# Sanding Disk and Table

This project is a sanding disk to be held in a chuck on your lathe and a table held in place of the tool rest. The sandpaper can be attached to the disk with velcro or removable adhesive. Before starting this project you should decide on the size of sandpaper disk you will use. Velcro-backed sandpaper disks are various set sizes. Clean backed sandpaper is commonly not more than 230mm wide. You can choose or change the method of attaching the sandpaper later. This project is to make a sanding disk and table.

The Sanding Disk
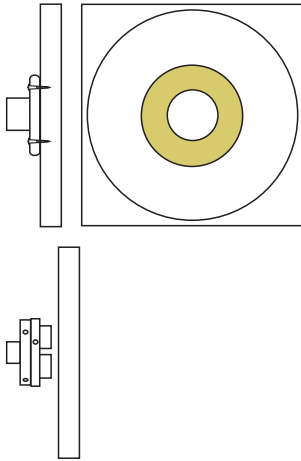
For the disk, good quality 20mm plywood or 25mm mdf is recommended. Sawn timber can be unbalanced, low quality ply may break apart and manufactured materials like chipboard can split. Cut the disk material to a square a little larger than the disk you plan to use. Mark the centre. You may now attach this to the lathe using a faceplate, faceplate ring, glued and screwed on extra wood for a spigot, or cut a dovetail or spigot into the wood. If you make these cuts, then generously apply CA glue to the cut surfaces to ensure they are hard for many future uses. When the glue is set cut with the chisel again to smooth the surface.

Mount the wood on the lathe using the attachment of your choice. Turn it round and down to 200mm. Sand the cut outer edge. You can now sand the face and apply glue for sandpaper or a sheet of velcro.

The Table
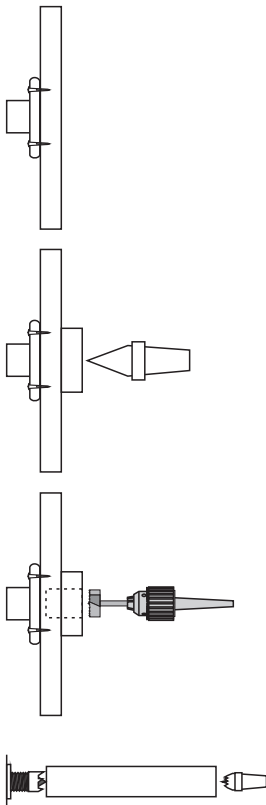
Any flat and firm wood 20mm or more thick is recommended. Cut to about 200mm square. Draw lines corner to corner to mark the centre. Screw a faceplate at this centre using very short screws, or use Cole Jaws to mount this wood on the lathe. Or you can do all this work on a drill press.

Cut another piece of 20mm or more thick wood to about 60mm square to be an add-on block. Draw lines corner to corner to mark the centre. Glue and screw this wood to the centre of the table plate. Place the screws towards the corners of the wood.

Check the dimensions of the lathe you intend to use this sanding table on. Particularly the length and diameter of tool rest stems. Drill a hole the size of your tool rest stems through the add-on block and well into the sanding plate. Remove the faceplate.

Between centres turn a length of hard wood to the diameter of your tool rest stems and about the length of the spindle to bed dimension of your lathe. Glue this into the hole drilled in the table plate. Take the faceplate off the table plate.
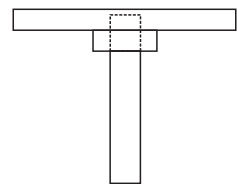
You now have a table to hold work up to your sanding disk.

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