

A Benchtop Shoe, Version 1.0

By R. G. Sparber

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Marv Klotz from [Homemadetools.net](https://www.homemadetools.net) inspired this tool
(<https://www.homemadetools.net/homemade-panavise-hook>)



My workshop contains nine dressers that, in a previous life, saw service in Freshman dormitories at Arizona State University. Although they only cost \$5 each, they have served me well for over 15 years.

Their only deficiency is the lack of a clamping lip on the front and back. Marv's "Panavise Hook" to the rescue!

Since I do not own a Panavise, yet, I've decided to call my version of his idea a "shoe." It clips on the top of any of my dressers and resists pushing and lifting of the front lip.

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My “hook” consists of a length of architectural² extruded aluminum. It is secured with countersunk screws (blue arrows). The holes above these screws provide access for my screwdriver. The bottom access hole was tapped 3/8-16 for a vertical setscrew (black arrow). At the top, I tapped 1/4-20 for a horizontal setscrew (green arrow).



At the other end of the board is a piece of architectural extruded aluminum angle. It is secured the same way, with 3 countersunk screws.



I install the shoe by sliding the channel under the front lip of the dresser. When it makes contact, the angle drops over the far edge.



If I want to prevent the shoe from sliding sideways, I tighten this thumbscrew. I can tighten the vertical setscrew to stop the shoe from lifting.



I can also slide the shoe sideways to get a clamping lip on the flank of the dresser.

² This means the inside corner has no fillet.



The board was first drilled 3-inches on center using a #4 drill. Then I chucked up a length of 1/4-20 threaded rod and tapped all of the holes.



Here I have secured a fence.



Each hold-down clamp is secured with a chair leg adjustable foot³ and a Socket Head Cap Screw. To prevent screws from pulling out of the wooden threads, I screw in the chair leg bolt in about 1/2-inch.

It is easy to add tapped holes since this is just wood. If I needed more pulling strength, I could add a 1/4-20 insert or a pronged T nut. There is a 1/8-inch gap between the bottom of the board and the top of the dresser.

³ Chair leg *foot* installed in a *shoe*...

Acknowledgments

Thanks to Marv Klotz for yet another inspiring tool.

I welcome your comments and questions.

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