

## PYY PYYTJHC9601HYEUS

# PYY Lapidary Saw User Manual

Model: PYYTJHC9601HYEUS

Brand: PYY

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your PYY Lapidary Saw Model PYYTJHC9601HYEUS. Please read this manual thoroughly before operating the device and retain it for future reference. This lapidary saw is designed for precision cutting and polishing of various materials including wood, acrylic, small stones, jade, plastic, aluminum, chrome, and precious metals.

## 2. SAFETY INSTRUCTIONS

**WARNING: Failure to follow these safety instructions may result in serious injury or property damage.**

- Always wear appropriate personal protective equipment, including safety glasses, gloves, and hearing protection, when operating the saw.
- Ensure the saw is placed on a stable, level, and secure work surface. Use the fixed holes to secure the saw to prevent slips, vibrations, and accidents.
- Keep hands and fingers away from the rotating blade and other moving parts. Use push sticks or other appropriate tools to guide materials.
- Disconnect the power supply before changing blades, performing maintenance, or when the saw is not in use.
- Do not operate the saw in wet conditions unless specifically performing wet cutting with the integrated water cooling system. Ensure all electrical connections are dry.
- Ensure the workpiece is securely held before cutting.
- Do not overload the motor. Allow the saw to reach full speed before beginning a cut.
- Keep the work area clean and well-lit.
- Never leave the saw unattended while it is running.



Image: The PYY Lapidary Saw demonstrating its stable design with anti-slip features, emphasizing safety during operation.

### 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- PYY Lapidary Saw Unit
- Diamond Blades (for stone, jade, metal)
- Woodworking Blade (for wood, acrylic)
- Water Pump
- Serpentine Water Pipe (Cooling Pipe)
- Sink/Water Tray
- Wrench(es)
- Handle
- 1.5-10mm Drill Clamp
- Flexible Shaft
- Fiber Wheel
- Chuck Key
- Spindle
- Carbon Brush
- Blade Cover
- Pusher Angle Ruler
- Floor Wheel Connecting Rod
- Pressure Plate
- Cloth Wheel Sink Rod



Image: A complete accessory set for the PYY Lapidary Saw, including various blades, tools, and the water cooling system components.

## 4. PRODUCT OVERVIEW

The PYY Lapidary Saw is a versatile tool designed for precision cutting and polishing. Key components include:

- **Cutting Platform:** The main work surface where materials are cut.
- **Blade Guard:** Provides protection during operation.
- **Motor:** A powerful 350W motor providing up to 10000 RPM.
- **Speed Control Dial:** Allows adjustment of the blade's rotational speed.

- **Reset Button:** For safety and power control.
- **Water Sink/Tray:** Collects water during wet cutting.
- **Polishing/Grinding Wheel Attachment:** Located on the side for additional functionality.



Image: The PYY Lapidary Saw in operation, showing the diamond blade cutting a stone, with callouts for the reset button and water tray.

# POWERFUL 350W MOTOR

10000 RPM for Fast  
Clean and Precise Cuts



Image: A detailed view of the PYY Lapidary Saw's powerful 350W motor and the speed control dial, indicating up to 10000 RPM.

## 5. SETUP

Follow these steps to set up your PYY Lapidary Saw for safe and efficient operation.

### 5.1 Secure the Saw

Place the saw on a sturdy workbench. Use the pre-drilled fixed holes on the base of the saw to secure it with appropriate fasteners (not included) to prevent movement during operation.

### 5.2 Blade Installation

1. Ensure the saw is unplugged from the power source.

2. Carefully remove the blade guard if necessary.
3. Select the appropriate blade for your material: the woodworking blade for wood/acrylic, or the diamond/jade cutting blade for stone/metal.
4. Mount the chosen blade onto the spindle, ensuring it is seated correctly and the rotation direction matches the arrow on the saw.
5. Secure the blade with the provided washers and nut, tightening it firmly with the wrench.
6. Reattach the blade guard securely.

### **5.3 Water Cooling System Setup (for Wet Cutting)**

For cutting hard materials like stone or metal, the wet cutting function is essential to cool the blade and reduce dust.

1. Place the water sink/tray directly beneath the cutting blade.
2. Fill the sink with clean water to a level that allows the blade to dip into the water during operation.
3. Connect the water pump to the serpentine water pipe (cooling pipe).
4. Position the nozzle of the serpentine water pipe to direct water onto the cutting area.
5. Place the water pump into a separate container of water or directly into the main sink if it's large enough to accommodate it without interfering with the blade.

# WET CUTTING FUNCTION

Cut Hard Materials Easily with Water Cooling System



Image: The PYY Lapidary Saw configured for wet cutting, illustrating the water cooling system with the water pump and flexible cooling pipe directing water to the blade.

Your browser does not support the video tag.

Video: An official demonstration of the PYY Lapidary Saw, showcasing its compact design, blade installation, speed control, safety features, wet cutting system, and multi-function attachments for polishing and grinding.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On and Speed Control

1. Plug the saw into a suitable 110V power outlet.
2. Turn the speed control dial to the desired RPM. The saw offers a speed range of 0-10000 RPM. Start

at a lower speed for delicate work and increase as needed for harder materials.

3. Allow the blade to reach full operating speed before making contact with the workpiece.

## 6.2 Cutting Materials

The PYY Lapidary Saw is capable of cutting various materials. Always ensure the correct blade is installed for the material you are cutting.

- **Wood and Acrylic:** Use the woodworking blade. Guide the material slowly and steadily through the blade.
- **Small Stones, Jade, Plastic, Aluminum, Chrome, Precious Metals:** Use the diamond or jade cutting blade. For these materials, **wet cutting is highly recommended** to prevent overheating of the blade and material, and to minimize dust.
- The maximum thickness of stone that can be cut is 35mm (1.37 inches).



Image: The PYY Lapidary Saw demonstrating its precision cutting power with an upgraded diamond blade, capable of cutting wood, acrylic, stone, and metal.

## 6.3 Versatile Functionality (Polishing, Grinding, Carving)

The saw includes various attachments to expand its capabilities:

- **Polishing/Grinding:** Attach the fiber wheel to the side spindle. Use it to burnish and abrade materials for a smooth finish.
- **Engraving/Carving:** Connect a flexible shaft or drill chuck (using the 1.5-10mm drill clamp) to the motor output. This allows for intricate carving and engraving tasks.

# VERSATILE TOOL

Polish, Grind, Carve and Cut with a Single Tool



**Burnish**



**Abrasion**



**Carvings**



**Wet Sawing**

Image: A visual guide to the PYY Lapidary Saw's versatile functions, including burnishing with a fiber wheel, abrasion, detailed carvings using an attachment, and the wet sawing process.

## 7. MAINTENANCE

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

- **Cleaning:** After each use, especially after wet cutting, clean the saw thoroughly. Remove any debris, dust, or sludge from the cutting platform, blade guard, and water sink. Ensure all parts are dry to prevent rust.
- **Blade Inspection:** Regularly inspect blades for wear, damage, or dullness. Replace worn blades promptly to maintain cutting efficiency and safety.
- **Water System:** Clean the water pump and serpentine water pipe regularly to prevent blockages and

ensure proper water flow.

- **Carbon Brushes:** Periodically check the carbon brushes for wear and replace them as needed to maintain motor performance.

## 8. TROUBLESHOOTING

If you encounter issues with your PYY Lapidary Saw, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Saw does not start	No power supply; Loose connection; Faulty switch/motor	Check power outlet and cable; Ensure connections are secure; Press the reset button; If problem persists, contact support.
Poor cutting performance / Rough cuts	Dull or incorrect blade; Insufficient water (for wet cutting); Material fed too quickly	Replace blade; Ensure correct blade for material; Verify water flow for wet cutting; Reduce feed rate.
Excessive vibration or noise	Loose blade; Unsecured saw; Damaged blade; Worn motor bearings	Tighten blade nut; Secure saw to workbench; Inspect and replace damaged blade; Contact support if motor issue is suspected.
Water pump not working	Pump clogged; No power to pump; Low water level	Clean pump intake; Check pump connection; Ensure sufficient water in reservoir.

## 9. SPECIFICATIONS

Feature	Specification
Brand	PYY
Model Number	PYYTJHC9601HYEUS
Power	350W
Voltage	110V
Speed	0-10000 RPM
Product Dimensions	14.57"L x 11.22"W x 9.06"H
Item Weight	13.36 pounds
Blade Material	Alloy Steel (Diamond and Woodworking blades included)
Max Stone Thickness	35mm (1.37 inches)
Power Source	Corded Electric
Special Feature	Brushed Motor

## 10. WARRANTY AND SUPPORT

PYY offers a one-year coverage for this lapidary saw. For technical assistance or warranty claims, please

contact PYY customer support. Our professional one-on-one technical support team is available to assist you with any issues or questions you may have.

Please retain your proof of purchase for warranty purposes.