

## Artisan® Razor and Brush Stand Kit

### Supplies Needed

- 7mm Drill Bit
- 3/4" x 3/4" x 5" Blank
- Pen Mandrel
- Razor Stand Bushings
- Glue (Thick CA or Epoxy)
- Sandpaper/Finish
- Drill or Drill Press
- Barrel Trimmer/Disc Sander
- Eye and Ear Protection

### Cutting and Drilling the Blank

1. Cut the blank 1/4" longer than the brass tube.
2. Using a drill press with the blank secured in a vise or clamp, drill a hole through the center of the blank stopping 1/8" short of the bit exiting the blank. Drill at 2,000–3,000 rpm backing the drill bit partially out of the hole every 1/2" to clear chips. When using larger bits or drilling plastics drill at 250–500 rpm.
3. Trim away a small amount of wood from the end of the blank to expose the hole. The blank should be slightly longer than the brass tube. This technique prevents cracking caused when the bit exits the blank.

### Gluing the Brass Tube Into the Blank

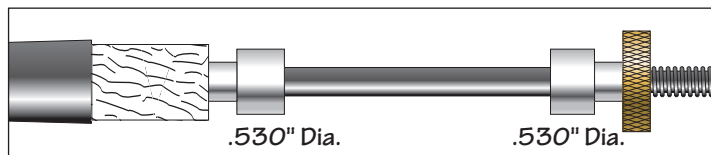
1. Lightly scuff the exterior of the brass tube with 220 grit sand paper to prepare it for gluing.
2. For a fast bond, use thick cyanoacrylate adhesive (super glue) or 5 minute epoxy. For additional working time and more thorough bond, use expanding polyurethane. Apply a thin layer of glue to the tube and inside the wood blank. Insert the tube into the blank rotating it as you go to spread the glue evenly. Position the brass tube in the blank so that the wood extends beyond the tube on both ends to allow for trimming.

### Trimming/Truing the Blank

1. Square the ends of the wood blank with the tube using either a barrel trimmer or disc sander. This step is critical for the pen components to fit together properly. **Do Not** trim the brass tube as this may result in an improper fit when the stand is assembled.

### Mandrel Setup and Turning

1. Assemble the bushings and blank on the pen mandrel as shown below.



2. Advance a 60° revolving cone center into the dimpled end of the mandrel and tighten using light pressure. **Do Not** over tighten the tailstock or mandrel nut as this may cause the mandrel to flex resulting in off-center barrel.

3. Turn the blank to the desired shape leaving the blank slightly larger than the bushings.
4. Sand the blank using progressively finer grits of sand paper, then apply the finish.

### Assembly Figure 1

1. Thread a decorative coupler into the stand base.
2. Thread the rod into the end coupler in the base.
3. Slide your blank over the threaded rod. Thread a decorative coupler onto the threaded rod.
4. Put the Razor holder over the threads on the decorative coupler and thread on the cap. See Figure 1.

Figure 1

