Description:

The "Fancy" model is similar to the "Slimline" and is a great starter kit for those new to pen turning. The difference is only in the pen clip. Many experienced pen turners use the fancy kit to make elaborate and unusual pens which vary greatly from the basic pen. The Touch version of this kit has a cap made of a special material which activates phone and computer touch screens. The cap can be purchased separately and added to one of our standard Slimline or Fancy Kits.

The "Fancy" pen uses 7mm brass tubes of equal length. You do not have to worry about an "upper" and "lower" tube. Also, in the basic pen form, the wood blank is turned as a straight cylinder, which is simple and easier to turn than some of the more elaborate pens which require fairly precise curves to look good.

The "Fancy" pen is available in a wide range of finishes (Gold, Silver, Gun Metal, etc). You can also customize your Fancy pens with a wide variety of decorative pen clips.

Getting Started:

You will need the following accessories to make a "Fancy" pen. Many of these accessories can be used with other pen kits. (All accessories are available at www.thewoodturningstore.com)

- 1 wood or acrylic blank, approximately 5 inches long x 5/8" x 5/8"
- 7mm drill bit
- Woodturning pen mandrel with 7mm rod
- Slimline or "Fancy" pen bushing set
- Pen barrel trimmer (7mm)
- Glue (CA, epoxy or polyurethane [Gorilla])
- Lathe, turning tools, sandpaper, pen finish
- Other items may be needed as desired



Parts of the Fancy Pen Kit:



Legacy "Fancy" Touch Pen Kit

Assembly Instructions

Available at www.thewoodturningstore.com

Preparing the Blank for Turning:

- Start with your wood or acrylic bank and cut it in half so you have 2 pieces, each about 2 ½" in length. Mark the blank with "hash marks" at the cut line so you can keep the grain matched when you mount the blanks on the pen mandrel
- Using a 7mm twist drill, drill a hole through each blank. Be careful to drill slowly to avoid chipping and tearing the material. Also, it is highly recommended that you clamp the blank in a vise and use a drill press for the most accurate and straight hole. You could also mount each blank in a lathe chuck and drill the hole using your lathe
- Roughen the surface of each brass tube with steel wool or fine sandpaper. Using one of the glues mentioned previously, glue the brass tube into the blank. Twist the tube when inserting it into the blank to insure good glue coverage. Center the tube in the blank, make sure the tube is at least 1/16" - 1/8" inside the blank so you can trim the blank end cleanly.
- Use a pen barrel trimmer (7mm) to square the ends of the blank to the brass tube. This is an important step which will create a clean line between the turned blank and the metal components of the pen kit.
- Your blanks are now ready to be mounted on the lathe

Turning the blanks on the lathe

- Use a pen turning mandrel with a 7mm shaft and slimline pen bushings (available at our store). You will need at least three bushings. For the slimline kit, the bushings are all the same diameter. Our pen mandrel kit includes 5 slimline bushings.
- Mount the pen blanks on the mandrel as shown in the diagram below. Make sure that your "hash marks" are in the center which assures that the grain of your blank will match that of the original single piece blank. Adjust the mandrel shaft so that the lock nut will tighten down on the assembly of pen blanks and bushings. Hand tighten the nut.
- Put a live center in your lathe's tailstock and bring it in to support the mandrel shaft and keep it stable while turning.
- Using turning tools, turn the blanks to cylinders which are the diameter of the bushings.
- Note: Many turners prefer to turn the blank slightly oversize and then sand and polish the blank down to the exact size of the bushings.



Legacy "Fancy" Touch Pen Kit

Assembly Instructions

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Sanding, Polishing and Finishing the blank

- Most pens are finished to a high luster and finished with a durable coating of protective finish. Depending on your skill level and the material being used, you will need to sand with aluminum oxide paper of progressively finer grits, starting with a grit coarse enough to remove all tool marks and possibly shape the blank
- If you have turned your piece oversize or if it is rough, you can smooth and even shape your blank with 80-100 grit sandpaper. Use a high lathe speed (2000+ RPM) but be careful not to overheat your piece which could cause heat checking.
- Progress through finer and finer grits 120, 180, 240, 320, 400, 600, etc
- For acrylic materials your can use sandpaper up to 1000 grit than switch to micro mesh pads (up to 12000) and polishing cream to get a superior glossy finish.
- There are many finishes available for pens and you can experiment with what works best for you and the materials you use. Try to use a finish which will be durable and long lasting because the pen will be handled thousands of times and you want to the finish to stay on and not be worn away (especially if you have sold the pen!)
- Remove the blanks from the pen mandrel and you are ready to assemble your pen.

Assembly of the Finished Pen:





- Now that you have turned and finished the blanks into the upper and lower halves, you are ready to assemble your pen.
- It is highly recommended that you use a vise or clamp to assemble the pen. It is essential that you press the parts together "straight". If you press the parts together and they are not straight, they will not straighten as you continue to press. There are many commercially available pen presses which make the process simple and easy.
- Before you press the parts together, lay out your blanks so that you recall how the grain originally matched.
- First, press the pen tip into the lower or front tube
- Next, press the twist mechanism into the other end of the lower tube, brass end first. This step is the most critical part of the assembly. Press the mechanism in slowly until you reach the indentation mark on the mechanism. The install the pen refill and test the pen. It should extend properly through the tip while still retracting fully. If it does not extend fully, remove the pen refill and press the mechanism a little further, just a little!! If you press too far, the pen will not retract back in to the pen body and you will have to disassemble the pen, which is not easy. BE CAREFUL on this step.
- Slide the ring band over the twist mechanism
- The lower assembly is now finished
- Push the cap through the pen clip and press it on to the upper / rear tube. Be careful when pressing the clip as the touch stylus tip is delicate. It is best to unscrew the touch style retaining ring from the cap assembly and remove the silicone cap prior to pressing the top assembly together. This will protect the silicone cap from damage. See the photo detail. Remember to watch for the original grain orientation.
- Push the two halves of the pen assembly together and your pen is complete!