

OFF SET HOLLOW VESSEL

Wood Blank 3" X 3" X 5". Dry wood. Side Grain.

Find the center of the blank by drawing a line from corner to corner. The main axis is the center. The secondary axis is $\frac{1}{2}$ inch from the center on the same side of the blank. Using a punch or awl, put a dimple in both the main center and the secondary center.

Round the blank into a cylinder leaving the cylinder as large as possible, 3".

Start the shape of the vessel to about half way down. Shape it just enough to visualize the shape of your vessel.

Draw a reference line about $\frac{1}{2}$ inch from the top of the vessel. This will be the height of the neck. With a narrow parting tool, cut a $\frac{1}{16}$ inch reference mark.

Remove the blank and remount it on the secondary axis.

Turn a tenon on the foot end of the vessel.

Mount the blank on a 4-jaw chuck. Before tightening the chuck, align with the dimple on the top of the vessel. Securely tighten the chuck.

Drill a $\frac{5}{8}$ " hole about $2 \frac{1}{4}$ " to $2 \frac{1}{2}$ " deep with a forstner bit.

Cut the neck on the top of your vessel between your reference groove and the end of the blank. You could use a 60° live center for security. Leave the thickness of the neck about $\frac{1}{8}$ inch. At this point you need to finish the top by using a negative rake scraper on the end grain and sand to final grit.

Carefully hollow the vessel. Take care that you do not cut through the thin side of the vessel.

Make a reverse jam chuck out of a 4 X 4 scrap piece of wood. Make sure the jam chuck is deep enough to accept the $\frac{1}{2}$ inch neck. When supporting the vessel into the jam check with the live center, be sure to use the dimple on the main axis.

Turn to the final shape with about a 1" foot.

The round bottom version is done the same way, except the blank is 3" x 3" x $3 \frac{1}{2}$ " and the drill hole should be about $1 \frac{1}{2}$ to $1 \frac{3}{4}$ ".

