

Instructions for the Drafting Head

- 1) Begin by prepping material for the front at a minimum of 5" x 16" – 7/32" thick.
- 2) Next, prepare the material for the back at a minimum of 5" x 16" – 1/2" thick.
- 3) Working from the inside face of the material create a cutting file and cut the face. The pocket for the threaded insert is set up for the type listed in the plans and if you are going to use a different insert you will need to modify the size and depth of the pocket.
- 4) Cut the back working from the inside face. Modify the threaded insert pocket as needed. The size of the cut for the ruler should be verified against the ruler you are using. Add 1/64" to the width and depth so that the ruler will slide easily.
- 5) Make the rub shoe with a piece of 1/4" x 1/8" brass strip. Check the bend against the pocket cut into the back. The rub shoe should "rattle" in its slot giving it room to move but not fall out.
- 6) Glue the threaded insert in place in the back. Place the rub shoe in its pocket and glue the front and back together. Be careful to not allow glue squeeze out to interfere with the rub shoe or the cavity that the ruler will slide in.
- 7) Once the glue dries use a router table or a table saw to cut the rabbets for the trim strips.
- 8) Glue on the trim strips made with a contrasting wood and when dry, flush them out.
- 9) If you would like, now is a good time to add some v-carving. Add your name or make up a logo for your personal "brand" of tools. I find it helpful to cut a shallow outline of the project on my CNC's spoil board as an aid for positioning.
- 10) Screw in the 1/4"-20 brass thumb screw and insert the ruler.
- 11) If the drafting head is not perfectly 90 degrees a file can be used to remove material from the top or bottom of the ruler slot where the ruler is pushed by the rub shoe and thumbscrew to bring it into alignment.