

Instructions

The advantages of this vise are obvious when movement of the jaw is studied. (See Figure 1 and look at the bottom of your vise.) The tightening force (F1) produces not only a force against the part (F2), but also a force pulling the jaw downward (F3). Therefore, angle "A" must exceed 45° in order to make force F3 greater than F2. This keeps the movable jaw from "tipping" back. Also note that extreme clamping angles beyond 60° start to apply much downward pressure but not much horizontal force is directed to holding the part. Moving the pull-down barrel to the proper slot keeps the adjustment within the most effective clamping range.

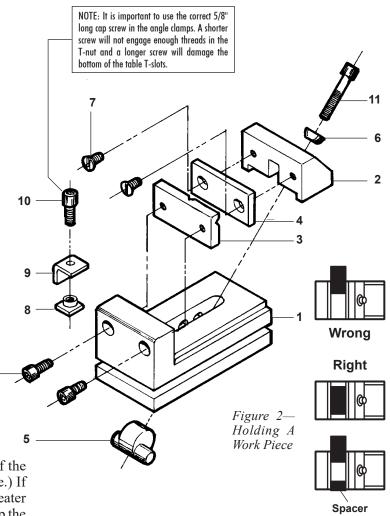
To clamp a part, place the jaw in approximate position and start tightening the adjustment

screw at an angle of 45° or greater. (The back face of the movable jaw is machined at a 45° angle for reference.) If the angle of the adjustment screw gets up to 60° or greater and you still haven't drawn down on the part, loosen up the screw a little and move the pull-down barrel to the next slot and retighten.

Figure 2 shows the proper way to hold a part in the vise (shown in black). If the part cannot be centered, use a spacer to help keep the jaws parallel. This vise has been designed to accurately hold objects being machined. It is not recommended for use as a bench vise or for clamping parts in such a way and with such force as to adversely affect its accuracy.

Thank you, Sherline Products Inc.

NOTE: To keep the surface of your table from being marred, we recommend you take a file and slightly soften or deburr all the edges of the angle clamps that contact the table.



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INCORPORATED 1974

Mill Vise

P/N 3551

Parts List REF. NO. PART DESCRIPTION NO. REQ. NO. 1 1 35100 Vise body 2 1 35020 Movable jaw 3 35030 Fixed jaw insert 1 4 1 35040 Movable jaw insert 5 1 35120 Pull-down member 6 1 35060 Convex washer 7 2 Flat head screw, 6-32 x 3/8" (2) 35070 8 2 30561 T-nut, 10-32 (2) 9 2 35580 Hold-down clamp (2) 10 4 40330 SHC Screw, 10-32 x 5/8" (4) 11 1 35130 SHC Screw, 10-32 x 1-5/8"

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