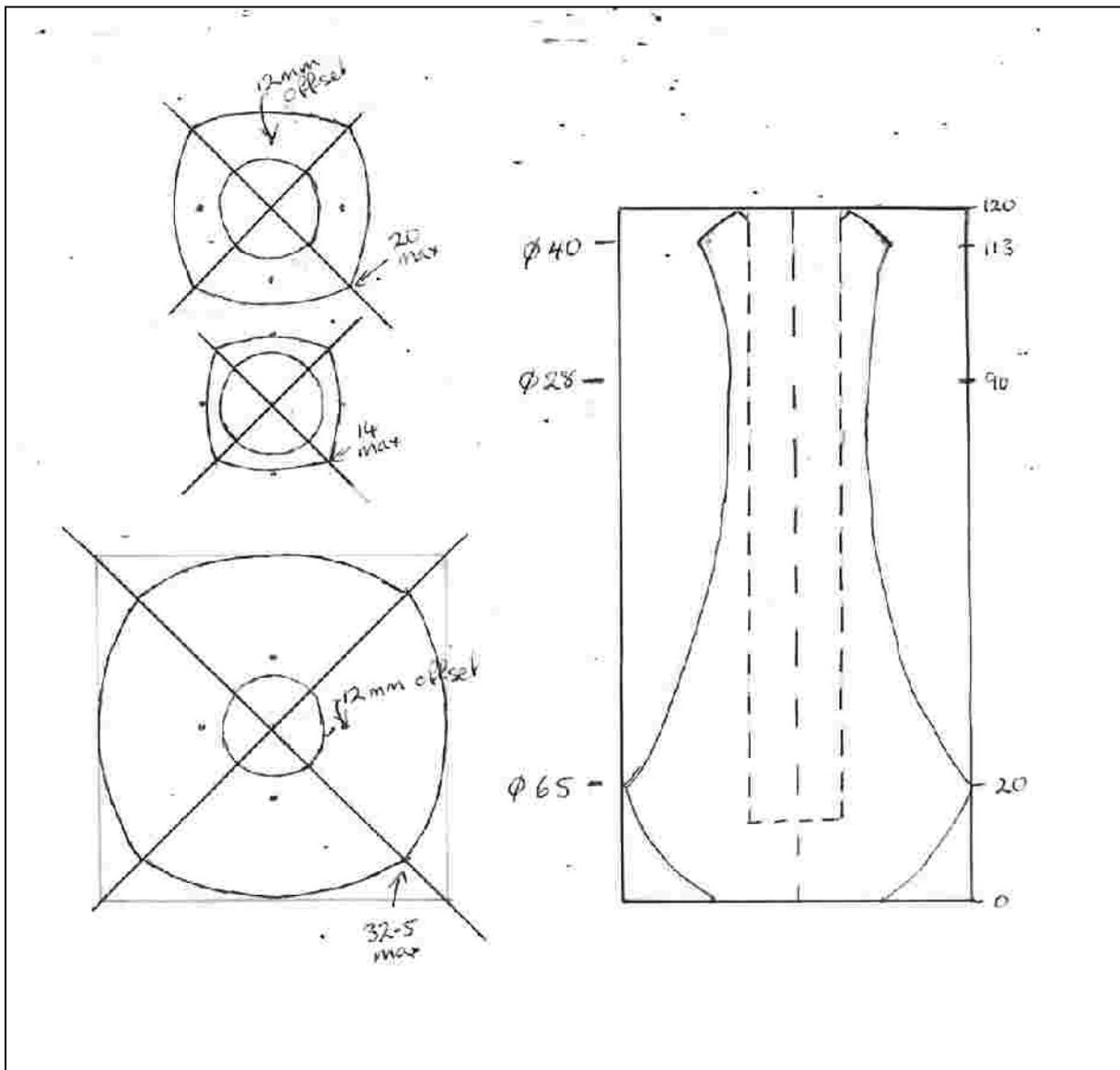


4-Sided Bud Vase



Materials: Approx 70 x 70 x 130mm

16mm x 100mm test tube (optional)

Note approx 5mm waste timber has been allowed at each end to enable holes from centre points to be removed later. (Steb type centres will hold securely with less impression)

1. Mark diagonals on each end of blank. Also on each end mark centre points and offset points 12mm out from centre, between each diagonal.
2. Turn blank to cylinder 65mm diameter. Make a chuck spigot on the base end, keeping it in the area which will be cut away later with the bottom curve. Mark widest point at 20mm from base. Mark additional guideline 5mm below this line.

3. Reduce top end to 40mm diameter and mark widest point of rim at 113mm from base. Mark additional guideline 5mm above this line.
4. Turn curve between marked wide points, reducing diameter to 28mm at narrowest point (approx 90mm from base).
5. Transfer diagonal markings from top & bottom onto sides and join to mark 4 "corners" of finished vase.
6. Shift blank to first pair of offset centres. Reduce lathe speed to prevent excessive vibration.
7. Carefully cut between two marked wide points, following the curve. Watch the "shadow" on the far side of the work. Continue cutting until cuts on this "side" reach marked corner lines. The top and bottom of the cut area will extend in a curve from the corner lines out to the 5mm guidelines drawn earlier. Suggested tools: bowl gouge, roughing gouge or spindle gouge.
8. Repeat previous step with each pair of offset centres.
9. With the lathe stopped, hand sand each side, ensuring crisp "corners" are retained.
10. Transfer work to a scroll chuck, using point in tailstock to centre.
11. Drill hole to accommodate test tube
12. Support open end of vase using a large cone centre in tailstock. Shape top curve, removing waste from length. Remove tailstock support and gently open up entrance. Sand top end of vase, again taking care to retain crisp edges where top meets the sides. If using an on-lathe finish apply now to top end and inside opening.
13. Mount a piece of scrap in the scroll chuck and turn a long spigot which will fit neatly into the hole drilled into the top of the vase. Slide the vase onto this spigot and hold in place with the tail centre brought up to the base. Turn base curve, removing most of the waste down to the tail centre. Remember to undercut the bottom slightly so the finished vase sits steady. Sand (& finish) the bottom curve. Also apply on-lathe finish to 4 sides.
14. Remove from the lathe and finish underneath.