ANGELLOONG lapidary saw

ANGELLOONG Lapidary Saw User Manual

Model: lapidary saw

1. Safety Instructions

Always prioritize safety when operating the lapidary saw. Failure to follow safety guidelines can result in injury or damage to the equipment.

- **Wear appropriate personal protective equipment (PPE):** This includes safety glasses, gloves, and hearing protection.
- **Ensure a stable work surface:** Place the saw on a flat, stable, and non-slip surface to prevent tipping during operation.
- **Maintain a clean work area:** Keep the area free from clutter and debris to avoid accidents.
- **Disconnect power before maintenance:** Always unplug the machine from the power source before performing any assembly, disassembly, cleaning, or maintenance.
- **Use wet cutting system correctly:** Ensure the water reservoir is filled and the drip system is functioning to cool the blade and reduce dust. Never operate the saw dry.
- **Avoid loose clothing and jewelry:** These can get caught in moving parts.
- **Keep hands clear of moving blades and accessories:** Use push sticks or other safety devices when necessary.
- **Do not overload the motor:** Apply steady, moderate pressure when cutting or grinding. Excessive force can cause the motor to stall or overheat.
- **Supervise children:** This equipment is not a toy and should not be operated by children.

2. Product Overview

The ANGELLOONG Lapidary Saw is a versatile tool designed for precision cutting, grinding, carving, and polishing of various materials such as gemstones, jade, stone, precious metals, aluminum, chrome, wood, plastic, and paper. It features a powerful 110V motor with stepless speed control and a detachable flexible shaft for detailed work.



Figure 2.1: Overview of the ANGELLOONG Lapidary Saw with its main components.

Key Features:

- **Precision Cutting Setup:** Equipped with an angle adjustable ruler and blade guard for controlled small-material cutting.
- **Variable Speed Motor:** 200W motor with 0-10000 RPM adjustable speed for various applications.
- **Wet Saw Drip System:** Integrated water reservoir and drip system for cooling blades and dust reduction during operation.
- **Detachable Flexible Shaft:** 100cm flexible shaft for enhanced maneuverability in detailed grinding, carving, and polishing tasks.

3. Setup and Assembly

The lapidary saw requires assembly before first use. Please follow these steps carefully. An installation video is available for visual guidance.

Assembly Steps:

1. **Attach the Support Post, Water Reservoir, and Blade Guard:** Securely fasten the support post to the main unit. Mount

the water reservoir onto the support post and attach the blade guard over the saw blade area.

2. **Install the Blade or Chuck and Connect the Flexible Shaft:** Depending on your task, install either the cutting blade or the grinding chuck onto the appropriate spindle. Then, connect the flexible shaft to the designated port on the machine.
3. **Tighten All Parts and Add Water:** Ensure all components are securely tightened. Fill the water reservoir with clean water before operation to enable the wet cutting system.



Figure 3.1: Visual guide for the three-step assembly process of the lapidary saw.

Assembly Video Guide:

Video 3.1: This video demonstrates the assembly process for the ANGELLOONG Lapidary Saw, including attaching components and preparing for use.

4. Operating Instructions

Once assembled, the lapidary saw is ready for operation. Familiarize yourself with the controls and functions before beginning any work.

Controls and Features:



Figure 4.1: The control panel features an insulation switch and a stepless speed regulation knob for precise control.

- **Power Switch:** Located on the front panel, use this to turn the machine ON or OFF.
- **Speed Control Knob:** Adjust the rotation speed from 0 to 10000 RPM. Turn clockwise to increase speed, counter-clockwise to decrease. Select a suitable speed based on the material and task.
- **Wet Cutting System:** Ensure the water reservoir is filled. The drip system will automatically supply water to the blade during operation to prevent overheating and minimize dust.
- **Flexible Shaft:** Attach the flexible shaft for detailed work. Insert the desired accessory (grinding bit, carving tool, polishing wheel) into the chuck of the flexible shaft.

Applications:



Figure 4.2: The lapidary saw is suitable for a wide range of applications including cutting, engraving, drilling, grinding, polishing, and descaling.



Figure 4.3: The flexible shaft provides precision for intricate tasks like carving and polishing small items.

Operation Video Guide:

Video 4.1: This video illustrates the wet cutting operation of the lapidary saw, demonstrating its use for various tasks.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your lapidary saw.

- **Cleaning:** After each use, disconnect power and clean the machine. Remove any material residue from the cutting table, blade guard, and water reservoir. Use a soft cloth and mild detergent if necessary.
- **Water System:** Regularly check the water reservoir and tubing for blockages or leaks. Ensure the drip system is clean and provides a consistent water flow to the blade.
- **Blade/Accessory Inspection:** Inspect cutting blades and grinding/polishing accessories for wear, damage, or wobbling. Replace worn or damaged parts immediately to maintain cutting precision and safety.
- **Flexible Shaft Care:** Keep the flexible shaft clean and free of kinks. Store it properly to prevent damage.

- **Motor Ventilation:** Ensure the motor's ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** Store the lapidary saw in a dry, clean environment away from direct sunlight and extreme temperatures.

6. Troubleshooting

If you encounter issues with your lapidary saw, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Machine does not turn on	No power supply; Power switch off; Faulty power cord	Check power connection; Ensure switch is ON; Inspect power cord for damage.
Blade wobbles or cuts unevenly	Blade not installed correctly; Damaged or bent blade; Loose arbor nut	Reinstall blade, ensuring it's flush; Replace blade if damaged; Tighten arbor nut securely.
Insufficient water flow from drip system	Water reservoir empty; Tubing kinked or blocked; Drip nozzle clogged	Refill reservoir; Check and straighten tubing; Clean drip nozzle.
Motor bogs down or overheats	Excessive pressure during cutting; Material too hard for blade; Insufficient ventilation	Reduce cutting pressure; Use appropriate blade for material; Ensure ventilation is clear.
Flexible shaft not working	Not properly connected; Internal damage to shaft	Ensure secure connection to machine; Inspect shaft for damage, replace if necessary.

If the problem persists after attempting these solutions, please contact customer support.

7. Specifications

Detailed technical specifications for the ANGELLOONG Lapidary Saw.

Brand:
ANGELLOONG

Model Number:
lapidary saw

Power Source:
Corded Electric

Voltage:
110 Volts

Maximum Power:
200 Watts

Amperage:
2.5 Amps

Speed:
0-10000 RPM (Adjustable)

Material:
Metal

Included Components:
42.5" flexible shaft, 6" DISC X 2PCS, Angle adjustable ruler, Lapidary Saw, Lapidary water drip system

Specific Uses For Product:
Faceting machine, Jewelry saw, Mini table saw, Rock cutter, Wet saw for stone cutting

8. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase for any warranty claims.
Manufacturer: ANGELLOONG

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