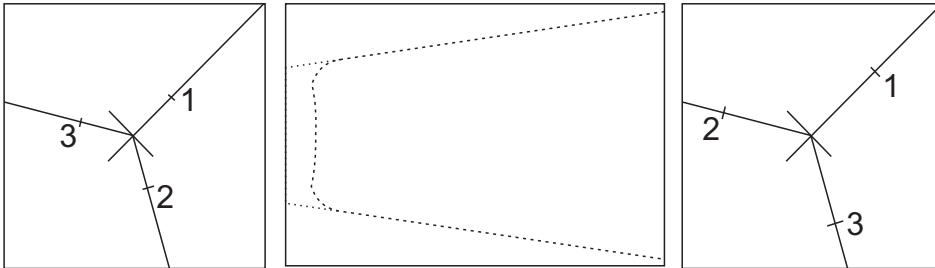
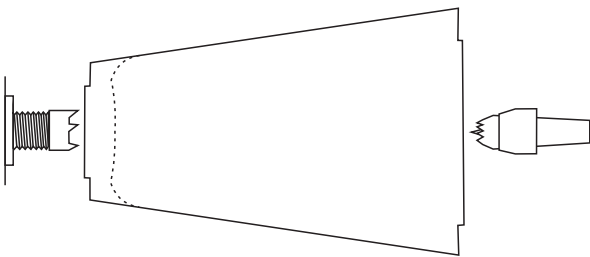
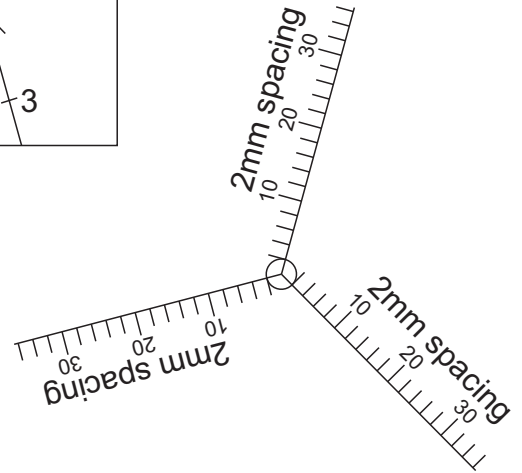


## Triangular Vase

This plan is for a twisted triangular vase similar to those made by Barbara Dill. The dimensions shown here are a starting point for any woodturner who wishes to work on this style of vessel. Plain, moderate density wood is recommended for the best looking completed vase.

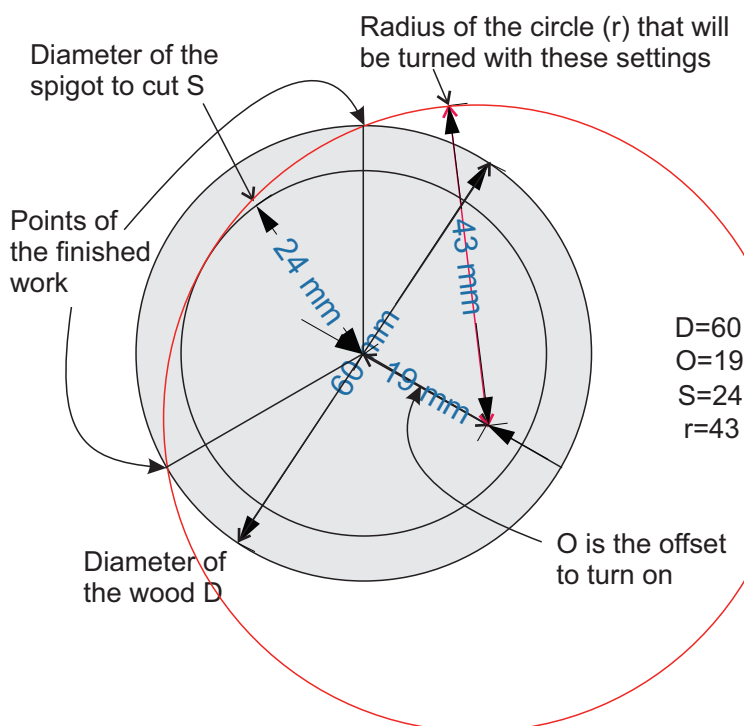


Start with a block that is 150 mm long and 105 x 105 wide. Mark up both ends as shown here. When marking the centres make only one line of the cross extend to the corner as this ensures that both ends have the correct orientation and reduces later confusion between marks. Then use the three-armed offsets marker shown here, or step around with a compass, to make the second and third lines. The offset distances on the bottom are 20 mm from centre and at the top 35 mm from centre.



Mount the wood between centres and turn it to a conical shape that is 55 mm diameter at the bottom end and 100 mm diameter at the top end.

Cut a 1 or 2 mm spigot on each end in positions determined by the table on the next page.



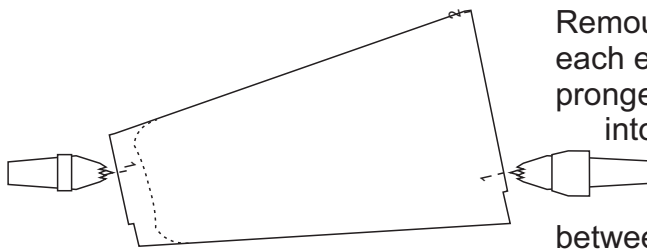
Take it off the lathe and extend each of the three marks on each end a few millimetres down the side of the wood. Write the number for each mark on the side of the wood.

The spigots you have cut and the extended marks on each end are important points to ensure that the thicknesses of the three sides of the vessel are equal.

## Triangular Vase P2

Sizes and offsets for this project

Dia of wood	D	50	60	70	80	90	100	110	120	130	140
Offset to turn	O	16	19	22	25	28	31	34	37	40	43
Dia of spigot	S	20	24	28	32	36	40	44	48	52	56
Radius of cut	r	35	42	49	56	63	70	77	84	91	98

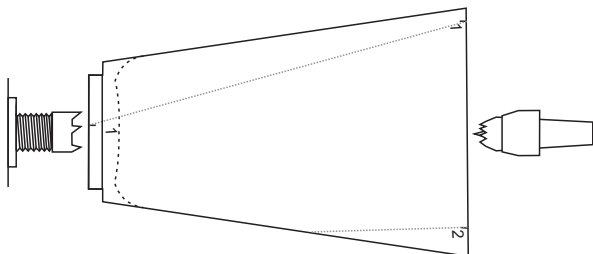


Remount the work using the offsets numbered 1 on each end. Use your smallest step centres or a two-pronged drive centre. Ensure that they are firmly into the wood. You can try to draw a line between the matching numbers on each end. Turn away the surface of the cone between numbers 2 and 3 and exactly down to the shallow spigot at each end.

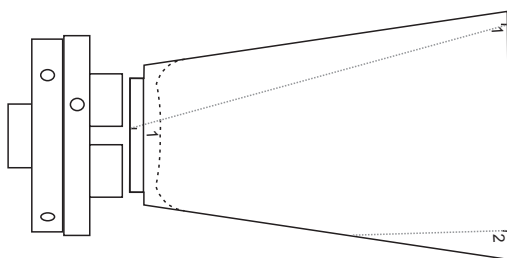
Remount using the offsets marked 2 on each end and turn away the surface of the cone between numbers 1 and 3 and exactly down to the shallow spigot at each end.

Remount using the offsets marked 3 on each end and turn away the surface of the cone between numbers 1 and 2 and exactly down to the shallow spigot at each end..

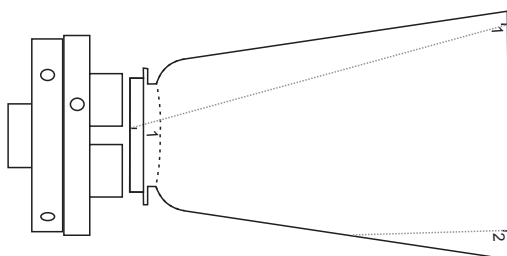
You may have to remount the work on some of the offsets and cut more wood to get a perfect line between the offset points. Sand the three cut faces.



Remount the work between centres. On the foot end turn a spigot to fit a 50 mm chuck.



Remount the work on a chuck. Hollow and sand the inside.



Round off the corners at the bottom and start a parting-off cut. Check, sand and finish all surfaces.

Complete the parting-off cut and hand finish the bottom.