

Model D4093 Multipurpose Vise Instruction Sheet



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Specifications

Flat Jaw Size	4" x 13/16"
Maximum Jaw Opening	4"
Pipe Jaw Maximum Diameter	1 7/8"
Maximum Throat Depth	2 1/4"
Mounting Pattern.....	100mm/4-hole square
Base Swivel Capability	360°
Jaw Rotation Capability	360°
Weight	22 lbs.



Figure 1. Model D4093.

!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 1 for the minimum working clearances.

Workbench Load

Although the D4093 Multipurpose Vise weighs only 22 lbs., some workbenches may require additional reinforcement to support the vise, workpiece, and any hammering or prying forces that may be applied to them.

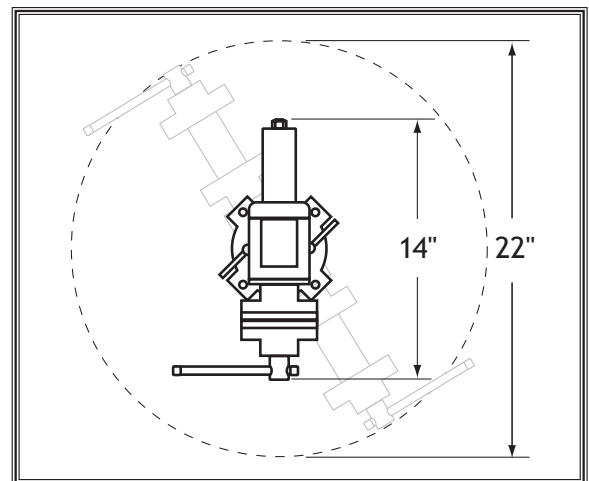


Figure 2. Minimum clearances.

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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 vice to the workbench by marking through the vice 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:

- Do not use cheater pipes on the handles 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.
- Do not hammer the levers tight.
- 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.

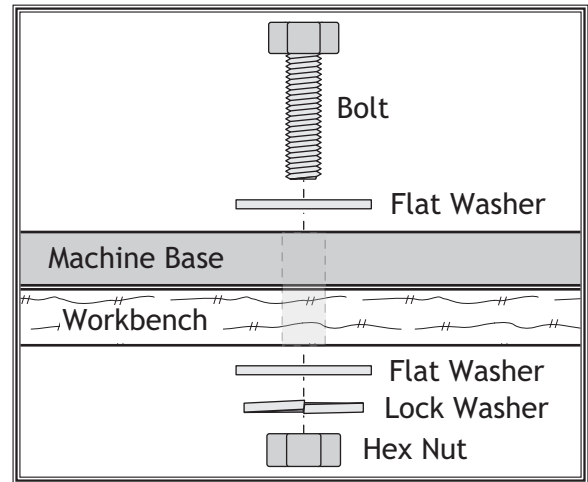


Figure 3. Example of a through-mount setup.

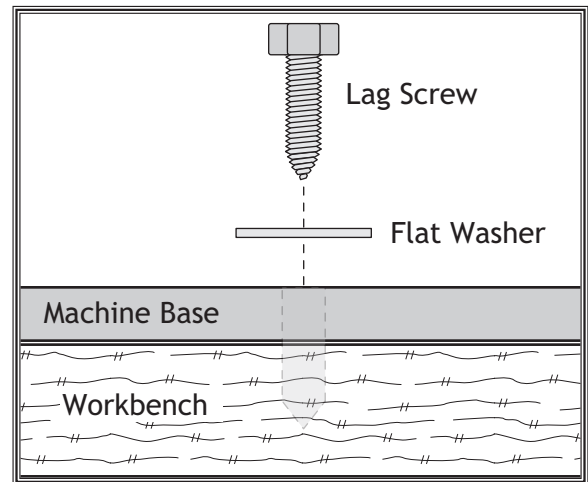


Figure 4. Example of a direct-mount setup.

Features Overview

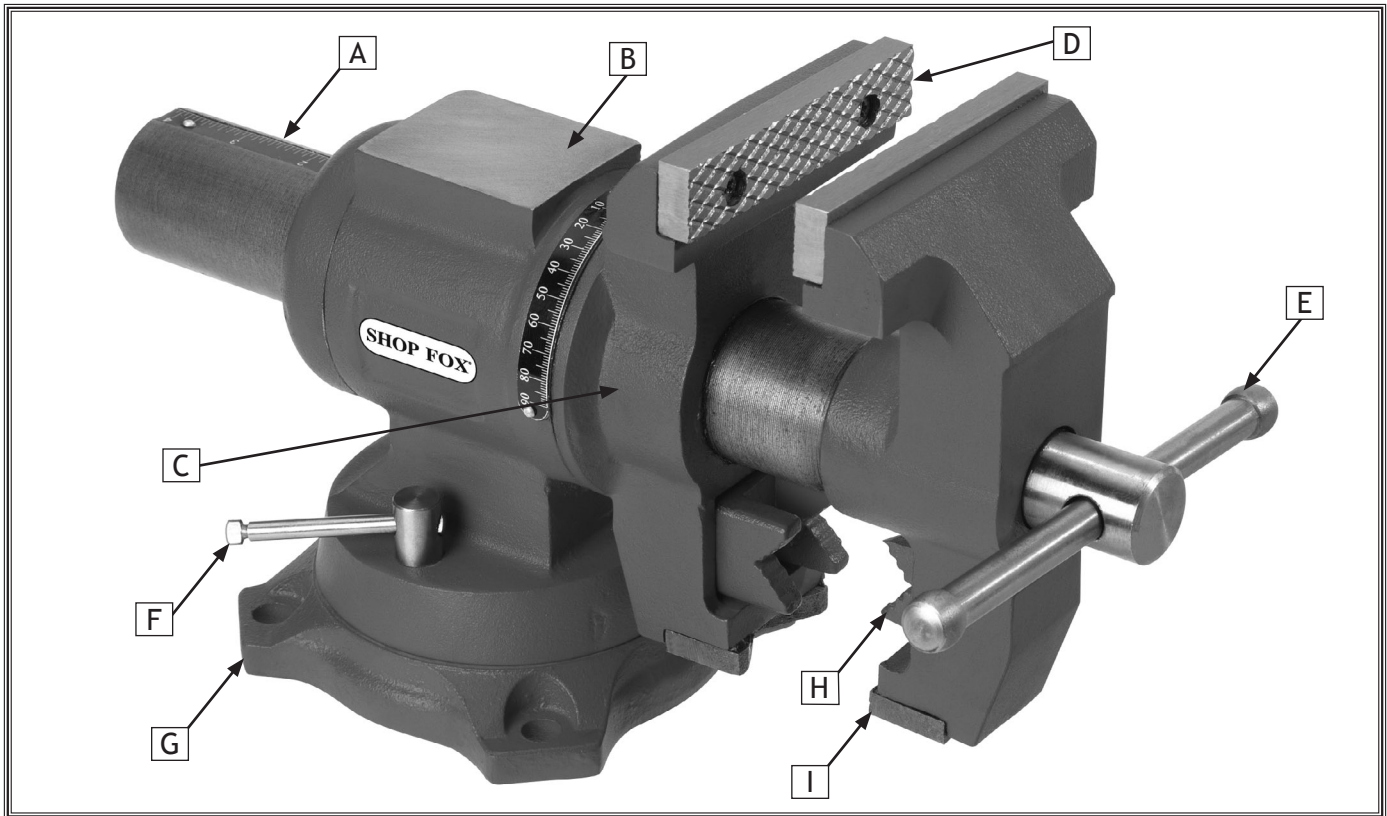
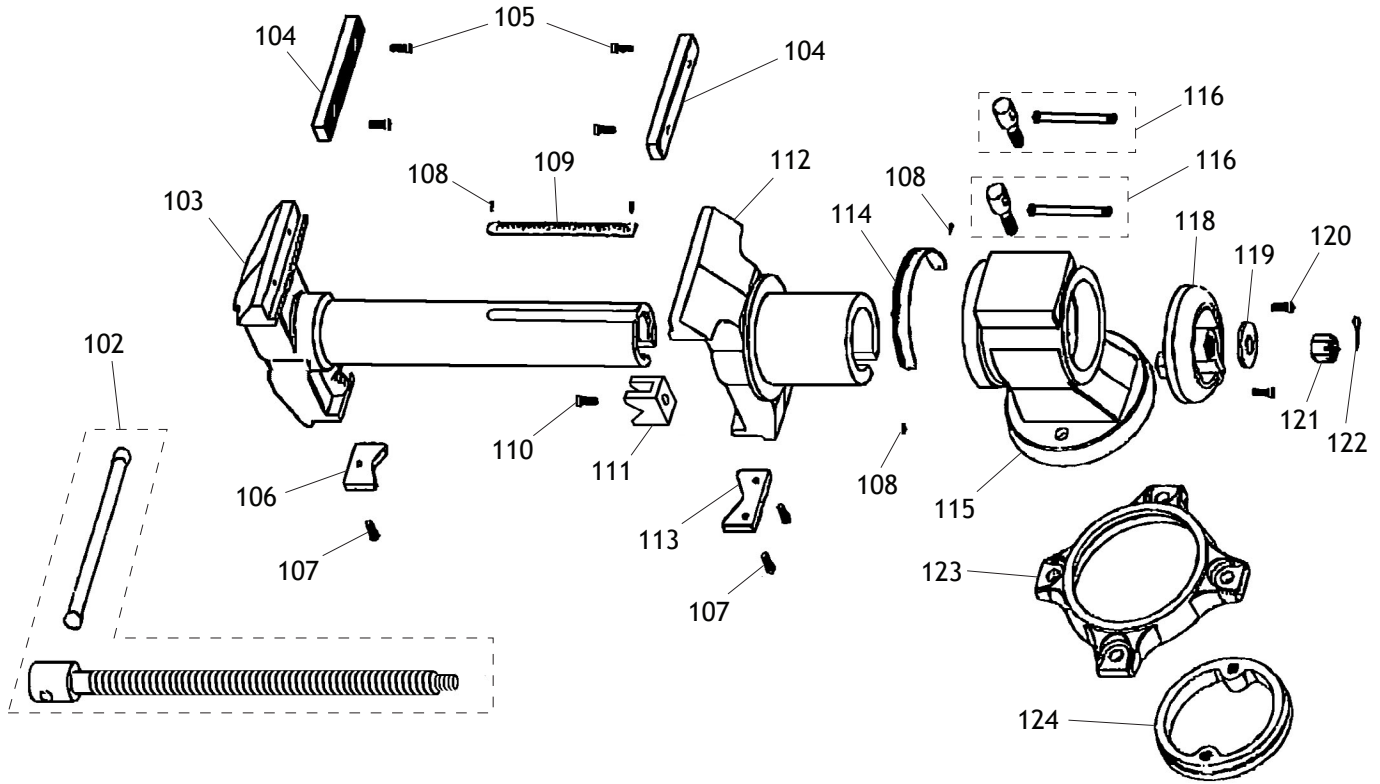


Figure 5. Features overview.

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

Parts



REF	PART #	DESCRIPTION
102	XD4093102	LEADSCREW W/HANDLE
103	XD4093103	ADJUSTABLE JAW
104	XD4093104	JAW FACEPLATE
105	XPS05M	PHLP HD SCR M5-.8 X 8
106	XD4093106	OUTER V-JAW
107	XPCAP03M	CAP SCREW M5-.8 X 8
108	XPRIV003M	STEEL FLUTED RIVET 2 X 4MM
109	XD4093109	EXTENSION SCALE
110	XPCAP33M	CAP SCREW M5-.8 X 12
111	XD4093111	INNER PIPE JAW
112	XD4093112	BACK JAW

REF	PART #	DESCRIPTION
113	XD4093113	INNER V-JAW
114	XD4093114	ROTATION SCALE
115	XD4093115	MAIN HOUSING
116	XD4093116	LOCK BOLT W/HANDLE
118	XD4093118	END CAP
119	XD4093119	END CAP FLAT WASHER
120	XPCAP21M	CAP SCREW M4-.7 X 30
121	XD4093121	SLOTTED HEX NUT M10-1.5
122	XD4093122	COTTER PIN 2 X 30
123	XD4093123	BASE
124	XD4093124	ROTATION COLLAR