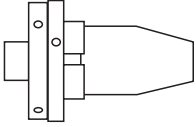


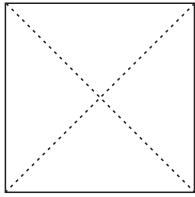


## PERFECT CIRCLE TEMPLATE

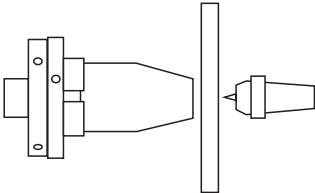
You will need a Perfect Circle Template to determine the outside shape when making a sphere or getting part of a turning to look spherical. Then you may need all or part of a smaller circle if the curve inside the work is to match the curve outside.



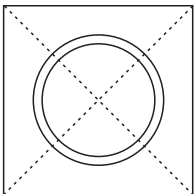
Turn a waste block to have a flat face. The diameter of that face must be a little less than the planned template diameter.



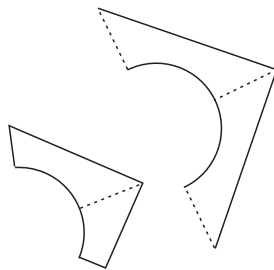
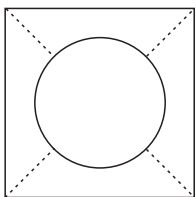
Take a square of thin material to make the template. Thin mdf, hardboard or plywood will work. The width of this should be at least 20% wider than the intended template, possibly more for small templates. Draw sharp thin diagonal lines between the corners. Make a small hole at the centre with an awl.



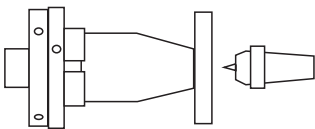
Bring the tailstock close to the work. Apply glue to the face of the waste block. Put the centre of the crossed lines on the template material to the point of the tailstock and use the tailstock to press it to the waste block. Leave the glue to set.



Mark the diameter of the Outside Circle Template you wish to make on the face of the template material. Draw a fine clear line or make a fine shallow cut with a skew tip. If you need a template for the inner curve of the same project then mark the diameter of that curve on the template material at this stage - it may be easier to allow for wall thickness of the finished project while the outside diameter is visible on the template material.



Cut through the template material. This cut must be exactly up to the inside of the line you drew and exactly at right angles to the face of the template material. With this circle of template material cut away from the central part you can now saw it to a hemisphere by cutting exactly on one side of a diagonal line. Or cut it to any other part of a circle that you need.



You can now cut the part still glued to the waste block down to the inner line you drew. Part this off from the waste block. This may be left whole as a template for the inner size of your project. Or be cut into parts as a template for other internal curves.

