

Hilitand 3682 mini electric grinder

Hilitand Mini Electric Drill Grinder User Manual

Model: 3682 mini electric grinder

1. INTRODUCTION

Thank you for purchasing the Hilitand Mini Electric Drill Grinder. This versatile tool is designed for precision tasks such as cutting, engraving, milling, grinding, polishing, disassembly, and drilling. Its compact size and adjustable speed make it ideal for various applications including wood carving, jade carving, and nail art. Please read this manual thoroughly before operation to ensure safe and efficient use of your device.

2. SAFETY INFORMATION

Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

- **Read all instructions:** Familiarize yourself with the tool's operation and safety guidelines.
- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses or goggles. Consider dust masks, gloves, and hearing protection depending on the task.
- **Keep work area clean and well-lit:** Cluttered or dark areas invite accidents.
- **Avoid dangerous environments:** Do not use power tools in damp or wet locations, or expose them to rain.
- **Stay alert:** Do not operate the tool when tired or under the influence of drugs, alcohol, or medication.
- **Secure workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Use the right tool for the job:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Disconnect power:** Always disconnect the tool from the power source before changing accessories, making adjustments, or storing the tool.
- **Maintain tools with care:** Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
- **Check for damaged parts:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.
- **Keep children away:** Do not let children or untrained persons operate this tool.

3. PRODUCT OVERVIEW

The Hilitand Mini Electric Drill Grinder is a versatile tool designed for various detailed tasks. It features a universal chuck for secure bit attachment and a 3-level speed adjustment function.

3.1 Package Contents

The package typically includes the following items:

- Hilitand Mini Electric Drill Grinder
- USB Power Cable
- Assorted Grinding/Polishing/Drilling Accessories (e.g., sanding bands, grinding stones, drill bits, brushes)
- Storage Box for Accessories

3.2 Product Features

- **Speed Range:** 5000-15000 R/min for various applications.
- **Adjustable Speed:** 3-level adjustment via switch button.
- **Universal Chuck:** Securely holds various drill bits and accessories.
- **Efficient Heat Dissipation:** Designed for prolonged use with low noise and vibration.
- **Portable Design:** Compact and lightweight for easy handling.
- **Power Source:** 5V 2A, designed for use with a socket power source (USB cable provided).

3.3 Product Components



Figure 1: Hilitand Mini Electric Drill Grinder, showing the main unit, accessory box, and USB power cable.

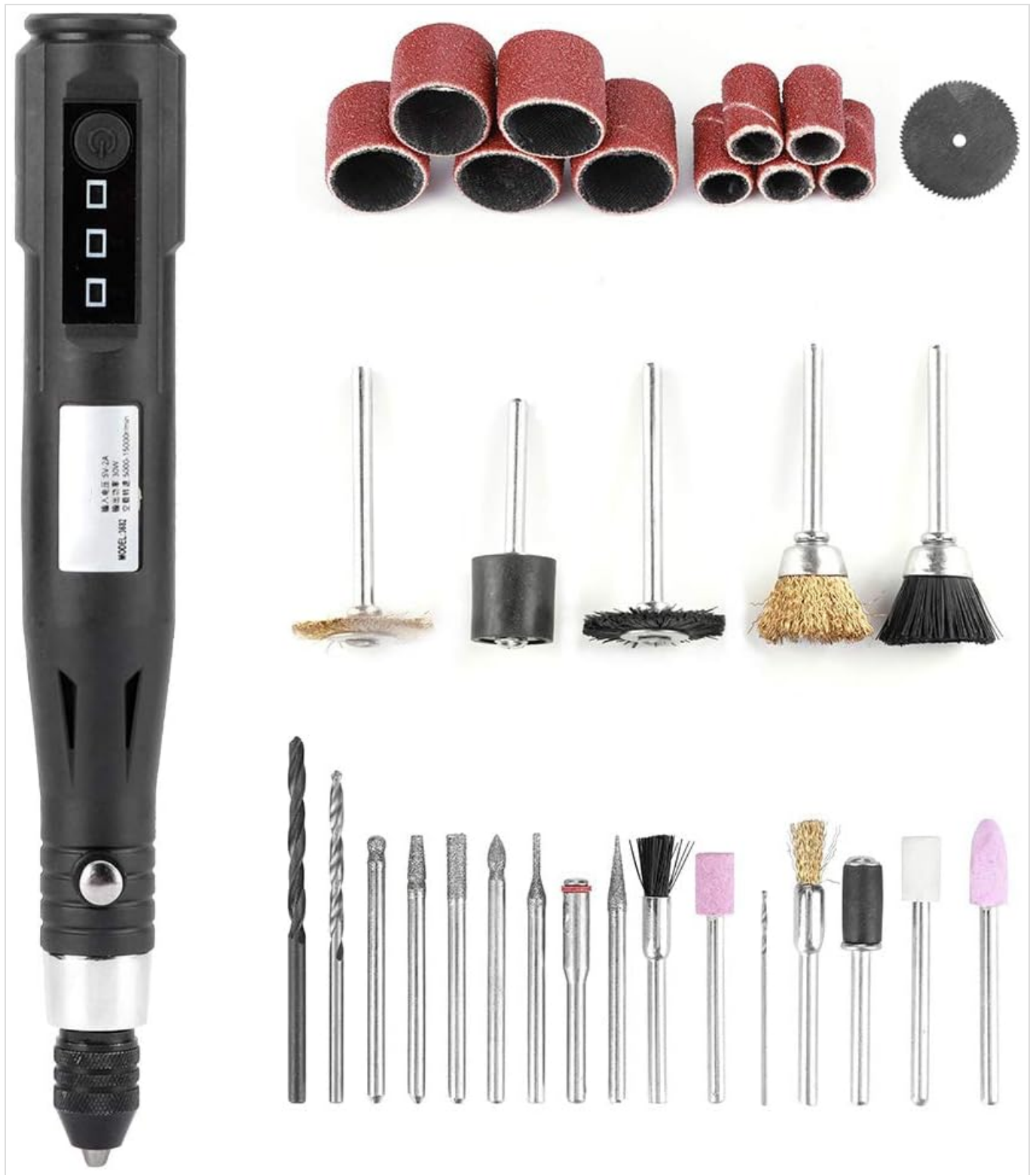


Figure 2: The mini electric drill grinder alongside its comprehensive set of accessories, including sanding drums, wire brushes, and various grinding and drilling bits.



Universal chuck, which can hold the drill firmly

Figure 3: Detail view of the universal chuck, designed to securely hold various drill bits and accessories.

4. SETUP

4.1 Attaching Accessories

1. Ensure the mini grinder is disconnected from the power source.
2. Loosen the universal chuck by rotating it counter-clockwise until the jaws are open wide enough to insert the desired accessory.
3. Insert the shank of the accessory (drill bit, grinding stone, brush, etc.) into the chuck as far as it will go, ensuring it is centered.
4. Tighten the chuck by rotating it clockwise until the accessory is firmly secured. Do not overtighten.
5. Gently pull on the accessory to confirm it is securely fastened before use.



Figure 4: Proper grip and accessory insertion for the mini electric drill grinder.

4.2 Power Connection

Connect the provided USB power cable to the mini grinder's power input port. Plug the other end of the USB cable into a compatible 5V 2A USB power adapter (not always included) or a USB port on a computer/power bank. The tool requires continuous power to operate; it does not have an internal rechargeable battery for cordless operation.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Speed Adjustment

1. Ensure an accessory is securely attached and the tool is connected to a power source.
2. Press the power button (often integrated with the speed adjustment switch) to turn on the tool.
3. The tool features a 3-level speed adjustment. Press the power/speed button repeatedly to cycle through the available speeds (5000 R/min, 10000 R/min, 15000 R/min). Select the appropriate speed for your task.
4. To turn off the tool, continue pressing the speed adjustment button until the tool stops.

The switch button has 3 levels adjustable

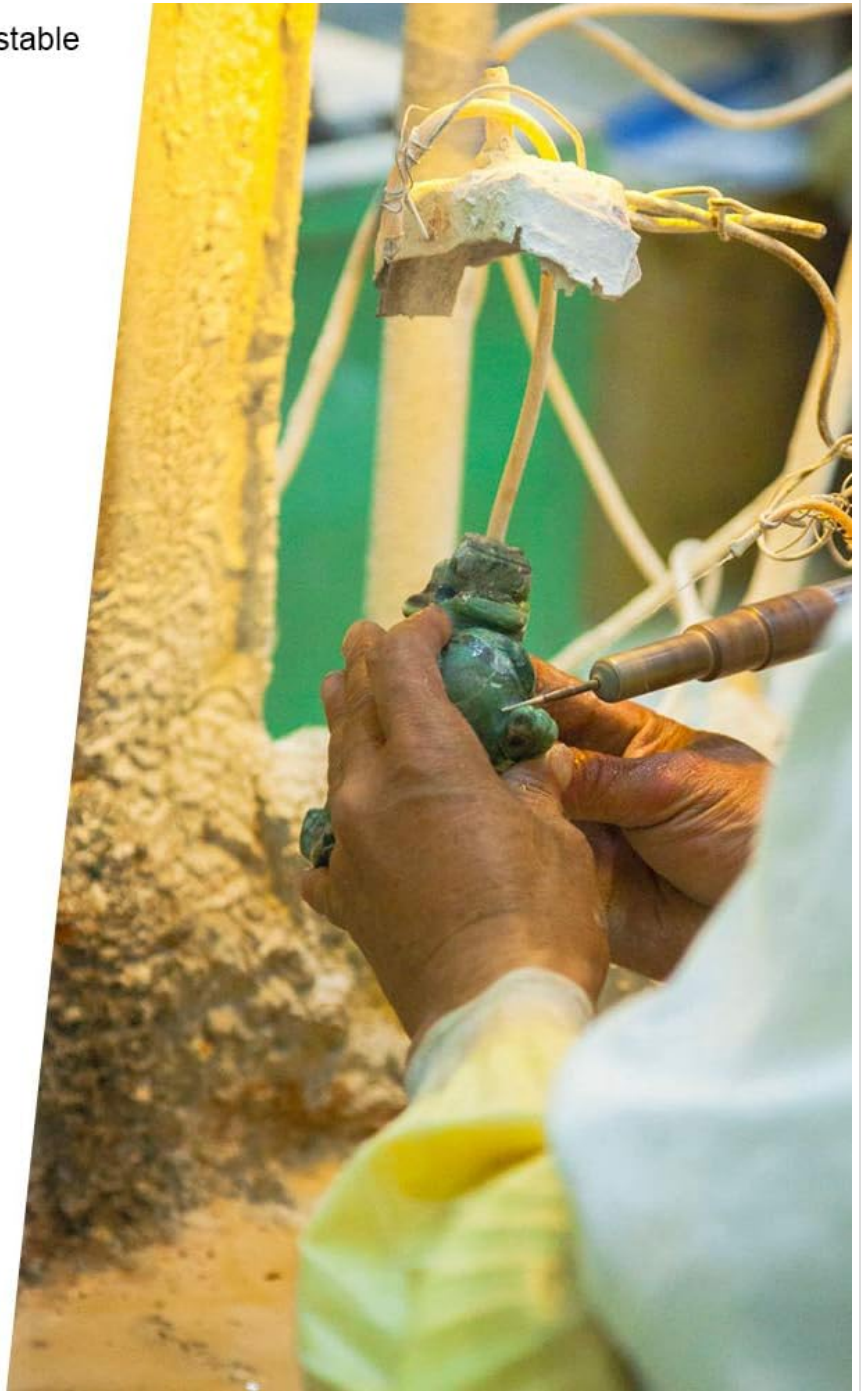


Figure 5: The mini electric drill grinder in operation, highlighting the power and speed adjustment buttons.

5.2 General Operation Tips

- **Light Pressure:** Apply light, consistent pressure. Let the tool and accessory do the work. Excessive pressure can cause the motor to overheat, damage the accessory, or lead to imprecise results.
- **Maintain Control:** Always hold the tool firmly with both hands if necessary, ensuring stable control over the workpiece.
- **Ventilation:** Ensure the tool's ventilation slots are not blocked during operation to allow for proper heat dissipation.
- **Material Compatibility:** Use appropriate accessories and speeds for the material you are working on (e.g., wood, plastic, soft metals, jade).



Figure 6: The mini electric drill grinder shown with a selection of accessories, illustrating its adaptability for diverse applications like carving and polishing.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Hilitand Mini Electric Drill Grinder.

- **Cleaning:** After each use, disconnect the tool from power and use a soft brush or compressed air to remove dust and debris from the ventilation slots and chuck area. Do not use solvents or harsh chemicals.
- **Accessory Care:** Clean accessories after use. Store them in the provided accessory box to prevent damage and loss.
- **Storage:** Store the tool and its accessories in a clean, dry place, away from direct sunlight and extreme temperatures. Keep out of reach of children.
- **Cord Inspection:** Periodically inspect the USB power cable for any signs of damage (fraying, cuts). If damaged, replace it immediately.



Figure 7: The mini electric drill grinder and its accessory box, emphasizing proper storage.

7. TROUBLESHOOTING

If you encounter issues with your Hiltand Mini Electric Drill Grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not turn on or operate.	Not connected to power source; insufficient power supply; faulty cable.	Ensure the USB cable is securely connected to both the tool and a 5V 2A power adapter. Verify the power adapter is working. This tool requires continuous power and does not operate wirelessly.

Problem	Possible Cause	Solution
Tool stops during operation.	Overload; power interruption.	Reduce pressure on the workpiece. Check power connection. Allow the tool to cool down if it feels hot.
Accessory wobbles or falls out.	Chuck not tightened properly; accessory shank is bent or too small.	Ensure the chuck is tightened firmly. Use accessories with appropriate shank sizes. Replace bent accessories.
Excessive noise or vibration.	Damaged accessory; internal issue.	Check if the accessory is damaged or unbalanced and replace if necessary. If the issue persists, contact customer support.
Missing power adapter.	The product typically includes only the USB cable, not the wall adapter.	Use any standard 5V 2A USB wall adapter (e.g., from a smartphone charger) to power the device.

8. SPECIFICATIONS

Feature	Detail
Brand	Hilitand
Model Number	3682 mini electric grinder
Voltage	5 Volts
Power Source	PowerSource (USB)
Maximum Rotational Speed	15000 RPM
Minimum Speed	5000 RPM
Item Weight	13.4 ounces (approx. 380 Grams)
Product Dimensions (L x W x H)	0.39 x 0.39 x 0.39 inches (approximate)
Color	Black
Recommended Uses	Drilling, Cutting, Engraving, Polishing, Grinding

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Hilitand Mini Electric Drill Grinder, please refer to the documentation included with your purchase or contact the seller directly. Hilitand is committed to providing quality products and customer service.

For further assistance or inquiries, you may visit the official Hilitand store on Amazon: [Hilitand Store](#).

Protection plans may be available for purchase separately to extend coverage beyond the standard warranty period.

Please check product listings for details.

