



<https://www.penturners.org/threads/custom-made-penturning-tools-accessories.92501/>

[rherrell](#) [Rick's Custom Tools](#) [Vendor Forums](#) [IAP Marketplace](#) [Forums](#)

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Payments Accepted

Start a Conversation with me ([rherrell](#)) on [IAP](#) and we'll discuss your needs. I take PayPal and personal checks for payment. **All items are priced without shipping. Shipping will be calculated and added after all items have been selected.**

Shipping Rates

These are the typical rates for shipping most items.

- 1) If it's 16 oz. or less and will fit into a 6x9 poly mailer - **\$5**
- 2) Small Flat Rate Box - **\$8**
- 3) Medium Flat Rate Box will be - **\$15**

If you order a tool rest over 10" or your order is too large to fit a Small Flat Rate Box, a Medium Flat Rate Box will be - **\$15**

International Shipping Before you order I'll need your address so I can calculate your shipping rate, you'll be charged exactly what it costs me. Sometimes I get charged less than what I was quoted, in that case you'll get a refund for the difference.

Pin Chuck, Pen Mandrel or ANYTHING that fits in a Collet (Video)

If you plan on buying a [pin chuck](#), a pen mandrel or ANYTHING that fits in a collet chuck, I encourage you to watch this little video I made. Whenever you put ANY tool in a collet chuck you need to "dial it in" to make sure it's running true, this short video demonstrates how I do it.

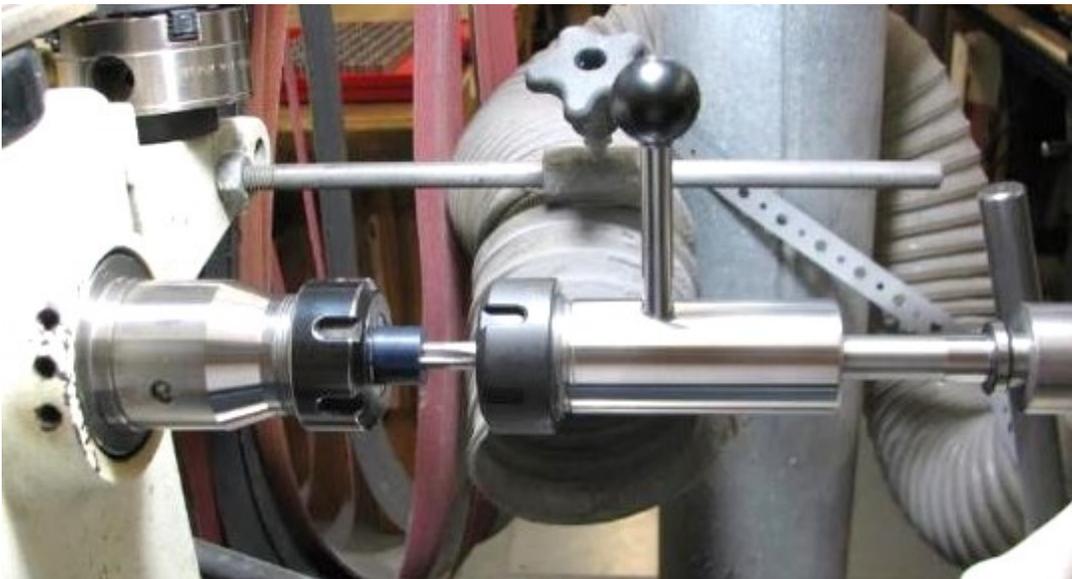
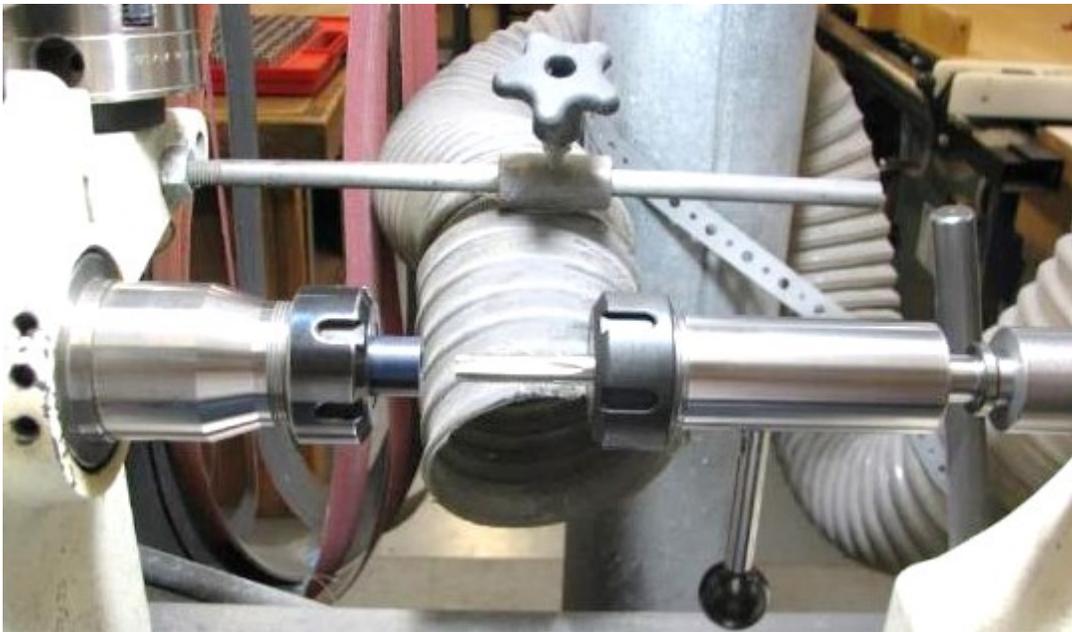


ER32 Sliding Tap and Die Holder

No more dragging the tailstock when you power tap, just grab the handle and push the tap into the blank. When you reach the desired depth, stop the lathe and finish the last few threads by hand. If you have a shallow hole, just use the handle and tap by hand, this holder has tremendous "feel" to it and makes hand tapping a real joy to do.



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These take quite a few hours to make I even make the ball on the handle from Delrin. I use a factory-made MT arbor so it's a perfect fit for your tailstock. I keep #2mt arbors in stock, but if you need a different size just let me know, same price for any size arbor.

Here are pics of the Die Holders, 1.5" on left and 1" on right. They have a 19mm stem so they will fit a 19mm or a 3/4" collet.



The Sliding ER32 holder by itself is - **\$100**.

If you want the Sliding ER32 holder plus the 1" and 1.5" die holders the price is - **\$130**, you save - **\$10**.

Individual die holders are - **\$20** each.

If you already own one of my tap holders I'll give you the same discounted price of - **\$30** for both die holders.

If you need this arbor add **\$5** to the price of the jig.

Step Drills

Pentel Pencil step drills are - **\$20**.

All other step drills are - **\$15** labor, plus the cost of the drill bit.

Below are some of my custom Step Drills...



Most of my bits come from Brazil, there are quite a few American companies with factories there. Not all are from Brazil, but I will NEVER sell you one made in China.

All of my step drills are - **\$15** plus the cost of the bit, I charge you exactly what I pay rounded up OR down to the nearest whole dollar.

We all know how fast prices are rising, the prices below are subject to change as prices rise.

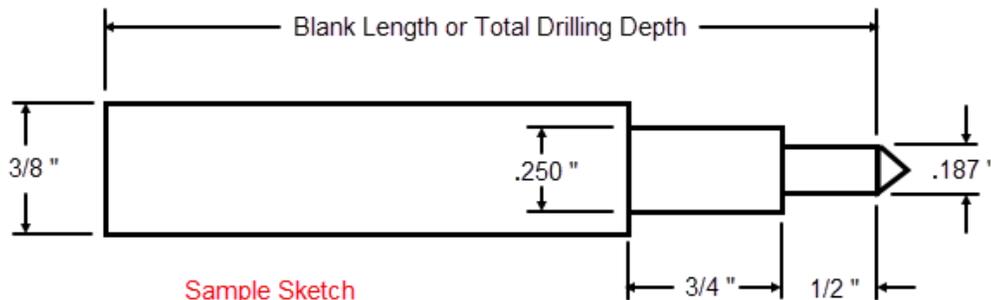
PRICES UPDATED ON 8/14/23

BE ADVISED: If you are making the **Apollo** FOUNTAIN PEN, you might need to drill a larger hole for the converter.

Apollo	Artemis	Bock	Jowo
23/64" - \$21	13/32" - \$26	8mm Bock #5 - \$21	9mm Jowo #5 - \$22
29/64" - \$22	1/2" - \$24	9mm Bock #6 - \$22	9mm Jowo #6 - \$22

If you need a custom size just draw me a simple sketch as below.

Start a Conversation with me ([rherrell](#)) on [IAP](#) and we'll discuss the specifics of your step drill bit.



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Spindle Adapters

If you need a spindle adapter for a common size, try PSI or some other supplier first, they mass produce them and can sell them a lot cheaper.

The spindle adapters I make are the oddball/hard to find sizes. If you can't find what you're looking for elsewhere, then you're in the right place.

I charge - \$35 for adapters up to 1-1/4"-8 tpi, anything larger than that will depend on steel prices, but a good guess would be in the - \$50 range. I'll quote you a price based on current steel prices.

The two spindles below are 1-3/4"-8 tpi Internal threads to 1-1/4" and 1"-8 tpi External threads...



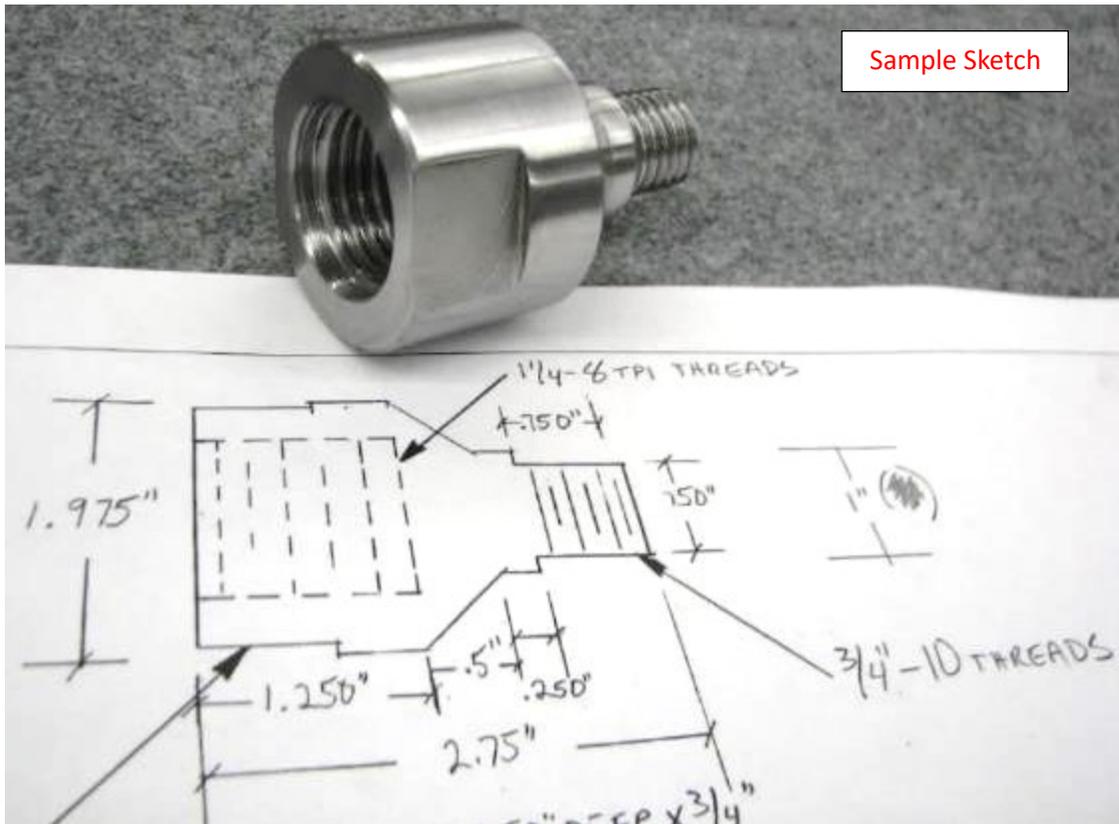
Here are Some other Assorted Sizes...

If you need a custom size just draw me a sketch as below.

Start a Conversation with me ([rherrell](#)) on [IAP](#) and we'll discuss the specifics of your spindle adaptor.



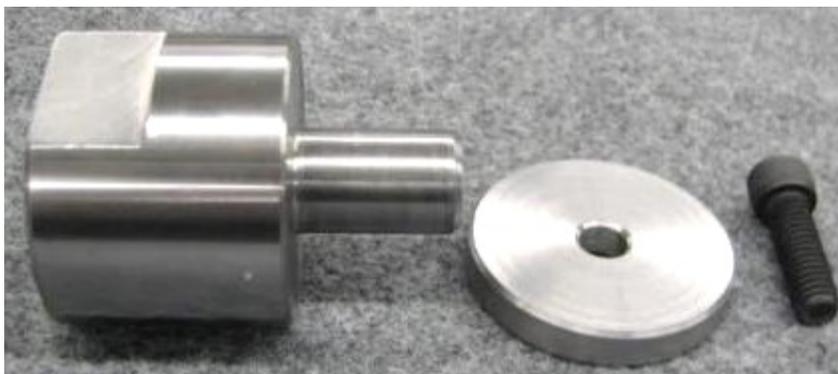
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Sample Sketch

Turn your Wood Lathe into a Tool Grinder

Take a look at the Spindle Adapter below, this particular one fits a 1"x8 tpi spindle nose and has a 5/8" mounting stud that will accept a grinding wheel.



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I will make you one to fit any size lathe or grinding wheel.
 Start a Conversation with me ([rherrell](#)) on [IAP](#) and we'll discuss the specifics of your spindle adaptor.

Tailstock Banjo Clamp

If you're having trouble with your tail stock or banjo slipping under pressure then this will most likely fix your problem. I've also been told by more than a few people that it also helped with their tailstock and headstock alignment issues. They're made from 3/8" thick steel and are stable & stronger than the round ones, here are some pics of a typical one.

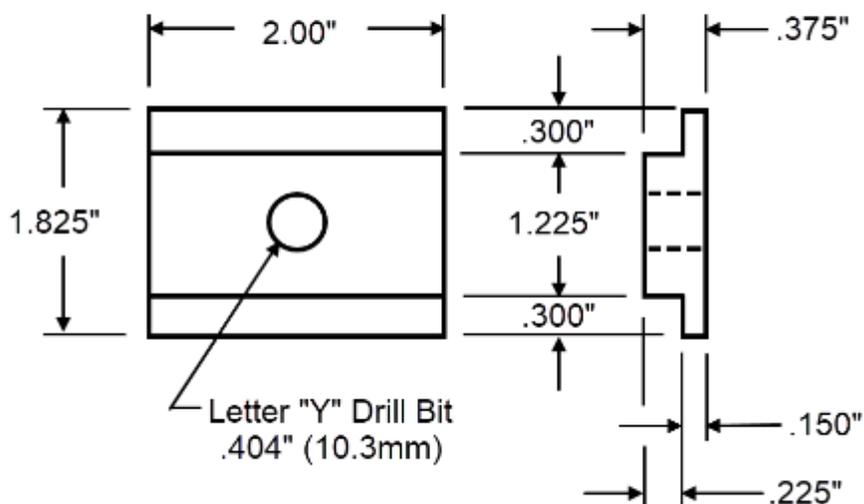
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This drawing below is for the Jet 1221 which fits quite a few of the small lathes. If this size doesn't work for your lathe give me the two measurements listed below and I'll custom, make one for you.

Here is a Sample Drawing of a Typical Tailstock Banjo Clamp.

Tailstock / Banjo Clamp
Typical for Jet 1221

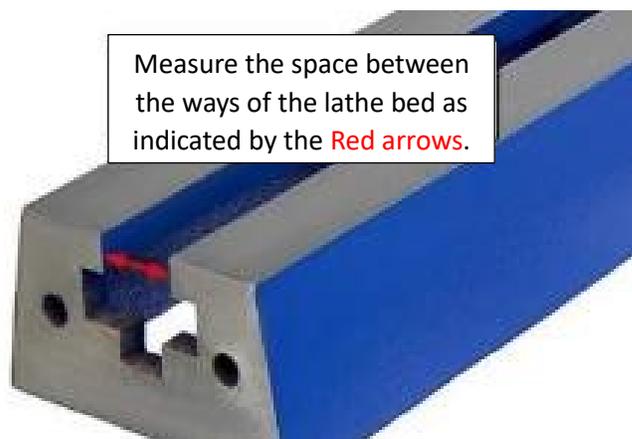


Material: A36 Hot Rolled Steel

Measurements needed are:

1. Distance between ways.
2. Diameter of bolt that goes through the center of the banjo clamp.

The price is only - \$15.



Custom Threaded Mandrels for Closed End Pens

You'll need to send me the die you use and a drilled and tapped blank for each size, both will be returned unharmed.

Pen taps are varied and expensive so I can't afford to have them all, I need the drilled and tapped blank so I can custom fit the mandrel.

Order a complete 3-piece set (Cap, Body and Section) normally \$20 each, the price will be \$50, that's a \$10 discount! All my mandrels are made to fit a 5/8" (16mm) collet, if you want a different size let me know.

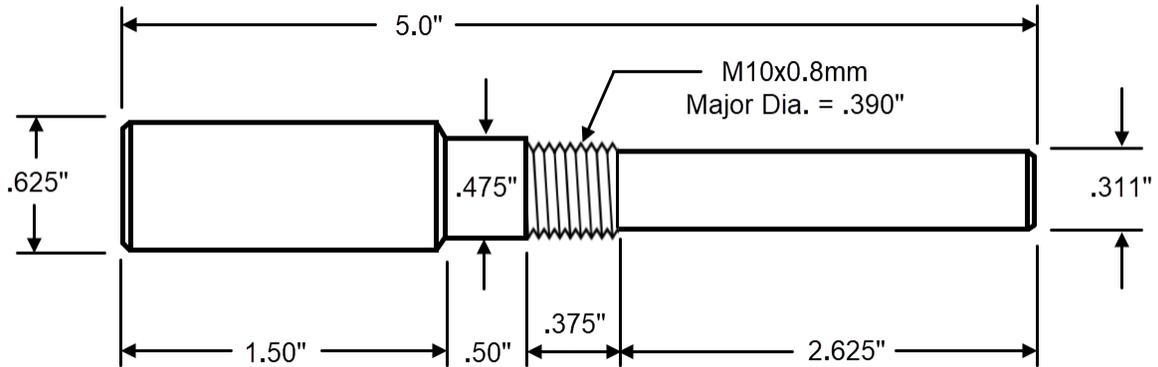


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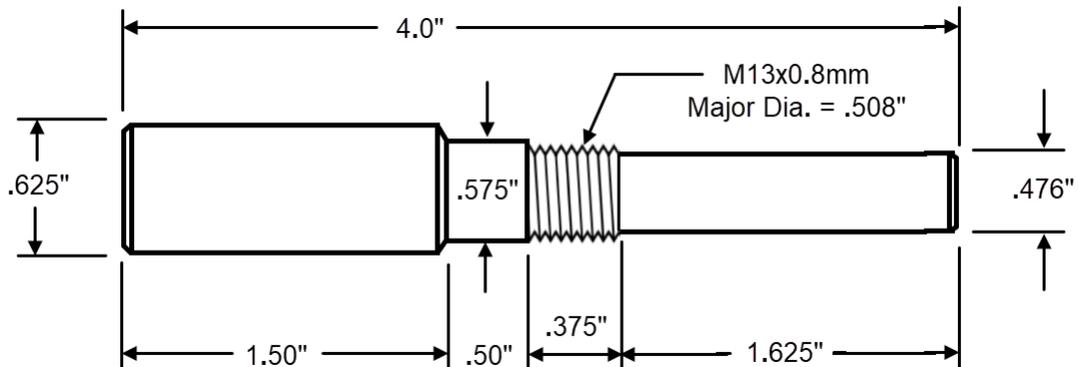


Here are 3 Sample Drawings of a Typical Set of Mandrels.

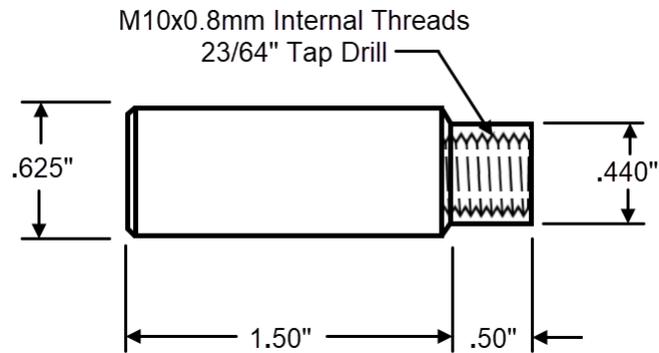
Sample Body Pen Mandrel



Sample Cap Pen Mandrel



Sample Section Mandrel



1-1/2" Die Holder Adapter that fits in the LMS 1" Die Holder

The die holder adapter in these photos is made from steel, the one you'll get will be aluminum - \$20 each. I can also make a custom sized holder for any size die you have.

This product is the 1-1/2" adapter **ONLY**, you will need the Little Machine Shop die holder in order to use my adapter.

Here's the link. https://littlemachineshop.com/products/product_view.php?ProductID=2314&category=

The Little Machine Shop die holder is shown below.



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Offset Mount Sanding Jig

This tool, along with three other tools that you most likely already have, allows you to turn your lathe into a 5" disc sander. We've all sanded on our lathe like the picture below.



The problem with this method is you only use the center of the paper, and it still really doesn't work that well.

My tool below allows you to OFFSET the blank, which allows you to use the WHOLE disc.

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It has 3 different positions that allow you to move to a new spot whenever you want. The V-groove holds a transfer punch, and the handle tightens everything down. To use it, just apply even downward pressure on the blank and push it into the disc. REAL simple!

If you don't want to use transfer punches you can put a regular pen mandrel in it and use your tube sleeves to take up the slack. You can even use my [Sanding Mill](#) if you already have one of those.

You'll get the jig and a 1/2" steel bar that fits in your tail stock drill chuck. The steel bar has a flat spot milled in it which allows you to tighten the set screw securely.

WARNING: Do not over tighten the thumbscrew, the plastic cap is pressed on and could come loose.



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What's Not Included.

The other three things you'll need are a disc, a set of transfer punches and a 1/2" drill chuck. If you purchased your lathe new it most likely came with a FACE PLATE which you can turn into the sanding disc, if not you can buy them just about anywhere for very little.

If you want a more precise method of holding the blank than transfer punches, how about using my [Pin chucks](#). They're an **EXACT** fit for your tube and can also be used for **CLOSED END** turning. Two uses for the price of one!!

I DON'T SELL THESE THREE THINGS; YOU NEED TO PURCHASE THEM ELSEWHERE!



I made my disc out of shelving material that has Formica on it, the Formica works well with the "sticky" discs. I don't recommend the hook and loop discs, they're too soft. The price for this jig is only - **\$40**

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Adapter fits a Morse Taper Driver of a Standard Pen Mandrel

One of our fellow IAP members, Mack Cameron (Mack C.) emailed me and asked if I could make an adapter that would fit the morse taper driver of a standard pen mandrel. It sounded like a good idea so I made one to see if it would work. AND IT DOES! This is what I came up with.



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What this does is eliminate the need for a drill chuck, so if you don't have a drill chuck then this might be just the ticket! It has 1/4"-28 threads on it and the other end fits in the jig like the regular 1/2" rod does.

Your order **WILL NOT** include the MT DRIVER, just the adapter that screws into it.

Here's a link to the **MT DRIVER** from EXOTIC BLANKS.

<https://www.exoticblanks.com/morse-taper-driver-arbor-choose-size.html>



NOTE: Be sure your morse taper part has 1/4"x28 tpi threads, some are METRIC!

If you need this adapter add **\$5** to the price of the jig.

Offset Sanding Jig Mount

This little device "offsets" the sanding jig by 1/2" and allows you to use a 6" sanding disk. It also uses the "in between" spaces the straight mount doesn't get.

In this photo the **RED** circles are made with the new "Offset Mount" and the **BLUE** circles are made with the standard straight mount. The photo shows a 5" sanding disc mounted on a 6" faceplate.



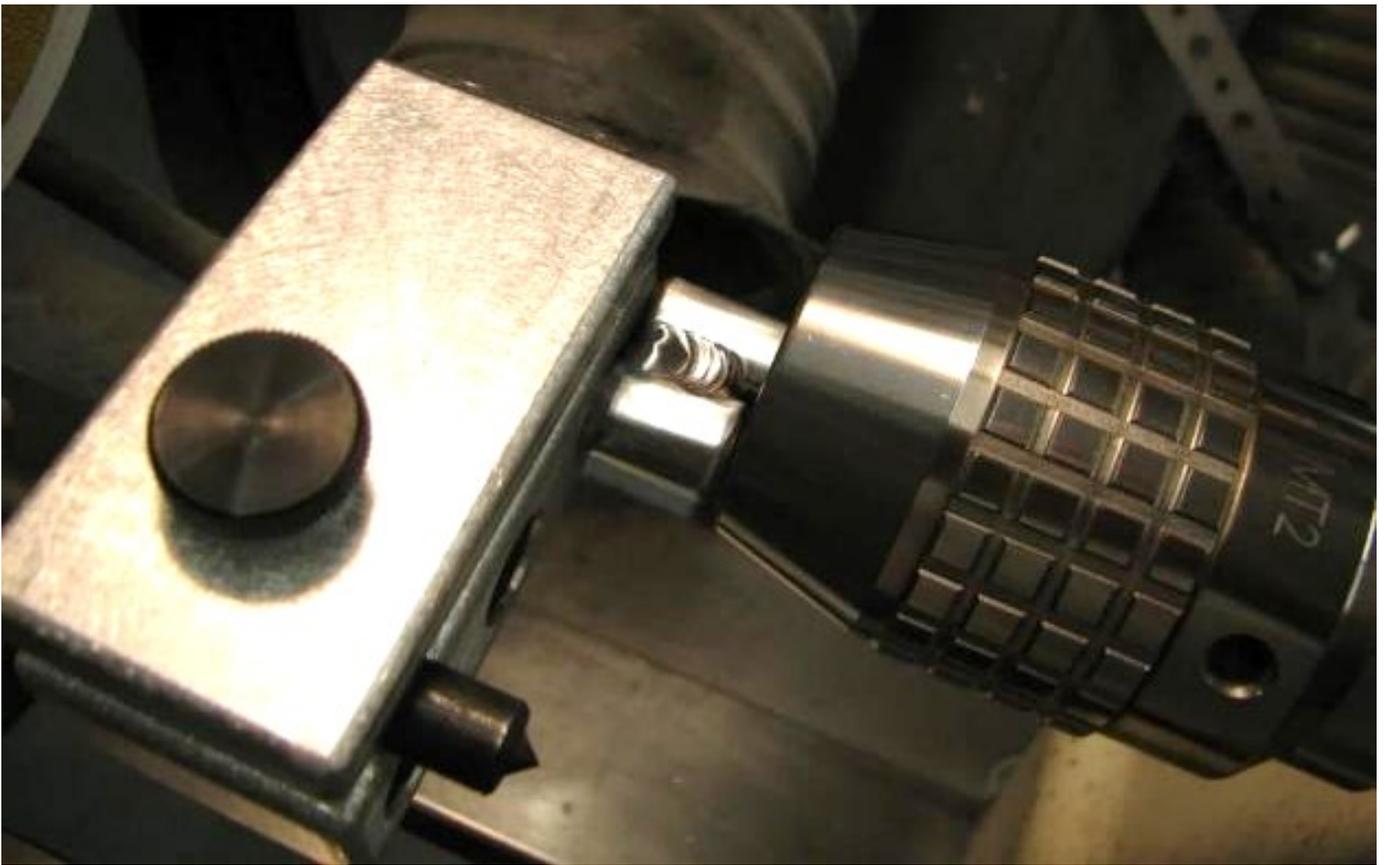
[TOC]

Here are some additional pics of the new offset mount.



The price is \$10 each.

Here is the offset adaptor mounted on the lathe.



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Tool Rests

These are made from W-1 precision ground tool steel, the shiny stuff, so your turning tools will just glide over the surface. They are VERY high quality, anybody that's familiar with my products knows that. They all come with a money back guarantee. If FOR ANY REASON you're not happy with it, send it back and I'll return your money, plus shipping, NO QUESTIONS ASKED.

They all come with a brass trim ring and have flats ground in them so you can tighten it with a wrench. This makes for a "modular" system, if you wish you can buy several different length rests and interchange them on the same post.

These tool posts are made of W-1 tool steel which is rust "resistant" NOT rust "proof". If your shop is a high humidity environment, then a light coat of wax will help prevent rust.

Post prices are 5/8" and smaller - \$25 Larger than 5/8" - \$35

I stock up to 1" material so we need to talk if you want a post larger than 1".

NOTICE: If you order a 1" post, PLEASE CHECK THE DIAMETER WITH CALIPERS! Some posts are 25mm which is REAL close, but a 1" post won't fit a 25mm banjo.

Tool Rests, UP TO 12", will be \$10 each. ADD \$1 PER INCH to any rest over 12".

PLEASE NOTE: The longest length I recommend for a 5/8" post is 9", for a 25mm or 1" post is 12". Having said that I **WILL** make you any length you want.

As you can see from the prices, this is not some get rich scheme. I'm doing this as a service to my fellow IAP members and frankly, it will give me something to do!!

I encourage you, before you order, to go out to your lathe and be sure of the length you want. I personally like 3.25" for turning one blank at a time between centers, I also sell quite a few 4". That's the beauty of this, it's not a "one size fits all" deal.

Besides the lengths of the rests you want, I'll need two measurements from you.

The TOTAL height (post plus rest), just measure your factory rest from TOP to BOTTOM), and the diameter of the post.



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Here's a sample of the "height" measurement I need. This one is 6-1/4", yours will probably be different.



Flat Top Tool Rests

I had a customer request one of these to use with his carbide turning tool and he liked it so much I decided to add it to my inventory.

I don't have a carbide tool, **YET**, but I'm told the flat top rest works well with the flat bottom of the tool, giving you more control.

I designed them to fit my standard tool posts so if you have one of mine then these will fit, the only difference is the diameter.

Since the threaded hole in my standard round tool rest is only .125" from the surface, I made these "flat" ones .125" bigger. If you have a 5/8" round post then you need to order a 3/4" "flat top" rest, if you have a 1" or 25mm post you'll need to order a 7/8" "flat top" tool rest.

Since I remove .125" of material to form the flat, **THE HEIGHT WILL REMAIN THE SAME**, it will just be a tad wider which isn't a problem.

The price for the 3/4" flat top rest is **\$20**.
The price for the 7/8" flat top rest is **\$25**.



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Tool Post Stop Collars

These STOP COLLARS are designed to keep your tool post at the same height EVERY TIME you use it, no more fumbling around to get it set at the right height, with these you just set it and forget it!



They're made from aluminum and have 3 BRASS TIPPED set screws; the brass won't ding up your post like a standard steel one will. They hold tight and use a 3/32" Allen wrench to tighten.

I can make them ANY size you want but I'm going to stock 5/8" and 1", those are by far the most common. PLEASE check the diameter of your post with calipers before ordering.

Price is \$10 each.

The price is the same no matter what size you order.

Shopsmith Tool Posts

Now all of you Shopsmith owners can use any of my custom rests when you purchase one of these slick new posts.

To the right is Post by itself.

You'll get the post and the brass trim ring for only \$35.

That's a STEAL considering how much machining is involved!



On the right, the post is shown with one of my [Flat Top Tool](#) rests attached.

IT'S **NOT INCLUDED**.



Dial Indicator Posts and Adapters

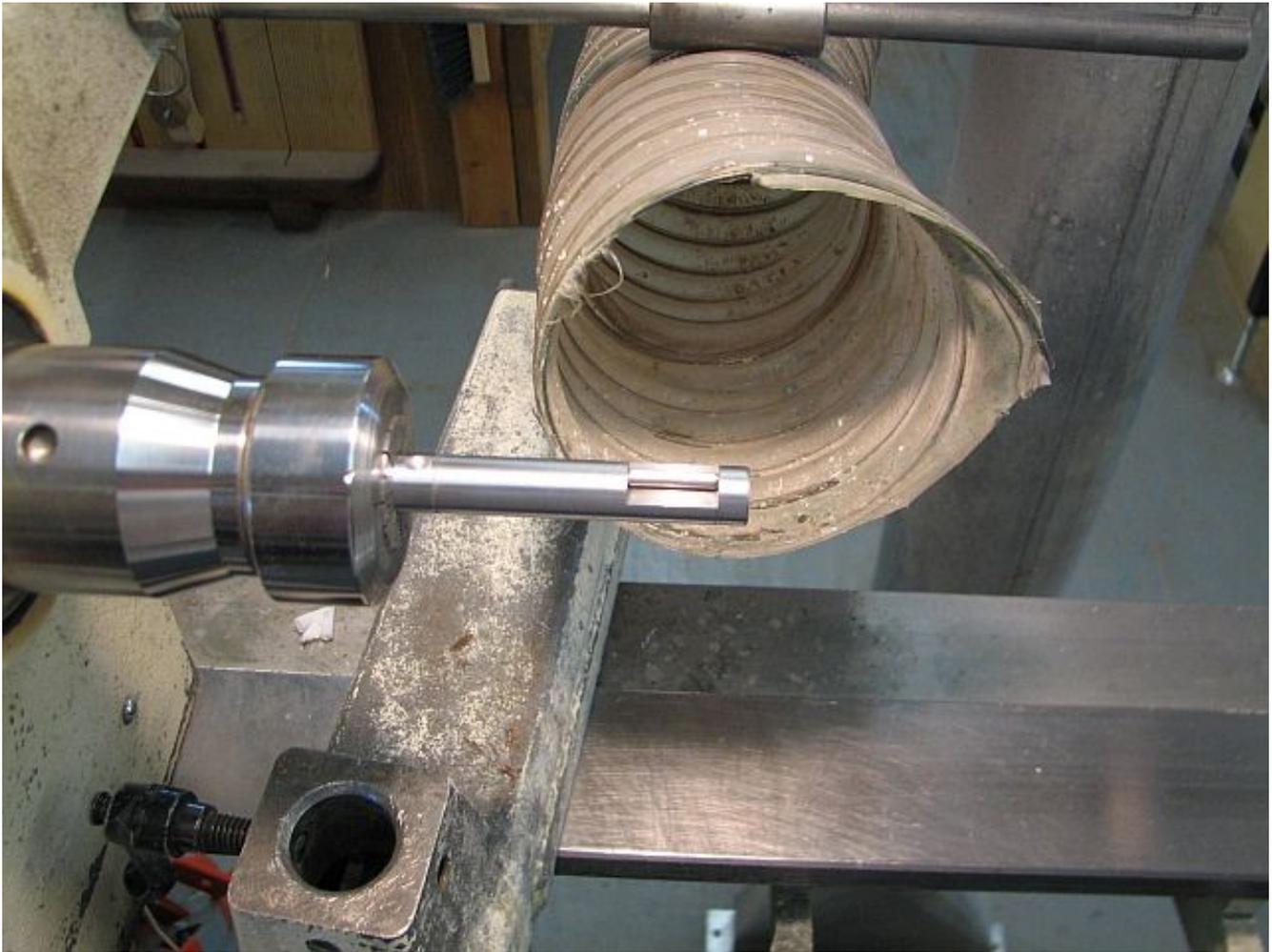
In my opinion, everyone who owns a lathe needs a [Dial indicator](#).

They're invaluable for making sure **WHATEVER** you have chucked in your lathe is running true.

Probably the most common use for penturners is to check the run out on a pen mandrel.

Another one I use a lot is checking the run out on a [Pin chuck](#).





WHATEVER you turn will benefit from making sure that it's "Running True".

With that in mind I designed an economical adaptor to attach a dial indicator to one of my "Custom Tool Rests".

This shows the two most common sizes, the one on the left has 1/2" threads and fits a 1" post, the one on the right has 3/8" threads and fits on a 5/8" post.



Here is the adaptor with the Dial indicator installed but before it gets screwed onto the post.

All I need from you is the thread size of your post. The cap screw is INCLUDED and takes a 3/16" Allen wrench.

As with all my custom-made tools, these are economically priced to be affordable to everyone. **\$10 each.**

Here it is screwed onto my 1" post.

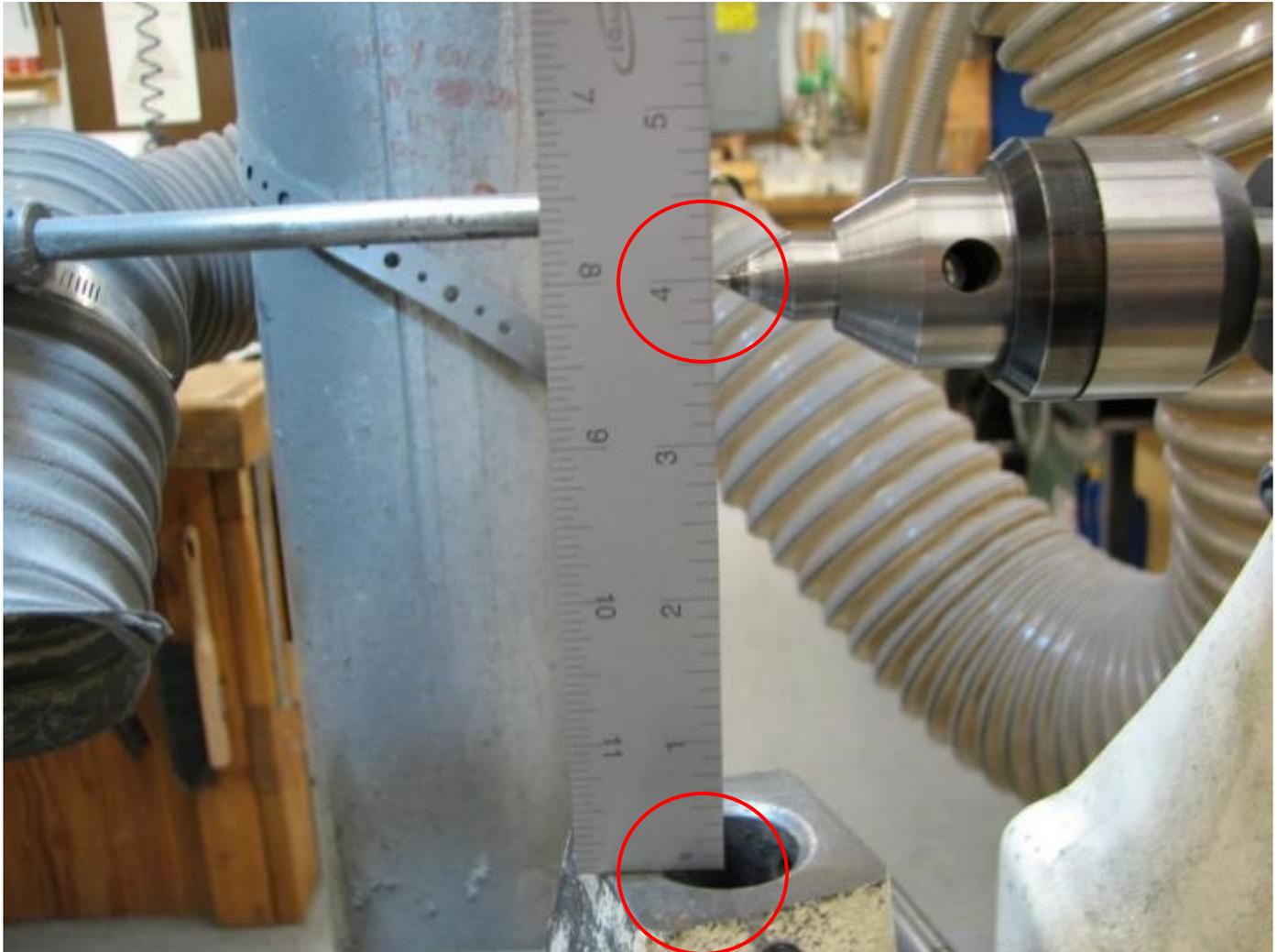
For those of you that don't have one of my tool rests or for those that would like a DEDICATED Dial Indicator holder (which I highly recommend) I designed this.

I can make them any size, just measure the diameter of you factory rest.

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You'll also need to measure the distance from the TOP of your banjo to the CENTER LINE of your lathe. Here's a photo of the measurement I need, 4" on my lathe. As shown below.



As you can see in the photo, these are made from aluminum and have a "stop" on them. That stop enables you to **SET IT AND FORGET IT!** Every time you grab it it will be set to the correct height, that's a real nice feature. I need the banjo to center line dimension to make sure the stop is in the right position. It has about 1/2" of adjustment in it so when you get it you just set it once and **FORGET IT!**



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The stop is milled to the radius of the post to make it more functional and to give it a cleaner look. All the screws are included, you'll need a 3/16" Allen wrench for the Dial Indicator and a 9/64" for the stop.

The Dial indicator is **NOT** provided, that's something you will have to buy yourself.

I recommend a standard **AGD GROUP 2** Dial Indicator with a 2-1/4" dial and 1" of travel. **BE SURE TO ORDER THE INDICATOR WITH A LUG BACK**, you need the lug to be able to bolt it to the holder.

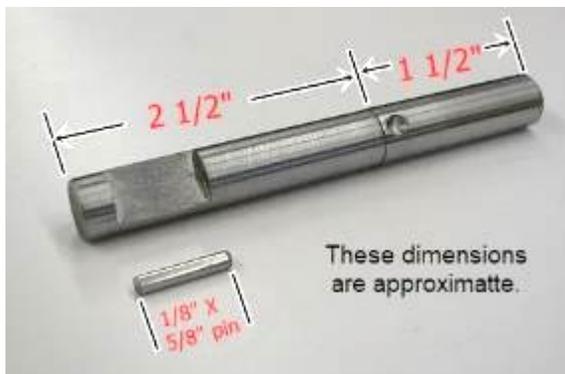


Here's one at Amazon. [1" Dial Indicator](#)

The price for my **DEDICATED DI POST** is only **\$20!**

Pin Chucks

See my video below right, how get rid of the runout on your Pin Chuck.



These pin chucks are custom-made for any size pen you want to make. Most folks use them to make "closed end" pens but they can be used for ANYTHING with a hole in it that you want to turn on a lathe.

They're made from the same tool steel as my TOOL RESTS and will last forever, W-1 precision ground tool steel. IF you take reasonable care of them!

They are approx. 4" long and have a 1/8" pin that fits in an 5/8" long slot. The turned down part that fits inside the tube is about 1/2" longer than the tube so you have some room to work on the end of your blank.

The little "dimple" you see is a reference mark so when you're done and want to remove the blank, you turn the chuck so the dimple is on top, that way the pin won't fall on the floor and roll under something.

Can you say "Murphy's Law"?

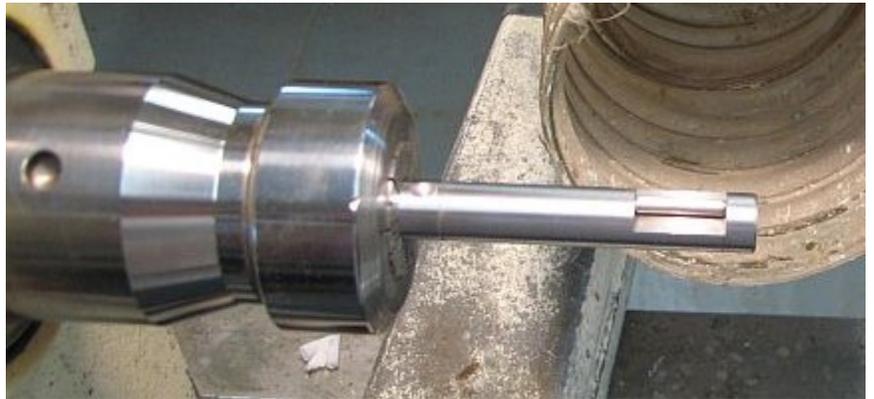
I have a lot of different pen kits in stock, but I don't have them all. If you want a pin chuck to fit something I don't have, I'll either order that size tube **OR** you can send me the tubes and I'll return them with your order. Measuring the I.D. of tubes with calipers is fine for some applications but not for this, I like to have the tubes I'm fitting on hand so I can insure a perfect fit.

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All my standard PIN CHUCKS are made from 1/2" material and will fit either a 1/2" or 13mm collet. My 7mm PIN CHUCKS fit a 1/4" or 7mm collet. If you need a PIN CHUCK larger than 1/2" I'll let you know what size collet, you'll need.

I have a lot of different pen kits in stock, but I don't have them all. If you want a pin chuck to fit something I don't have, I'll either order that size tube **OR** you can send me the tubes and I'll return them with your order. Measuring the I.D. of tubes with calipers is fine for some applications but not for this. I like to have the tubes I'm fitting on hand so I can insure a perfect fit.

This is the pin chuck mounted in a collet chuck, ready to accept a blank.



The image below shows a sample that I turned down to a pen cap shape, works like a charm!



[Pin chucks](#) are "tube specific" so you'll need **TWO [Pin chucks](#)** to do both halves of a pen. These little guys are only - **\$17** each, no matter what size you want!

Sanding Mill 2.0

This is my new version of an old tool.

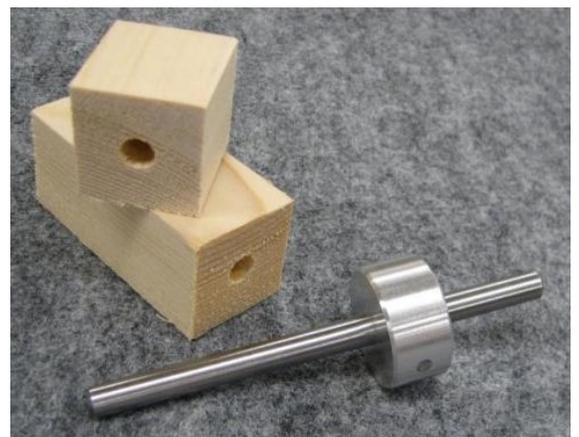
I had some requests for a sanding mill that had **TWO** flat and true sides so folks could use the short side for smaller stuff.

I also wanted a simpler way to make them.

The old way with wood, brass and glue took **WAY** too long to make, consequently I had to charge what I thought was a little too much.

With this new design not only will you be getting a better product, you'll be paying **LESS** for it, how often does that happen?

THIS TOOL DOES THE SAME JOB AS THE OLDER MODEL SO IF YOU ALREADY HAVE THE OLDER VERSION, YOU DON'T NEED THIS ONE. [\(Unless of course you really want one!\)](#) [\[TOC\]](#)

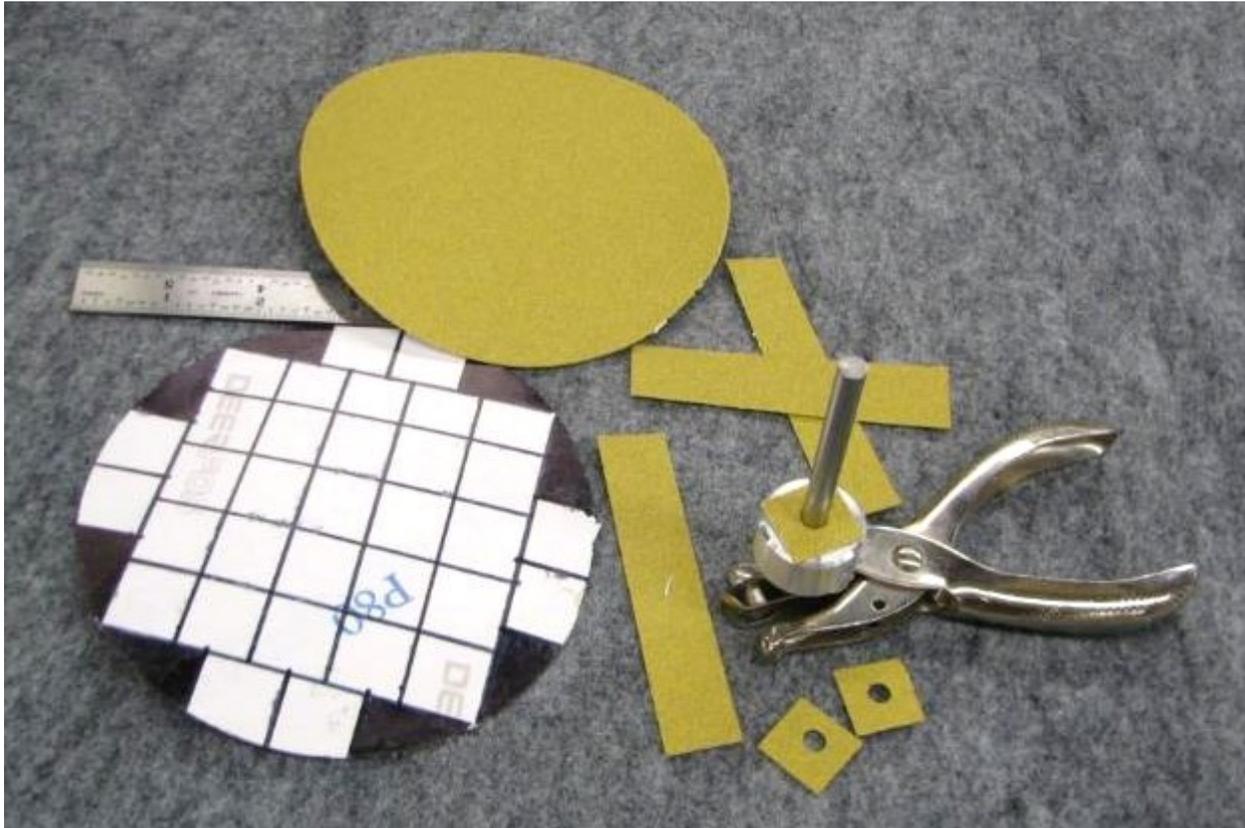


This New Version does NOT include Sandpaper or Punch!

To make the discs get some sticky backed sandpaper and cut it into small squares, I use the 5" round discs made for an orbital sander. A regular notebook paper punch will punch a perfectly sized hole for the shaft.

I use 100 grit for mine but experiment and see what's right FOR YOU!

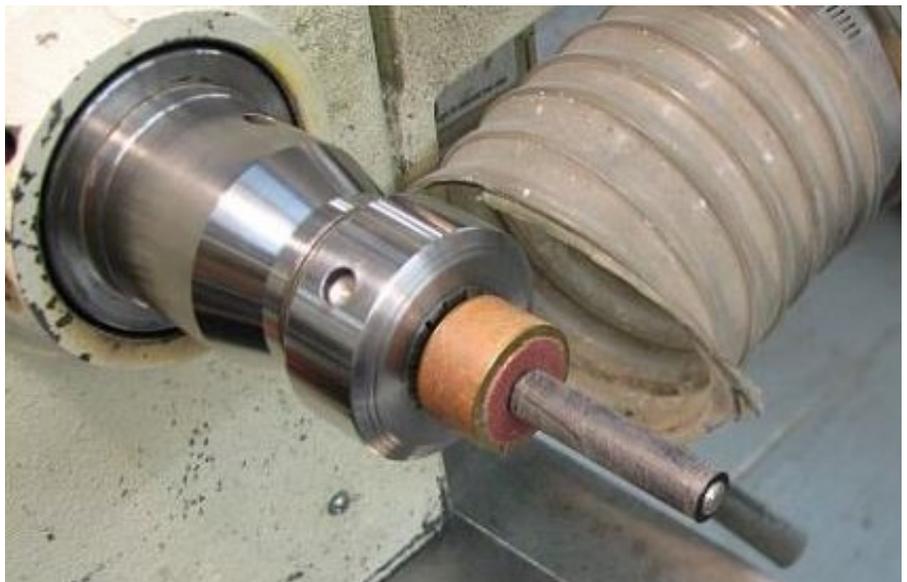
Here's a photo of the sanding mill.



The price for the new model is **ONLY \$20!**

[This part shows my old-style mill, but the process is the same with the new one.](#)

Here's a photo with one of my sleeves installed. The rod on the mill is the same size as your standard 7mm, "A" penturners mandrel, so you can make sleeves from a slimline tube if you like.



The one in the image on the right is made out of Delrin to fit a Sierra style pen tube.

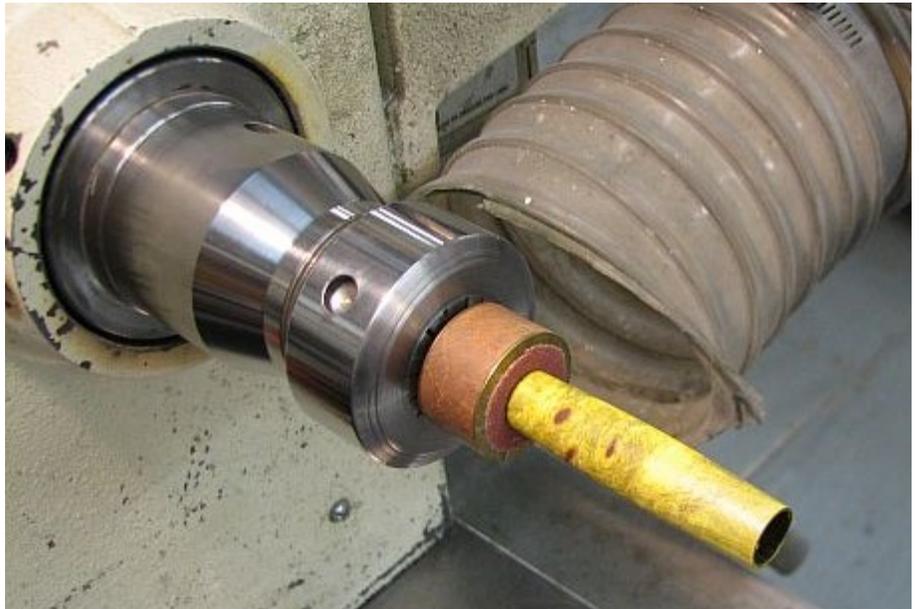
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Here it is with the Sierra barrel attached and ready to go.

I use mine at about 1,000 rpm and just push real lightly, it's really easy to use and you'll get the hang of it right away!

If you don't want to make your own sleeves, I charge \$5 each for sleeves that are an exact fit for the tube.

PLEASE note that this is a **FINISHING** tool, it's meant to be used on already turned barrels and really excels at removing CA and squaring things up prior to assembly. You'll be amazed at how much better everything fits after using this tool.



See my [Offset Sanding Jig](#) if you need a more aggressive tool.

17pc. Set of Tube Sleeves

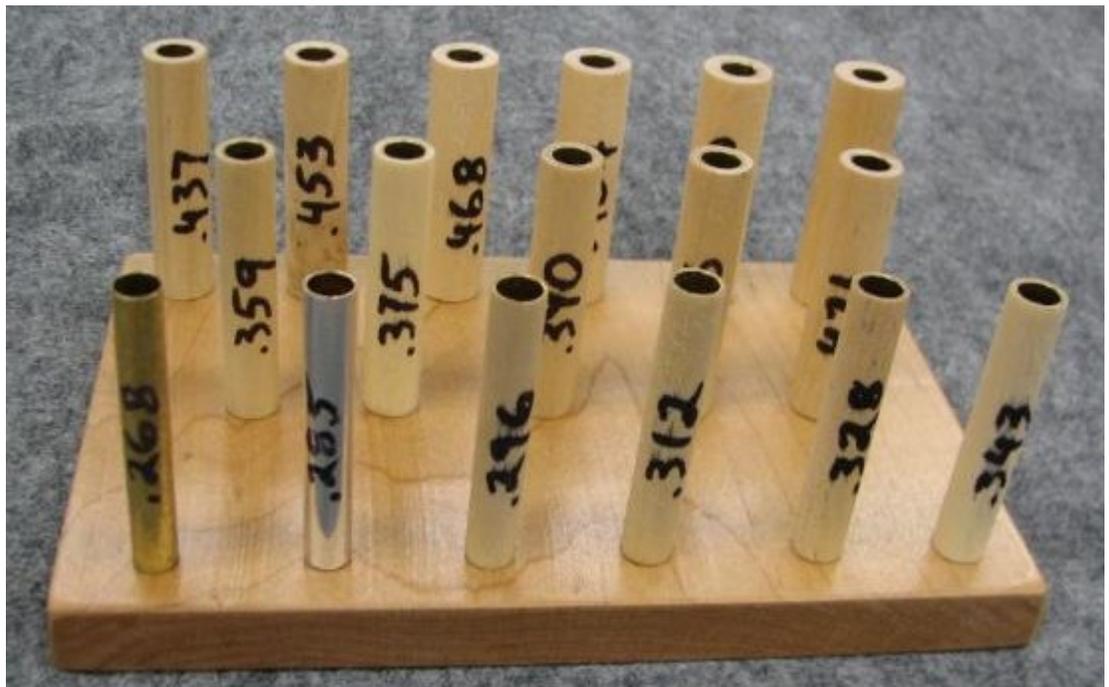
These sleeves are **NOT** an exact fit like the ones I offer above, these are the same sizes as a set of transfer punches. These are made from wood, I try and get them to the exact size marked on them but that's next to impossible. The exact number isn't important, the idea is to pick the largest one that will fit inside your tube.

These are used the same way the transfer punches are used for my OFFSET SANDING JIG, you need to use a slight downward pressure when using them. While they are not an exact fit there is approx. .015" between sleeves so the one you choose will be REAL close. Tolerance on sleeves...+/- .005".

The price for 17 sleeves AND this nifty little stand made from MDF is only \$50.

That's a \$35 savings on the sleeves and the stand is **FREE!**

BUT WAIT, CHECK OUT THIS DEAL!



For only \$60 I'll include one of my SANDING MILLS! That means you get the **SANDING MILL** for ONLY \$10, **WHAT A DEAL!**

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Straight Shank Dead Centers

I made one of these for Mike (navycop) who has a Shopsmith and he wanted to turn between centers with custom bushings. The Shopsmith doesn't have a Morse taper so he needed a center with **NO TAPER** that he could mount in his drill chuck.

Afterwards I got to thinking...I'll bet these would work great for those of us with Beall or other brands of collet chucks who are tired of removing the chuck so we can insert our Morse taper dead center into our headstock and turn between centers.



The one in the photo is 1/2" X 3" but I can make them **ANY** diameter and **ANY** length you want. They are **STRAIGHT**, i.e. **NO TAPER**, and have a standard 60-degree end. They're made from the same high quality tool steel as my Custom Tool Rests.

I harden them by heating the tip to a cherry red and quickly plunging it into cold water, I tried to turn one on my metal lathe **AFTER** it was hardened, and I dulled my HSS cutter, so I know it's hard enough for TBC.

I'm asking **\$12** each, **ANY DIAMETER**, **ANY LENGTH UP TO 6"**, **\$1** per inch after that.

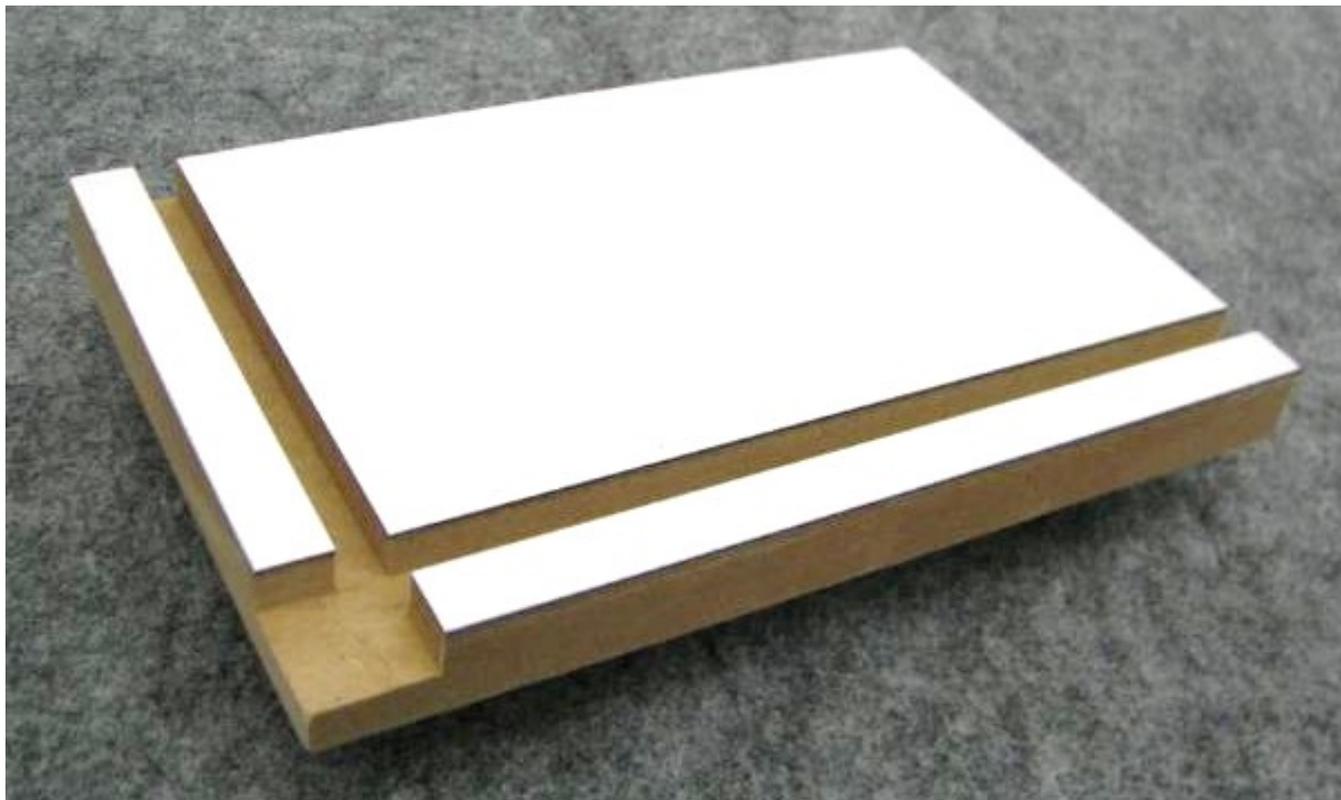
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Lathe Sanding Table

NOTICE : This table is **NOT** for squaring blanks to the tube, see my [Offset Sanding Jig](#) for that.

This is the answer for all of you who would like a disc sander but don't have the room or the budget for a stand-alone model. I designed it to screw on to my tool posts so if you already have one, you're all set. If not, then you will need to order a post to make it work.

The table is made from 1/2" MDF for flatness and stability and is covered with authentic Formica for a smooth surface and a lifetime of use. It also has a 1/4" x 1/4" channel routed on two sides so you can make your own fences.



The mounting block is made from 5/8" thick solid aluminum.

If you need a post, I'll discount it \$5 if you buy the post and table together.

The price for the table is \$25.

The table plus 5/8" post is \$45.

The table plus 1" post \$55.



Here's the table mounted on my lathe.



You need to make your own fences; I won't be offering them for sale. I just used scrap wood and CA glued it together.



I want to **THANK YOU** for looking at my products, they're all made by me in my one-man shop. All of these tools came about by my having a need for a custom tool and then making it for myself.

I use these products every day and if they didn't work flawlessly, I wouldn't offer them to you.

I also make "one off" tools so if you have an idea or a need for a "special" tool, give me a holler and we'll see what we can do.

I don't have a website so if you want to place an order or if you have a question, Start a Conversation with me ([rherrell](#)) on [IAP](#) and we'll discuss your needs.

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