

# WOODWORKER'S JOURNAL

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## In this plan you will be getting:

- Step by Step construction instruction.
- A complete bill of materials.
- Exploded view and elevation drawings.
- How-to photos with instructive captions.
- Tips to help you complete the project and become a better woodworker.



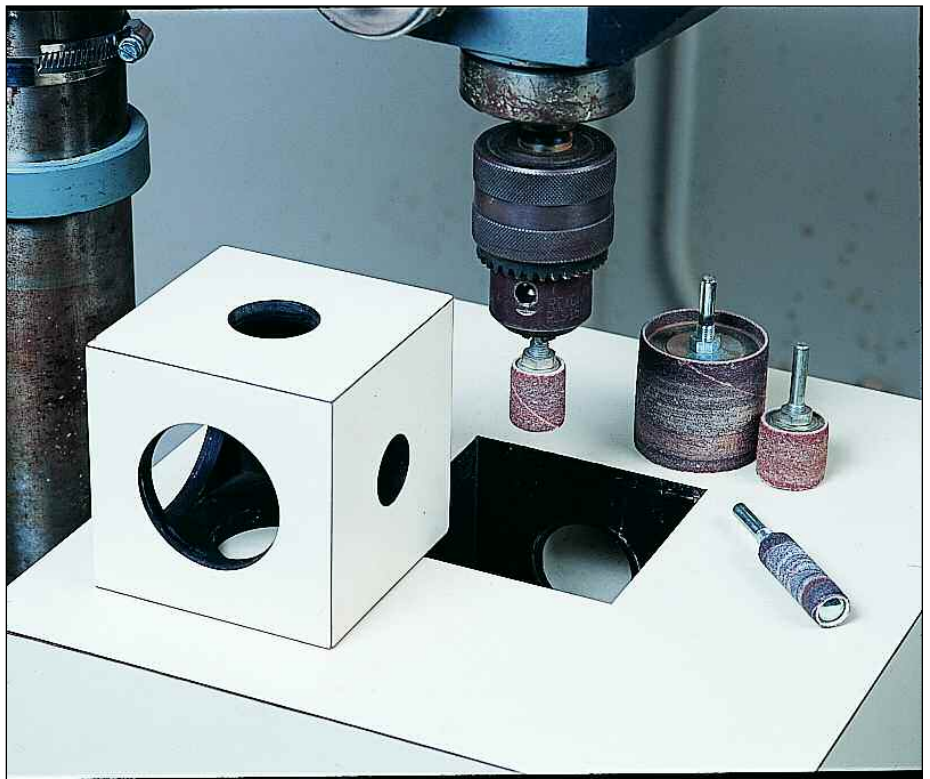
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## Deluxe Drum Sander



Published in Woodworker's Journal "The Home Woodworker: Classic Projects for Your Shop and Home"

**\$7.95**

WJ122

# Deluxe Drum Sander

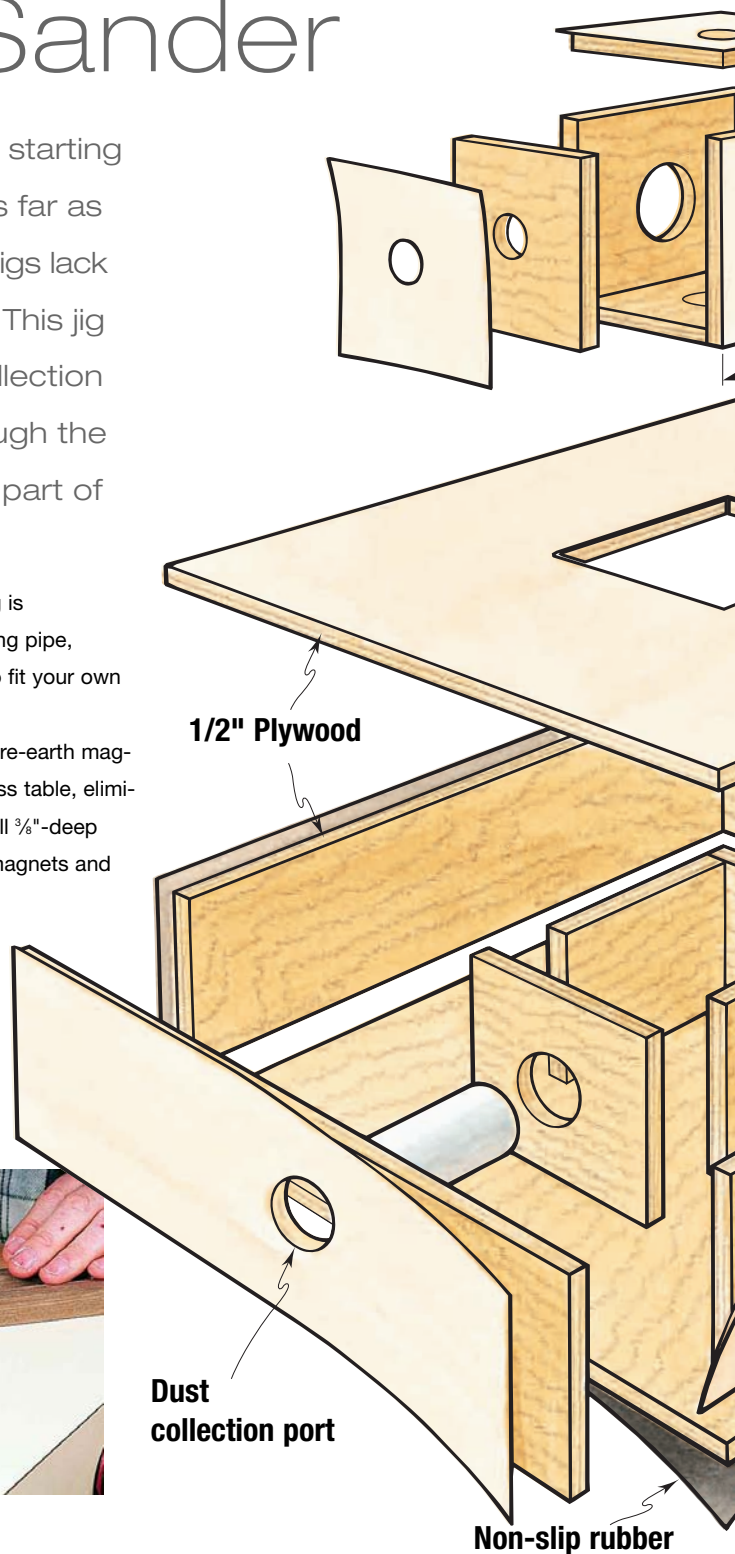
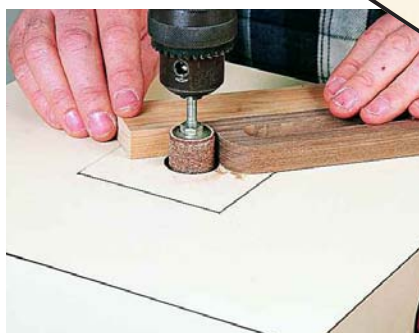
If you want to build a better mousetrap, the best starting point is a list of the limitations of your old one. As far as drum sanding on a drill press goes, most sanding jigs lack dust control, and the drums tend to clog too soon. This jig addresses both problems: It has a built-in dust collection port, and the drum can be raised or lowered through the tabletop, so you can work with a new, unclogged part of the sleeve as often as needed.

There's another advantage to this jig: The cube in the center can be revolved to present different sized holes for various drum diameters, so it supports the workpiece right up to the drum. That makes it easier to sand thin or delicate stock that might otherwise break off or get trapped.

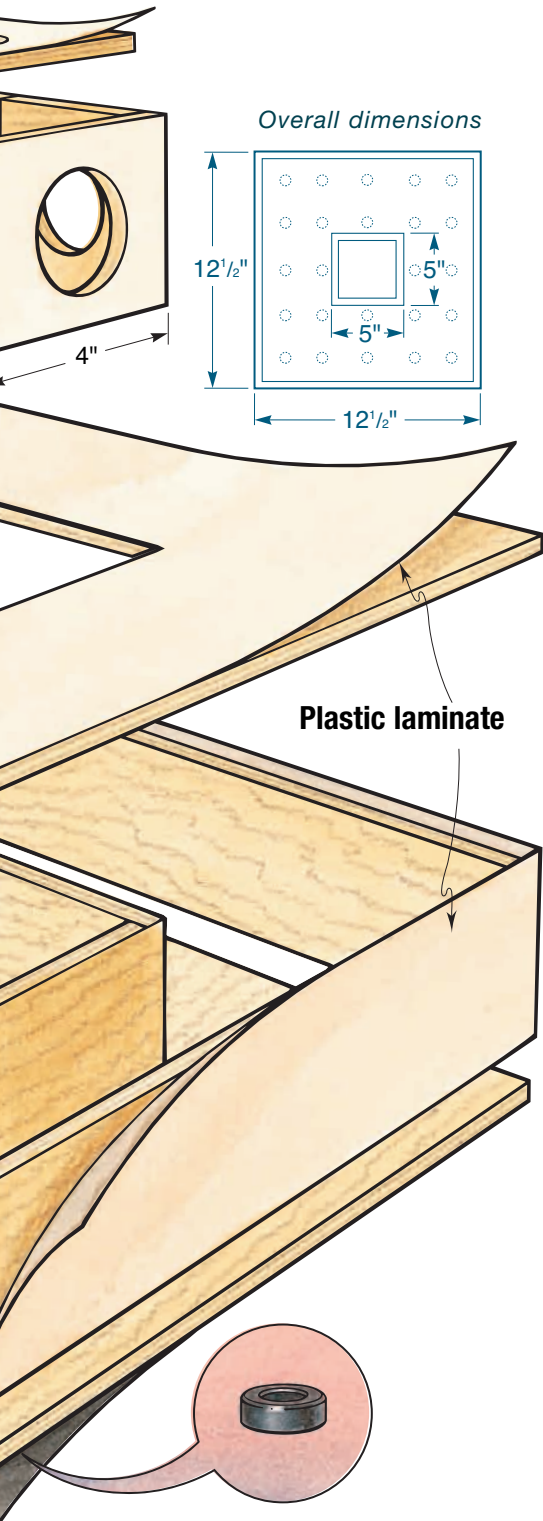
The inner cube measures 4" on all sides, and we built it from 1/2" Finnish birch plywood. Measure your six most frequently used drums and drill appropriately sized holes in the cube. Then construct the main box (also 1/2" stock) so that the 4" cube is absolutely flush with its top.

The vacuum port in the jig is standard 1 1/4" ID plastic plumbing pipe, but you'll have to adjust that to fit your own shop's dust collector hose.

Two dozen 3/4" diameter rare-earth magnets hold the jig to the drill press table, eliminating the need for clamps. Drill 3/8"-deep holes in the bottom for these magnets and secure them with silicone adhesive. Finally, cover the bottom with non-slip rubber (the type used on steps or ramps), and you're ready to start sanding.

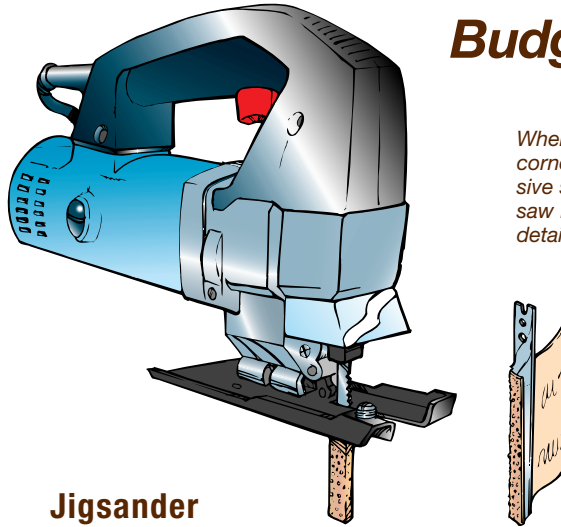


## Quick Tips



## Budget Beaters

When you need to sand tight corners, try wrapping self-adhesive sandpaper around your jigsaw blade to create an instant detail sander.



### Jigsawer

One way to power-sand those intricate cuts that no sander can reach is to wrap a piece of self-adhesive sandpaper around the blade. You'll have to open the cooling blocks on your jigsaw for this trick to work, and use a stiff blade. There's no need to wrap the blade with excess paper; just two wraps should do it.

### Budget Bushings

When a number of perpendicular holes have to be drilled, drill bit guide bushings sure come in very handy. If you're ever caught without one, try grabbing an appropriate sized T-nut instead. Install one in a piece of scrap and drill it out for the correct size drill bit. This trick won't hold up in daily use, but it sure works well for 10 to 20 holes.

### Pizza Pedestals

Save the plastic spacers that come with your home-delivered pizza. After you collect a few, they make handy supports for elevating small projects when spraying or brushing on a finish. Sure beats excess finish sticking a project to the newspaper it's sitting on!

### Options for Drawing a Smooth Curve

An old band saw blade works wonderfully for drawing smooth curves. Drive nails at key spots along the waste side of the curve, then bend the blade against the nails to draw the final curve.

Another option for scribing smooth curves is to use a piece of stiff electrical wire. Ten- to six-gauge wire will provide enough stiffness for the wire to hold its shape but still be flexible enough to bend easily to shape.

