

## wolfcraft 4650000

# wolfcraft Dowelling Jig 4650000 Instruction Manual

Multifunctional Drill Gauge for Dowel Joints and Rows of Shelf Support Holes

## PRODUCT OVERVIEW

The wolfcraft Dowelling Jig 4650000 is a versatile tool designed for various woodworking and furniture-making projects. It provides assistance for creating precise corner butt and T-butt joints, as well as enabling the drilling of shelf support holes in the standard 32 mm grid dimension. Additionally, it facilitates the accurate positioning of drill holes for hinges and other fittings. This high-quality product can also function as a guide rail for marking, cutting, sawing, and milling tasks.

The dowelling jig features a robust guide rail with lock-in holes spaced 32 mm apart. A drill slide, which accommodates exchangeable bushes for 5, 6, 8, or 10 mm diameter drills, is inserted into these holes. This design allows for consistent spacing of dowel holes and shelf support holes. Adjustable angle stops, positioned under the profile, enable setting the distance from the holes to the board edge, ranging from 12-40 mm. Side stops ensure precise alignment for the beginning and end of dowel hole rows.

### Key Features:

- **5-in-1 Functionality:** Serves as a guidance aid and dowel template for 32 mm shelf support holes, edge-to-edge, corner butt, and T-butt joints.
- **High-Quality Design:** Measures 670 mm in length, suitable for boards up to 600 mm long and 12-40 mm thick.
- **Integrated Scales:** Features two integrated scales for accurate measurements.
- **Moveable Drill Slide:** Equipped with exchangeable bushes for drill holes of 5, 6, 8, and 10 mm diameter.

## SETUP INSTRUCTIONS

### Component Identification:

Familiarize yourself with the main components: the guide rail, drill slide, exchangeable drill bushes, angle stops, and side stops.

### Preparing the Jig for Drilling:

1. **Select Drill Bush:** Choose the appropriate drill bush (5, 6, 8, or 10 mm) for your dowel pin size and insert it into the drill slide from underneath.

2. **Insert Drill Slide:** Slide the drill slide into the designated slot within the aluminum guide bar.
3. **Set Drilling Depth:** Attach a depth stop to your drill bit to limit the drilling depth, preventing over-drilling.
4. **Adjust Board Edge Distance:** Position the angle stops under the guide rail profile to set the desired distance from the drill holes to the edge of your board (12-40 mm).
5. **Position Side Stops:** Use the side stops to precisely define the start and end points of your row of dowel holes.



Image: The wolfcraft Dowelling Jig securely clamped to a wooden board, ready for precise drilling operations. Note the clamps holding the jig in place.



Image: A detailed view of the drill slide mechanism on the wolcraft Dowelling Jig, showing a drill bit inserted into the exchangeable bush. This setup ensures accurate hole placement.

## OPERATING INSTRUCTIONS

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### Creating Face Drill Holes and Edge-to-Edge Joints:

1. **Mark Board Edges:** Use a carpenter's triangle to mark all board edges. This helps in correctly positioning the dowelling jig later.
2. **Determine Side Stop Position:** Place the dowel aid in the middle of the board to establish the initial position for the side stops.
3. **Drill Holes:** Once the jig is set up (as per 'Setup Instructions'), drill the first hole. Note its position on the integrated scale for reference. Allow the drill slide to engage in every third hole along the guide rail, secure it, and then drill. This ensures consistent spacing for dowel connections.



Image: An electric drill being used with the wolcraft Dowelling Jig to create a precise dowel hole in a wooden workpiece. The jig ensures accurate alignment and depth.

### Making Corner Joints:

1. **Clamp Board:** Securely clamp the board vertically on your workbench.
2. **Position Jig:** Place the dowelling jig onto the edge of the board. Ensure the lateral stop makes contact with the board edge marked with the carpenter's triangle.
3. **Secure Jig:** Use two one-hand clamps to firmly secure the dowelling jig in position.
4. **Drill Holes:** Drill the first hole. Use the scale for orientation for subsequent drill holes. Engage the drill slide into every third hole, secure it, and drill.

### Shelf Support Holes and Hinge Drilling:

The jig is designed to create shelf support holes with a 32 mm grid dimension, which is standard in carpentry. It also allows for precise drilling for hinges and other fittings.



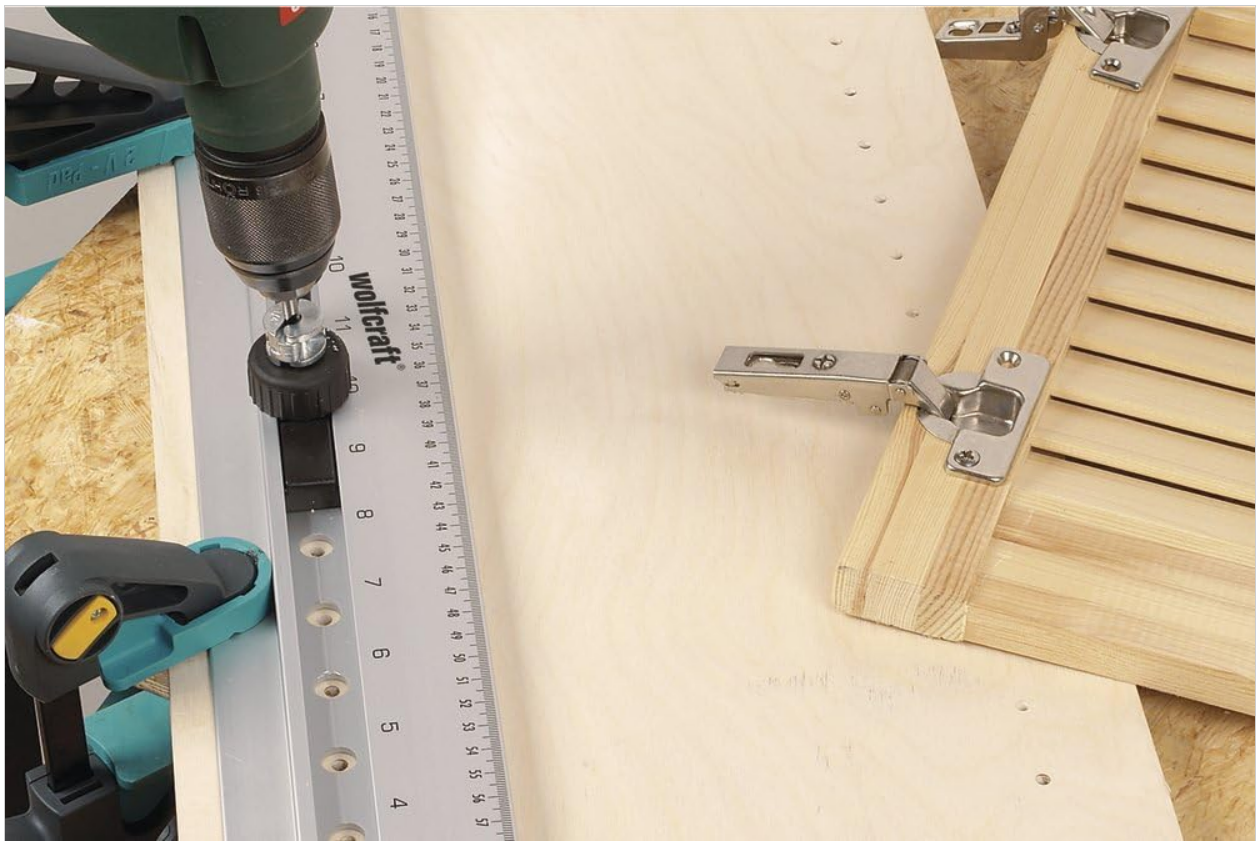


Image: The dowelling jig being used to accurately position and drill holes for cabinet hinges on a wooden panel, demonstrating its versatility beyond dowel joints.

### Using as a Guide Rail:

The dowelling jig can also be utilized as a straight edge or guide rail for various tasks such as drawing, cutting, sawing, and milling, ensuring straight and accurate lines or cuts.

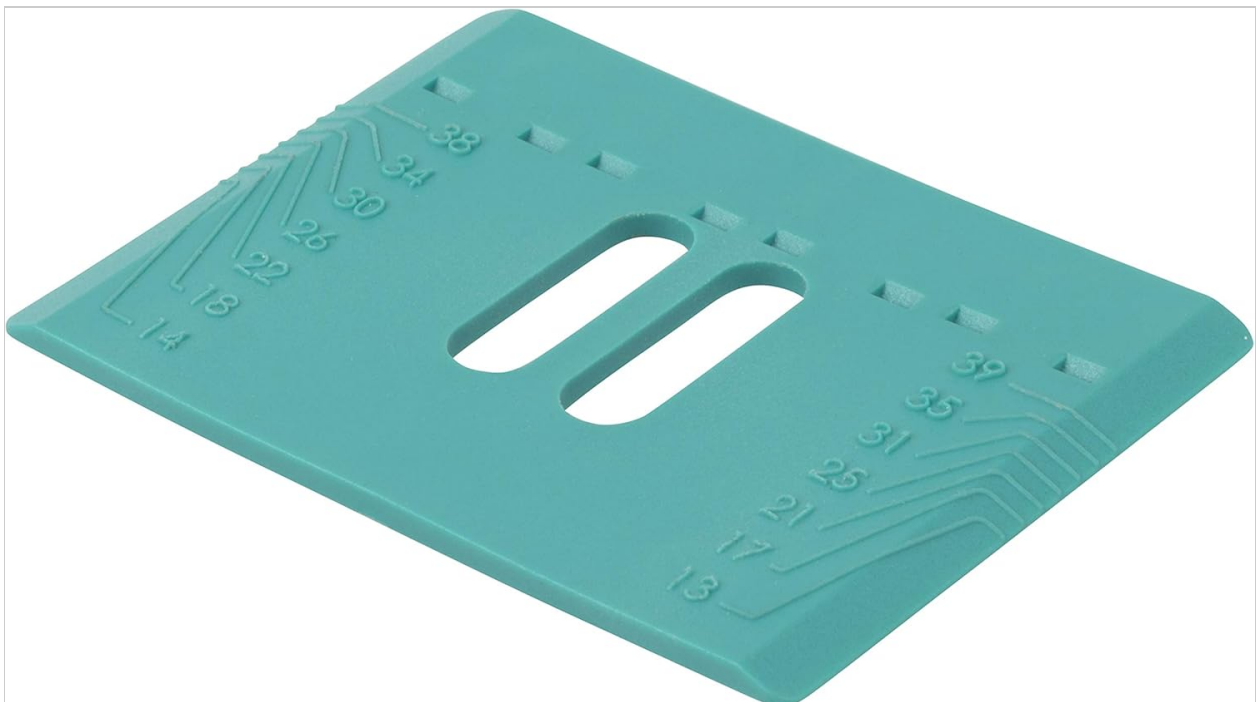


Image: A person using the wolfcraft Dowelling Jig as a straight edge to mark a precise line on a wooden board with a pencil.

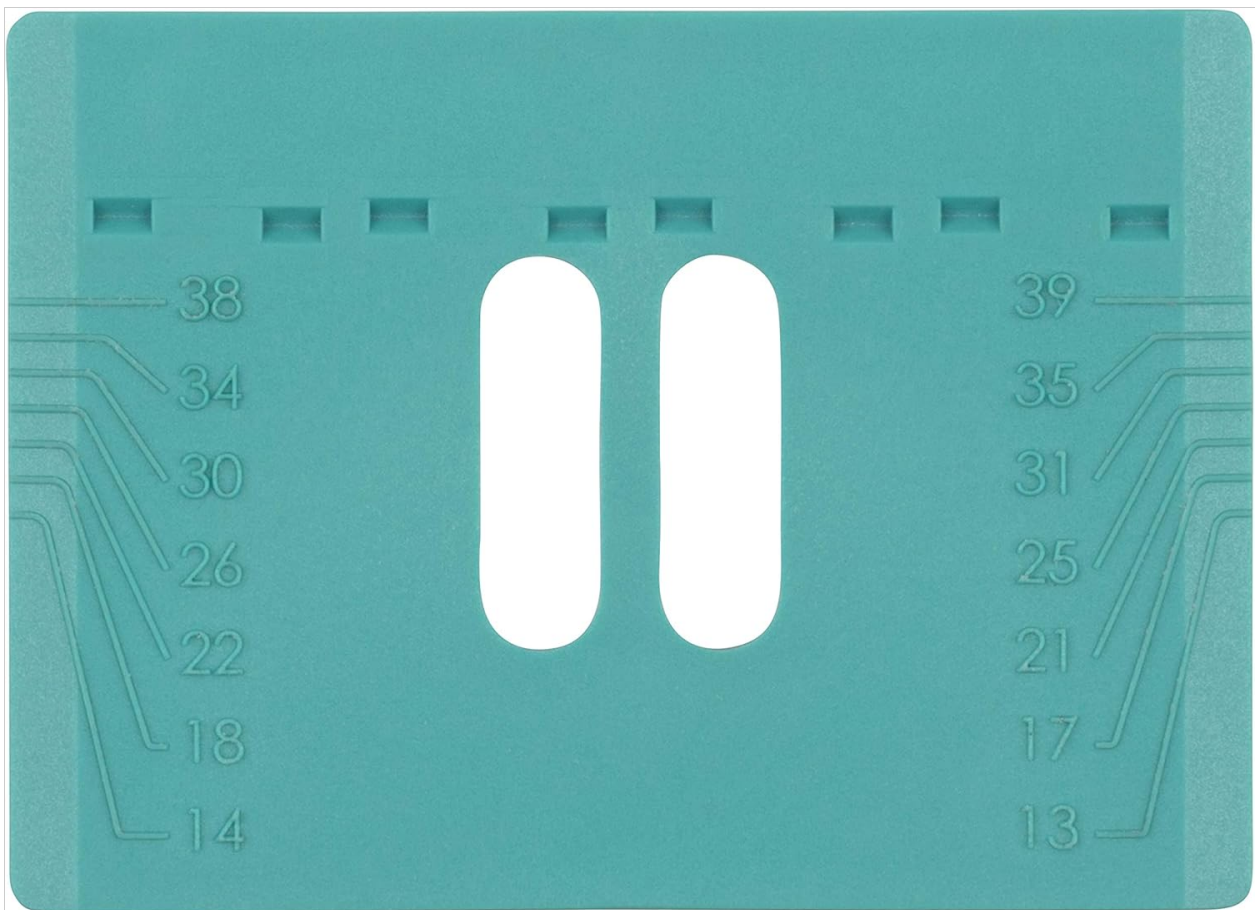


Image: The wolcraft Dowelling Jig serving as a guide rail for a jigsaw, ensuring a straight and accurate cut on a wooden panel.

## MAINTENANCE

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To ensure the longevity and continued accuracy of your wolcraft Dowelling Jig 4650000, follow these simple maintenance guidelines:

- **Cleaning:** After each use, wipe down the guide rail and drill slide with a dry cloth to remove sawdust and debris. For stubborn residue, a slightly damp cloth can be used, followed by immediate drying.
- **Lubrication:** Periodically apply a small amount of dry lubricant (e.g., silicone spray) to the moving parts of the drill slide to ensure smooth operation. Avoid excessive lubrication that could attract dust.
- **Storage:** Store the dowelling jig in a clean, dry environment, away from direct sunlight and extreme temperatures. Protect it from impacts that could affect its precision.
- **Inspection:** Regularly inspect the drill bushes for wear. Replace them if they show signs of damage or excessive wear to maintain drilling accuracy.

## TROUBLESHOOTING

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If you encounter issues while using your wolcraft Dowelling Jig 4650000, consider the following common solutions:

- **Inaccurate Hole Placement:**
  - Ensure the jig is securely clamped to the workpiece. Movement during drilling can cause inaccuracies.
  - Verify that the drill slide is fully engaged in the desired lock-in hole before drilling.
  - Check for wear on the drill bushes. Worn bushes can lead to drill bit wobble and imprecise holes.

- Confirm that the angle stops and side stops are correctly set and tightened for the desired board edge distance.

- **Difficulty Engaging Drill Slide:**

- Clean the guide rail and drill slide to remove any sawdust or debris that might be obstructing movement.
- Apply a small amount of dry lubricant to the sliding surfaces.

- **Drill Bit Wobble:**

- Ensure the drill bit is properly secured in your drill chuck.
- Verify that the correct size drill bush is installed for your drill bit.
- Inspect the drill bush for damage or wear.

If these steps do not resolve the issue, please refer to the manufacturer's support resources or contact customer service.

## SPECIFICATIONS

Manufacturer	wolcraft
Part Number	4650000
Item Model Number	4650000
Item Weight	2.73 pounds
Product Dimensions	2.2 x 3.74 x 27.64 inches
Power Source	Hand-operated
Included Components	1 dowelling jig
Drill Bush Sizes	5, 6, 8, 10 mm
Board Thickness Range	12-40 mm
Shelf Hole Spacing	32 mm

## WARRANTY INFORMATION

The wolcraft Dowelling Jig 4650000 comes with a **10-year manufacturer's guarantee**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for any warranty claims.



Image: Official wolcraft logo indicating a 10-year guarantee for the product.

For detailed terms and conditions of the warranty, please visit the official wolcraft website or contact their

customer service.

## CUSTOMER SUPPORT

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For further assistance, technical support, or inquiries regarding your wolcraft Dowelling Jig 4650000, please refer to the following resources:

- **Official Website:** Visit the official wolcraft website for product information, FAQs, and additional resources.
- **Contact Information:** Refer to the packaging or the official website for specific customer service contact details, including phone numbers and email addresses.

When contacting support, please have your product model number (4650000) and proof of purchase readily available.