

# ITEM #FP002 Wooden Base Clock Project

- Turning a wooden clock base is a rewarding experience. Clocks are essential and popular, most important – they are very practical and make great gifts.
- PSI carries a variety of fit-up quartz clocks in 2" and 2 3/4" diameter. They fit snugly into the correct predrilled hole.

*Note: instructions are for turning the wood blanks using PSI's expanding collet chuck. (See table)*

<u>Clock Size</u>	<u>PSI style</u>	<u>Hole Size</u>	<u>Forstner Bit #</u>	<u>Drilling Depth</u>	<u>Collet Chuck#</u>
2"	#K2xx	1-3/8"	#FB138	5/16"	#CXC series (includes 1-3/8" jaws)
2-3/4"	#K3xx	2-3/8"	#FB238	5/8"	#CXC series (w/ #CXC238J jaws)

PSI offers a variety of wood species in blanks especially sized to turn into clock bases: 2" x 6" x 6", 2" x 5" x 5", and 2" x 4" x 4" blanks. Any of these blank sizes when turned down will create a beautiful wooden clock.

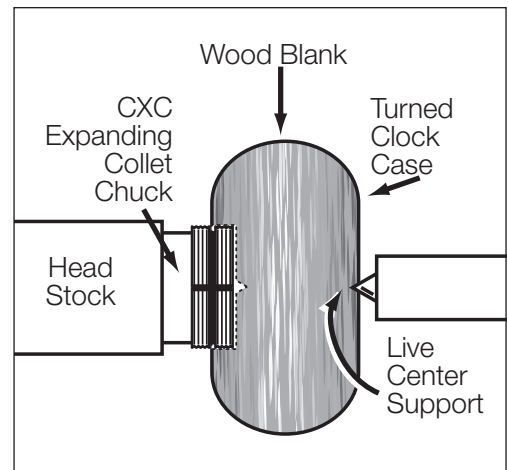
## Preparing the Blank

- Mark and punch the center surface of the blank. Draw a circle to the diameter of the project you choose to turn.
- Drill a Forstner Bit hole to match the clock insert you have picked (see table above) to the depth required.
- Use a band saw to cut away the excess wood from the drawn circle. This will make it easier to turn the wood.

## Turning and Finishing the Blank

- Mount the collet chuck onto the lathe. Place the blank over the chuck and hand tighten. You may support the blank with the live center into the wood.
- Turn the wood to the profile of your choice (see Diagram B- suggested profiles)
- Sand and finish the wood with your choice of friction polish on the lathe or use PSI Hi-Gloss Lacquer #HGPF to brush on your project (off the lathe).
- Angle the clock base: Use a disc or belt sander. Tilt the table to about 15°, lay the blank, back side down, on the table then sand the base of the blank (see Diagram B- suggested profiles).
- Adjust the time and insert the clock into the recessed hole.

**Diagram A - Turning the Blank**



**Diagram B - Suggested Profiles**

