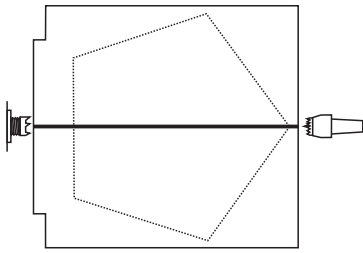
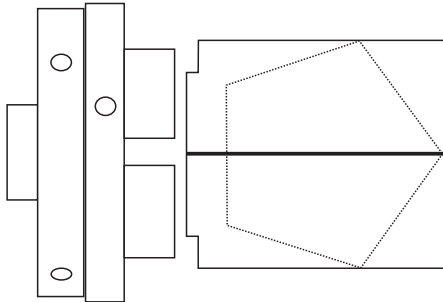


## Pentagon Streptohedron

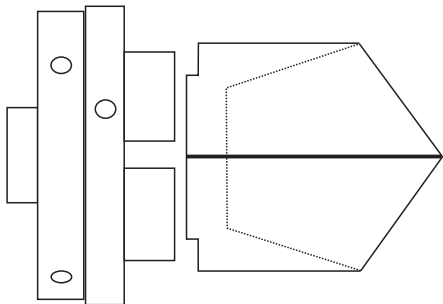
From David Springett in his books *Woodturning Wizardry* and *Woodturning Full Circle*.



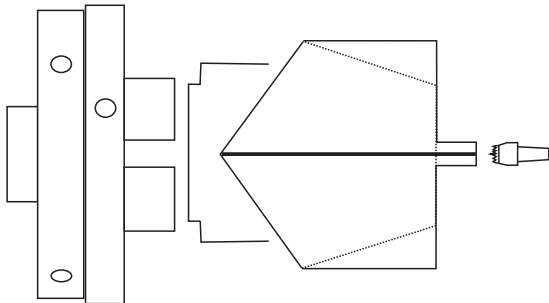
Start with a block that is two halves of a 70 mm cube cut and rejoined with a paper or double-sided tape joint at the centre. Mount this accurately between centres with the joint perfectly on centre and in line with the lathe drive. Turn the wood to be round and cut a spigot for mounting the wood in a 50 mm chuck on one end.



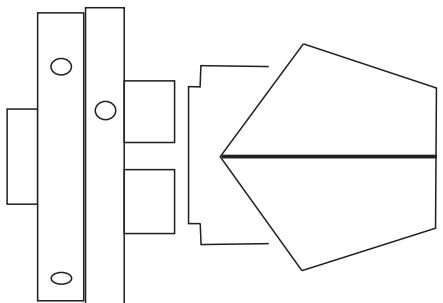
Mount the wood in a chuck and turn it to be exactly 60 mm diameter. Dress the tailstock end of the wood to be perfectly flat. Put a pencil dot at the exact centre of the end of the wood. Draw lines around the wood 22 mm from the tailstock end and 57 mm from the tailstock end.



Cut away the wood between the 22 mm line and the central dot on the end. Sand that end of the octagon.



Remount the wood in a jam chuck which uses hot melt glue to secure the wood. Bring up the tailstock for accuracy and keep it there as long as possible for security of the work. Cut the wood from the 57 mm line towards the centre of the wood so that the end is flat. But leave the bit that the tailstock is pressing on.



Draw a 37 mm dia circle on the tailstock end of the wood. Cut from the original 22 mm line to the 37 mm dia circle. Sand this surface. Remove the tailstock and cut the end of the wood to be perfectly flat. Sand that 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 72 degrees and glue the wood together. Sand and finish.

