

# Model D4074 Multipurpose Vise Instruction Sheet



Phone #: (360) 734-3482 • Online Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz

## Specifications

Flat Jaw Size .....	5" x $\frac{7}{8}$ "
Maximum Jaw Opening .....	5"
Pipe Jaw Maximum Diameter .....	2"
Maximum Throat Depth .....	$2\frac{7}{8}$ "
Mounting Pattern.....	$4\frac{7}{8}$ " / 4-hole square
Base Swivel Capability .....	360°
Jaw Rotation Capability .....	360°
Weight .....	44 lbs.

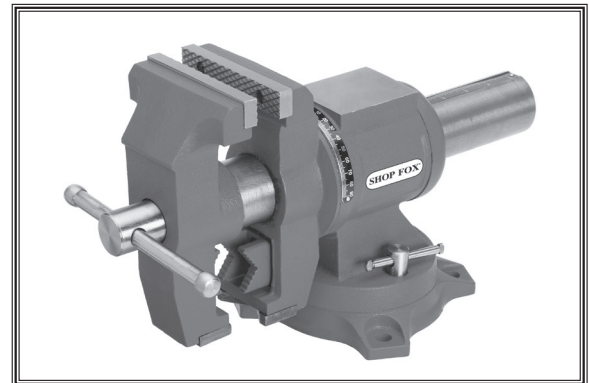


Figure 1. Model D4074.

## WARNING

This vise is not a toy. DO NOT use as a crushing tool and never clamp a container with compressed or explosive contents. Serious injury may occur if this vise is used incorrectly.

## Placement Location

Consider the existing and anticipated needs, the size of the material to be held in the vise, and the space for auxiliary stands, work tables or other machinery when establishing a location for your new vise. See Figure 2 for the minimum working clearances.

## Workbench Load

The D4074 Multipurpose Vise weighs 44 lbs. Some workbenches may require additional reinforcement to support both the vise, the workpiece, and any hammering or prying forces that may be applied to each.

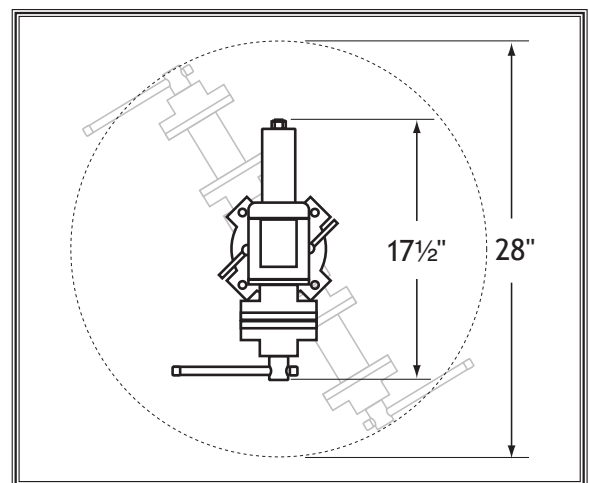


Figure 2. Minimum Clearances.

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## Mounting

The multipurpose vise must be mounted to a workbench to avoid accidental tipping. If you intend to use the vise for portable applications, mount it to a heavy metal or plywood base (at least 1" thick) that is wide enough to prevent tipping or rocking during use, then clamp the base to a workbench or table.

To mount the multipurpose vise, do these steps:

1. Place the vise in its chosen location, making sure that all four corners of the vise sit flat on the mounting surface.
2. Transfer the mounting pattern directly from the vise to the workbench by marking through the vise mounting holes.
3. Attach the vise to the workbench using one of the methods outlined below.

**Note:** *DO NOT overtighten the mounting bolts or you may crack the vise base.*

The strongest mounting option is a "Through Mount" (Figure 3) where holes are drilled all the way through the workbench, and hex bolts, washers, and hex nuts are used to secure the vise to the workbench.

Another option for mounting is a "Direct Mount" (Figure 4) where the vise is simply secured to the workbench with a lag screw.

4. Check the stability of the mounted vise to make sure it can be used safely.

## Operations

To maximize the life of your vise, follow this advice:

- Do not use cheater pipes on the handles or hammer the levers to increase tightening force.
- Do not heat or weld on the vise.
- Do not store the vise in wet or damp locations.
- Only use the anvil for light tapping and workpiece shaping. Do not use large hammers and avoid hammering directly on the jaws.
- Do not pry on clamped materials in such a way that may bend or break the vise.
- When loosening the jaws, make sure your hands will not hit the workpiece, workbench or vise when the handle breaks free.
- Every few years, disassemble, clean, and lubricate the vise using lithium grease. Otherwise, lubricate as necessary.

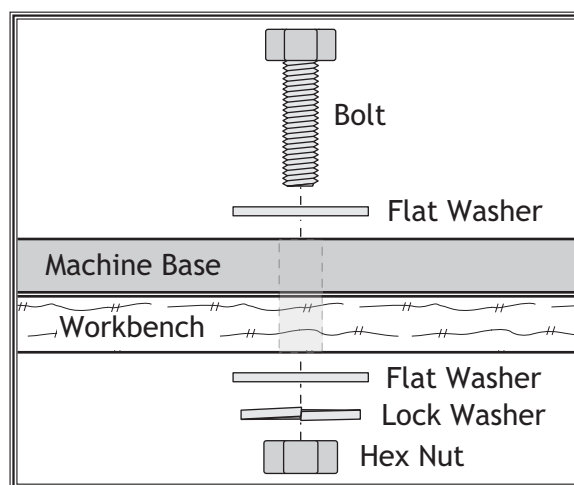


Figure 3. Example of a through-mount setup.

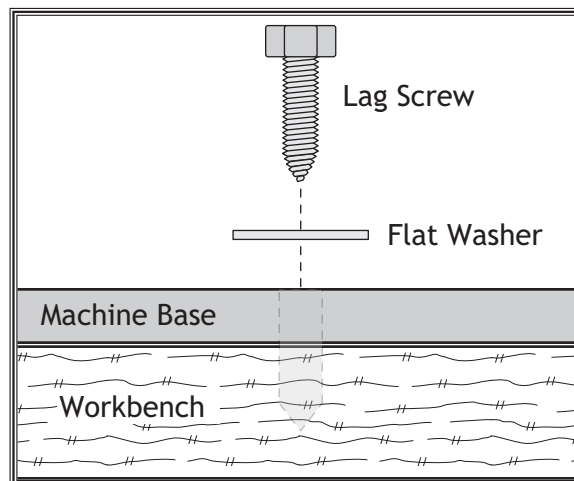


Figure 4. Example of a direct-mount setup.

## Features Overview

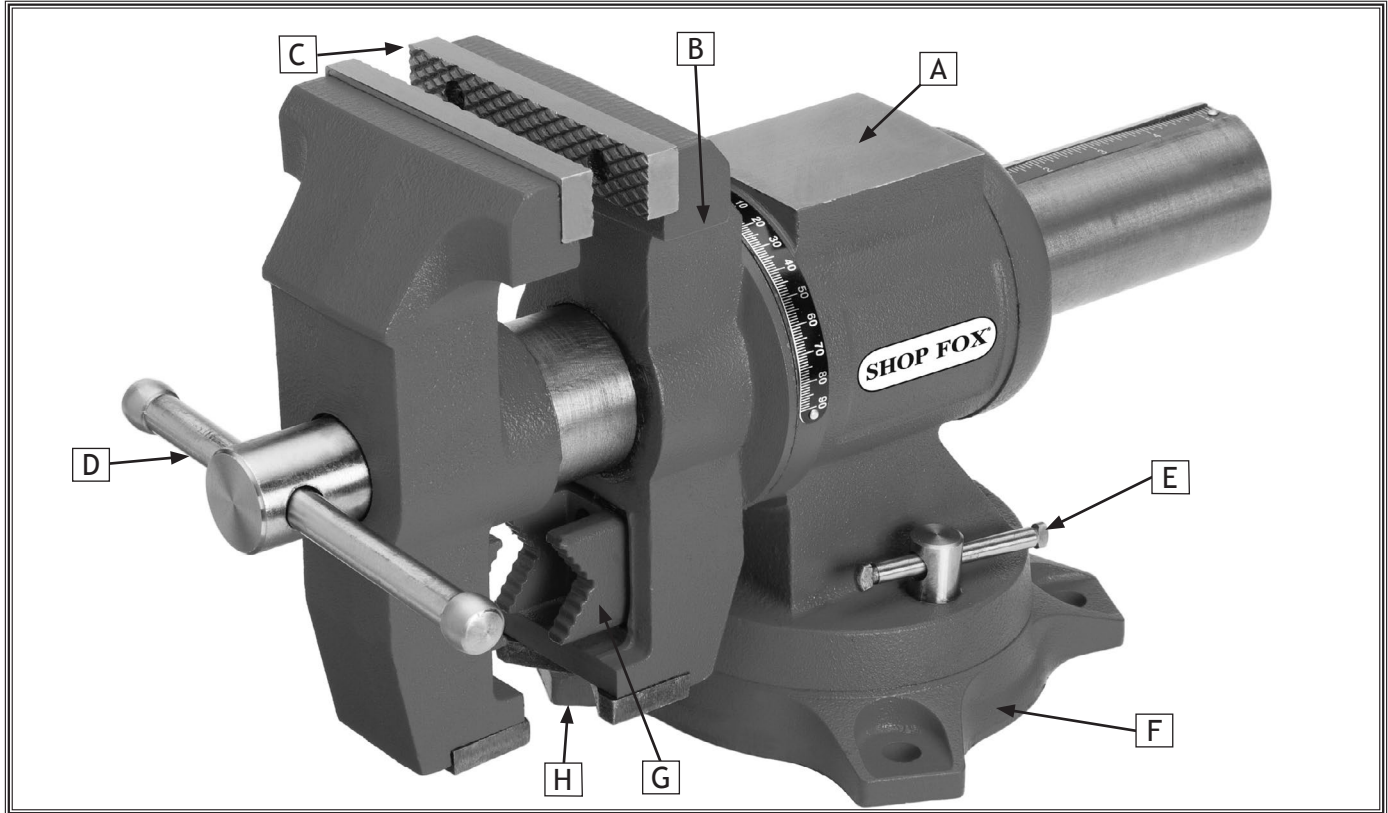
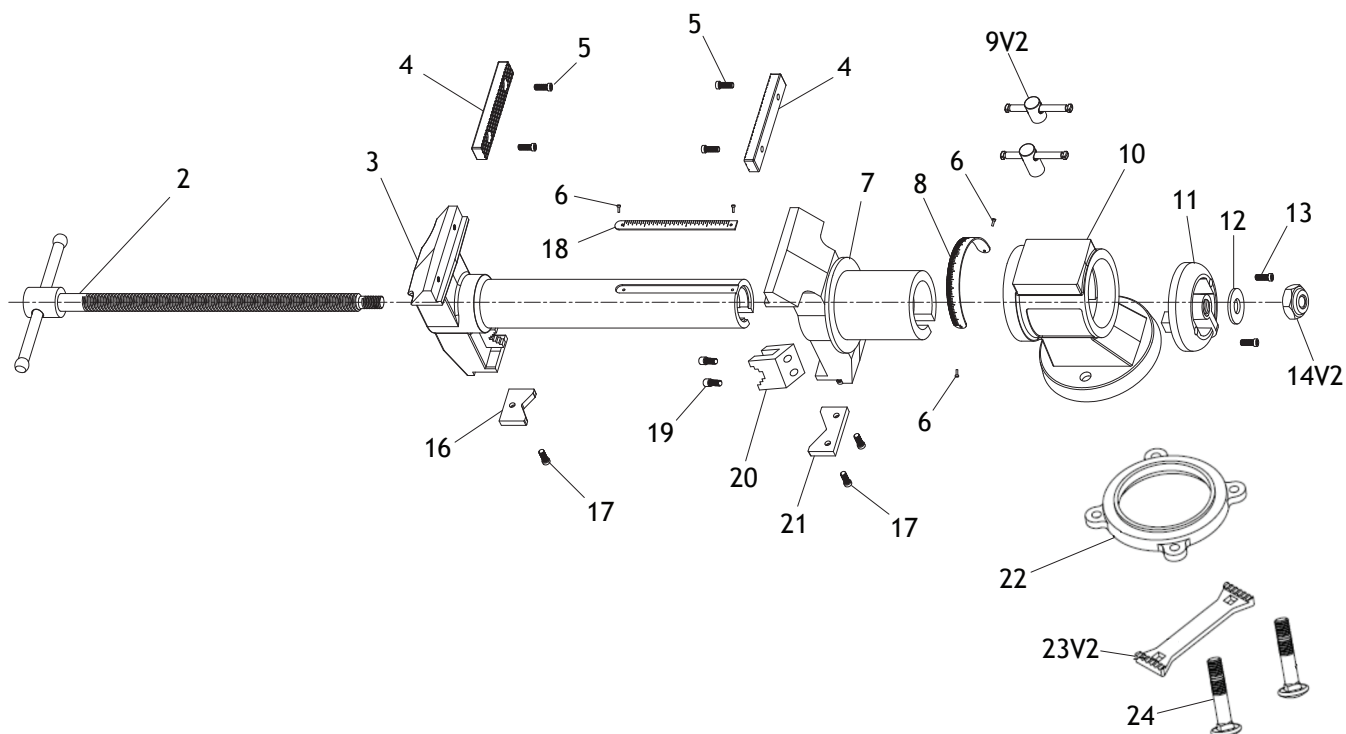


Figure 5. Features overview.

- A. **Anvil Face:** Provides a strong and stable surface for hammering malleable materials with a small hammer.
- B. **Rotating Jaws:** Allow 360° of movement and are locked by tightening the jaw. Scale provides approximate angle readings through 180°.
- C. **Standard Jaws:** Clamp flat-edged workpieces.
- D. **Main Vise Handle:** Used to clamp and lock the jaws.
- E. **Base Locking Levers:** Allow the base to be swiveled 360° for maximum flexibility and locked for stability.
- F. **Mounting Base:** Used to attach the vise to a workbench or other suitable surface.
- G. **Pipe Jaws:** Clamp pipes and other cylindrical workpieces. For easier access, they can be positioned at the top by rotating the main jaws.
- H. **Cut Jaws:** Clamp irregularly shaped objects or pieces of pipe that are too short to be clamped in the pipe jaws.

## Parts



REF	PART #	DESCRIPTION
2	XD4074002	LEADSCREW ASSEMBLY
3	XD4074003	ADJUSTABLE JAW
4	XD4074004	JAW FACEPLATE
5	XD4074005	PHLP HD SCR M6-1 X 14
6	XD4074006	RIVET 2 X 4MM NAMEPLATE, STEEL
7	XD4074007	BACK JAW
8	XD4074008	ROTATION SCALE
9V2	XD4074009V2	LOCK HANDLE V2.12.13
10	XD4074010	MAIN HOUSING
11	XD4074011	END CAP
12	XD4074012	END CAP WASHER

REF	PART #	DESCRIPTION
13	XD4074013	PHLP HD SCR M5-.8 X 30
14V2	XD4074014V2	LOCK NUT M16-2
16	XD4074016	OUTER V-JAW
17	XD4074017	PHLP HD SCR M5-.8 x 10
18	XD4074018	EXTENTION SCALE
19	XD4074019	CAP SCREW M5-.8 X 12
20	XD4074020	INNER PIPE JAW
21	XD4074021	INNER V-JAW
22	XD4074022	BASE
23V2	XD4074023V2	ROTATION PLATE V2.12.13
24	XD4074024	CARRIAGE BOLT M10-1.5 X 50