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**Lysixo KH1**

# Lysixo 45W Ultrasonic Cutter and Polisher KH1

Instruction Manual

## 1. Introduction

The Lysixo 45W Ultrasonic Cutter and Polisher KH1 is a versatile 2-in-1 tool designed for precision cutting and surface finishing. Featuring a powerful 45W corded operation and 40KHz vibration, it offers five adjustable power levels for various materials and tasks. This manual provides essential information for safe and effective use, covering setup, operation, maintenance, and troubleshooting.

## 2. Safety Information

Please read and understand all safety warnings and instructions before operating the Lysixo KH1. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Power Source:** The Ultrasonic Knife KH1 has no built-in battery and must be connected to a power source to operate. Only use the included 45W power adapter or a third-party adapter rated at 45W or higher.
- **Blade Security:** Before each use, ensure the blade screw is fully tightened. Loose blades can cause injury or damage to the tool and workpiece.
- **Personal Protective Equipment:** Always wear appropriate safety glasses and gloves when operating the tool. Use the provided anti-cutting finger cots for added protection.
- **Work Area:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Material Compatibility:** Understand the material you are working with. Use appropriate power settings (e.g., lower settings for plastics) to prevent damage to the material or tool.
- **Tool Handling:** Do not force the tool. Use the correct tool for your application. The tool has a dual protection system (overload + temperature control) for safety.
- **Storage:** Store the tool and accessories in the provided storage bag in a dry, secure place, out of reach of children.




The image highlights the security lock feature of the Lysixo KH1. When activated, the lock indicator flashes, providing an additional layer of 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.




This comprehensive image displays all items included in the Lysixo KH1 Ultrasonic Cutting Knife kit. It features the main tool, a 45W charger, power cord, hex key, blade clamps, grinding strip clamp, blade fixing screws, a protective cover, anti-cutting finger cots, a storage bag, and a wide assortment of specialized blades and polishing strips.

- Lysixo KH1 Ultrasonic Cutting Knife
- 45W Power Adapter
- Power Cord
- Hex Key
- Blade Clamp (x2)
- Grinding Strip Clamp
- Blade Fixing Screws (x4)
- Protective Cover
- Anti-cutting Finger Cots (x6)
- Storage Bag
- **Blade Set:**

- 30° Ultra-fine Tip Blade
- 60° Universal Head Blade
- Chisel Head Blade
- Straight Blade
- Standard Blade (x40)
- Side Blade (x5)
- Curved Blade (x5)
- Wide Blade, Deep Chisel Blade (x10)
- Narrow Edged Deep Chisel Blade (x10)

- **Polishing Strips:** (x2)

## 4. Setup

1. **Connect Power:** Plug the 45W power adapter into a standard electrical outlet. Connect the power cord to the Lysixo KH1 tool. Ensure a secure connection.
2. **Select and Install Blade/Accessory:**
   - Choose the appropriate blade or sanding head for your task.
   - Using the provided hex key, loosen the blade screw at the tip of the tool.
   - Carefully insert the desired blade or sanding head into the slot.
   - Tighten the blade screw firmly with the hex key.**Warning:** A loose blade can detach during operation, causing injury or damage.
3. **Prepare Work Area:** Ensure your workspace is clean, well-lit, and free of obstructions. Secure your workpiece if necessary.

## 5. Operating Instructions

The Lysixo KH1 offers both cutting and polishing functionalities with adjustable power settings.




This image illustrates the key features of the Lysixo KH1, including its 45W high power output, 40KHz high-frequency cutting, and five adjustable intensity levels. It also shows various blades and polishing strips included.




This image demonstrates the versatility of the Lysixo KH1, showing its application in removing supports from 3D printed models, refining details on toy models, cutting wood boards, and precisely working with acrylic materials.

## 5.1 Powering On and Off

- To power on, press and hold the power button until the indicator lights illuminate.
- To power off, press and hold the power button again until the indicator lights turn off.

## 5.2 Adjusting Power Levels (5-Stage Speed Control)

The Lysixo KH1 features 5-stage power adjustment for optimal performance across different materials and tasks. The tool continuously locks onto the optimal resonance through smart frequency tracking.

- Press the power adjustment button (usually indicated by '+' or '-') to cycle through the five power levels.
- Lower settings are suitable for delicate materials like thin plastics or for fine polishing.
- Higher settings provide more power for tougher materials such as carbon fiber, thicker plastics, or for aggressive sanding.
- **Usage Tip:** For plastics, always start with a low power setting to prevent melting or unwanted deformation.

### 5.3 Cutting Operation

- Select an appropriate cutting blade (e.g., 30° ultra-fine tip for detailed work, 60° universal head for general cutting, chisel head for material removal).
- Apply gentle, consistent pressure. Let the ultrasonic vibration do the work.
- Guide the blade along your desired cutting line. Avoid excessive force, which can damage the blade or workpiece.
- The tool is effective for removing 3D print supports, cutting various plastics, wood, and other modeling materials.

### 5.4 Polishing/Sanding Operation

- Install the dedicated sanding head or a polishing strip.
- Use lower power settings for fine finishing and higher settings for initial material removal or derusting.
- Move the tool in a consistent pattern over the surface to achieve an even finish.
- Suitable for derusting and polishing metal or wood surfaces.

## 6. Maintenance

- **Cleaning:** After each use, disconnect the tool from power. Use a soft, dry cloth to wipe down the tool body. Remove any debris from the blade holder area.
- **Blade Replacement:** Replace blades when they become dull or damaged. Always use genuine Lysixo replacement blades for optimal performance and safety. Follow the blade installation steps in the "Setup" section.
- **Storage:** Store the Lysixo KH1 and its accessories in the provided storage bag in a cool, dry place, away from direct sunlight and moisture.

## 7. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Tool does not power on. | Not connected to power; faulty power adapter/cord. | Ensure power adapter is securely plugged into an outlet and the tool. Verify the power adapter is 45W or higher. |
| Poor cutting/polishing performance. | Dull or incorrect blade/sanding head; insufficient power setting; excessive force. | Replace blade/sanding head. Increase power setting. Apply lighter, consistent pressure. |
| Tool overheats or stops. | Overload protection activated; prolonged continuous use. | The tool's dual protection system has activated. Disconnect power, allow the tool to cool down. Reduce power setting or take breaks during prolonged use. |
| Blade is loose or vibrates excessively. | Blade screw not tightened properly. | Disconnect power and re-tighten the blade screw firmly with the hex key. |

## 8. Specifications

- **Brand:** Lysixo
- **Model:** KH1
- **Power Source:** Corded Electric (AC Charger)

- **Power Output:** 45W
- **Vibration Frequency:** 40KHz
- **Power Levels:** 5-Stage Adjustable
- **Recommended Uses:** Cutting, Grinding, Polishing, 3D Printing Support Removal, Woodworking, Prototyping, Model Modification
- **Color:** Black
- **Special Feature:** Lock Button, Smart Frequency Tracking, Dual Protection System (Overload + Temperature Control)

## 9. Warranty and Support

For any product-related questions, technical assistance, or support, please do not hesitate to contact us. Our customer support team is available to provide full assistance.

Please refer to your purchase documentation for specific warranty details and contact information.

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