16183	BT40 x ER40 - 80mm, slotted nut	80mm	2.48"	1.023"	06089	04617
16185	BT40 x ER40, 100mm, slotted nut	100mm	2.48"	1.023"	06089	04617
16189	BT40 x ER40 - 150mm, slotted nut	150mm	2.48"	1.023"	06089	04617



# BT40 Precision ER CoolFLEX Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200



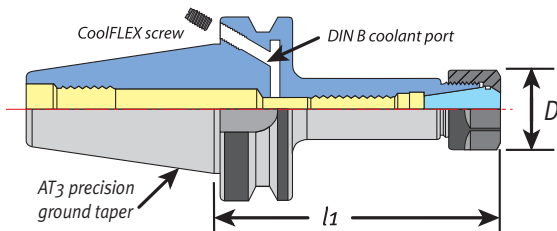
Wrenches  
pg. 204



Tightening  
Stands  
pg. 206

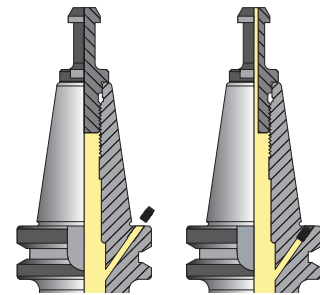
## CoolFLEX Feature

CoolFLEX holders are factory set for coolant-thru spindle.  
Simply remove 2 stop screws for DIN B coolant-thru flange.



Coolant Set Screws page 45.

thru flange      thru spindle



## Replacement CoolFLEX Screws

Part No.	Description
HSA-4-6	40 taper DIN B screw

For ER16, and 20 slotted nuts, simply add SLOTNUT to the end of the part number. For holders with coolant nut included add -C to the end of the part number.

## BT40 CoolFLEX Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16151F	BT40 x ER16 - 70mm, hex nut, CoolFLEX	70mm	1.08"	.406"	06083	04609
16153F	BT40 x ER16 - 100mm, hex nut, CoolFLEX	100mm	1.08"	.406"	06083	04609
16157F	BT40 x ER16 - 150mm, hex nut, CoolFLEX	150mm	1.08"	.406"	06083	04609
16159F	BT40 x ER20 - 70mm, hex nut, CoolFLEX	70mm	1.34"	.512"	06085	04610
16162F	BT40 x ER20 - 100mm, hex nut, CoolFLEX	100mm	1.34"	.512"	06085	04610
16167F	BT40 x ER20 - 150mm, hex nut, CoolFLEX	150mm	1.34"	.512"	06085	04610
16177F	BT40 x ER32 - 70mm, slotted, CoolFLEX	70mm	1.97"	.788"	06089	04616
16181F	BT40 x ER32 - 150mm, slotted, CoolFLEX	150mm	1.97"	.788"	06089	04616



All Techniks products are backed by our 100% satisfaction guarantee!

# BT40 Precision ER Mini Nut Holders



## Features

- *Balanced to 25,000 RPM at G2.5*
- *T.I.R. 0.0001" measured from taper to collet pocket*
- *Taper ground to AT3 accuracy or better*



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

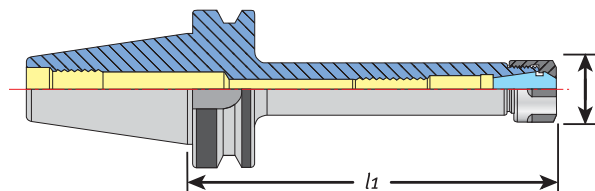
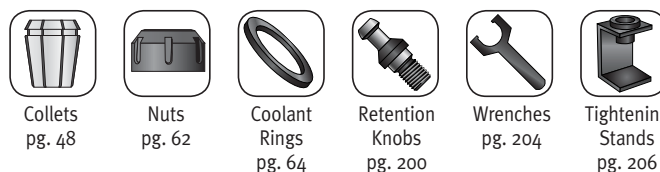


See page 63 for replacement Mini Nuts.



### Coolant Options

- *ER coolant rings (pg. 64)*
- *ER Steel Sealed collets (pg. 54)*
- *ER coolant collets (pg. 56)*



## BT30, BT40 ER Mini Nut Holders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16321	BT40 x ER11 - 70mm, mini nut	70mm	16mm	.275"	06081	04621
16324	BT40 x ER11 - 150mm, mini nut	150mm	16mm	.275"	06081	04621
16325	BT40 x ER16 - 70mm, mini nut	70mm	22mm	.406"	06083	04622
16328	BT40 x ER16 - 150mm, mini nut	150mm	22mm	.406"	06083	04622
16328-200	BT40 x ER16 - 200mm, mini nut	200mm	22mm	.406"	06083	04622
16329	BT40 x ER20 - 70mm, mini nut	70mm	28mm	.512"	06087	04623
16330	BT40 x ER20 - 100mm, mini nut	100mm	28mm	.512"	06087	04623
16332	BT40 x ER20 - 150mm, mini nut	150mm	28mm	.512"	06087	04623

# BT40 Precision SuperRIGID Holders



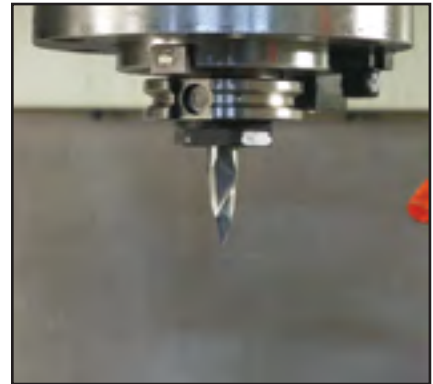
Collet nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Balanced to 25,000 RPM at G2.5
- Best T.I.R. of any collet chuck
- Best Z axis clearance of any collet chuck
- SuperRIGID design is great for heavy side loads



Standard collet chuck



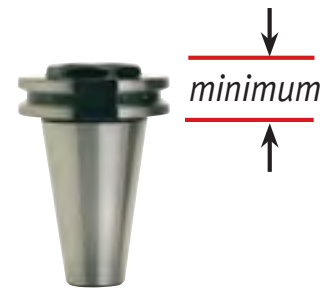
SuperRIGID collet chuck



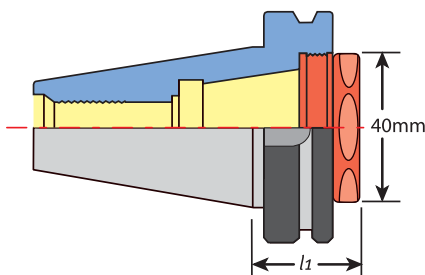
Use SuperRIGID holders with ER32 collets.  
For coolant applications use our ER32 Steel Sealed coolant collets (page 54).



Standard collet chucks have more than double the projection of SuperRIGID chucks.



Minimal projection maximizes rigidity. SuperRIGID holders are an ideal choice for high speed or high torque machining.



PowerCOAT Replacement Nut

## BT40 SuperRIGID ER Toolholders

Part No.	Description	l1	Collet	Max. Shank	Wrench
16177S	BT40 x ER32 - 36mm	36mm	ER32	3/4" or 20mm	894-36
TE-22HN	hex style nut				

# BT50 Precision ER Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

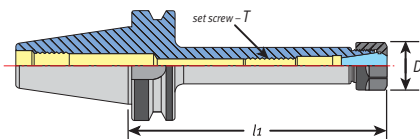
## Features

- *Balanced to 25,000 RPM at G2.5*
- *T.I.R. 0.0001" measured from taper to collet pocket*
- *PowerCOAT nut included for 75% more clamping power*



## Coolant Options

- *ER coolant rings (pg. 64)*
- *ER Steel Sealed collets (pg. 54)*
- *ER coolant collets (pg. 56)*



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200



Wrenches  
pg. 204



Tightening  
Stands  
pg. 206

For ER16, and 20 slotted nuts, simply add **SLOTNUT** to the end of the part number. For holders with coolant nut included add **-C** to the end of the part number. Coolant nuts are not available for ER50.

## BT50 Precision Toolholders

Part No.	Description	l1	D	Max. Shank	Stop Screw	Wrench
16251	BT50 x ER16 - 70mm, hex nut	70mm	1.08"	.406"	06083	04609
16252	BT50 x ER16 - 90mm, hex nut	90mm	1.08"	.406"	06083	04609
16253	BT50 x ER16 - 105mm, hex nut	105mm	1.08"	.406"	06083	04609
16254	BT50 x ER16 - 135mm, hex nut	135mm	1.08"	.406"	06083	04609
16255	BT50 x ER16 - 150mm, hex nut	150mm	1.08"	.406"	06083	04609
16263	BT50 x ER20 - 90mm, hex nut	90mm	1.34"	.512"	06087	04610
16265	BT50 x ER20 - 105mm, hex nut	105mm	1.34"	.512"	06087	04610
16267	BT50 x ER20 - 135mm, hex nut	135mm	1.34"	.512"	06087	04610
16271	BT50 x ER20 - 165mm, hex nut	165mm	1.34"	.512"	06087	04610
16275	BT50 x ER25 - 105mm, slotted nut	105mm	1.65"	.630"	06089	04615
16277	BT50 x ER25 - 135mm, slotted nut	135mm	1.65"	.630"	06089	04615
16279	BT50 x ER25 - 165mm, slotted nut	165mm	1.65"	.630"	06089	04615
16281	BT50 x ER32 - 80mm, slotted nut	80mm	1.97"	.788"	06089	04616
16283	BT50 x ER32 - 120mm, slotted nut	120mm	1.97"	.788"	06089	04616
16284	BT50 x ER32 - 150mm, slotted nut	150mm	1.97"	.788"	06089	04616
16285	BT50 x ER40 - 80mm, slotted nut	80mm	2.48"	1.023"	06091	04617
16289	BT50 x ER40 - 135mm, slotted nut	135mm	2.48"	1.023"	06091	04617
06291	BT50 x ER50 - 90mm, slotted nut	90mm	3.07"	1.338"	06093	04618



# HSK32A, 40A, 50A, 63A, 100A Precision ER Toolholders

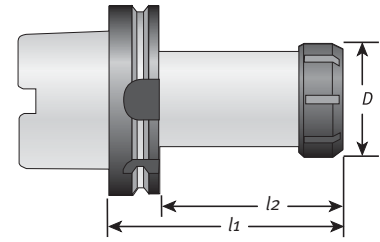


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Each holder comes with a complete lab report

For ER11, 16 and 20 slotted nuts, simply add SLOTNUT to the end of the part number. For holders with coolant nut included add -C to the end of the part number. Coolant nuts not available for ER11.

## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power

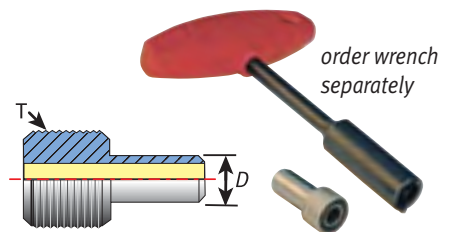


## HSK32A, 40A, 50A, 63A, 100A Toolholders

Part No.	Description	l1	l2	D	Wrench
31278	HSK32A x ER20 - 80mm, slotted nut	80mm	60mm	34mm	04614
31284	HSK32A x ER25 - 80mm, mini nut	80mm	60mm	35mm	04624
31374	HSK40A x ER11 - 80mm, mini nut	80mm	60mm	16mm	04621
31376	HSK40A x ER16 - 80mm, hex nut	80mm	54mm	28mm	04609
31384	HSK40A x ER25 - 80mm, slotted nut	80mm	60mm	35mm	04624
31385	HSK40A x ER32 - 80mm, slotted nut	80mm	60mm	50mm	04616
31420	HSK50A x ER32 - 100mm, slotted nut	100mm	74mm	50mm	04616
31432	HSK63A x ER16 - 80mm, hex nut	80mm	54mm	28mm	04609
31434	HSK63A x ER16 - 100mm, hex nut	100mm	74mm	28mm	04609
31438	HSK63A x ER16 - 160mm, hex nut	160mm	134mm	28mm	04609
31446	HSK63A x ER20 - 160mm, hex nut	160mm	134mm	34mm	04610
31462	HSK63A x ER32 - 100mm, slotted nut	100mm	74mm	50mm	04616
31468	HSK63A x ER40 - 80mm, slotted nut	80mm	54mm	63mm	04617
31472	HSK63A x ER40 - 120mm, slotted nut	120mm	94mm	63mm	04617
31484	HSK100A x ER16 - 100mm, hex nut	100mm	74mm	28mm	04609
31486	HSK100A x ER16 - 160mm, hex nut	160mm	134mm	28mm	04609
31498	HSK100A x ER32 - 100mm, slotted nut	100mm	71mm	50mm	04616
31503	HSK100A x ER32 - 160mm, slotted nut	160mm	134mm	50mm	04616
31506	HSK100A x ER40 - 120mm, slotted nut	120mm	91mm	63mm	04617

## HSKA Coolant Pipe and Wrench

Part No.	Description	HSK-A	D	T	Wrench
92002	Coolant Pipe	40	8mm	M12 x 1	91.11.026.002
92003	Coolant Pipe	50	10mm	M16 x 1	92.11.026.003
92004	Coolant Pipe	63	12mm	M18 x 1	93.11.026.004
92005	Coolant Pipe	100	16mm	M24 x 1.5	95.11.026.005



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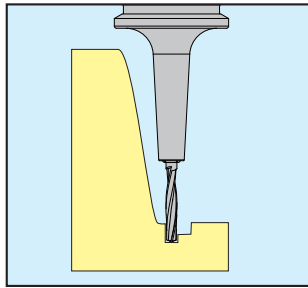
# HSK63A Precision SlimFIT Toolholders



Internal drawbar collet eliminates need for clamping nut to permit narrow nose diameter. 4° collet provides greater holding power and improved accuracy.



Coolant-thru design



Maximum nose clearance

## Features

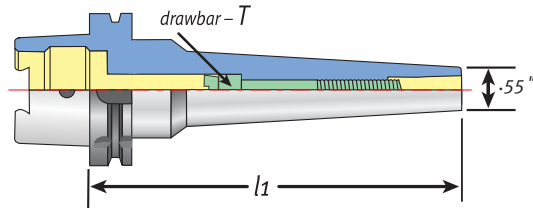
- Maximum T.I.R. 0.0001" from taper to collet pocket
- Balanced to 25,000 RPM at G2.5
- Nose diameter only .55"
- Use with SlimFIT collets for shank sizes 3/32" – 1/4"



## Collet Set

Part No.	Description
18743-12IMS	SlimFIT 6 - 12 pc. set

1/8" – 1/4" by 64ths (except no 5/32 or 7/32) 3mm – 6mm by 1mm



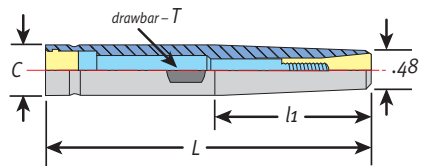
## SlimFIT HSK63A Toolholders

Part No.	Description	l1	l2	Drawbar
35470	HSK63A x SBL6-80 SlimFIT	80mm	54mm	SYIC-SBL-M6C-15
35472	HSK63A x SBL6-120 SlimFIT	120mm	94mm	SYIC-SBL-M6C-50



## Features

- Use with any toolholder
- Extremely accurate drawbar collet
- Use with SlimFIT 6 collets



## SlimFIT Extensions

Part No.	Description	L	l1	C
06032-3	1/2" x OLP6-3" extension	3"	1.89"	.50"
06032	1/2" x OLP6-5" extension	5"	1.89"	.50"
06034	1/2" x OLP6-6" extension	6"	1.89"	.50"
06038	5/8" x OLP6-5" extension	5"	1.89"	.625"
06040	5/8" x OLP6-6" extension	6"	1.89"	.625"
06042	5/8" x OLP6-8" extension	8"	1.89"	.625"

## SlimFIT Inch Size Collets

Part No.	Description
18851-3/32	SlimFIT 6 - 3/32" collet
18851-7/64	SlimFIT 6 - 7/64" collet
18851-1/8	SlimFIT 6 - 1/8" collet
18851-9/64	SlimFIT 6 - 9/64" collet
18851-5/32	SlimFIT 6 - 5/32" collet
18851-11/64	SlimFIT 6 - 11/64" collet
18851-3/16	SlimFIT 6 - 3/16" collet
18851-13/64	SlimFIT 6 - 13/64" collet
18851-7/32	SlimFIT 6 - 7/32" collet
18851-15/64	SlimFIT 6 - 15/64" collet
18851-1/4	SlimFIT 6 - 1/4" collet

## SlimFIT Metric Size Collets

Part No.	Description
18851-03	SlimFIT 6 - 3mm collet
18851-04	SlimFIT 6 - 4mm collet
18851-05	SlimFIT 6 - 5mm collet
18851-05.5	SlimFIT 6 - 5.5mm collet
18851-06	SlimFIT 6 - 6mm collet

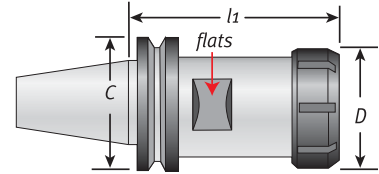
# ISO and SK Precision CNC Router Toolholders



Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Balanced to 40,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket
- PowerCOAT nut and retention knob included



## ISO 20 and ISO 25 Toolholders for CNC Routers

Part No.	Description	l1	C	D	Nut	Wrench	Flats
16000-2016MC	*ISO 20 x ER16 - 52mm, HS mini nut & pull stud	52mm	30mm	22mm	53116	04622	17
16000-2516	ISO 20 x ER16 - 52mm, slotted nut & pull stud	52mm	30mm	32mm	46116	04613	17
16000-2520	ISO 20 x ER20 - 52mm, slotted nut & pull stud	52mm	30mm	35mm	46120	04614	17
12194-IS025	ISO 25 x ER25 - 50mm, slotted nut & pull stud	50mm	38mm	42mm	46125	04615	27
25077	ISO 25 x ER25 - 65mm, slotted nut & pull stud	65mm	38mm	42mm	23111	04615	27

\*Balanced to 40,000 RPM. Use for Haas OM-1A, OM-2A Office Mills. Haas is trademark of Haas Automation and used here for identification only.



## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power

Taper ground to AT3 accuracy or better  
Techniks Certified for accuracy and balance



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200



Wrenches  
pg. 204



Tightening  
Stands  
pg. 206

## ISO 30 and SK 30 Toolholders for CNC Routers

Part No.	Description	l1	C	D	Nut	Wrench	Flats
42407-W	ISO 30 x ER11 - 100mm, mini nut	100mm	50mm	16mm	23111	04621	14
42213-W-50	ISO 30 x ER32 - 50mm, slotted nut	50mm	50mm	50mm	46132	04616	47
42213-W-63	ISO 30 x ER32 - 63mm, slotted nut	63mm	50mm	50mm	46132	04616	36
42213-W-90	ISO 30 x ER32 - 90mm, slotted nut	90mm	50mm	50mm	46132	04616	36
12000-CMS	ISO 30 x ER32 - CMS toolholder	58mm	46mm	50mm	46132	04616	36
12040-CMS	ISO 30 x ER40 - CMS toolholder	66mm	46mm	63mm	46140	04617	42
42215-W-57	ISO 30 x ER40 - 57mm, slotted nut	57mm	50mm	63mm	46140	04617	47
42261-W	ISO 40 x ER40 - 70mm, slotted nut	70mm	63.55mm	63mm	46140	04617	46
NT-54300130	SK-30 x SYOZ 25 toolholder	63mm	50mm	60mm	83632	03691	38



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# BT30 and BT 35 Precision CNC Router Toolholders



PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200

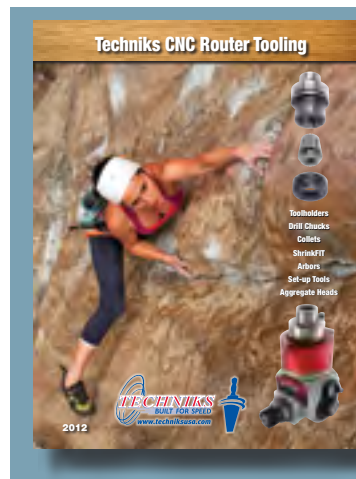
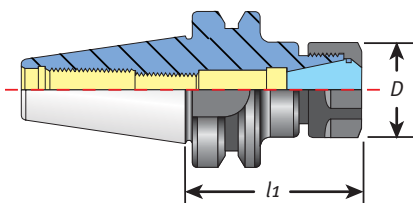


Wrenches  
pg. 204



Tightening  
Stands  
pg. 206

Don't see what you are looking for? See page 29 for the rest of our BT30 collet chucks, or you can request a special order if needed.



Scan the QR code with a smartphone or enter this url: [http://delivr.com/1ioe6\\_qr](http://delivr.com/1ioe6_qr) to request our new 76 page CNC Router Tooling catalog. Or, you can call us at (800) 597-3921 to have it sent to you.



## BT30, ER Toolholders

Part No.	Description	l1	D	Collet Nut	Stop Screw	Wrench
16106-W	BT30 x ER20 - 70 without slots	70mm	34mm	41120	06087	04614
16121	BT30 x ER32 - 60, 41mm flats - Komo	60mm	50mm	46132	06089	04616
16131	BT30 x ER32 - 90 38mm flats - Komo	90mm	50mm	46132	06089	04616

## BT30, SYOZ 25 Toolholders

Part No.	Description	l1	D	Collet Nut	Wrench
16001-W	BT30 x SYOZ 25 - 70, 38mm flats	70mm	60mm	83632	03691
16001	BT30 x SYOZ 25 - 70 with nut	70mm	60mm	83632	03691

## BT 35, ER32, SYOZ 25 Toolholders for Heian Routers

Part No.	Description	l1	D	Collet Nut	Wrench
16010	BT 35 x SYOZ 25 - 76 with nut	76mm	60mm	83632	03691
161-BT35-ER32 76	BT 35 x ER32 - 76	76mm	50mm	46132	04616



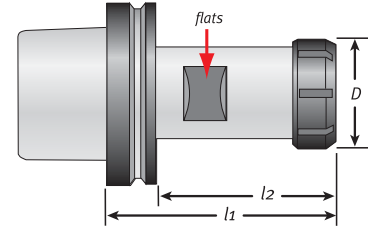
# HSK E and HSK F Precision CNC Router Toolholders



Techniks Certified for accuracy and balance

## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power



## HSK32E, 40E, 50E, 63E Toolholders for HSK E Type Spindle

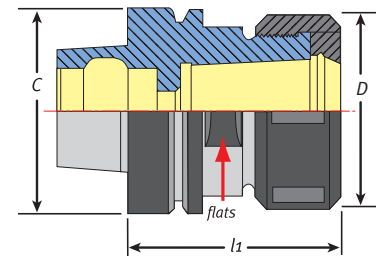
Part No.	Description	l1	l2	D	Nut	Stop Screw	Wrench	Flats
31374-60-E	HSK32E x ER25 - 60mm, slotted nut	60mm	27mm	42mm	46125	06089	04615	22mm
31376-E	HSK40E x ER16 - 65mm, slotted nut	65mm	45mm	32mm	46116	06083	04613	24mm
31383-E	HSK40E x ER25 - 75mm, slotted nut	75mm	55mm	42mm	46125	06089	04615	27mm
31386-E	HSK40E x ER32 - 100mm, slotted nut	100mm	80mm	50mm	46132	06089	04616	35mm
31402-E	HSK50E x ER16 - 80mm, slotted nut	80mm	60mm	28mm	46116	06083	04613	27mm
31419-E	HSK50E x ER32 - 85mm, slotted nut	85mm	59mm	50mm	46132	06089	04616	36mm
31456-E	HSK63E x ER32 - 90mm, slotted nut	90mm	64mm	50mm	46132	06089	04616	36mm
31472-E	HSK63E x ER40 - 120mm, slotted nut	120mm	94mm	63mm	46140	06091	04617	46mm
50001	HSK63E x ER40 -75mm, slotted nut	75mm	49mm	63mm	46140	06091	04617	46mm



## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket

PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report



## HSK50F, 63F Toolholders for CNC Routers

Part No.	Description	l1	D	Nut	Wrench	Flats
31419-F	HSK50F x ER32 - 80mm, slotted nut	80mm	50mm	46132	04616	36mm
31431-F	HSK63F x ER16 - 60mm, slotted nut	60mm	32mm	46116	04613	26mm
31434-F	HSK63F x ER16 - 100mm, slotted nut	100mm	32mm	46116	04613	26mm
30000	HSK63F x ER32 - 70mm, slotted nut	70mm	50mm	46132	04616	36mm
30001	HSK63F x ER40 - 75mm, slotted nut	75mm	63mm	46140	04617	46mm
30001-L	HSK63F x ER40 - 75mm, left-hand thread	75mm	63mm	46140-L	04617	46mm
30002	HSK63F x ER40 - 90mm, slotted nut	90mm	63mm	46140	04617	46mm
30003	HSK63F x ER40 - 115mm, slotted nut	115mm	63mm	46140	04617	46mm
30005	HSK63F x ER40 - 125mm, slotted nut	125mm	63mm	46140	04617	46mm
31025F	HSK63 F x SYOZ 25 - 80mm, slotted nut	80mm	60mm	83632	03691	38mm



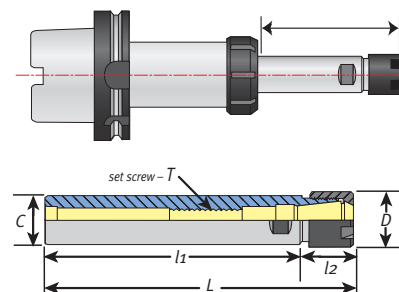
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# Precision ER Mini-Nut and Straight Shank Extensions



## Features

- Collet pocket T.I.R. 0.0001"
  - All surfaces precision ground
- Extension length should not exceed a 4 : 1 ratio of length to diameter. For example, a 1/2" shank should not extend more than 2" in front of the holder.



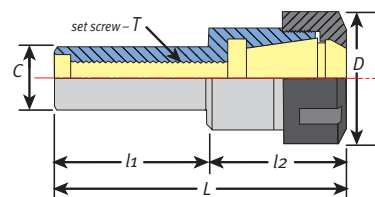
## Mini-Nut ER Straight Shank Extensions

Part No.	Description	C	L	l1	l2	D	Stop Screw	Wrench
04889	3/8" x ER8, - 100mm	3/8"	124mm	100mm	24mm	12mm	-	04620
04891	1/2" x ER11, - 140mm	1/2"	166.5mm	140mm	26.5mm	16mm	-	04621
04893	5/8" x ER11, - 140mm	5/8"	158.5mm	140mm	18.5mm	16mm	-	04621
04895	1/2" x ER16, - 140mm	1/2"	177mm	140mm	37mm	22mm	-	04622
04896	3/4" x ER16, - 140mm	3/4"	165mm	140mm	25mm	22mm	06083	04622
04892	1/2" x ER20, - 140mm	1/2"	180mm	140mm	40mm	28mm	06083	04623
04894	3/4" x ER20, - 140mm	3/4"	180mm	140mm	40mm	28mm	06083	04623
04881	20mm x ER20, - 180mm	20mm	220mm	180mm	40mm	28mm	06083	04623
04897	1.0" x ER20, - 140mm	1.0"	168mm	140mm	28mm	28mm	06083	04623
04898	3/4" x ER25, - 100mm	3/4"	149mm	100mm	49mm	35mm	06087	04624
04888	1.0" x ER25, - 140mm	1.0"	190mm	140mm	50mm	35mm	06083	04624



## Features

- Collet pocket T.I.R. 0.0001"
- All surfaces precision ground



## ER Straight Shank Extensions

Part No.	Description	C	L	l1	l2	D	Stop Screw	Wrench
04851	16mm x ER11, - 140mm, hex nut	16mm	174.5mm	140mm	21.6mm	19mm	-	04608
04855	1/2" x ER11, - 140mm, hex nut	1/2"	174.5mm	140mm	21.6mm	19mm	-	04608
04854	5/8" x ER11, - 140mm, hex nut	5/8"	174.5mm	140mm	21.6mm	19mm	-	04608
04832	5/8" x ER16, - 60mm, hex nut	5/8"	95.1mm	60mm	35.1mm	28mm	-	04609
04834	3/4" x ER16, - 50mm, hex nut	3/4"	85.1mm	50mm	35.1mm	28mm	06083	04609
04835	3/4" x ER16, - 100mm, hex nut	3/4"	135.1mm	100mm	35.1mm	28mm	06083	04609
04856	3/4" x ER16, - 140mm, hex nut	3/4"	175.1mm	140mm	35.1mm	28mm	06083	04609
04836-2.5	3/4" x ER20, - 2-1/2", hex nut	3/4"	100mm	2-1/2"	38mm	34mm	06083	04610
04858	1.0" x ER20, - 140mm, hex nut	1.0"	180.5mm	140mm	40.5mm	34mm	06083	04610
04837	1.0" x ER25, - 50mm, slotted nut	1.0"	101mm	50mm	51mm	42mm	06089	04615
04817	20mm x ER32, - 50mm, slotted nut	20mm	97.1mm	50mm	47mm	50mm	06089	04616
04818	20mm x ER32, - 100mm, slotted nut	20mm	146.5mm	100mm	47mm	50mm	06083	04616
04839	1.0" x ER32, - 50mm, slotted nut	1.0"	101.5mm	50mm	51.5mm	50mm	06089	04616
04839-140	1.0" x ER32, - 140mm, slotted nut	1.0"	191.5mm	140mm	51.5mm	50mm	06083	04616
04843	1-1/4" x ER32, - 60mm, slotted nut	1-1/4"	111.5mm	60mm	51.5mm	50mm	06089	04616
04841	1.0" x ER40, - 50mm, slotted nut	1.0"	115mm	50mm	65mm	63mm	06083	04617

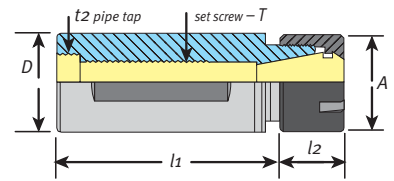
# Precision ER Coolant-Thru Shanks and ER Double Ended



No. 04805-C

## Features

- For coolant up to 1,500 PSI
- Collet pocket T.I.R. 0.0001"
- PowerCOAT coolant nut included



Use with Black Gold ER coolant rings for coolant-thru 04808C available with 1/8" NPT side entry coolant. Mini Coolant nuts page 63. Coolant-thru-tool set screws page 45.

## Coolant-Thru Straight Shank Extensions

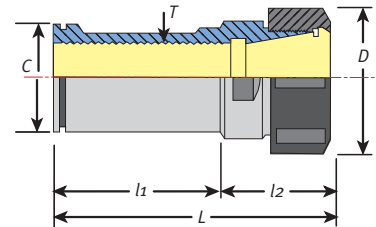
Part No.	Description	l1	l2	D	T	t2	A	Wrench
04802-C	3/4" x ER16, - 2" shank, coolant mini nut	1.65"	.916"	3/4"	m10 x 1.5	1/4" NPT	22mm	04622
04803-C	3/4" x ER16, - 3" shank, coolant mini nut	2.44"	.916"	3/4"	m10 x 1.5	1/4" NPT	22mm	04622
04804-C	3/4" x ER16, - 4" shank, coolant mini nut	3.42"	.916"	3/4"	m10 x 1.5	1/4" NPT	22mm	04622
04805-C	1.0" x ER20, - 3" shank, coolant mini nut	2.01"	1.07"	1.0"	m12 x 1.75	3/8" NPT	1.10"	04623
04806-C	1.0" x ER20, - 4" shank, coolant mini nut	3.31"	1.07"	1.0"	m12 x 1.75	3/8" NPT	1.10"	04623
04808-C	1.25" x ER32, - 2.36" shank, slotted nut	2.36"	2.16"	1-1/4"	m12 x 1.75	3/8" NPT	1.97"	04616



O-ring seals coolant

## Features

- For coolant up to 1,500 PSI
- Collet pocket T.I.R. 0.0001"
- PowerCOAT coolant nut included



This ER collet chuck fits CNC lathes and can also be used for tapping applications. It seals coolant from the turret to the shank with an o-ring on the end of the shank.

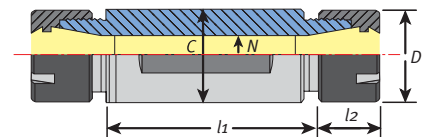
## CNC Lathe Coolant-thru Straight Shanks

Part No.	Description	C	l1	L	l2	D	T	Wrench
04782	1-1/4" x ER25, - 60mm shank	1-1/4"	60mm	97mm	37mm	42mm	M18 x 1.5	04615
04784	1-1/4" x ER32, - 60mm shank	1-1/4"	60mm	103mm	43mm	50mm	M22 x 1.5	04616
04788	1-1/2" x ER32, - 80mm shank	1-1/2"	80mm	118mm	38mm	50mm	M22 x 1.5	04616
04786	1-1/4" x ER40, - 60mm shank	1-1/4"	60mm	120mm	60mm	63mm	M28 x 1.5	04617
04790	1-1/2" x ER40, - 75mm shank	1-1/2"	75mm	135mm	60mm	63mm	M28 x 1.5	04617



## Features

- Collet pocket T.I.R. 0.0001"
- Wrench flats extend full length of shank



## Double-Ended Straight Shank for CNC Swiss Machines

Part No.	Description	C	D	L1	L2	N	Wrench
04801-DE	3/4" x ER11, - 2.5" shank, double ended mini nut	3/4"	16mm	44mm	12mm	8mm	04621
04802-DE	3/4" x ER11, - 3.35" shank, double ended mini nut	3/4"	16mm	65mm	12mm	8mm	04621
04803-DE	3/4" x ER11, - 4.0" shank, double ended mini nut	3/4"	16mm	77mm	12mm	8mm	04621
04804-DE	3/4" x ER11, - 5.0" shank, double ended mini nut	3/4"	16mm	99.5mm	12mm	8mm	04621

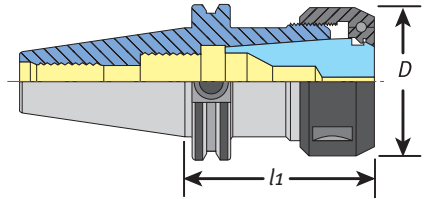
# TG75 and TG100 Precision Toolholders



Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

## Features

- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" measured from taper to collet pocket
- PowerCOAT nut included for 75% more clamping power



## TG75 and TG100 Precision Toolholders

Part No.	Description	l1	D	Collet Range	Stop Screw	Wrench
23008	CAT40 x TG75 - 2.75"	2.75"	1.88"	.094 - .750"	06089	04616
23014	CAT40 x TG100 - 3"	3"	2.362"	.094 - 1.0"	06093	03691
23016	CAT40 x TG100 - 4"	4"	2.362"	.094 - 1.0"	06093	03691
23018	CAT40 x TG100 - 6"	6"	2.362"	.094 - 1.0"	06093	03691
23030	CAT50 x TG100 - 3"	3"	2.362"	.094 - 1.0"	06093	03691
23032	CAT50 x TG100 - 4"	4"	2.362"	.094 - 1.0"	06093	03691
23034	CAT50 x TG100 - 6"	6"	2.362"	.094 - 1.0"	06093	03691
23035	CAT50 x TG100 - 8"	8"	2.362"	.094 - 1.0"	06093	03691

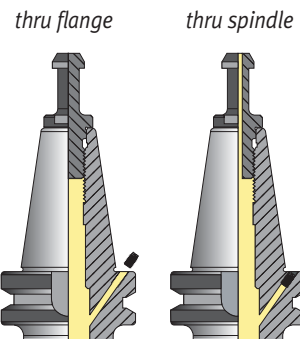
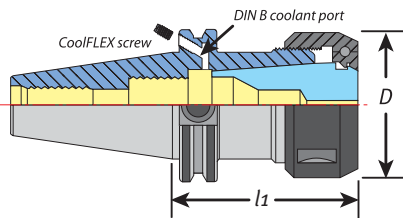


## Features

- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better from taper to collet pocket

PowerCOAT nut is included with each holder.  
Techniks Certified for accuracy and balance  
Each holder comes with a complete lab report

CoolFLEX holders are factory set for coolant-thru spindle. Simply remove 2 stop screws for DIN B coolant-thru flange.



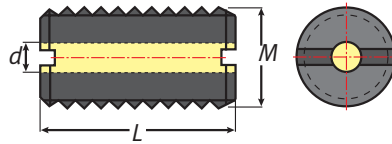
Part No.	CoolFLEX Screws
HSA-4-6	40 taper DIN B screw
HSA-6-6	50 taper DIN B screw

## TG100 CoolFLEX Coolant -Thru Spindle or Flange (DIN B)

Part No.	Description	l1	D	Collet	Collet Range	Stop Screw	Wrench
23014F	CAT40 CoolFLEX x TG100 - 3"	3"	2.362"	TG100	.094 - 1.0"	06093	03691
23016F	CAT40 CoolFLEX x TG100 - 4"	4"	2.362"	TG100	.094 - 1.0"	06093	03691
23018F	CAT40 CoolFLEX x TG100 - 6"	6"	2.362"	TG100	.094 - 1.0"	06093	03691
23030F	CAT50 CoolFLEX x TG100 - 3"	3"	2.362"	TG100	.094 - 1.0"	06093	03691



# Coolant Set Screws & Recommended Torque Values



## Coolant Set Screws

Part No.	Description	M	L	d
16080C-20	Coolant Set Screw	M5 x 0.8P	20mm	2.5
16082C-20	Coolant Set Screw	M8 x 1.25P	20mm	4
16083C-20	Coolant Set Screw	M10 x 1.5P	20mm	4
16085C-20	Coolant Set Screw	M12 x 1.75P	20mm	4
16089C-20	Coolant Set Screw	M16 x 02.0P	20mm	5
16091C-20	Coolant Set Screw	M20 x 2.0P	20mm	5



Collets  
pg. 48



Nuts  
pg. 62



Coolant  
Rings  
pg. 64



Retention  
Knobs  
pg. 200



Wrenches  
pg. 204

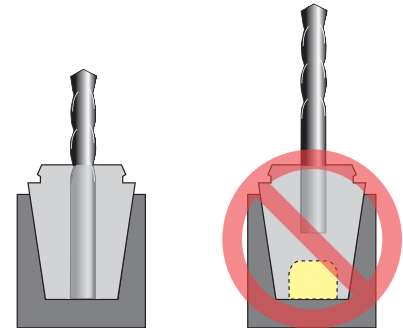


Tightening  
Stands  
pg. 206

## Recommended Collet & Retention Knob Tightening Torque

Collet	Nut Type	Collets I.D. OVER 1/16" (2mm)	Collets I.D. UNDER 1/16" (2mm)	Order Torque Wrench Adapter
ER16	slotted	42 ft/lbs	30 ft/lbs	04580-16
ER16	hex	42 ft/lbs	30 ft/lbs	04601-16
ER20	slotted	59 ft/lbs	24 ft/lbs	04580-20
ER20	hex	59 ft/lbs	24 ft/lbs	04602-20
ER25	slotted	77 ft/lbs	77 ft/lbs	04503-25
ER25	mini nut	25 ft/lbs	25 ft/lbs	04587
ER32	slotted	100 ft/lbs	100 ft/lbs	04604-32
ER40	slotted	130 ft/lbs	130 ft/lbs	04605-40
SYOZ 25	hook	90 ft/lbs	90 ft/lbs	03690-25
TG75	slotted	90 ft/lbs	90 ft/lbs	04604-32
TG100	hook	90 ft/lbs	90 ft/lbs	03690-25

Retention Knobs	Wrench Flats	Drive	Torque	Order Socket
BT30 Taper	0.535"	1/4"	36 ft/lbs	PSS-30BT
ISO 30 Taper	0.535"	3/8"	36 ft/lbs	PSS-30ISO
Any 40 Taper	0.750"	3/8"	76 ft/lbs	PSS-40
BT50 Taper	1.187"	1/2"	99 ft/lbs	PSC-50
CAT50 Taper	1.250"	1/2"	99 ft/lbs	PSC-50



For maximum holding power fill the collet all the way with the tool shank (left) and use a PowerCOAT nut.

## DIRECTIONS

1. Snap collet into nut.
2. Insert cutting tool into collet.  
Make sure shank extends to the bottom of the collet.
3. Hand tighten collet nut assembly into toolholder.
4. Insert toolholder assembly into tightening fixture and secure it.
5. Tighten collet nut to recommended torque using a torque wrench and adapter.

# Measurement Guide for Special Order Toolholders

V-flange CNC machine  
make, model and spindle

v-flange tool #1 dimensions

D = \_\_\_\_\_  
 F = \_\_\_\_\_  
 W = \_\_\_\_\_  
 A = \_\_\_\_\_  
 N = \_\_\_\_\_

v-flange tool #2 dimensions

D = \_\_\_\_\_  
 F = \_\_\_\_\_  
 W = \_\_\_\_\_  
 A = \_\_\_\_\_  
 N = \_\_\_\_\_

HSK CNC machine  
make, model and spindle

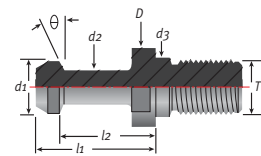
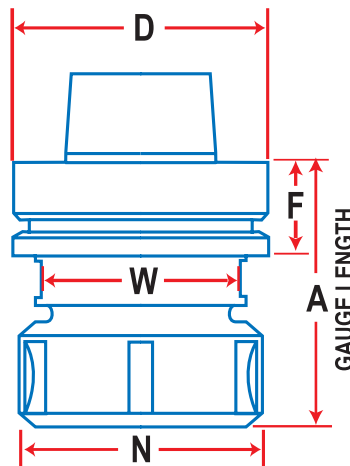
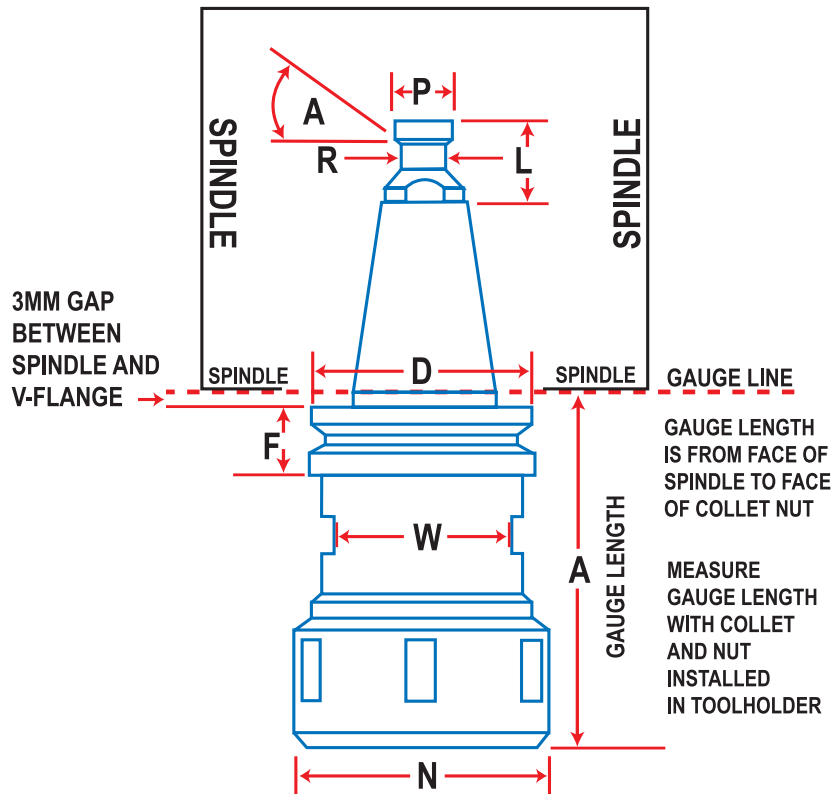
HSK tool #1 dimensions

D = \_\_\_\_\_  
 F = \_\_\_\_\_  
 W = \_\_\_\_\_  
 A = \_\_\_\_\_  
 N = \_\_\_\_\_

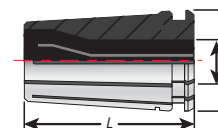
HSK tool #2 dimensions

D = \_\_\_\_\_  
 F = \_\_\_\_\_  
 W = \_\_\_\_\_  
 A = \_\_\_\_\_  
 N = \_\_\_\_\_

Fill in all the required dimensions (left).  
 Then, fax or phone in your order for a fast quote.



For special order retention  
knobs call (800) 597-3921



For special order collets  
call (800) 597-3921