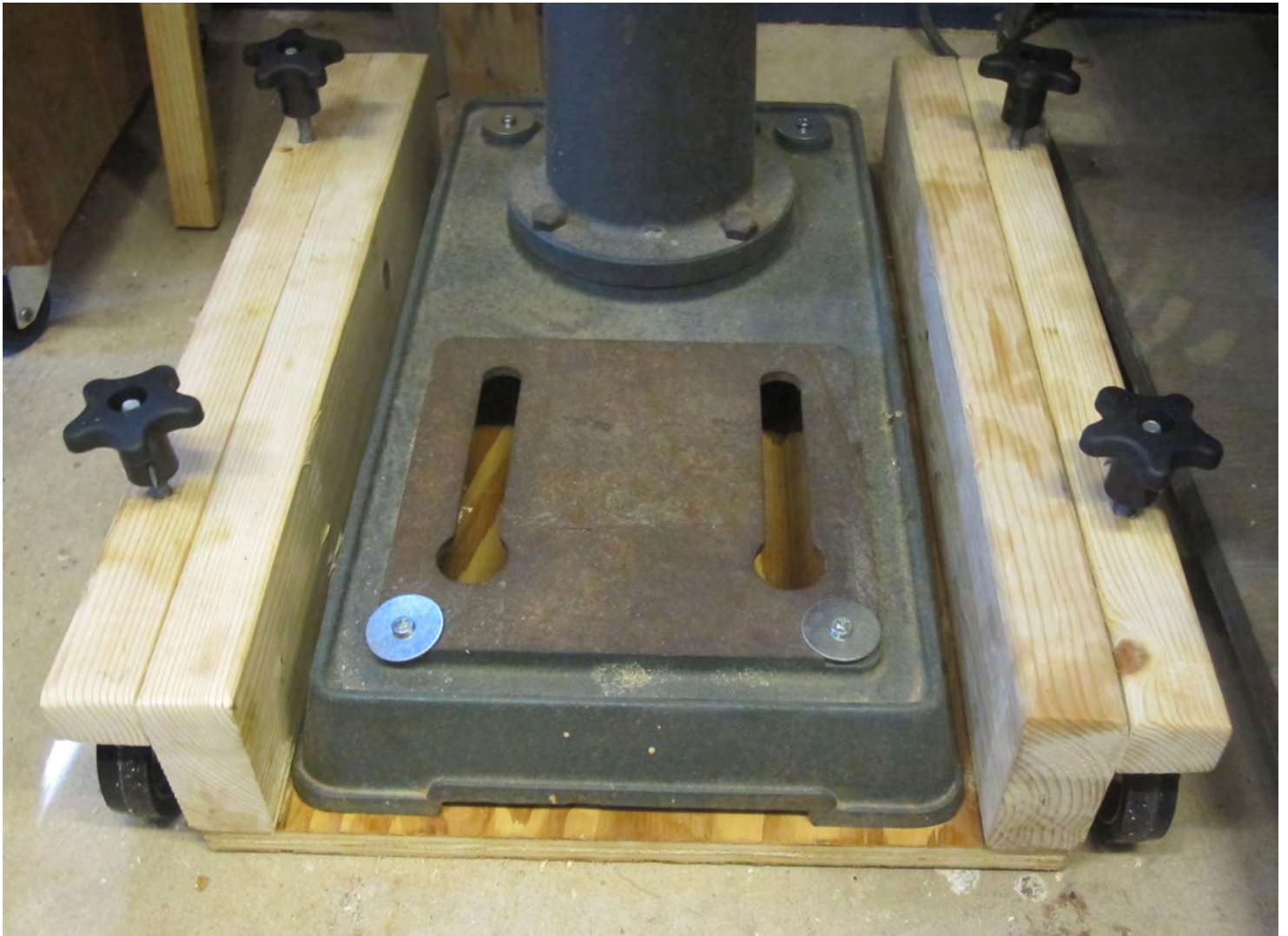


Drill Press Mobile Base



Parts

- 4 2 x 4 x 19 1/2" Long
- 4 3" Diameter Wheels
- 4 5/16 X 3" Lag Bolts
- 4 5/17 x 5" Carriage Bolts
- 8 Washers
- 1 Plywood Cut to fit Base, 19 1/2 " X 15"
- 4 Star Knobs

Drill Press Base

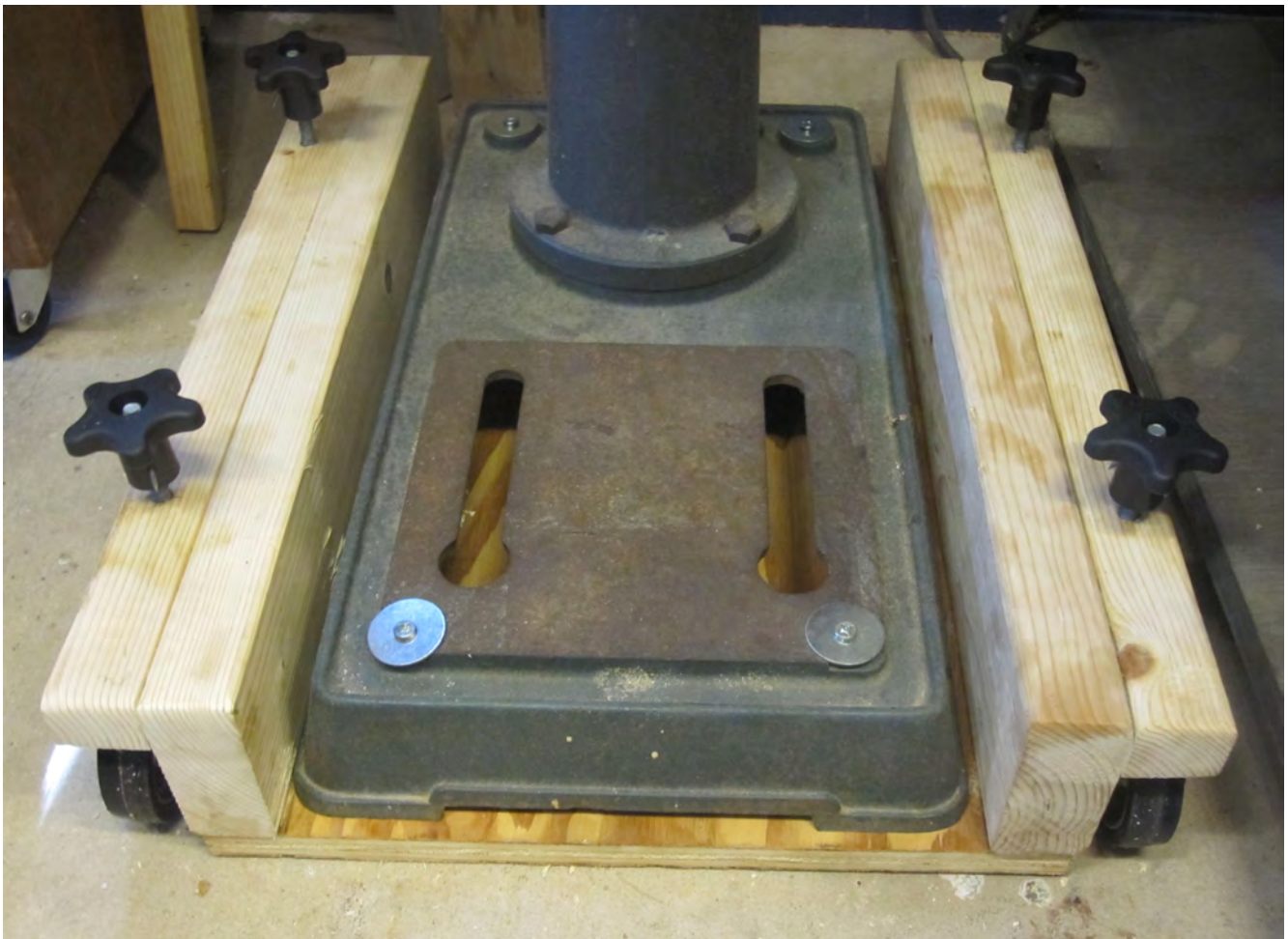
By
Malcolm N. Beasley I
July 2014

Drill 5/16" + Hole for
Carriage Bolts



Drill Hole and add Pin
to Star Knob so that
Carriage Bolts will
turn with Knob to raise
or lower base.





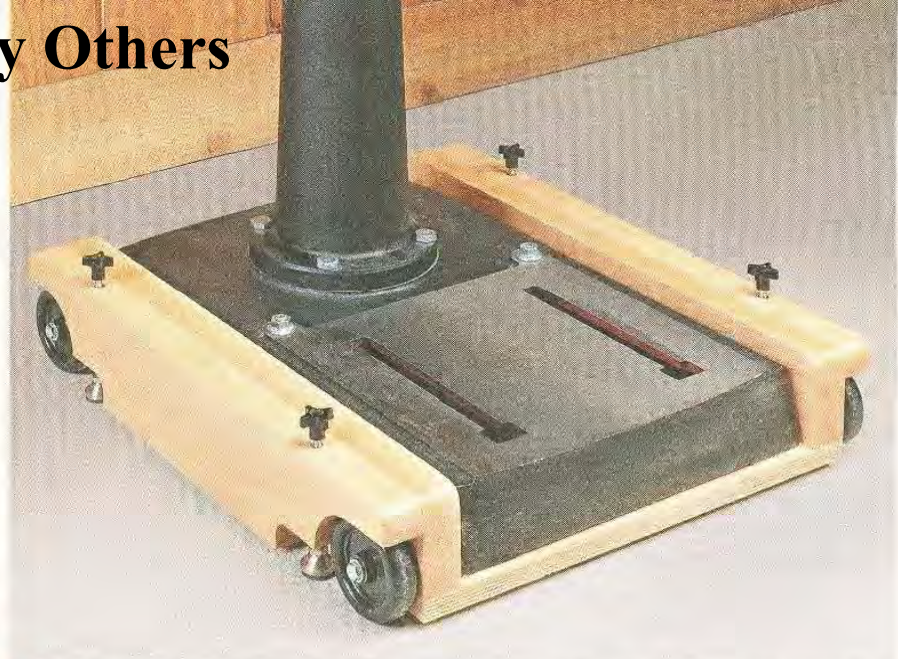
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mobile Base

Adding a mobile base to a drill press can make it easier to relocate the tool or simply clean underneath. This mobile base has several worthwhile features besides being easy to build.

First, the low center of gravity keeps the drill press stable and less likely to tip. The large rollers make it easy to move around the shop, though you'll still want to keep the top-heavy drill press under control as you move it. Finally, the levelers lock the drill press in place for stability.

Simple Construction. The mobile base starts with a plywood panel. Two thick cleats attached to the upper face help bear the weight of the drill press. The wheels are fastened to the cleats. Wheel blocking adds stiffness and strength plus provides convenient mounting points for the levelers and their knobs.



▲ **Stability.** Moving a top-heavy drill press can be a chore. This mobile base not only makes the task easier, but once it's in place, the levelers lock it in position and add stability.

Base. You'll start by sizing the width of the plywood base panel to fit your drill press, adding an extra 2½" to account for the cleats, as shown in Figure 1. Drill the series of countersunk holes on the bottom face. These holes are used to attach the cleats you'll work on next.

Cleats. I cut the cleats to size and drilled stopped pilot holes for the lag screws that serve as wheel axles. At this point, you can attach the two cleats to the base with glue and screws.

Wheel Blocking. The two pieces of wheel blocking come next. They're shown in Figure 2 and look like the fenders on an automobile. I cut the rough blanks to size and then drilled the holes for the levelers. A hole saw makes it easy to rough out the cutout around the wheels. The band saw makes quick work of completing the shape.

After a little sanding, apply glue and clamp the wheel blocking to the base and cleats. You'll want to make sure the top edges are flush with the cleats as you apply clamping pressure.

Final Details. The last few details involve rounding over the top corners and then installing the hardware. To round over the corners, I turned to the router table. Flip the base upside down to rout the ½" roundover illustrated in Figure 2a.

Figures 1 and 2 show you how the wheels and levelers are installed. After applying a clear finish, you can attach the base to your drill press. I used a pair of lag screws to do this.

