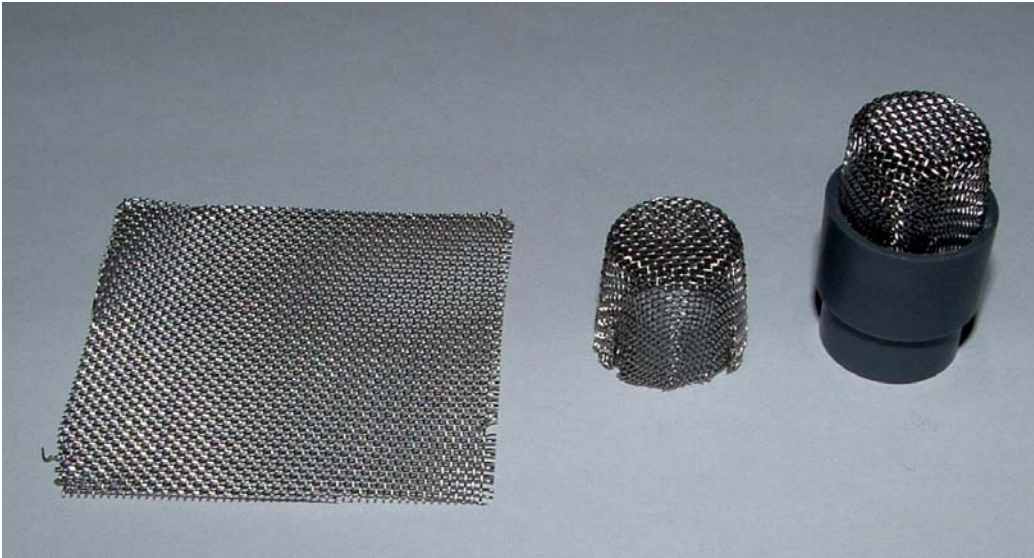
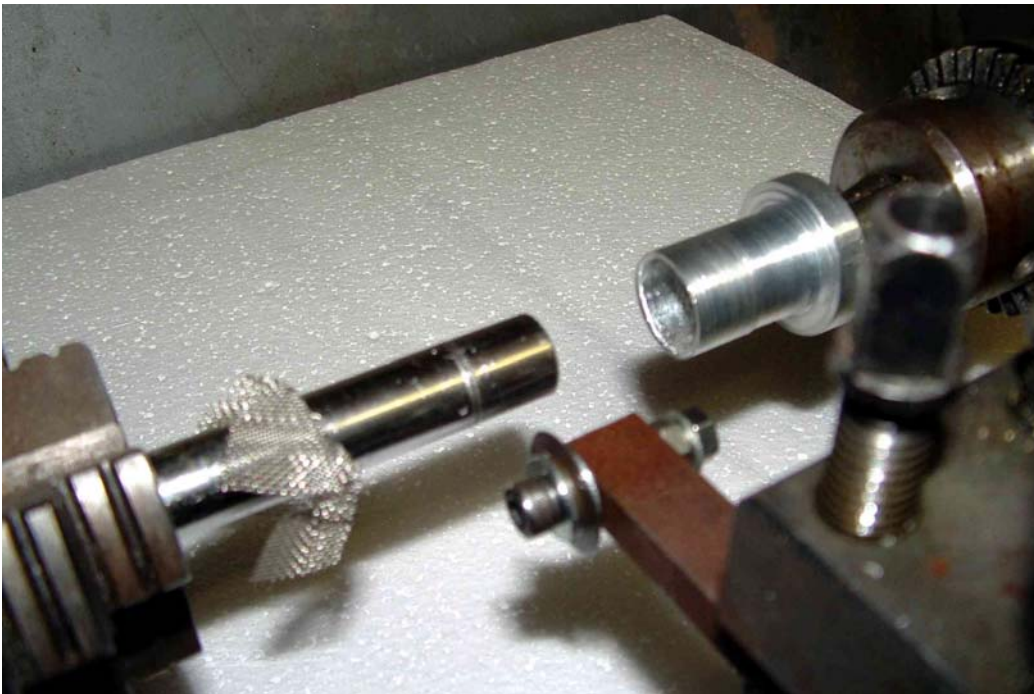


Forming & trimming wire mesh / cloth on a lathe.



Mesh cloth is 0.25mm wire diameter. The formed shape is 16mm OD x 16mm tall, it fits into a 16mm counter bore in a piece of PVC.



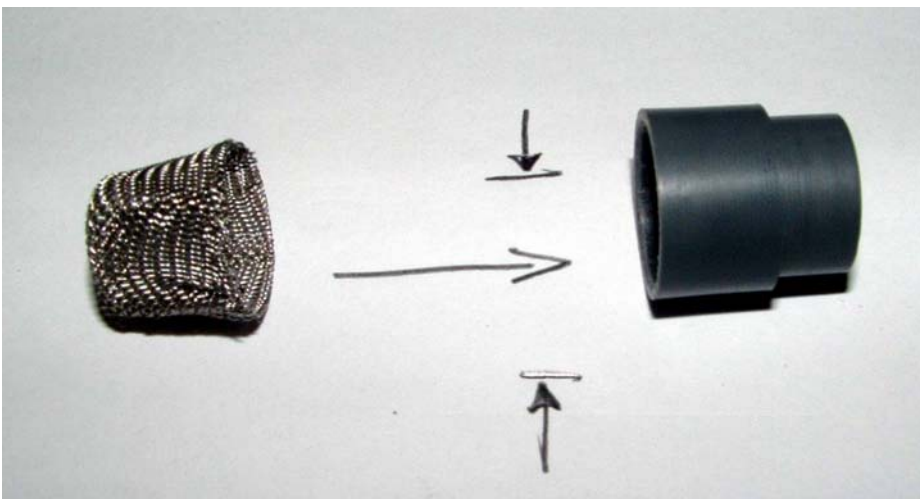
The S/S bar in the lathe chuck is 16mm OD with a 2mm radius on the end.
The die is on a live centre and has a 18mm bore x 16mm deep.



Mesh is placed between the bar and the die & tailstock fed in to form the shape.
I've yet to try using a lubricant and will probably try a brass die rather than the gummy aluminium.



The bar fitted to the tool post has a cutting wheel (from a pipe cutter perhaps) fitted to it.
Feeding the cutting wheel against the bar cuts the surplus mesh off cleanly. The lathe speed used is 150rpm.



What's a nice way to compress the formed mesh to fit it into the PVC bush? A tapered sleeve like a piston ring compressor won't work. Something like a set of "drilled out" pliers may work???????

8 February 2010