

# Precision End Mill Holders

*Double your tool life or better with our high-precision End Mill holders.*

## Manufactured to H5 Bore Tolerance

*Techniks End Mill holders are the most accurate on the market for improved T.I.R. and extended tool life. (see diagram below)*

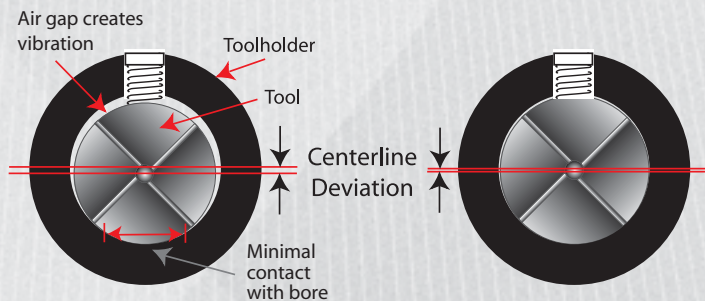


## Three Coolant Style Holders Available

*CoolBLAST coolant ports (shown) blast coolant on tool path. CoolFLEX holders are factory set for coolant-thru tool or remove 2 setscrews for DIN B coolant-thru flange.*

***Others T.I.R. .0008"***

***Techniks .0002"***



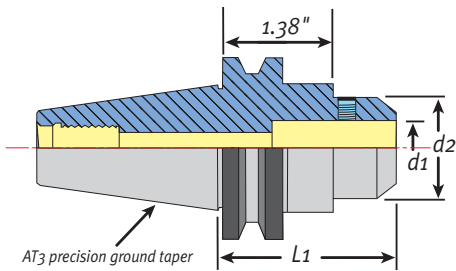
***You lose 10% of tool life for every .0001" of T.I.R.  
Techniks End Mill holders are manufactured to an  
H5 bore tolerance to extend cutting tool life.***

## **Built for Speed.**

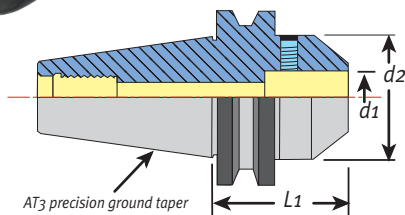
# CAT40 Precision End Mill Holders



Techniks Certified for bore and taper tolerances



Stubby



## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life
- Taper ground to AT<sub>3</sub> for maximum spindle contact

## CAT40 End Mill Holders Inch Size

| Part No.   | Description               | d1    | L1    | d2    |
|------------|---------------------------|-------|-------|-------|
| 22907      | CAT40 x 1/8" I.D. - 2.37" | 1/8"  | 2.37" | .69"  |
| 22909      | CAT40 x 3/16" I.D. - 2.5" | 3/16" | 2.5"  | .69"  |
| 22911      | CAT40 x 1/4" I.D. - 3"    | 1/4"  | 3"    | .78"  |
| 22911-2.5  | CAT40 x 1/4" I.D. - 2.5   | 1/4"  | 2.5"  | .78"  |
| 22913      | CAT40 x 5/16" I.D. - 3"   | 5/16" | 3"    | .88"  |
| 22913-2.5  | CAT40 x 5/16" I.D. - 2.5" | 5/16" | 2.5"  | .88"  |
| 22915      | CAT40 x 3/8" I.D. - 3"    | 3/8"  | 3"    | 1.0"  |
| 22915-2.5  | CAT40 x 3/8" I.D. - 2.5"  | 3/8"  | 2.5"  | 1.0"  |
| 22916-2.5  | CAT40 x 7/16" I.D. - 2.5" | 7/16" | 2.5"  | 1.13" |
| 22917      | CAT40 x 1/2" I.D. - 3"    | 1/2"  | 3"    | 1.25" |
| 22917-2.5  | CAT40 x 1/2" I.D. - 2.5"  | 1/2"  | 2.5"  | 1.25" |
| 22917-2.63 | CAT40 x 1/2" I.D. - 2.63" | 1/2"  | 2.63" | 1.25" |
| 22919      | CAT40 x 5/8" I.D. - 3"    | 5/8"  | 3"    | 1.5"  |
| 22920      | CAT40 x 5/8" I.D. - 3.75" | 5/8"  | 3.75" | 1.5"  |
| 22921      | CAT40 x 3/4" I.D. - 3.5"  | 3/4"  | 3.5"  | 1.75" |
| 22921-3    | CAT40 x 3/4" I.D. - 3"    | 3/4"  | 3"    | 1.75" |
| 22923      | CAT40 x 7/8" I.D. - 3.5"  | 7/8"  | 3.5"  | 1.88" |
| 22925-3    | CAT40 x 1.0" I.D. - 3"    | 1.0"  | 3"    | 2"    |
| 22925      | CAT40 x 1.0" I.D. - 4"    | 1.0"  | 4"    | 2"    |
| 22927      | CAT40 x 1.25" I.D. - 4.6" | 1.25" | 4.6"  | 2.5"  |
| 22927-4    | CAT40 x 1.25" I.D. - 4"   | 1.25" | 4"    | 2.5"  |
| 22929      | CAT40 x 1.5" I.D. - 4.5"  | 1.5"  | 4.5"  | 2.5"  |

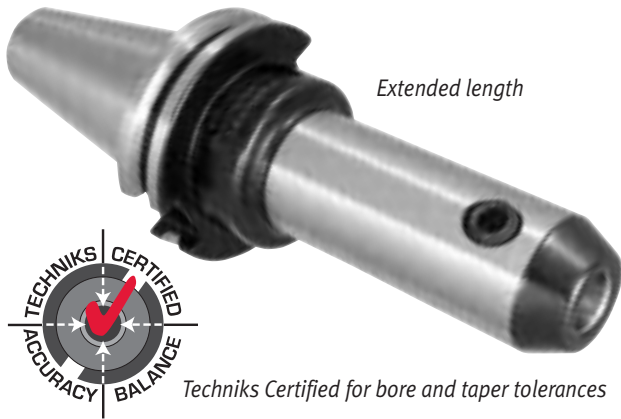
## CAT40 Stubby Length End Mill Holders

| Part No.    | Description                | d1     | L1    | d2    |
|-------------|----------------------------|--------|-------|-------|
| 22907-1.75  | CAT40 x 1/8" I.D. - 1.75"  | 1/8"   | 1.75" | .75"  |
| 22909-1.75  | CAT40 x 3/16" I.D. - 1.75" | 3/16"  | 1.75" | .79"  |
| 22911-1.75  | CAT40 x 1/4" I.D. - 1.75"  | 1/4"   | 1.75" | .79"  |
| 22913-1.75  | CAT40 x 5/16" I.D. - 1.75" | 5/16"  | 1.75" | .88"  |
| 22915-1.75  | CAT40 x 3/8" I.D. - 1.75"  | 3/8"   | 1.75" | .88"  |
| 22916-1.75  | CAT40 x 7/16" I.D. - 1.75" | 7/16"  | 1.75" | 1.12" |
| 22917-1.75  | CAT40 x 1/2" I.D. - 1.75"  | 1/2"   | 1.75" | 1.50" |
| 22919-1.75  | CAT40 x 5/8" I.D. - 1.75"  | 5/8"   | 1.75" | 1.50" |
| 22921-1.75  | CAT40 x 3/4" I.D. - 1.75"  | 3/4"   | 1.75" | 1.75" |
| 22925A-1.75 | CAT40 x 1.0" I.D. - 1.75"  | 1.0"   | 1.75" | 2"    |
| 22927A-2    | CAT40 x 1-1/4" I.D. - 2"   | 1-1/4" | 2"    | 2.5"  |

## CAT40 End Mill Holders Metric Size

| Part No. | Description              | d1   | L1   | d2   |
|----------|--------------------------|------|------|------|
| 22963    | CAT40 x 6mm I.D. - 2.5"  | 6mm  | 2.5" | 25mm |
| 22965    | CAT40 x 8mm I.D. - 2.5"  | 8mm  | 2.5" | 28mm |
| 22967    | CAT40 x 10mm I.D. - 2.5" | 10mm | 2.5" | 35mm |
| 22969    | CAT40 x 12mm I.D. - 2.5" | 12mm | 2.5" | 42mm |
| 22971    | CAT40 x 16mm I.D. - 2.5" | 16mm | 2.5" | 48mm |
| 22973    | CAT40 x 20mm I.D. - 3"   | 20mm | 3"   | 52mm |
| 22975    | CAT40 x 25mm I.D. - 4"   | 25mm | 4"   | 65mm |
| 22977    | CAT40 x 32mm I.D. - 4"   | 32mm | 4"   | 72mm |

# CAT40 Precision End Mill Holders



Extended length

## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life
- Taper ground to AT3 for maximum spindle contact

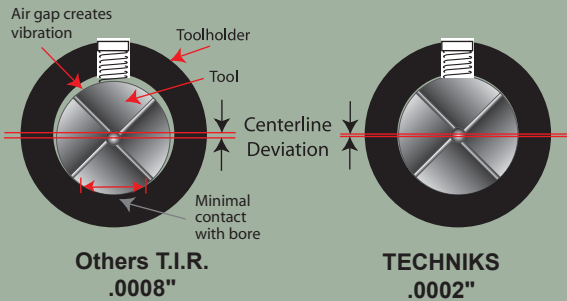


Rigid Reach

Our Rigid Reach End Mill holders are great for machining in tight areas at extended length where tolerance is important. The tapered design improves rigidity and overall cutting performance.

## Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" of T.I.R.



Retention Knobs pg. 200



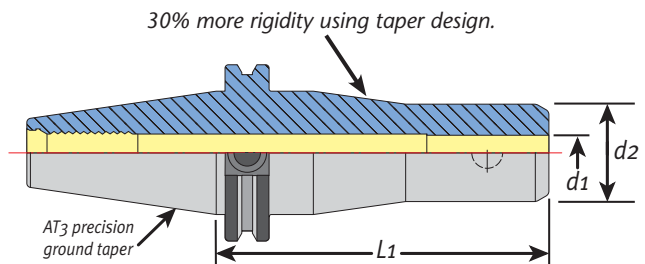
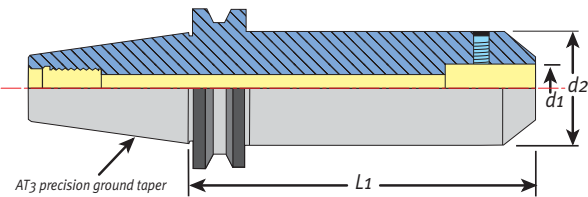
Lock Screws pg. 89



Wrenches pg. 204



Tightening Stands pg. 206



## CAT40 Extended Length End Mill Holders

| Part No.   | Description               | d1      | L1    | d2    |
|------------|---------------------------|---------|-------|-------|
| 22907-6    | CAT40 x 1/8" I.D. - 6"    | 1/8"    | 6"    | .69"  |
| 22909-6    | CAT40 x 3/16" I.D. - 6"   | 3/16"   | 6"    | .69"  |
| 22911-6    | CAT40 x 1/4" I.D. - 6"    | 1/4"    | 6"    | .78"  |
| 22915-5    | CAT40 x 3/8" I.D. - 5"    | 3/8"    | 5"    | 1.0"  |
| 22917-4.63 | CAT40 x 1/2" I.D. - 4.63" | 1/2"    | 4.63" | 1.25" |
| 22920-5.75 | CAT40 x 5/8" I.D. - 5.75" | 5/8"    | 5.75" | 1.5"  |
| 22921-5    | CAT40 x 3/4" I.D. - 5"    | 3/4"    | 5"    | 1.75" |
| 22925-6    | CAT40 x 1.0" I.D. - 6"    | 1.0"    | 6"    | 2"    |
| 22927-6    | CAT40 x 1 -1/4" I.D. - 6" | 1 -1/4" | 6"    | 2.5"  |

## CAT40 Rigid Reach End Mill Holders

| Part No.      | Description                | d1    | L1    | d2    |
|---------------|----------------------------|-------|-------|-------|
| 22907-5.00-RR | CAT40 x 1/8" I.D. - 5"     | 1/8"  | 5"    | .78"  |
| 22909-4.72-RR | CAT40 x 3/16" I.D. - 4.72" | 3/16" | 4.72" | .78"  |
| 22911-4.72-RR | CAT40 x 1/4" I.D. - 4.72"  | 1/4"  | 4.72" | .78"  |
| 22913-4.72-RR | CAT40 x 5/16" I.D. - 4.72" | 5/16" | 4.72" | .86"  |
| 22915-4.72-RR | CAT40 x 3/8" I.D. - 4.72"  | 3/8"  | 4.72" | 1.0"  |
| 22917-4.72-RR | CAT40 x 1/2" I.D. - 4.72"  | 1/2"  | 4.72" | 1.38" |



# CAT40 Precision CoolBLAST End Mill Holders



## CoolBLAST Features

- Blast coolant directly on tool path
- No need for expensive coolant-thru tools
- High precision bore (H5) is best in industry



Techniks Certified for bore and taper tolerances



Retention Knobs  
pg. 200



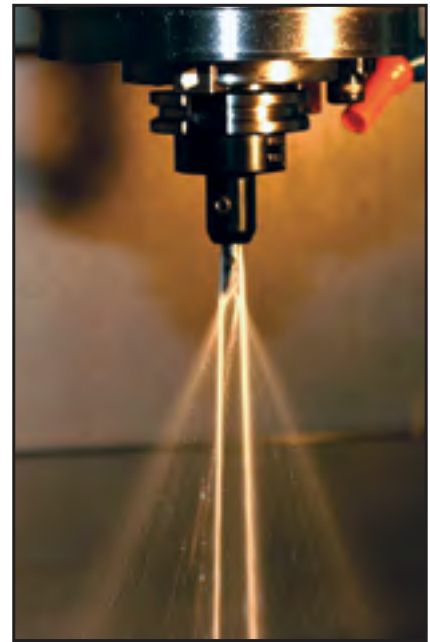
Lock Screws  
pg. 89



Wrenches  
pg. 204



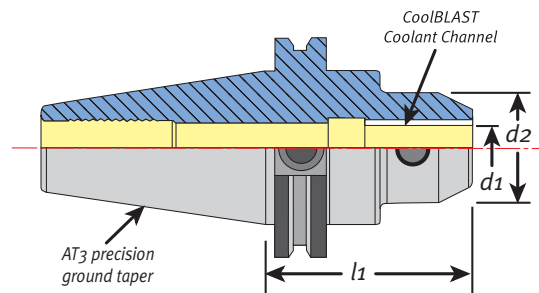
Tightening Stands  
pg. 206



CoolBLAST in-the-bore coolant ports blast coolant on the tool path, even at high RPMs.

## CAT40 CoolBLAST End Mill Holders

| Part No.    | Description               | d1    | l1    | d2    |
|-------------|---------------------------|-------|-------|-------|
| 22909-6B    | CAT40 x 3/16" I.D. - 6"   | 3/16" | 6"    | .69"  |
| 22911-2.5B  | CAT40 x 1/4" I.D. - 2.5"  | 1/4"  | 2.5"  | .78"  |
| 22911-6B    | CAT40 x 1/4" I.D. - 6"    | 1/4"  | 6"    | .78"  |
| 22915-2.5B  | CAT40 x 3/8" I.D. - 2.5"  | 3/8"  | 2.5"  | 1.0"  |
| 22915-4B    | CAT40 x 3/8" I.D. - 4"    | 3/8"  | 4"    | 1.0"  |
| 22917-2.5B  | CAT40 x 1/2" I.D. - 2.5"  | 1/2"  | 2.5"  | 1.25" |
| 22917B      | CAT40 x 1/2" I.D. - 3"    | 1/2"  | 3"    | 1.25" |
| 22917-4B    | CAT40 x 1/2" I.D. - 4"    | 1/2"  | 4"    | 1.25" |
| 22919B      | CAT40 x 5/8" I.D. - 3"    | 5/8"  | 3"    | 1.5"  |
| 22919-4B    | CAT40 x 5/8" I.D. - 4"    | 5/8"  | 4"    | 1.5"  |
| 22921-1.75B | CAT40 x 3/4" I.D. - 1.75" | 3/4"  | 1.75" | 1.75" |
| 22921-3B    | CAT40 x 3/4" I.D. - 3"    | 3/4"  | 3"    | 1.75" |
| 22921-4B    | CAT40 x 3/4" I.D. - 4"    | 3/4"  | 4"    | 1.75" |
| 22925B      | CAT40 x 1.0" I.D. - 4"    | 1.0"  | 4"    | 2"    |



# CAT40 Precision CoolFLEX End Mill Holders



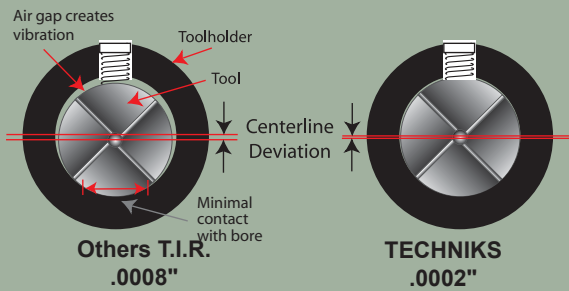
Techniks Certified for bore and taper tolerances

## CoolFLEX Features

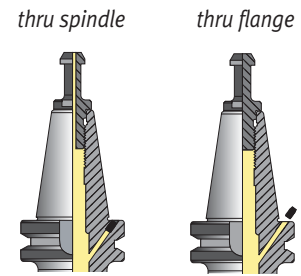
- Coolant-thru spindle or thru flange (DIN B)
- No need for expensive coolant-thru tools
- H<sub>5</sub> bore tolerance to increase tool life

## Techniks H<sub>5</sub> Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" of T.I.R.

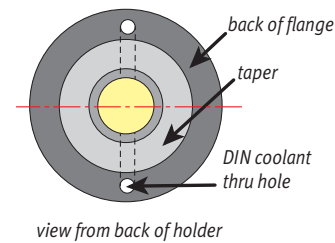


CoolFLEX holders are factory set for coolant-thru spindle.  
Remove 2 setscrews for DIN B coolant-thru flange

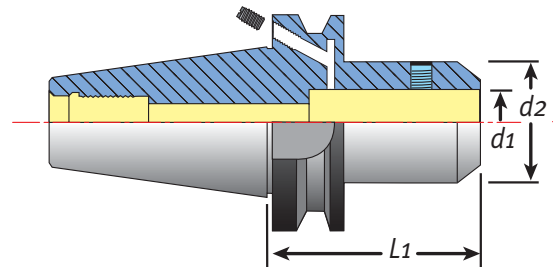


## CAT40 CoolFLEX End Mill Holders

| Part No.        | Description                | d1     | l1    | d2    |
|-----------------|----------------------------|--------|-------|-------|
| 22911F          | CAT40 x 1/4" I.D. - 3"     | 1/4"   | 3"    | .78"  |
| 22911-2.5F      | CAT40 x 1/4" I.D. - 2.5"   | 1/4"   | 2.5"  | .78"  |
| 22913-2.5F      | CAT40 x 5/16" I.D. - 2.5"  | 5/16"  | 2.5"  | .88"  |
| 22913F          | CAT40 x 5/16" I.D. - 3"    | 5/16"  | 3"    | .88"  |
| 22915-2.5F      | CAT40 x 3/8" I.D. - 2.5"   | 3/8"   | 2.5"  | 1.0"  |
| 22915F          | CAT40 x 3/8" I.D. - 3"     | 3/8"   | 3"    | 1.0"  |
| 22915-5F        | CAT40 x 3/8" I.D. - 5"     | 3/8"   | 5"    | 1.0"  |
| 22916-7/16-2.5F | CAT40 x 7/16" I.D. - 2.5"  | 7/16"  | 2.5"  | 1.13" |
| 22917F          | CAT40 x 1/2" I.D. - 3"     | 1/2"   | 3"    | 1.25" |
| 22919-1.75F     | CAT40 x 5/8" I.D. - 1.75"  | 5/8"   | 1.75" | 1.5"  |
| 22919F          | CAT40 x 5/8" I.D. - 3"     | 5/8"   | 3"    | 1.5"  |
| 22921-1.75F     | CAT40 x 3/4" I.D. - 1.75"  | 3/4"   | 1.75" | 1.75" |
| 22921-3F        | CAT40 x 3/4" I.D. - 3"     | 3/4"   | 3"    | 1.75" |
| 22921-5F        | CAT40 x 3/4" I.D. - 5"     | 3/4"   | 5"    | 1.75" |
| 22925-1.75F     | CAT40 x 1.0" I.D. - 1.75"  | 1.0"   | 1.75" | 2"    |
| 22925F          | CAT40 x 1.0" I.D. - 4"     | 1.0"   | 4"    | 2"    |
| 22927F          | CAT40 x 1-1/4" I.D. - 4.6" | 1-1/4" | 4.6"  | 2.5"  |
| 22929F          | CAT40 x 1-1/2" I.D. - 4.5" | 1-1/2" | 4.5"  | 2.5"  |



CoolFLEX DIN B Coolant



## Replacement CoolFLEX Screws

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



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

# CAT40 Precision CoolBLAST/CoolFLEX End Mill Holders



## CoolBLAST Features

- Blast coolant directly on tool path
- No need for expensive coolant-thru tools
- High precision bore (H5) is best in industry



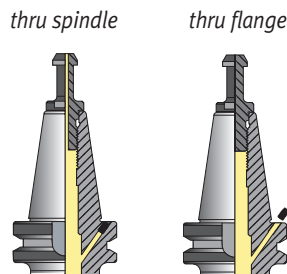
Techniks Certified for bore and taper tolerances

## CoolFLEX Features

- Coolant-thru spindle or thru flange (DIN B)

CoolFLEX holders are factory set for coolant-thru spindle.

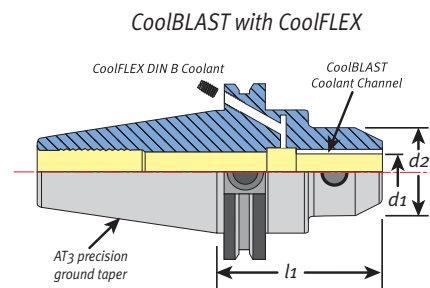
Remove 2 setscrews for DIN B coolant-thru flange



CoolBLAST in-the-bore coolant ports blast coolant on the tool path, even at high RPMs.

## CAT40 CoolBLAST Holders with CoolFLEX

| Part No.     | Description               | d1    | l1    | d2    |
|--------------|---------------------------|-------|-------|-------|
| 22909-6FB    | CAT40 x 3/16" I.D. - 6"   | 3/16" | 6"    | .69"  |
| 22911-2.5FB  | CAT40 x 1/4" I.D. - 2.5"  | 1/4"  | 2.5"  | .78"  |
| 22911-4FB    | CAT40 x 1/4" I.D. - 4"    | 1/4"  | 4"    | .78"  |
| 22911-6FB    | CAT40 x 1/4" I.D. - 6"    | 1/4"  | 6"    | .78"  |
| 22913-6FB    | CAT40 x 5/16" I.D. - 6"   | 5/16" | 6"    | .88"  |
| 22915-2.5FB  | CAT40 x 3/8" I.D. - 2.5"  | 3/8"  | 2.5"  | 1.0"  |
| 22915-5FB    | CAT40 x 3/8" I.D. - 5"    | 3/8"  | 5"    | 1.0"  |
| 22917-2.5FB  | CAT40 x 1/2" I.D. - 2.5"  | 1/2"  | 2.5"  | 1.25" |
| 22917-4FB    | CAT40 x 1/2" I.D. - 4"    | 1/2"  | 4"    | 1.25" |
| 22919-1.75FB | CAT40 x 5/8" I.D. - 1.75" | 5/8"  | 1.75" | 1.5"  |
| 22920-6FB    | CAT40 x 5/8" I.D. - 6"    | 5/8"  | 6"    | 1.5"  |
| 22921-3FB    | CAT40 x 3/4" I.D. - 3"    | 3/4"  | 3"    | 1.75" |
| 22925FB      | CAT40 x 1.0" I.D. - 4"    | 1.0"  | 4"    | 2"    |



## Replacement CoolFLEX Screws

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

# CAT40 DualDRIVE Precision End Mill Holders



Techniks Certified for bore and taper tolerances

## Features

- Use with existing dual contact spindles
- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life



Retention Knobs  
pg. 200



Lock Screws  
pg. 89



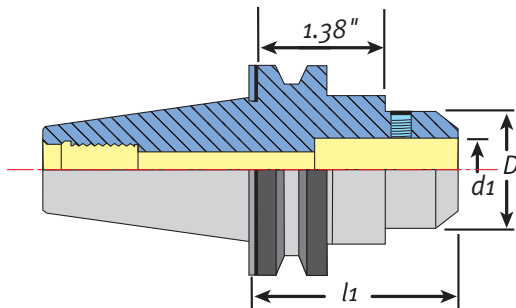
Wrenches  
pg. 204



Tightening Stands  
pg. 206

## Benefits

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



## 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 CAT40 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)

## CAT40 DualDRIVE End Mill Holders

| Part No.   | Description d1 – l1                              | l1    | d1     | D     |
|------------|--|-------|--------|-------|
| 72917      | CAT40 x SLN 1/2" - 3" DualDRIVE toolholder       | 3"    | 1/2"   | 1.25" |
| 72917-4.63 | CAT40 x SLN 1/2" - 4.63" DualDRIVE toolholder    | 4.63" | 1/2"   | 1.25" |
| 72919      | CAT40 x SLN 5/8" - 3" DualDRIVE toolholder       | 3"    | 5/8"   | 1.5"  |
| 72920      | CAT40 x SLN 5/8" - 3.75" DualDRIVE toolholder    | 3.75" | 5/8"   | 1.5"  |
| 72920-5.75 | CAT40 x SLN 5/8" - 5.75" DualDRIVE toolholder    | 5.75" | 5/8"   | 1.5"  |
| 72921      | CAT40 x SLN 3/4" - 3.5" DualDRIVE toolholder     | 3.5"  | 3/4"   | 1.75" |
| 72921-5    | CAT40 x SLN 3/4" - 5" DualDRIVE toolholder       | 5"    | 3/4"   | 1.75" |
| 72925      | CAT40 x SLN 1.0" - 4" DualDRIVE toolholder       | 4"    | 1.0"   | 2"    |
| 72925-6    | CAT40 x SLN 1.0" - 6" DualDRIVE toolholder       | 6"    | 1.0"   | 2"    |
| 72927      | CAT40 x SLN 1-1/4" - 4.6" DualDRIVE toolholder   | 4.6"  | 1-1/4" | 2.5"  |
| 72927-4    | CAT40 x SLN 1-1/4" - 4" DualDRIVE toolholder     | 4"    | 1-1/4" | 2.5"  |
| 72927-6    | CAT40 x SLN 1-1/4" - 6" DualDRIVE toolholder     | 6"    | 1-1/4" | 2.5"  |
| 72929      | CAT40 x SLN 1-1/2" - 4 1/2" DualDRIVE toolholder | 4.5"  | 1-1/2" | 2.5"  |



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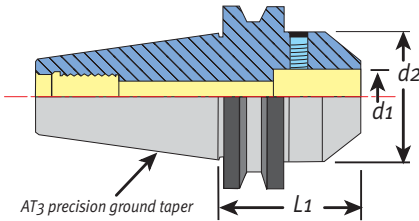
# CAT50 Precision End Mill Holders



Techniks Certified for bore and taper tolerances

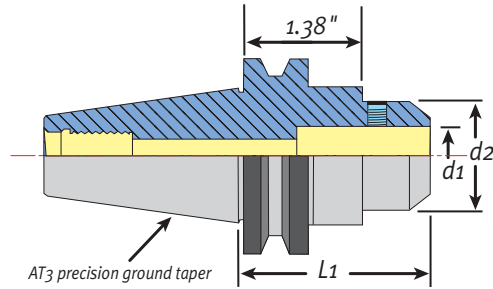


Stubby



## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM
- Taper ground to AT<sub>3</sub> for maximum spindle contact



## CAT50 End Mill Holders Inch Size

| Part No. | Description                | d1     | L1   | d2    |
|----------|----------------------------|--------|------|-------|
| 22931    | CAT50 x 1/4" I.D. - 4"     | 1/4"   | 4"   | .78"  |
| 22933    | CAT50 x 5/16" I.D. - 4"    | 5/16"  | 4"   | .88"  |
| 22935    | CAT50 x 3/8" I.D. - 4"     | 3/8"   | 4"   | 1.0"  |
| 22937    | CAT50 x 1/2" I.D. - 4"     | 1/2"   | 4"   | 1.25" |
| 22939-3  | CAT50 x 5/8" I.D. - 3"     | 5/8"   | 3"   | 1.5"  |
| 22939    | CAT50 x 5/8" I.D. - 4"     | 5/8"   | 4"   | 1.5"  |
| 22941-3  | CAT50 x 3/4" I.D. - 3"     | 3/4"   | 3"   | 1.75" |
| 22941    | CAT50 x 3/4" I.D. - 4"     | 3/4"   | 4"   | 1.75" |
| 22943    | CAT50 x 7/8" I.D. - 4"     | 7/8"   | 4"   | 1.88" |
| 22945    | CAT50 x 1.0" I.D. - 4"     | 1.0"   | 4"   | 2"    |
| 22947    | CAT50 x 1-1/4" I.D. - 4.6" | 1-1/4" | 4.6" | 2.5"  |
| 22949    | CAT50 x 1-1/2" I.D. - 4.6" | 1-1/2" | 4.6" | 2.5"  |

## CAT50 Stubby Length End Mill Holders

| Part No.        | Description                 | d1     | L1    | d2    |
|-----------------|-----------------------------|--------|-------|-------|
| 22931-2 1/2     | CAT50 x 1/4" I.D. - 2.5"    | 1/4"   | 2.5"  | .78"  |
| 22935-2 1/2     | CAT50 x 3/8" I.D. - 2.5"    | 3/8"   | 2.5"  | 1.0"  |
| 22937-2 5/8     | CAT50 x 1/2" I.D. - 2.67"   | 1/2"   | 2.67" | 1.5"  |
| 22939-9/16-1.44 | CAT50 x 9/16" I.D. - 1.44"  | 9/16"  | 1.44" | 1.5"  |
| 22939-9/16-3    | CAT50 x 9/16" I.D. - 3"     | 9/16"  | 3"    | 1.5"  |
| 22939-1.44      | CAT50 x 5/8" I.D. - 1.44"   | 5/8"   | 1.44" | 1.5"  |
| 22941-1.44      | CAT50 x 3/4" I.D. - 1.44"   | 3/4"   | 1.44" | 1.75" |
| 22945-2.62      | CAT50 x 1.0" I.D. - 2.62"   | 1"     | 2.62" | 2"    |
| 22947-2.62      | CAT50 x 1-1/4" I.D. - 2.62" | 1-1/4" | 2.62" | 2.5"  |
| 22949-2         | CAT50 x 1-1/2" I.D. - 2"    | 1-1/2" | 2"    | 2.75" |

## CAT50 End Mill Holders Metric Size

| Part No. | Description              | d1   | L1   | d2   |
|----------|--------------------------|------|------|------|
| 22981    | CAT50 x 6mm I.D. - 4"    | 6mm  | 4"   | 25mm |
| 22983    | CAT50 x 8mm I.D. - 4"    | 8mm  | 4"   | 28mm |
| 22985    | CAT50 x 10mm I.D. - 4"   | 10mm | 4"   | 35mm |
| 22987    | CAT50 x 12mm I.D. - 4"   | 12mm | 4"   | 42mm |
| 22989    | CAT50 x 16mm I.D. - 4"   | 16mm | 4"   | 48mm |
| 22990    | CAT50 x 20mm I.D. - 3"   | 20mm | 3"   | 52mm |
| 22993    | CAT50 x 25mm I.D. - 4"   | 25mm | 4"   | 65mm |
| 22996    | CAT50 x 32mm I.D. - 4.6" | 32mm | 4.6" | 72mm |



# CAT50 Precision End Mill Holders



Extended length



Techniks Certified for bore and taper tolerances



Retention Knobs  
pg. 200



Lock Screws  
pg. 89



Wrenches  
pg. 204



Tightening Stands  
pg. 206

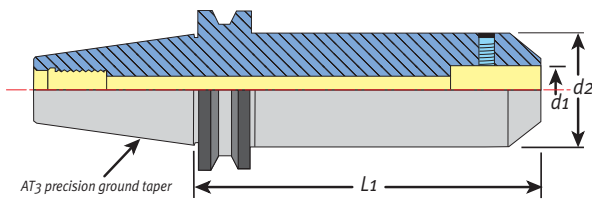
## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to extend spindle life
- Taper ground to AT3 for maximum spindle contact



Rigid Reach

Our Rigid Reach End Mill holders are great for machining in tight areas at extended length where tolerance is important. The tapered design improves rigidity and overall cutting performance.

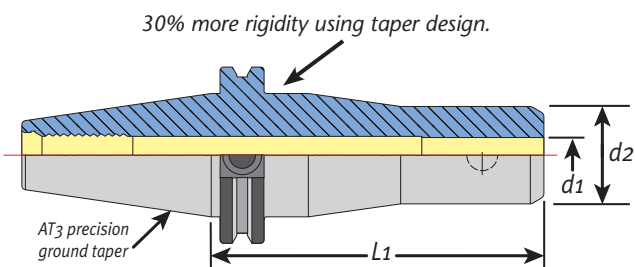
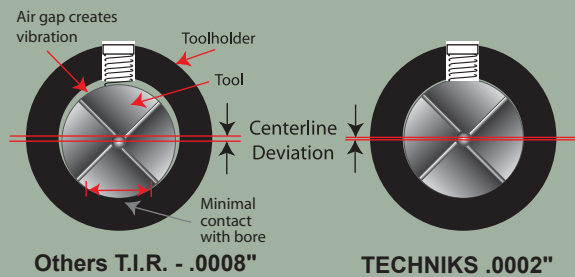


## CAT50 Extended Length End Mill Holders

| Part No.   | Description               | d1     | L1    | d2    |
|------------|---------------------------|--------|-------|-------|
| 22935-6    | CAT50 x 3/8" I.D. - 6"    | 3/8"   | 6"    | 1.0"  |
| 22936-8    | CAT50 x 3/8" I.D. - 8"    | 3/8"   | 8"    | 1.0"  |
| 22937-6    | CAT50 x 1/2" I.D. - 6"    | 1/2"   | 6"    | 1.25" |
| 22937-8    | CAT50 x 1/2" I.D. - 8"    | 1/2"   | 8"    | 1.25" |
| 22939-6    | CAT50 x 5/8" I.D. - 6"    | 5/8"   | 6"    | 1.5"  |
| 22939-8    | CAT50 x 5/8" I.D. - 8"    | 5/8"   | 8"    | 1.5"  |
| 22941-5.75 | CAT50 x 3/4" I.D. - 5.75" | 3/4"   | 5.75" | 1.75" |
| 22941-6    | CAT50 x 3/4" I.D. - 6"    | 3/4"   | 6"    | 1.75" |
| 22941-8    | CAT50 x 3/4" I.D. - 8"    | 3/4"   | 8"    | 1.75" |
| 22943-6    | CAT50 x 7/8" I.D. - 6"    | 7/8"   | 6"    | 1.88" |
| 22943-8    | CAT50 x 7/8" I.D. - 8"    | 7/8"   | 8"    | 1.88" |
| 22945-6    | CAT50 x 1.0" I.D. - 6"    | 1.0"   | 6"    | 2"    |
| 22946-8    | CAT50 x 1.0" I.D. - 8"    | 1.0"   | 8"    | 2"    |
| 22947-6    | CAT50 x 1-1/4" I.D. - 6"  | 1-1/4" | 6"    | 2.5"  |
| 22947-8    | CAT50 x 1-1/4" I.D. - 8"  | 1-1/4" | 8"    | 2.5"  |
| 22951      | CAT50 x 2" I.D. - 6"      | 2"     | 6"    | 3.75" |

## Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" T.I.R.



## CAT50 Rigid Reach End Mill Holders

| Part No.      | Description               | d1   | L1    | d2    |
|---------------|---------------------------|------|-------|-------|
| 22931-6.5-RR  | CAT50 x 1/4" I.D. - 6.5"  | 1/4" | 6.5"  | .78"  |
| 22935-6.5-RR  | CAT50 x 3/8" I.D. - 6.5"  | 3/8" | 6.5"  | 1.0"  |
| 22937-6.5-RR  | CAT50 x 1/2" I.D. - 6.5"  | 1/2" | 6.5"  | 1.38" |
| 22939-7.25-RR | CAT50 x 5/8" I.D. - 7.25" | 5/8" | 7.25" | 1.5"  |
| 22941-7.25-RR | CAT50 x 3/4" I.D. - 7.25" | 3/4" | 7.25" | 1.75" |
| 22945-8-RR    | CAT50 x 1.0" I.D. - 8"    | 1.0" | 8"    | 2"    |



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# CAT50 Precision CoolBLAST End Mill Holders



Techniks Certified for bore and taper tolerances

## CoolBLAST Features

- Blast coolant directly on tool path
- No need for expensive coolant-thru tools
- High precision bore (H5) is best in industry



Retention  
Knobs  
pg. 200



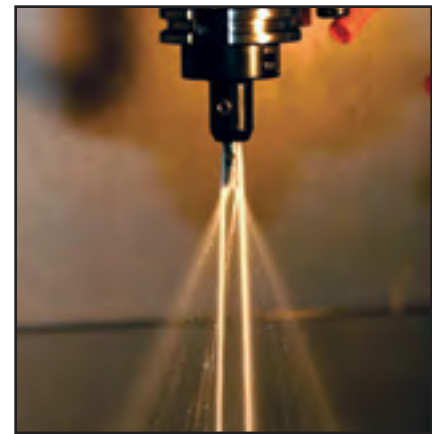
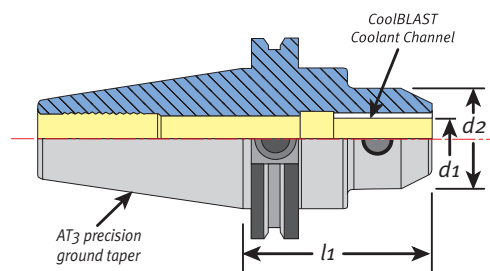
Lock Screws  
pg. 89



Wrenches  
pg. 204



Tightening  
Stands  
pg. 206



CoolBLAST in-the-bore coolant ports blast coolant on the tool path, even at high RPMs.

## CAT50 CoolBLAST End Mill Holders

| Part No.     | Description                | d1   | l1     | d2    | Part No.    | Description                 | d1     | l1    | d2    |
|--------------|----------------------------|------|--------|-------|-------------|-----------------------------|--------|-------|-------|
| 22931-2.5B   | CAT50 x 1/4" I.D. - 2.5"   | 1/4" | 2.5"   | .78"  | 22941-3B    | CAT50 x 3/4" I.D. - 3"      | 3/4"   | 3"    | 1.75" |
| 22931B       | CAT50 x 1/4" I.D. - 4"     | 1/4" | 4"     | .78"  | 22941B      | CAT50 x 3/4" I.D. - 4"      | 3/4"   | 4"    | 1.75" |
| 22931-6B     | CAT50 x 1/4" I.D. - 6"     | 1/4" | 6"     | .78"  | 22941-6B    | CAT50 x 3/4" I.D. - 6"      | 3/4"   | 6"    | 1.75" |
| 22935-2.5B   | CAT50 x 3/8" I.D. - 2.5"   | 3/8" | 2.5"   | 1.0"  | 22941-8B    | CAT50 x 3/4" I.D. - 8"      | 3/4"   | 8"    | 1.75" |
| 22935B       | CAT50 x 3/8" I.D. - 4"     | 3/8" | 4"     | 1.0"  | 22943-6B    | CAT50 x 7/8" I.D. - 6"      | 7/8"   | 6"    | 1.88" |
| 22935-6B     | CAT50 x 3/8" I.D. - 6"     | 3/8" | 6"     | 1.0"  | 22943-8B    | CAT50 x 7/8" I.D. - 8"      | 7/8"   | 8"    | 2"    |
| 22935-8B     | CAT50 x 3/8" I.D. - 8"     | 3/8" | 8"     | 1.0"  | 22945B      | CAT50 x 1.0" I.D. - 4"      | 1.0"   | 4"    | 2"    |
| 22937-2.625B | CAT50 x 1/2" I.D. - 2-5/8" | 1/2" | 2-5/8" | 1.25" | 22945-6B    | CAT50 x 1.0" I.D. - 6"      | 1.0"   | 6"    | 2"    |
| 22937B       | CAT50 x 1/2" I.D. - 4"     | 1/2" | 4"     | 1.25" | 22946-8B    | CAT50 x 1.0" I.D. - 8"      | 1.0"   | 8"    | 2"    |
| 22937-6B     | CAT50 x 1/2" I.D. - 6"     | 1/2" | 6"     | 1.25" | 22947-2.62B | CAT50 x 1-1/4" I.D. - 2.62" | 1-1/4" | 2.62" | 2.5"  |
| 22937-8B     | CAT50 x 1/2" I.D. - 8"     | 1/2" | 8"     | 1.25" | 22947B      | CAT50 x 1-1/4" I.D. - 4.6"  | 1-1/4" | 4.6"  | 2.5"  |
| 22939-3B     | CAT50 x 5/8" I.D. - 3"     | 5/8" | 3"     | 1.5"  | 22947-6B    | CAT50 x 1-1/4" I.D. - 6"    | 1-1/4" | 6"    | 2.5"  |
| 22939B       | CAT50 x 5/8" I.D. - 4"     | 5/8" | 4"     | 1.5"  | 22947-8B    | CAT50 x 1-1/4" I.D. - 8"    | 1-1/4" | 8"    | 2.5"  |
| 22939-6B     | CAT50 x 5/8" I.D. - 6"     | 5/8" | 6"     | 1.5"  | 22949B      | CAT50 x 1-1/2" I.D. - 4.6"  | 1-1/2" | 4.6"  | 2.5"  |
| 22941-1.44B  | CAT50 x 3/4" I.D. - 1.44"  | 3/4" | 1.44"  | 1.75" | 22951B      | CAT50 x 2" I.D. - 6"        | 2"     | 6"    | 3.75" |

# CAT50 Precision CoolFLEX End Mill Holders



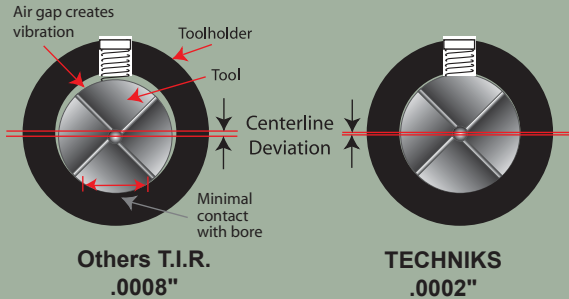
Techniks Certified for bore and taper tolerances

## CoolFLEX Features

- Coolant-thru spindle or thru flange (DIN B)
- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM

### Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" of T.I.R.



## CAT50 CoolFLEX End Mill Holders

| Part No.    | Description                | d1     | l1    | d2    |
|-------------|----------------------------|--------|-------|-------|
| 22931F      | CAT50 x 1/4" I.D. - 4"     | 1/4"   | 4"    | .78"  |
| 22935F      | CAT50 x 3/8" I.D. - 4"     | 1/4"   | 4"    | 1.00" |
| 22937F      | CAT50 x 1/2" I.D. - 4"     | 1/2"   | 4"    | 1.25" |
| 22937-6F    | CAT50 x 1/2" I.D. - 6"     | 1/2"   | 6"    | 1.25" |
| 22937-8F    | CAT50 x 1/2" I.D. - 8"     | 1/2"   | 8"    | 1.25" |
| 22939F      | CAT50 x 5/8" I.D. - 4"     | 5/8"   | 4"    | 1.5"  |
| 22941-3F    | CAT50 x 3/4" I.D. - 3"     | 3/4"   | 3"    | 1.75" |
| 22941F      | CAT50 x 3/4" I.D. - 4"     | 3/4"   | 4"    | 1.75" |
| 22945-2.62F | CAT50 x 1" I.D. - 2.62"    | 1.0"   | 2.62" | 2"    |
| 22945F      | CAT50 x 1.0" I.D. - 4"     | 1.0"   | 4"    | 2"    |
| 22947F      | CAT50 x 1-1/4" I.D. - 4.6" | 1-1/4" | 4.6"  | 2.5"  |
| 22949F      | CAT50 x 1-1/2" I.D. - 4.6" | 1-1/2" | 4.6"  | 2.5"  |

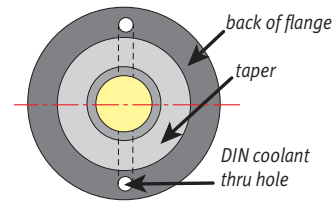
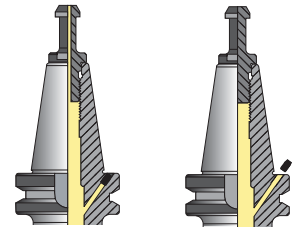
## Replacement CoolFLEX Screws

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

thru spindle      thru flange

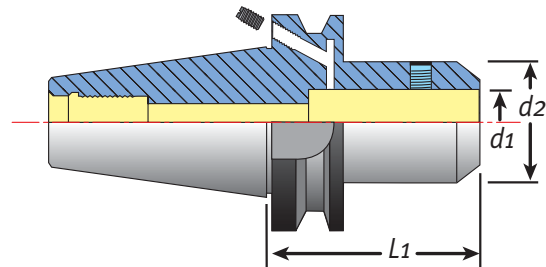
CoolFLEX holders are factory set for coolant-thru spindle.

Remove 2 setscrews for DIN B coolant-thru flange



view from back of holder

CoolFLEX DIN B Coolant





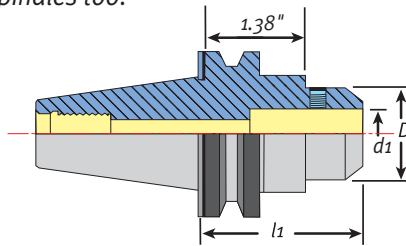
# CAT50 Precision DualDRIVE End Mill Holders



Techniks Certified for bore and taper tolerances

## Benefits

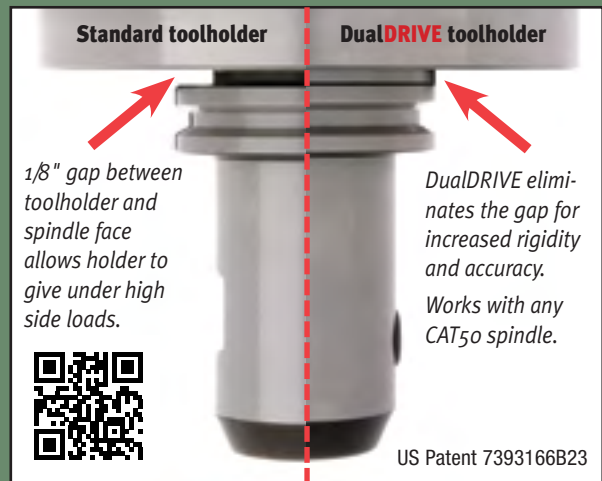
- Better rigidity and reduced vibration (chatter)
- Improved performance at high metal removal rates and when machining at extended lengths
- Provides the benefits of dual-contact machining on standard spindles too!



## Features

- Use with existing dual contact spindles
- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life

## 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)

## CAT50 DualDRIVE End Mill Holders

| Part No.   | Description d1 – L1                             | l1    | d1     | D      |
|------------|---|-------|--------|--------|
| 72937      | CAT50 x SLN 1/2" - 4" DualDRIVE toolholder      | 4"    | 1/2"   | 1.25"  |
| 72937-6    | CAT50 x SLN 1/2" - 6" DualDRIVE toolholder      | 6"    | 1/2"   | 1.25"  |
| 72939      | CAT50 x SLN 5/8" - 4" DualDRIVE toolholder      | 4"    | 5/8"   | 1.5"   |
| 72939-6    | CAT50 x SLN 5/8" - 6" DualDrive toolholder      | 6"    | 5/8"   | 1.5"   |
| 72941-1.44 | CAT50 x SLN 3/4" - 1.44" DualDRIVE toolholder   | 1.44" | 3/4"   | 1.75"  |
| 72941-3    | CAT50 x SLN 3/4" - 3" DualDRIVE toolholder      | 3"    | 3/4"   | 1.75"  |
| 72941      | CAT50 x SLN 3/4" - 4" DualDRIVE toolholder      | 4"    | 3/4"   | 1.75"  |
| 72941-6    | CAT50 x SLN 3/4" - 6" DualDRIVE toolholder      | 6"    | 3/4"   | 1.75"  |
| 72945      | CAT50 x SLN 1.0" - 4" DualDRIVE toolholder      | 4"    | 1.0"   | 2"     |
| 72945-2.62 | CAT50 x SLN 1.0" - 2.62" DualDRIVE toolholder   | 2.62" | 1.0"   | 2.484" |
| 72945-6    | CAT50 x SLN 1.0" - 6" DualDRIVE toolholder      | 6"    | 1.0"   | 2.484" |
| 72947-2.62 | CAT50 x SLN 1-1/4" - 2.62" DualDRIVE toolholder | 2.62" | 1-1/4" | 2.75"  |
| 72947      | CAT50 x SLN 1-1/4" - 4.6" DualDRIVE toolholder  | 4.6"  | 1-1/4" | 2.5"   |
| 72947-6    | CAT50 x SLN 1-1/4" - 6" DualDRIVE toolholder    | 6"    | 1-1/4" | 2.75"  |
| 72947-8    | CAT50 x SLN 1-1/4" - 8" DualDrive toolholder    | 8"    | 1-1/4" | 2.5"   |
| 72949      | CAT50 x SLN 1-1/2" - 4.6" DualDRIVE toolholder  | 4.6"  | 1-1/2" | 2.5"   |
| 72949-8    | CAT50 x SLN 1-1/2" - 8" DualDrive toolholder    | 8"    | 1-1/2" | 2.5"   |

# BT30 DualDRIVE and Precision End Mill Holders

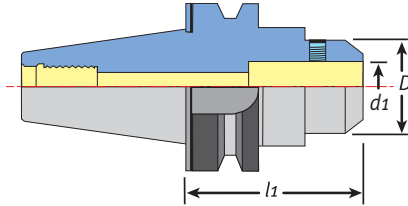


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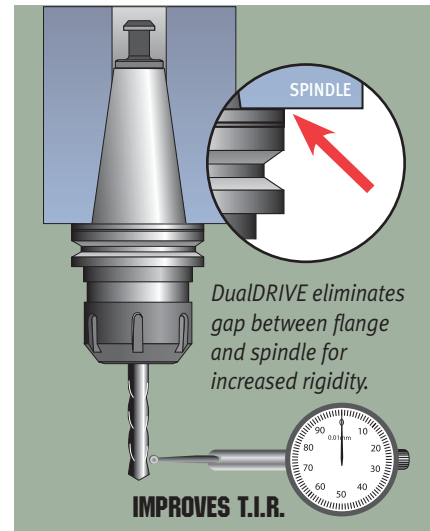
- Better rigidity and reduced vibration
- Improved performance at high metal removal rates or extended lengths
- Dual-contact on standard spindles too!

## Features

- Use with existing dual contact spindles
- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life



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 DualDRIVE End Mill Holders

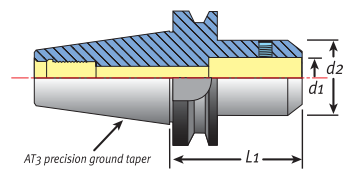
| Part No.         | Description d1 – l1               | l1   | d1    | D     |
|------------------|-----------------------------------|------|-------|-------|
| 67130-0.125-2.5  | BT30 x SLN 1/8" - 2.5" DualDRIVE  | 2.5" | 1/8"  | .68"  |
| 67130-0.1875-2.5 | BT30 x SLN 3/16" - 2.5" DualDRIVE | 2.5" | 3/16" | .68"  |
| 67130-0.25-2.5   | BT30 x SLN 1/4" - 2.5" DualDRIVE  | 2.5" | 1/4"  | .78"  |
| 67130-0.375-2.5  | BT30 x SLN 3/8" - 2.5" DualDRIVE  | 2.5" | 3/8"  | 1.0"  |
| 67130-0.5-2.5    | BT30 x SLN 1/2" - 2.5" DualDRIVE  | 2.5" | 1/2"  | 1.25" |
| 67130-0.625-2.5  | BT30 x SLN 5/8" - 2.5" DualDRIVE  | 2.5" | 5/8"  | 1.5"  |
| 67130-0.75-3     | BT30 x SLN 3/4" - 3" DualDRIVE    | 3"   | 3/4"  | 1.75" |



Techniks Certified for bore and taper tolerances

## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM
- Taper ground to AT3 for maximum spindle contact



## BT30 End Mill Holders

| Part No.   | Description                               | d1    | L1    | d2    |
|------------|---|-------|-------|-------|
| 17130-1/8  | BT30 x 1/8" I.D. - 2.36" End Mill holder  | 1/8"  | 2.36" | .68"  |
| 17130-3/16 | BT30 x 3/16" I.D. - 2.36" End Mill holder | 3/16" | 2.36" | .68"  |
| 17130-1/4  | BT30 x 1/4" I.D. - 2.36" End Mill holder  | 1/4"  | 2.36" | .78"  |
| 17130-5/16 | BT30 x 5/16" I.D. - 2.36" End Mill holder | 5/16" | 2.36" | .88"  |
| 17130-3/8  | BT30 x 3/8" I.D. - 2.36" End Mill holder  | 3/8"  | 2.36" | 1.0"  |
| 17130-7/16 | BT30 x 7/16" I.D. - 2.36" End Mill holder | 7/16" | 2.36" | 1.12" |
| 17130-1/2  | BT30 x 1/2" I.D. - 2.36" End Mill holder  | 1/2"  | 2.36" | 1.25" |
| 17130-5/8  | BT30 x 5/8" I.D. - 2.36" End Mill holder  | 5/8"  | 2.36" | 1.5"  |
| 17130-3/4  | BT30 x 3/4" I.D. - 2.36" End Mill holder  | 3/4"  | 2.36" | 1.75" |

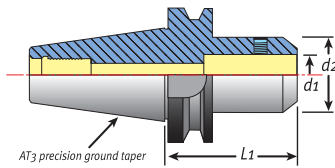


All Techniks products are backed by our 100% satisfaction guarantee!

# BT40 Precision End Mill Holders



Techniks Certified for bore and taper tolerances

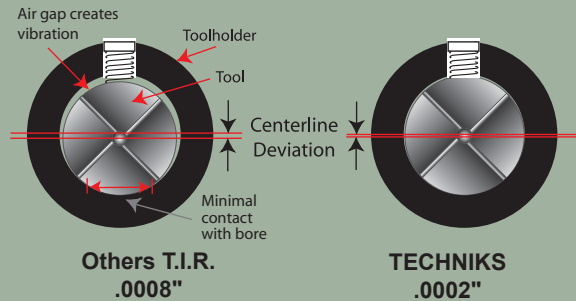


## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life
- Taper ground to AT<sub>3</sub> for maximum spindle contact

## Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" of T.I.R.



## BT40 End Mill Holders Inch Size

| Part No.    | Description                | d1     | L1    | d2    |
|-------------|----------------------------|--------|-------|-------|
| 17140-1/8   | BT40 x 1/8" I.D. - 2.5"    | 1/8"   | 2.5"  | .68"  |
| 17140-3/16  | BT40 x 3/16" I.D. - 2.5"   | 3/16"  | 2.5"  | .68"  |
| 17140-1/4   | BT40 x 1/4" I.D. - 2.5"    | 1/4"   | 2.5"  | .78"  |
| 17140-5/16  | BT40 x 5/16" I.D. - 2.5"   | 5/16"  | 2.5"  | .88"  |
| 17140-3/8   | BT40 x 3/8" I.D. - 2.5"    | 3/8"   | 2.5"  | 1.0"  |
| 17140-7/16  | BT40 x 7/16" I.D. - 2.5"   | 7/16"  | 2.5"  | 1.10" |
| 17140-1/2   | BT40 x 1/2" I.D. - 2.5"    | 1/2"   | 2.5"  | 1.25" |
| 17140-5/8   | BT40 x 5/8" I.D. - 2.5"    | 5/8"   | 2.5"  | 1.50" |
| 17140-3/4   | BT40 x 3/4" I.D. - 2.5"    | 3/4"   | 2.5"  | 1.75" |
| 17140-1     | BT40 x 1.0" I.D. - 3.56"   | 1.0"   | 3.56" | 2"    |
| 17140-1-1/4 | BT40 x 1-1/4" I.D. - 3.56" | 1-1/4" | 3.56" | 2.5"  |
| 17140-1-1/2 | BT40 x 1-1/2" I.D. - 3.56" | 1-1/2" | 3.56" | 2.5"  |

## BT40 End Mill Holders Metric Size

| Part No. | Description              | d1   | L1    | d2   |
|----------|--------------------------|------|-------|------|
| 17131    | BT40 x 6mm I.D. - 50mm   | 6mm  | 50mm  | 25mm |
| 17132    | BT40 x 8mm I.D. - 50mm   | 8mm  | 50mm  | 28mm |
| 17133    | BT40 x 10mm I.D. - 63mm  | 10mm | 63mm  | 35mm |
| 17134    | BT40 x 12mm I.D. - 63mm  | 12mm | 63mm  | 42mm |
| 17135    | BT40 x 16mm I.D. - 63mm  | 16mm | 63mm  | 48mm |
| 17135-18 | BT40 x 18mm I.D. - 63mm  | 18mm | 63mm  | 50mm |
| 17136    | BT40 x 20mm I.D. - 63mm  | 20mm | 63mm  | 52mm |
| 17137    | BT40 x 25mm I.D. - 100mm | 25mm | 100mm | 65mm |
| 17138    | BT40 x 32mm I.D. - 100mm | 32mm | 100mm | 72mm |



# BT40 Precision End Mill Holders



Techniks Certified for bore and taper tolerances



Retention Knobs  
pg. 200



Lock Screws  
pg. 89



Wrenches  
pg. 204



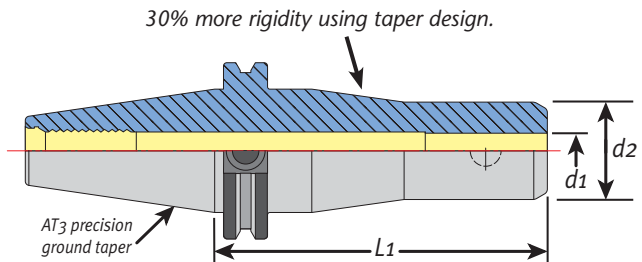
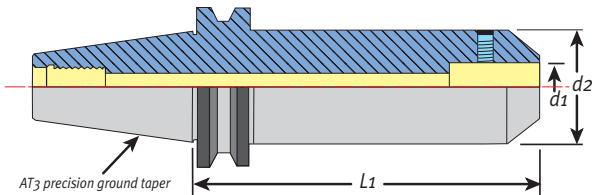
Tightening Stands  
pg. 206

## Techniks Certified Tooling Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to extend spindle life
- Taper ground to AT3 for maximum spindle contact



Our Rigid Reach End Mill holders are great for machining in tight areas at extended length where tolerance is important. The tapered design improves rigidity and overall cutting performance.



## BT40 Extended Length End Mill Holders

| Part No.     | Description            | d1    | L1 | d2    |
|--------------|------------------------|-------|----|-------|
| 17140-1/8-4  | BT40 x 1/8" I.D. - 4"  | 1/8"  | 4" | .68"  |
| 17140-3/16-4 | BT40 x 3/16" I.D. - 4" | 3/16" | 4" | .68"  |
| 17140-1/4-4  | BT40 x 1/4" I.D. - 4"  | 1/4"  | 4" | .78"  |
| 17140-3/8-4  | BT40 x 3/8" I.D. - 4"  | 3/8"  | 4" | 1.0"  |
| 17140-1/2-4  | BT40 x 1/2" I.D. - 4"  | 1/2"  | 4" | 1.25" |
| 17140-5/8-4  | BT40 x 5/8" I.D. - 4"  | 5/8"  | 4" | 1.5"  |
| 17140-3/4-4  | BT40 x 3/4" I.D. - 4"  | 3/4"  | 4" | 1.75" |
| 17140-7/8-5  | BT40 x 7/8" I.D. - 5"  | 7/8"  | 5" | 1.75" |
| 17140-1-5    | BT40 x 1.0" I.D. - 5"  | 1.0"  | 5" | 2"    |

## BT40 Rigid Reach End Mill Holders

| Part No.           | Description               | d1    | L1    | d2    |
|--------------------|---------------------------|-------|-------|-------|
| 17140-1/8-5.0-RR   | BT40 x 1/8" I.D. - 5"     | 1/8"  | 5"    | .78"  |
| 17140-3/16-4.72-RR | BT40 x 3/16" I.D. - 4.72" | 3/16" | 4.72" | .78"  |
| 17140-1/4-4.72-RR  | BT40 x 1/4" I.D. - 4.72"  | 1/4"  | 4.72" | .78"  |
| 17140-3/8-4.72-RR  | BT40 x 3/8" I.D. - 4.72"  | 3/8"  | 4.72" | 1.0"  |
| 17140-1/2-4.72-RR  | BT40 x 1/2" I.D. - 4.72"  | 1/2"  | 4.72" | 1.38" |
| 17140-3/4-6-RR     | BT40 x 3/4" I.D. - 6"     | 3/4"  | 6"    | 1.38" |

# BT40 Precision CoolFLEX End Mill Holders



Techniks Certified for bore and taper tolerances

## CoolFLEX Features

- Coolant-thru spindle or thru flange (DIN B)
- Balanced to 10,000 RPM to save spindle bearing life
- High precision bore (H5) is best in industry



Retention Knobs  
pg. 200



Lock Screws  
pg. 89



Wrenches  
pg. 204

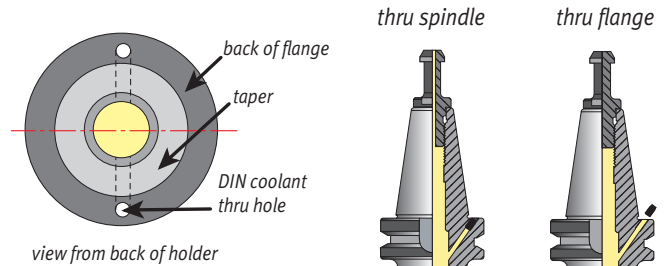
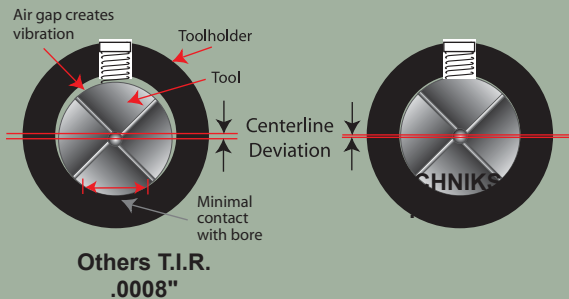


Tightening Stands  
pg. 206

Precision End Mill Holders

## Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life for every .0001" of T.I.R.



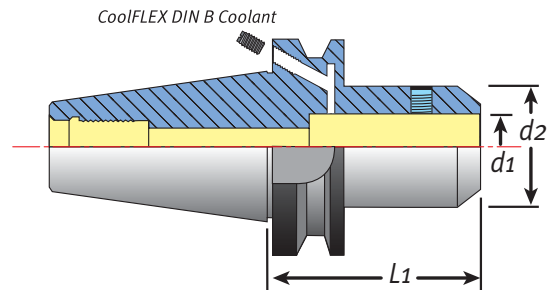
CoolFLEX holders are factory set for coolant-thru spindle.  
Remove 2 setscrews for DIN B coolant-thru flange

## Replacement CoolFLEX Screws

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

## BT40 CoolFLEX End Mill Holders

| Part No.     | Description                | d1     | L1    | d2    |
|--------------|----------------------------|--------|-------|-------|
| 17140-1/4F   | BT40 x 1/4" I.D. - 2.5"    | 1/4"   | 2.5"  | .78"  |
| 17140-3/8F   | BT40 x 3/8" I.D. - 2.5"    | 3/8"   | 2.5"  | 1.0"  |
| 17140-1/2F   | BT40 x 1/2" I.D. - 2.5"    | 1/2"   | 2.5"  | 1.25" |
| 17140-5/8F   | BT40 x 5/8" I.D. - 2.5"    | 5/8"   | 2.5"  | 1.50" |
| 17140-3/4F   | BT40 x 3/4" I.D. - 2.5"    | 3/4"   | 2.5"  | 1.75" |
| 17140-1F     | BT40 x 1.0" I.D. - 3.56"   | 1.0"   | 3.56" | 2"    |
| 17140-1-1/4F | BT40 x 1-1/4" I.D. - 3.56" | 1-1/4" | 3.56" | 2.5"  |



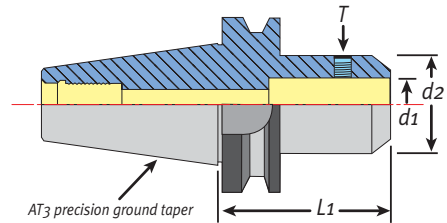
# BT50 Precision End Mill Holders – End Mill Lock Screws



Techniks Certified for bore and taper tolerances

## Features

- High precision bore (H5) is best in industry
- Balanced to 10,000 RPM to save spindle bearing life
- Taper ground to AT3 for maximum spindle contact



## BT50 End Mill Holders

| Part No.        | Description              | d1    | l1    | d2    |
|-----------------|--------------------------|-------|-------|-------|
| 17150-1/4       | BT50 x 1/4" I.D. - 3"    | 1/4"  | 3"    | .78"  |
| 17150-3/8       | BT50 x 3/8" I.D. - 2.75" | 3/8"  | 2.75" | 1.0"  |
| 17150-1/2       | BT50 x 1/2" I.D. - 3"    | 1/2"  | 3"    | 1.25" |
| 17150-5/8       | BT50 x 5/8" I.D. - 3"    | 5/8"  | 3"    | 1.5"  |
| 17150-3/4       | BT50 x 3/4" I.D. - 3"    | 3/4"  | 3"    | 1.75" |
| 17150-1-4.5     | BT50 x 1.0" I.D. - 4.5"  | 1.0"  | 4.5"  | 2"    |
| 17150-1-6       | BT50 x 1.0" I.D. - 6"    | 1.0"  | 6"    | 2"    |
| 17150-1-1/4-4.5 | BT50 x 1.25" I.D. - 4.5" | 1.25" | 4.5"  | 2.5"  |
| 18593           | BT50 x 1.5" I.D. - 4.13" | 1.5"  | 4.13" | -     |

Please specify your bore I.D. (shank size) when ordering replacement lock screws to ensure correct replacement.



## End Mill Holder Replacement Lock Screws

| Part No.   | Fits EMH I.D. | Length        | Torque    | Thread  |
|------------|---------------|---------------|-----------|---------|
| 22954-5/16 | 1/8"          | 5/16" (.3125) | 10 ft/lbs | 6-32    |
| 22955-1/4  | 3/16"         | 1/4" (.25)    | 10 ft/lbs | 8-32    |
| 22956-5/16 | 1/4"          | 5/16" (.3125) | 10 ft/lbs | 1/4-28  |
| 22957-5/16 | 5/16"         | 5/16" (.3125) | 14 ft/lbs | 5/16-24 |
| 22958-5/16 | 3/8"          | 5/16" (.3125) | 16 ft/lbs | 3/8-24  |
| 22959-7/16 | 7/16"         | 5/16" (.3125) | 16 ft/lbs | 7/16-20 |
| 22959-3/8  | 1/2"          | 3/8" (.375)   | 24 ft/lbs | 7/16-20 |

| Part No.   | Fits EMH I.D. | Length        | Torque     | Thread |
|------------|---------------|---------------|------------|--------|
| 22959-7/16 | 5/8"          | 7/16" (.4375) | 36 ft/lbs  | 1/2-20 |
| 22961-1/2  | 3/4"          | 1/2" (.5)     | 36 ft/lbs  | 5/8-18 |
| 22961-1/2  | 7/8"          | 1/2" (.5)     | 75 ft/lbs  | 5/8-18 |
| 22962-1/2  | 1.0"          | 1/2" (.5)     | 75 ft/lbs  | 5/8-18 |
| 22962-5/8  | 1-1/4"        | 5/8" (.625)   | 150 ft/lbs | 3/4-16 |
| 22962-1/2  | 1-1/2"        | 1/2" (.5)     | 150 ft/lbs | 3/4-16 |
| 22962-7/8  | 2"            | 7/8" (.875)   | 270 ft/lbs | 1-14   |



# HSK63A, 100A Precision End Mill Holders

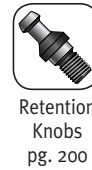
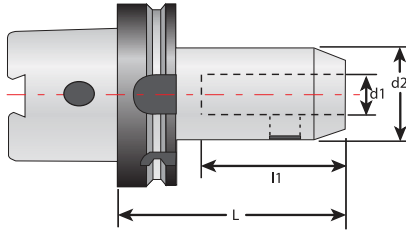


## Features

- I.D. bore tolerance is H5 (Best in Industry)
- Balanced to 10,000 RPM to save spindle bearing life
- Taper ground to AT3 for maximum spindle contact



Techniks Certified  
for bore and taper  
tolerances



## HSK63A End Mill Holders

| Part No. | Description - I.D.              | d1     | d2    | L     | l1    |
|----------|---------------------------------|--------|-------|-------|-------|
| 32954    | HSK63A x End Mill holder 1/2"   | 1/2"   | 1.38" | 3.00" | 1.97" |
| 32956    | HSK63A x End Mill holder 5/8"   | 5/8"   | 1.63" | 3.75" | 2.09" |
| 32958    | HSK63A x End Mill holder 3/4"   | 3/4"   | 1.75" | 3.75" | 2.22" |
| 32962    | HSK63A x End Mill holder 1"     | 1"     | 2.00" | 3.75" | 2.46" |
| 32964    | HSK63A x End Mill holder 1-1/4" | 1-1/4" | 2.50" | 4.25" | 2.51" |



Techniks Certified for bore and taper tolerances

## HSK100A End Mill Holders

| Part No. | Description - I.D.               | d1     | d2    | L     | l1    |
|----------|----------------------------------|--------|-------|-------|-------|
| 32984    | HSK100A x End Mill holder 1/2"   | 1/2"   | 1.38" | 3.25" | 1.97" |
| 32986    | HSK100A x End Mill holder 5/8"   | 5/8"   | 1.63" | 3.75" | 2.09" |
| 32988    | HSK100A x End Mill holder 3/4"   | 3/4"   | 1.75" | 3.75" | 2.22" |
| 32992    | HSK100A x End Mill holder 1"     | 1"     | 2.00" | 4.25" | 2.46" |
| 32994    | HSK100A x End Mill holder 1-1/4" | 1-1/4" | 2.50" | 4.25" | 2.51" |
| 32996    | HSK100A x End Mill holder 1-1/2" | 1-1/2" | 2.75" | 4.50" | 2.93" |
| 32998    | HSK100A x End Mill holder 2"     | 2"     | 3.75" | 5.50" | 3.53" |

## Techniks H5 Bore Tolerance Extends Tool Life 60%

You lose 10% of cutting tool life  
for every .0001" of T.I.R.

