

PROJECT PEN KITS



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AXMINSTER
woodturning

Pazazz Pen Kit - Gold

Code: 502692



WHAT'S REQUIRED

Bushing Set:
502694

Drill Bit Size:
13/32" and 12.5 mm

Minimum Blank Size:
25 mm x 25 mm x 150 mm

PREPARING THE BLANKS, HINTS & TIPS

Preparing a wooden or acrylic/polyester blank for a pen mandrel.

1. Cut a blank to the length of each tube plus approximately 2.5mm to allow for trimming and squaring off the ends.

Note: The shorter of the two tubes becomes the Cap for the pen

2. Mark the centre on the end of the blank.
3. Using the recommended drill bit, drill a hole lengthwise through the blank.
4. Apply epoxy glue, Polyurethane glue or gap filling cyanoacrylate (super glue) to the tubes.
5. Insert the tube into the blank with a twisting motion to spread the glue evenly inside the hole.

6. Centre the tube lengthwise inside the blank.
7. Allow the adhesive to cure.
8. When cured, square the ends of the blank. Using a barrel trimmer with a guide matching the inner diameter of the tube or a universal pen blank squaring jig with a disc sander.
9. Take the excess material down flush with the ends of the brass tube. (do not trim beyond the length of the tube since this may interfere with operation of the mechanism and assembly).

Tips/Hints

- If using a wooden blank, draw a short pencil line lengthwise across the centre of the blank. This will help maintain grain alignment when mounting the blanks onto a mandrel.
- Excessive pressure may cause the drill bit to wander and/or split the blank. Slow the feed rate and back the drill bit out repeatedly for chip removal.
- Roughen the brass tube slightly with abrasive for better adhesion.
- Certain acrylic blanks are more transparent than others, especially lighter colors or blanks with light colored swirls. To avoid the risk of the brass tube showing through the pen blank, paint the tubes white or black before gluing them in.
- The barrel trimmer guide also cleans any adhesive that may have gotten inside of the tube.

TURNING THE BLANK, HINTS & TIPS

1. Mount the bushings and blanks onto a pen mandrel according to the diagram (If using a wooden blank, check the grain alignment).
2. Secure the bushings and blanks onto the mandrel.
3. Slide the tailstock with a live centre into place against the mandrel and lock in position. This is for support; only slight pressure is required.
4. Using sharp tools, turn the blanks down to become the Pen Barrel and the Cap with the profile of your choice.
5. Turn the blanks very slightly oversize, then sand and polish the ends down to the same diameter as the bushings.
6. Using successively finer abrasives gradually sand and polish the Pen Barrel and Cap.

7. Finish the Pen Barrel and Cap with your preferred choice of polish.

Tips/Hints

- Don't be afraid to sharpen frequently especially when turning acrylics.



Continues over...

ASSEMBLY, HINTS & TIPS

1. Layout parts according to diagram A, ensuring the turned Pen Barrels are the same orientation as when mounted on the mandrel.

Note: When removing the blanks from the mandrel, use a felt tip pen to mark the inside of each tube where they join to maintain the grain or pattern alignment.

2. Press the Cap into the top of the Short Pen Barrel.

3. Press the Coupler into the opposite end of the Short Pen Barrel.

4. Press the Base into the bottom of the Long Pen Barrel.

5. Slide the Trim Ring, aligned as shown in the diagram, over the unthreaded end of the Nib Coupler and press them into the top of the Long Pen Barrel.

6. Slide the Refill into the long Pen Barrel and screw the Nib into place.

Note: The Pazazz pen uses a coarse thread for removing and replacing the Cap quickly and smoothly. This thread has three starting points. In order for the wood grain to line up, the Cap must be replaced using the same starting point each time.

Tips/Hints

- Use a woodworking vice, one handed bar clamp, arbor press or a dedicated pen press.
- Press parts together slowly and steadily
- When pressing the parts together, CHECK the parts are correctly aligned with each other and straight. If the part is crooked or misaligned, it will result in a poor fit or render the pen unuseable.
- When laying out your pen barrel with the parts, pay careful attention to keep the pen barrels in the same orientation as when on the mandrel. i.e. a pen barrel may have a "top" and "bottom", now is the time to be certain of the orientation.

DIAGRAM A



Visit the Knowledge blog 'How To Make A Pen' for hints, tips and videos
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