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> Wilton Mechanics Pro Bench Vise (Model 8100M) - 10 Inch Jaw Instruction Manual

Wilton 8100M

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INTRODUCTION

This manual provides essential information for the safe and effective use of your Wilton Mechanics Pro Bench Vise, Model 8100M. Designed and constructed with premium materials, this vise offers durability and precision for various mechanical and workshop tasks. Please read these instructions thoroughly before installation and operation to ensure proper function and longevity of the tool.



Image: The Wilton Mechanics Pro Bench Vise, Model 8100M, showcasing its robust construction and design.

KEY FEATURES

The Wilton Mechanics Pro Bench Vise incorporates several design elements for enhanced performance and user experience:

- **60,000 PSI Ductile Iron Construction:** The movable jaw and base are made from 60,000 psi ductile iron,

providing superior strength and durability while maintaining a manageable weight.

- **Precision-Machined Slide Bar:** Ensures smooth operation and eliminates movement in the front jaw, maintaining stability regardless of the jaw opening.
- **Enclosed Spindle:** Protects internal components from contaminants and retains lubrication, contributing to smooth, long-term operation.
- **Needle Roller Thrust Bearing:** Facilitates maximum clamping force with reduced effort from the operator.
- **360-Degree Swivel Base with Double Lockdowns:** Allows for versatile positioning of the workpiece and secure locking in place.
- **Replaceable Steel Jaw Inserts:** Hardened steel jaws provide excellent grip and can be replaced if worn.
- **Large Anvil Work Surface:** Integrated anvil for shaping and striking operations.

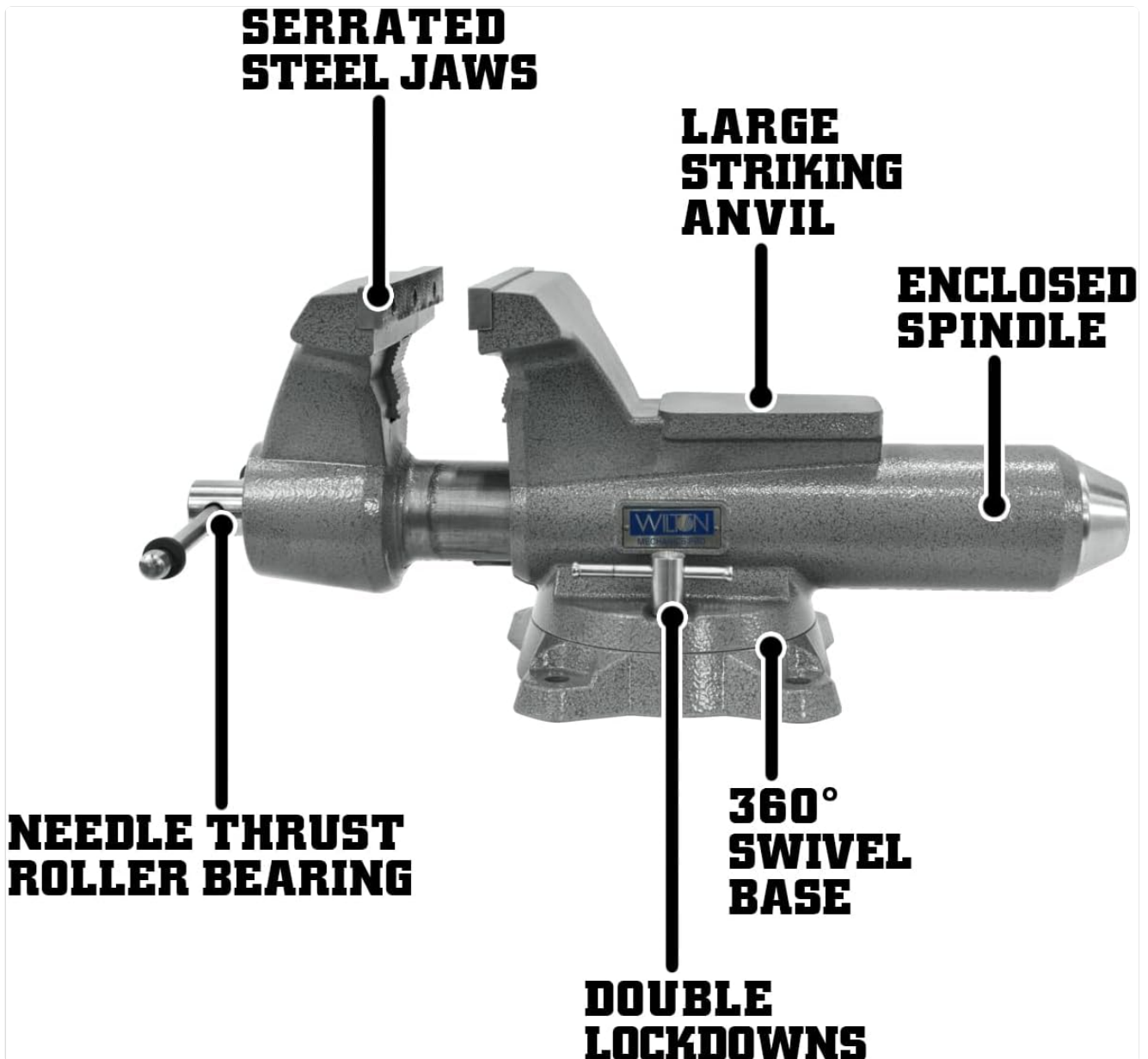


Image: A detailed diagram highlighting the key components and features of the Wilton Mechanics Pro Bench Vise.

SETUP

Mounting the Vise

Proper mounting is crucial for the stability and safe operation of your bench vise. Ensure your workbench is sturdy

and capable of supporting the vise's weight and the forces applied during use.

1. **Select Location:** Choose a location on your workbench that provides ample clearance for operation and is structurally sound.
2. **Mark Mounting Holes:** Position the vise on the workbench and mark the locations for the mounting bolts through the holes in the swivel base.
3. **Drill Holes:** Drill appropriate-sized holes through the workbench for your mounting hardware. Use bolts, washers, and nuts suitable for the vise's weight and intended use.
4. **Secure Vise:** Place the vise over the drilled holes. Insert bolts with washers from the top, and secure with washers and nuts from underneath. Tighten all fasteners securely.
5. **Check Stability:** After mounting, ensure the vise is firmly attached and does not wobble or shift during operation.



**60,000 PSI
DUCTILE IRON BASE**

Image: A close-up view of the vise's robust ductile iron base, illustrating the mounting points for secure installation.

OPERATING INSTRUCTIONS

Clamping a Workpiece

1. **Open Jaws:** Rotate the vise handle counter-clockwise to open the jaws to a width slightly larger than your workpiece.
2. **Position Workpiece:** Place the workpiece securely between the jaws. For delicate materials, use jaw pads to prevent damage.
3. **Close Jaws:** Rotate the handle clockwise to close the jaws until the workpiece is firmly held. Apply sufficient force to prevent movement, but avoid over-tightening, which can damage the workpiece or vise.

Using the Swivel Base

1. **Loosen Lockdowns:** Loosen the double lockdowns located on the swivel base.
2. **Rotate Vise:** Rotate the vise body to the desired angle (up to 360 degrees).
3. **Tighten Lockdowns:** Once the desired position is achieved, securely tighten both lockdowns to prevent rotation during use.

Pipe Jaw Capacity

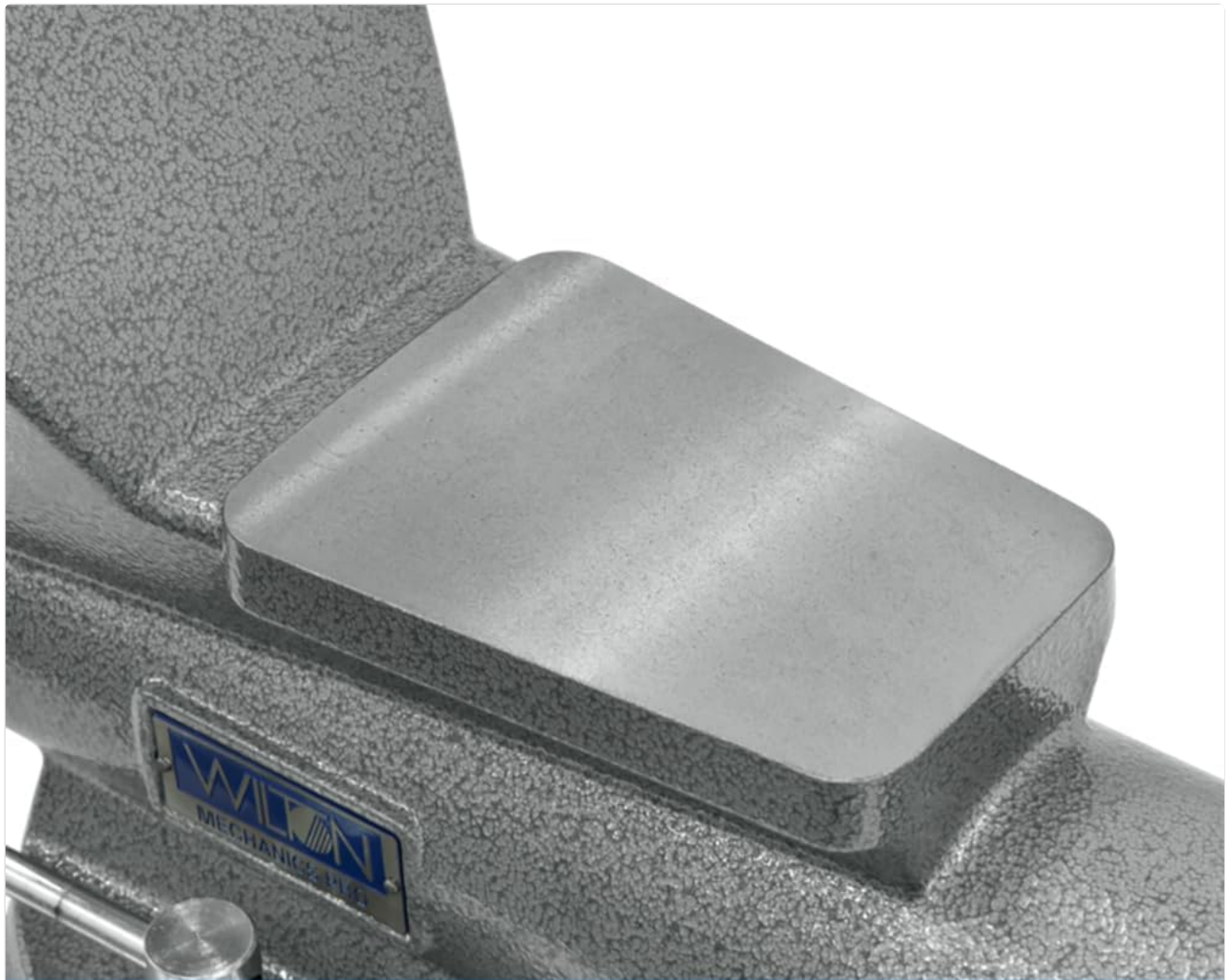
The vise includes integrated pipe jaws for securely holding round stock. The 10-inch model has a pipe jaw capacity of 1/2 inch to 5 inches.



Image: A close-up of the vise's pipe jaws, demonstrating their capacity for holding cylindrical objects.

Utilizing the Anvil

The large, flat surface at the rear of the stationary jaw serves as an anvil. It can be used for light hammering, shaping, or bending operations. Always ensure the workpiece is stable and use appropriate safety gear.



LARGE ANVIL WORK SURFACE

Image: The large anvil surface on the vise, suitable for various striking and shaping tasks.

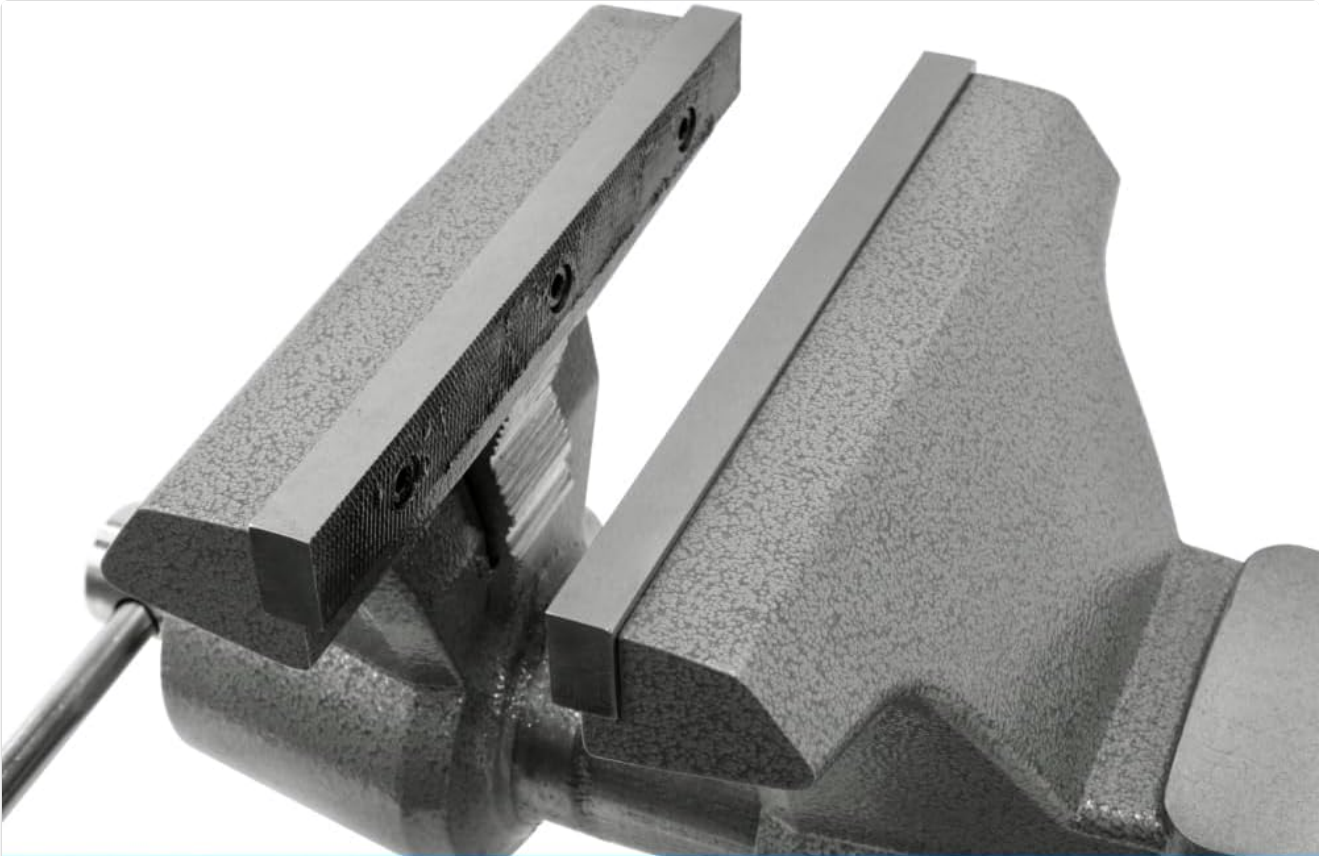


Image: An individual demonstrating the practical application of the vise in a workshop setting.

MAINTENANCE

Regular maintenance ensures the optimal performance and extends the lifespan of your Wilton Mechanics Pro Bench Vise.

- **Lubrication:** Periodically apply a light coat of grease or oil to the main screw and slide bar to ensure smooth operation. The enclosed spindle design helps retain lubrication.
- **Cleaning:** Keep the vise clean from debris, metal shavings, and dust. Use a brush or compressed air to clear out any accumulation, especially around the jaws and screw mechanism.
- **Jaw Inspection:** Inspect the steel jaw inserts for wear or damage. The inserts are replaceable; contact Wilton support for replacement parts if needed.
- **Fastener Check:** Periodically check all mounting bolts and swivel base lockdowns to ensure they remain tight.



REPLACEABLE STEEL JAW INSERTS

Image: A close-up view of the vise's replaceable steel jaw inserts, emphasizing their modular design for easy maintenance.

TROUBLESHOOTING

- **Jaws Sticking/Hard to Turn:** This often indicates a lack of lubrication or accumulation of debris. Clean the screw and slide bar, then apply appropriate lubricant.
- **Vise Wobbles:** Check all mounting bolts and swivel base lockdowns. Tighten any loose fasteners. Ensure the workbench itself is stable.
- **Workpiece Slipping:** Ensure the jaws are clean and free of oil or grease. If the jaw inserts are worn smooth, they may need replacement.

SPECIFICATIONS

Model Number	8100M
Jaw Width	10 inches
Jaw Opening	12 inches
Throat Depth	5-1/4 inches

Pipe Jaw Capacity	1/2 inch - 5 inches
Material	Alloy Steel, 60,000 PSI Ductile Iron
Item Weight	115.3 Pounds
Product Dimensions (L x W x H)	28 x 13 x 10 inches
Swivel Base	360 degrees with double lockdowns

WARRANTY AND SUPPORT

The Wilton Mechanics Pro Bench Vise is backed by Wilton's industry-leading lifetime warranty against manufacturing defects. This warranty ensures confidence in the quality and durability of your tool.



Image: The official Wilton Lifetime Warranty logo.

For warranty claims, technical assistance, or to purchase replacement parts, please visit the official Wilton website or contact their customer support directly. You can also find more information and products at the [Wilton Store on Amazon](#).

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