

Self Centering Pen Vise

Version 1.0

Safety First



Disconnect saw from power source before fitting or removing insert.



Always wear proper ear protection when working with machinery.



Use caution when handling sharp objects (saw blades, router bits, drill bits and so on). Use protective gloves whenever possible.



Always wear proper eye protection when working with machinery and tools.



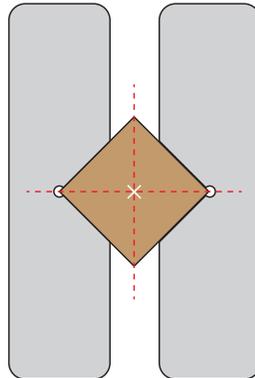
Always wear proper respiratory protection when working near airborne dust particles.

Please read and fully understand any and all safety materials that came with your power tools or machinery before operation. Always follow all safety guidelines set in place by the power tool or machine manufacturer.

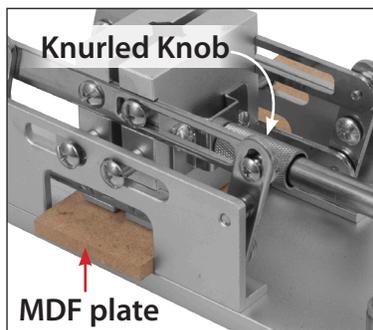
Basic Setup and Use of Vise

Depending on the size of your drill press table, it may be necessary to mount the vise on to a wooden platform. Mounting the vise to a wooden platform makes it easier for clamps to reach and secure the vise.

1. Locate the center of your blank that you are going to drill. To do this you can mark diagonal lines from the corner to corner of the blank. Where the lines intersect, make a mark, this is your center point. You can also use a center finder for round and square blanks to achieve this.



2. Place one of the MDF plates into the opening below the vise. The MDF plates act as a zero clearance of sorts to prevent tearout. You can move the MDF plate side to side for a fresh surface as you change drill bit sizes.

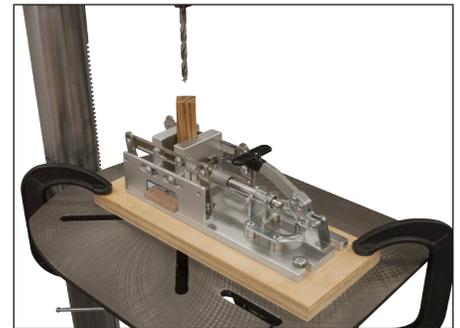


3. Place the toggle clamp lever into the down position. Rotate the knurled knob counter clockwise until there is enough space for your blank to fit into the cutouts of the jaws. With the center marked end of the blank facing up, turn the knurled knob clockwise so that the vise jaws touch the corners of the blank snugly.

4. Raise the toggle lever and turn the knurled knob one or two rotations clockwise. Push the toggle lever back down and this should provide enough pressure to secure the blank. If so desired, you may adjust the pressure to your liking by adjusting the knurled knob.

5. On the drill press, set the depth of the bit so it will not contact the drill press table when drilling.

6. With your blank secured in the vise, align the center mark on your blank to the center of the drill bit on the drill press and clamp the vise to the drill press table. Drill the blank.



7. Once the vise is centered on the drill press, you will not need to move the position of the vise. If your blank size changes, you will only need to adjust the knurled knob shown in steps 3 and 4.

*This vise can also be used to drill bottle stopper blanks!
The vise will accept blanks up to 2-1/8" diagonally or up to 1-1/2" square.*

