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> [PYY Lapidary Saw \(Model PYYTJHC96011YEUSLA00002\) User Manual](#)

PYY PYYTJHC96011YEUSLA00002

PYY Lapidary Saw (Model PYYTJHC96011YEUSLA00002) User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. INTRODUCTION

The PYY Lapidary Saw is a versatile tool designed for precision cutting, polishing, grinding, and engraving various materials such as wood, acrylic, small stones, jade, plastic, aluminum, chrome, and precious metals. Equipped with a powerful 350W motor and adjustable speed up to 10000 RPM, this equipment is suitable for jewelry making, art projects, and general lapidary work. This manual provides essential information for safe and effective use of your PYY Lapidary Saw.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Adhere to the following guidelines:

- Secure the saw to your work surface using the fixed holes to ensure stability and prevent slips, vibrations, and cutting accidents.
- Ensure the material thickness does not exceed 35mm (1.37 inches) when cutting stones.
- Always wear appropriate personal protective equipment, including safety glasses, gloves, and hearing protection.
- Keep hands and fingers clear of the blade and moving parts during operation.
- Disconnect power before performing any maintenance, blade changes, or adjustments.
- Use the blade cover and pusher angle ruler for safe and precise operation.
- Ensure proper ventilation in your workspace.

3. PRODUCT OVERVIEW AND COMPONENTS

The PYY Lapidary Saw comes with a complete accessory set to support its versatile functions. Familiarize yourself with all components before assembly and operation.

COMPLETE ACCESSORY SET

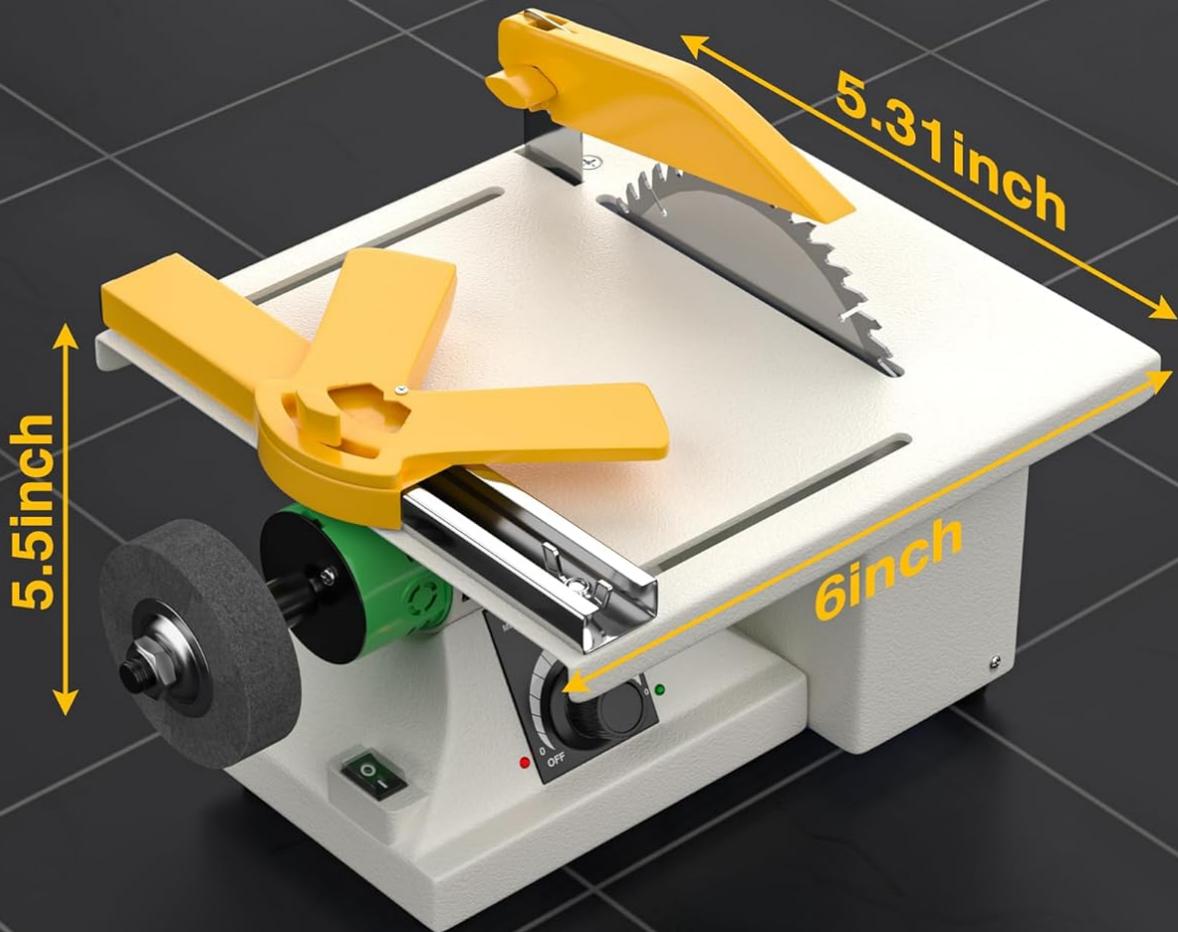


Figure 3.1: Complete Accessory Set for PYY Lapidary Saw. This image displays the main unit along with various tools and attachments such as the sink, flexible shaft, cooling pipe, cutting shaft wrench, blade cover, pusher angle ruler, handle, water pump, jade cutting disc, woodworking saw blade, fiber wheel, carbon brush, chuck key, pressure plate, and spindle.

Included Components:

- Main Unit (Base)
- Woodworking Saw Blade
- Jade Cutting Disc
- Blade Cover
- Pusher Angle Ruler
- Wrench
- Water Pump

- Cooling Pipe
- Flexible Shaft
- Handle
- 1.5-10mm Drill Clamp
- Fiber Wheel
- Spindle
- Carbon Brush
- Chuck Key
- Pressure Plate
- Sink

4. SETUP

Follow these steps to set up your PYY Lapidary Saw for operation:

1. Install the Saw Blade:

Use the provided wrench to loosen the nut on the saw's spindle. Carefully place either the woodworking saw blade or the jade cutting disc onto the spindle. Secure it firmly with the nut and wrench.

2. Attach the Blade Cover:

Install the blade cover over the saw blade for safety.

3. Position the Pusher Angle Ruler:

Slide the pusher angle ruler into its designated slot on the saw table. This aids in guiding materials for straight and angled cuts.

4. Install the Fiber Wheel (for polishing/grinding):

Insert the spindle through the fiber wheel, then place the pressure plate and secure it with a screw. Attach this assembly onto the base unit's left shaft and tighten with a screw.

5. Connect the Flexible Shaft (for engraving/drilling):

Attach the flexible shaft onto the base unit's left shaft and secure it with a screw. Then, lock the other end of the flexible shaft into the handle.

6. Set up the Wet Cutting System:

Place the water pump into a container of water (e.g., the provided sink). Connect the flexible shaft from the water pump to the cooling pipe. Position the cooling pipe to direct water onto the cutting area. Adjust the cooling pipe switch to control the water flow during wet cutting.

Video 4.1: PYY Lapidary Saw Setup Guide. This video demonstrates the step-by-step process of assembling the PYY Lapidary Saw, including blade installation, blade cover attachment, and setting up the water cooling system.

5. OPERATION

The PYY Lapidary Saw offers multiple functionalities. Always ensure the saw is securely mounted and all safety precautions are followed before operation.

5.1 Cutting Operations

- **Power and Speed Control:** Connect the saw to a 110V power source. Use the front dial to adjust the motor speed from 0 to 10000 RPM, selecting the appropriate speed for your material.
- **Material Placement:** Place the material to be cut on the saw table. Use the pusher angle ruler to guide the material for precise cuts.
- **Wet Cutting:** For cutting hard materials like stone or jade, activate the water cooling system by turning on the water pump and adjusting the cooling pipe to direct water onto the blade. This reduces heat and dust,

prolonging blade life and improving cut quality.

- **Cutting Technique:** Slowly and steadily feed the material into the rotating blade. Avoid forcing the material, as this can cause kickback or damage the blade and motor.



Figure 5.1: The PYY Lapidary Saw in action, demonstrating its precision cutting capabilities on various materials including wood, acrylic, stone, and metal.

WET CUTTING FUNCTION

Cut Hard Materials Easily with Water Cooling System



Figure 5.2: Illustration of the wet cutting function, highlighting the water pump and cooling pipe for effective material cooling during operation.

5.2 Polishing, Grinding, and Engraving

The saw's versatile design allows for additional functions:

- **Polishing/Grinding:** With the fiber wheel attached to the left shaft, you can polish or grind materials. Gently press the material against the rotating fiber wheel.
- **Engraving/Drilling:** Connect the flexible shaft and handle to the left shaft. Attach appropriate engraving bits or drill chucks (1.5-10mm) to the handle for detailed work.

VERSATILE TOOL

Polish, Grind, Carve and Cut with a Single Tool



Burnish



Abrasion



Carvings



Wet Sawing

Figure 5.3: Visual representation of the saw's versatile functions, including burnishing, abrasion, carving with a flexible shaft, and wet sawing.

Video 5.4: PYY Lapidary Saw Operation. This video showcases the saw's various operational modes, including cutting different materials and utilizing its multi-function attachments for polishing and grinding.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your PYY Lapidary Saw.

- **Cleaning:** After each use, clean the saw table and blade area to remove dust and debris. For wet cutting, empty and clean the water reservoir.
- **Blade Inspection:** Regularly inspect saw blades for wear, damage, or dullness. Replace worn blades to maintain cutting efficiency and safety.

- **Motor Carbon Brush Replacement:** If the motor performance degrades or stops working, the carbon brushes may need replacement.

6.1 Replacing the Motor Carbon Brush

To replace a damaged motor carbon brush:

1. Disconnect the saw from the power source.
2. Locate the carbon brush access points on the motor housing.
3. Use a screwdriver to carefully remove the cap covering the carbon brush.
4. Extract the old, damaged carbon brush.
5. Insert a new carbon brush into the housing.
6. Replace the cap and tighten it securely with the screwdriver.

Video 6.2: How to Replace the Motor Carbon Brush. This video demonstrates the procedure for removing and replacing the motor's carbon brush, a key maintenance task for ensuring consistent motor performance.

7. TROUBLESHOOTING

If you encounter issues with your PYY Lapidary Saw, refer to the following common troubleshooting steps:

- **Saw does not power on:** Check the power connection and ensure the outlet is functional. Verify that the power switch is in the 'ON' position.
- **Motor runs but blade does not spin:** Ensure the blade is correctly installed and the spindle nut is tightened.
- **Reduced cutting performance:** The blade may be dull or damaged and requires replacement. Ensure the correct blade type is used for the material.
- **Excessive vibration or noise:** Check that the saw is securely mounted to the work surface. Inspect the blade for damage or improper installation.
- **Water cooling system not working:** Ensure the water pump is submerged in water and connected correctly. Check for kinks or blockages in the cooling pipe.

If problems persist after attempting these steps, please contact customer support for assistance.

8. SPECIFICATIONS

Feature	Specification
Brand	PYY
Model Number	PYYTJHC96011YEUSLA00002
Power	350W
Voltage	110 Volts
Speed	0-10000 RPM
Blade Material	Alloy Steel (Diamond and Woodworking blades included)
Max Stone Thickness	35mm (1.37 inches)
Product Dimensions	14.57"L x 11.22"W x 9.06"H

Item Weight	13.36 Pounds
Power Source	Corded Electric
Special Feature	Brushed Motor, Variable Speed

9. WARRANTY AND SUPPORT

PYY offers a one-year coverage for this product. For any technical issues or support needs, please feel free to reach out to our professional one-on-one technical support team. We are committed to providing assistance and ensuring your satisfaction with the PYY Lapidary Saw.