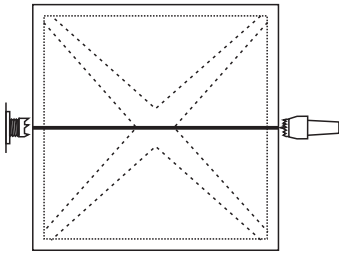
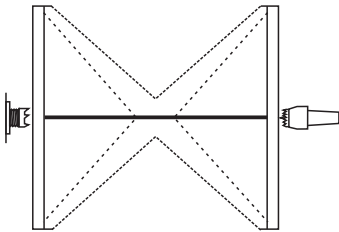


## 4 Point Star Streptoedron (Valleys)

From David Springett in his books Woodturning Wizardry and Woodturning Full Circle.

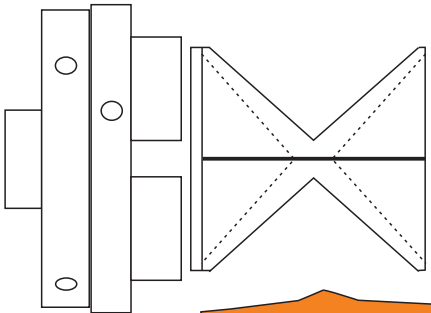


Start with a block that is two halves of a 65 mm cube cut and rejoined with a paper or double-sided tape joint at the centre. Mount this accurately between centres with the joint perfectly on centre and in line with the lathe drive.

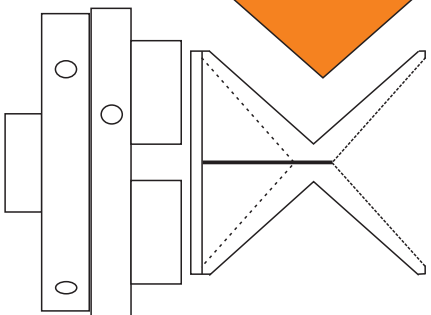


Turn the wood to be round and 60 mm diameter. Measure and mark a line at the exact centre of the length of the wood. Then mark a line 30 mm each side of the centre line. Mark a second pair of lines 28 mm each side of the centre line.

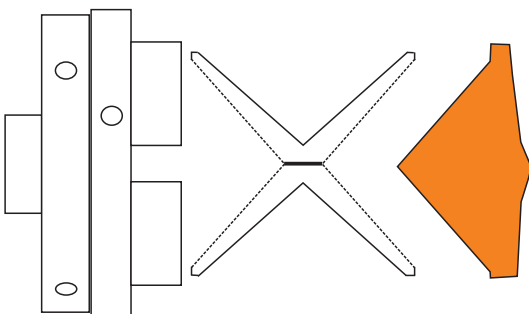
Cut a V shape from the 28 mm pair of lines to 10mm from the centre. Sand this surface.



Maintain the same orientation of the wood and mount it in a chuck. The 60 mm diameter should be a good fit in a 70 mm Nova chuck. Cut the end of the wood to the outer 30 mm marks you made earlier and then draw a new line on the end of the wood 2 mm in from the edge. This line should be a 55 mm diameter circle.



Make a cardboard template that fits the first V cut exactly, including the outer "shoulders" of the cut. Now cut a V into the end of the wood to exactly match that template. Sand this surface.



Turn the wood end for end and remount it in the chuck. Cut the end of the wood to the outer 30 mm marks you made earlier and then draw a new line on the end of the wood 2 mm from the edge. This line should be a 55 mm diameter circle. Cut a V into the end to exactly match the template. Sand this surface.

Remove the wood from the lathe. Split the joint and ensure the two faces of the wood are clean and smooth. Rotate one of the two parts through 90 degrees and glue the wood together. Sand and finish.

