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General Tools 870

General Tools Mortise and Tenon Jig

MODEL 870 INSTRUCTION MANUAL

Brand: General Tools

1. Introduction

The General Tools Mortise and Tenon Jig Model 870 is designed to create precise mortise and tenon joints for various woodworking projects, including cabinets, furniture, and frames. This all-in-one jig simplifies the process of cutting both matching mortises and tenons. It is constructed from solid aircraft-grade aluminum, ensuring durability and accuracy.

The jig accommodates wood stock ranging from 1/2 inch to 1-1/2 inches thick and can be used to cut multiple mortises in a single long piece. It is ready for immediate use right out of the box.



ESSENTIAL WOOD JOINT

Use mortise and tenon joints for strong connection when making cabinets, furniture & frames

The General Tools Mortise and Tenon Jig Model 870, constructed from durable aluminum, designed for precise woodworking joinery.

2. Included Components

The General Tools Mortise and Tenon Jig kit includes the following items:

- 1/4-inch high-speed up-cut spiral router bit
- Bushing guides for 1/4-inch, 3/8-inch, and 1/2-inch tenons
- Two-part base plate/bushing adapter
- Centering tool
- Adjustment wrench

ALL-IN-ONE SET - JUST NEED A ROUTER

- 1/4" high-speed up-cut spiral bit
- Bushing guides for 1/4", 3/8", and 1/2" tenons
- Two-part base plate/bushing adapter
- Centering Tool
- Adjustment Wrench



A visual representation of the complete kit, including the 1/4-inch spiral bit, various bushing guides, a two-part base plate/bushing adapter, centering tool, and adjustment wrench.

3. Setup

1. **Mounting the Jig:** The Mortise and Tenon Jig can be mounted directly onto a workbench. Alternatively, it can be secured onto a separate board that can then be clamped in a vise or to a bench for stability.
2. **Securing Wood Stock:** The jig features integrated clamps and swing arms designed to align and secure your wood stock for accurate joint cutting.
3. **Setting Joint Length:** Adjust the jig to the desired mortise and tenon length.
4. **Aligning Wood:** Carefully align the wood piece within the jig according to your measurements.
5. **Router Preparation:** Ensure your plunge router is fitted with the appropriate spiral bit and bushing guide for the desired joint size (1/4", 3/8", or 1/2").



EASY TO MOUNT AND INSTALL

Integrated clamps and swing arms
secure wood for accurate joints

The Mortise and Tenon Jig securely mounted on a workbench, illustrating how it can be clamped for stable operation during woodworking tasks.

4. Operation

Once the jig is set up and the wood stock is secured, you can proceed with cutting your mortise and tenon joints using a plunge router.

1. **Position the Router:** Place your plunge router onto the jig, ensuring the bushing guide fits correctly into the jig's template.
2. **Engage the Router:** Turn on the router and slowly plunge the bit into the wood, following the jig's guides to create the mortise or tenon.
3. **Complete the Cut:** Move the router along the designated path until the cut is complete. Repeat for all necessary joints.
4. **Check Fit:** After cutting, test the fit of the mortise and tenon. Adjustments may be necessary for a perfect fit.



Set the joint length, align the wood in the jig, and cut with any plunger router.

A plunge router positioned on the jig, demonstrating the cutting of a mortise or tenon. The jig guides the router for accurate cuts.

Instructional Video:

Your browser does not support the video tag.

Official video demonstrating the setup and operation of the General Tools 870 EZ Pro Mortise & Tenon Jig, showing how to create precise mortise and tenon joints.

5. Maintenance

- **Cleaning:** After each use, clean the jig to remove sawdust and debris. A soft brush or compressed air can be used.
- **Inspection:** Regularly inspect the jig for any signs of wear or damage, especially to the clamps and guides.
- **Storage:** Store the jig in a dry, clean environment to prevent corrosion and damage.

6. Troubleshooting

- **Inaccurate Cuts:** Ensure the wood stock is securely clamped and does not shift during routing. Verify that the router bit and bushing guide are correctly installed and matched to the jig's template.

- **Difficulty Clamping:** Check that the clamping mechanisms are free of debris and functioning correctly. Ensure the wood stock thickness is within the jig's specified range.
- **Router Bit Issues:** If the router bit is dull or damaged, replace it to ensure clean and efficient cuts.

7. Specifications

Feature	Detail
Model Number	870
Manufacturer	General Tools
Item Weight	1 pound
Product Dimensions	15 x 4 x 4.2 inches
Material	Aircraft-grade aluminum (jig body), Plastic (some components)
Power Source	Corded-electric (for compatible router, not included)
Item Package Quantity	1

8. Warranty and Support

Warranty: This General Tools Mortise and Tenon Jig Model 870 comes with a 1-year warranty on parts.

Customer Support: For technical assistance, replacement parts, or warranty claims, please contact General Tools customer service. Refer to the product packaging or the official General Tools website for current contact information.