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iDili A

iDili Belt Grinder Knife Jig (Style A) Instruction Manual

1. Product Overview

The iDili Belt Grinder Knife Jig (Style A) is a precision tool designed to assist in sharpening knives using a belt sander or belt machine. It provides a stable and adjustable platform to maintain consistent angles, ensuring a sharp and even edge on your blades. Constructed from durable stainless steel, this jig is built for longevity and ease of cleaning.



Figure 1: The iDili Belt Grinder Knife Jig (Style A) with a knife inserted, ready for use.

2. Safety Information

Please read and understand all safety instructions before operating the knife jig with any sharpening equipment. Failure to follow these instructions may result in injury or damage to the product.

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when sharpening knives.
- Ensure the belt grinder or belt machine is stable and securely fastened to a workbench before use.
- Keep hands and fingers clear of the moving abrasive belt and the knife edge at all times.

- Unplug the belt grinder from the power source before making any adjustments to the jig or changing abrasive belts.
- Do not force the knife against the abrasive belt. Apply consistent, moderate pressure.
- Refer to your belt grinder's instruction manual for additional safety guidelines specific to that equipment.

3. Package Contents

Verify that all components are present upon unpacking:

- 1x iDili Belt Grinder Knife Jig (Style A) main assembly
- 2x Handles (may be pre-attached)
- 1x Adjustment Knob with threaded rod
- Necessary screws and nuts for assembly (if not pre-assembled)
- 1x Allen Wrench (for specific fasteners)
- 1x Spanner Wrench (for specific fasteners)



Figure 2: Exploded view of the iDili Knife Jig components, including tools for assembly.

4. Setup

Follow these steps to prepare your iDili Belt Grinder Knife Jig for use:

1. Unpack all components and inspect for any damage.
2. If the handles are not pre-attached, screw them into the designated threaded holes on each end of the jig's base plate. Tighten securely using the provided wrenches if necessary.
3. Ensure the adjustment knob and its threaded rod are properly seated in the central slot, allowing for smooth angle adjustments.
4. Verify that all clamping plates and their screws are present and can be moved freely to accommodate different knife thicknesses.



Figure 3: Top-down view of the assembled jig, showing handles and adjustment mechanism.

5. Operating Instructions

This section details the process of sharpening a knife using the iDili Belt Grinder Knife Jig.

5.1 Attaching the Knife

1. Loosen the screws on the clamping plates by turning them counter-clockwise.
2. Carefully insert the knife blade between the clamping plates, ensuring the edge to be sharpened extends slightly beyond the jig's edge.
3. Center the knife blade within the jig for balanced sharpening.
4. Tighten the clamping screws firmly to secure the knife in place. Ensure the knife does not wobble.

5.2 Adjusting the Sharpening Angle

The jig allows for precise angle adjustment:

1. Use the central adjustment knob to raise or lower the knife's position relative to the belt grinder.
2. Lowering the knife (turning the knob clockwise) increases the sharpening angle (steeper bevel).
3. Raising the knife (turning the knob counter-clockwise) decreases the sharpening angle (shallower bevel).
4. It is recommended to use an angle finder or protractor to set your desired sharpening angle accurately.



Figure 4: Side view illustrating the knife's position and angle adjustment.

5.3 Sharpening with a Belt Grinder

Once the knife is secured and the angle is set:

1. Turn on your belt grinder.
2. Hold the jig firmly by both handles.
3. Carefully bring the knife edge into contact with the moving abrasive belt, maintaining the set angle.
4. Move the knife smoothly and consistently across the belt, from the heel to the tip, ensuring even material removal along the entire edge.
5. Apply light, consistent pressure. Avoid excessive force, which can overheat the blade or damage the edge.
6. After sharpening one side, flip the jig over to sharpen the other side of the knife. The jig's design allows for easy and repeatable flipping to maintain the same angle on both sides.
7. Continue sharpening, progressing through finer grit belts as needed, until the desired sharpness is achieved.

Video 1: Demonstration of the iDili Belt Grinder Knife Jig in operation with a belt sander, showing the sharpening motion.

6. Maintenance

Proper maintenance ensures the longevity and performance of your knife jig:

- **Cleaning:** After each use, wipe down the jig with a clean, dry cloth to remove any metal dust or debris. For stubborn residue, a damp cloth with mild soap can be used, followed by thorough drying.
- **Storage:** Store the jig in a dry environment to prevent corrosion.
- **Inspection:** Periodically check all screws, nuts, and moving parts for tightness. Tighten any loose fasteners to ensure stability and accuracy during use.
- **Lubrication:** A small amount of light machine oil can be applied to the threaded rod of the adjustment knob if movement becomes stiff.

7. Troubleshooting

If you encounter issues while using the iDili Belt Grinder Knife Jig, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Knife not holding securely in the jig.	Clamping screws are not tight enough; knife is not properly seated.	Ensure the knife blade is fully inserted and centered. Tighten all clamping screws firmly.
Inconsistent sharpening angle.	Adjustment knob is loose; jig is not stable on the work surface.	Verify the adjustment knob is securely tightened after setting the angle. Ensure the belt grinder and jig are on a stable, flat surface.
Jig components feel loose or wobbly.	Fasteners (screws, nuts) have loosened over time.	Inspect all assembly points and tighten any loose screws or nuts using the provided wrenches.

8. Specifications

- **Model:** Style A
- **Material:** Stainless Steel
- **Color:** Black, Silver
- **Item Weight:** 0.1 Pounds (approximate)
- **Dimensions:** Approximately 270mm (Length) x 50mm (Width) x 46mm (Height)

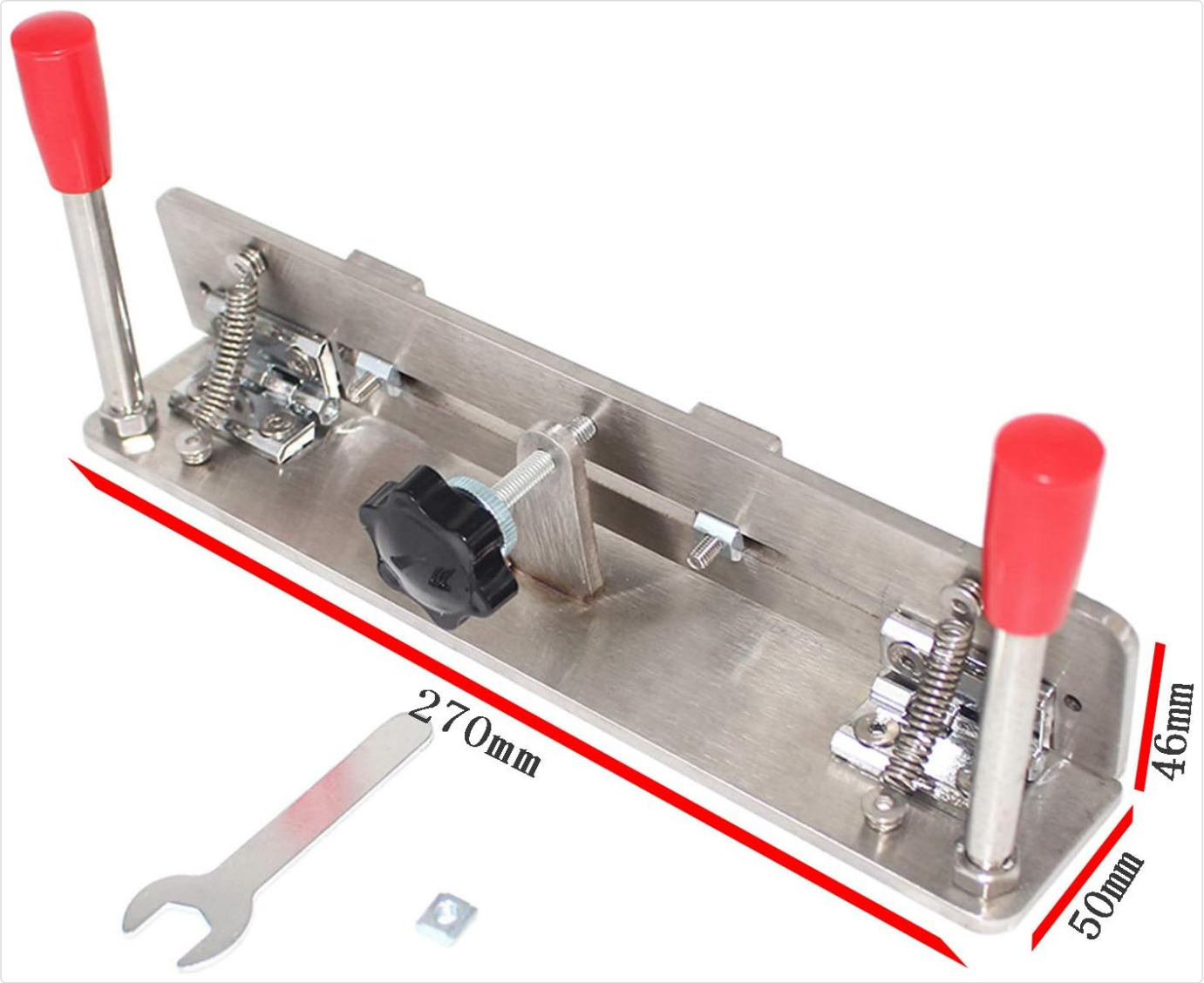


Figure 5: Dimensions of the iDili Belt Grinder Knife Jig.

9. Warranty and Support

For any questions, concerns, or issues regarding your iDili Belt Grinder Knife Jig, please contact the seller or manufacturer directly through the platform where the product was purchased. Please retain your proof of purchase for warranty claims, if applicable.

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