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› HARDELL Mini Cordless Rotary Tool Kit User Manual

HARDELL DM12411REDHD-1

HARDELL Mini Cordless Rotary Tool Kit

MODEL: DM12411REDHD-1

User Instruction Manual

1. Introduction

This versatile HARDELL Mini Cordless Rotary Tool Kit (Model DM12411REDHD-1) is designed for a variety of light-duty DIY tasks, including carving, sanding, grinding, polishing, drilling, etching, and engraving. Its compact and lightweight design, combined with 5-speed settings and USB-C charging, makes it an ideal tool for precision work and creative projects.

2. Package Contents

Your HARDELL Mini Cordless Rotary Tool Kit includes the following items:

- 1 x HARDELL Mini Cordless Rotary Tool (Red)
- 1 x Carrying Case
- 1 x USB-C Charging Cable
- 1 x Accessory Case with 61 Pcs Accessories (including sanding bands, polishing pads, grinding heads, drill bits, engraving tips, cutting wheels, collets, and wrench)
- 1 x User Manual



Figure 1: Complete HARDELL Mini Cordless Rotary Tool Kit contents.



Figure 2: Detailed breakdown of the 61-piece accessory set.

3. Setup

3.1 Charging the Device

Before first use, fully charge your rotary tool. The 3.7V rechargeable battery provides up to 200 minutes of continuous working time on a single charge. The indicator light will turn green when fully charged.

1. Connect the provided USB-C charging cable to the tool's charging port.
2. Plug the other end of the cable into a 5V 2A USB power adapter (not included).
3. The indicator lights will show charging progress.



Figure 3: Charging the HARDELL Rotary Tool.

3.2 Attaching Accessories

The tool supports various accessories for different tasks. Ensure the shaft size of the attachment matches the collet (1.0mm, 1.6mm, 2.3mm) for secure fitting and optimal performance.



Figure 4: General bit installation steps.

Figure 5: Installing a sanding band.



Figure 6: Fitting a cutting disc or sanding paper.

4. Operation

4.1 Power On/Off and Speed Control

The tool features a simple control panel for power and speed adjustments.

1. Press the power button to turn the tool ON or OFF.
2. Use the '+' and '-' buttons to cycle through the 5-speed settings: 5000, 8000, 11000, 14000, and 18000 RPM.
3. The LED indicator lights will show the current speed level.

SMART SPEED MEMORY

Simple Operation and Easy to Use



Permanently remember your last speed setting

SPEED SETTING



Stadium when closed



Stadium when reopened

Figure 7: Tool control panel.

61 PCS ACCESSORIES

Attachments



Tool Box X1



Wrench X1



Accessory Case X1



Type-C Cable X1

Carving



Diamond bits (Φ2.3mm) X5

Drilling



Φ 1.6mm X2
Φ 2.3mm X1
Φ 2.3mm X1

Grinding



Aluminum oxide Grinding wheel (Φ2.3mm) X5

Sanding

Sanding bands



60 Grit Mesh X14



120 Grit Mesh X14



Sanding Paper X10



Sanding shank (Φ2.3mm) X1

Collet



Φ1.0mm X1
Φ1.6mm X1
Φ2.3mm X1

Polishing



wool polishing wheel (Φ2.3mm) X2

Cutting



HSS X2



wheel mandrel X1

Figure 8: 5-Speed Setting Chart.

4.2 LED Work Light

The upgraded small cordless rotary tool features a blind spot lighting LED design that automatically illuminates your work area when the tool is powered on. This reduces backlight shadows and improves visibility for precise work, especially in dark areas or for intricate details.



Figure 9: LED Work Light in action.

4.3 Recommended Applications

The HARDELL Mini Cordless Rotary Tool is ideal for light-duty projects and fine DIY work. It is not suitable for heavy-duty cutting or industrial applications.

- **Sanding:** Perfect for smoothing surfaces on wood, plastic, and resin.
- **Polishing:** Achieve a high-gloss finish on various materials, including metal and resin.
- **Drilling:** Create small, precise holes in softwood, plastic, and resin.
- **Etching/Engraving:** Ideal for detailed work on glass, metal, wood, and stone.
- **Carving:** Suitable for intricate designs on wood, plastic, and soft stone.

- **Grinding:** For shaping and deburring various materials.
- **Cutting:** Use for light cutting tasks on thin plastics and soft materials.

Figure 10: Multi-purpose applications of the rotary tool.

5. Maintenance

5.1 Cleaning

Regular cleaning ensures the longevity and optimal performance of your tool. Always ensure the tool is powered off and unplugged before cleaning.

- Use a soft, dry cloth to wipe down the tool's body.
- Remove any dust or debris from the collet and spindle area using a small brush or compressed air.
- Clean accessories after each use to prevent buildup that could affect performance.

5.2 Battery Care

To maximize the lifespan of the built-in Lithium-Ion battery:

- Avoid fully discharging the battery frequently.
- Store the tool in a cool, dry place when not in use for extended periods.
- Recharge the tool periodically (e.g., every 3-6 months) even if not in use to maintain battery health.

6. Troubleshooting

- **Tool stops during use:** The tool has a built-in overload protection. If it encounters excessive pressure, it will stop rotating within 1 second to prevent damage. Reduce pressure and restart the motor. If the issue persists, ensure the accessory is correctly installed and not jammed.
- **Abnormal charging display:** Ensure you are using a 5V 2A charging head. For first-time use, charge for at least half an hour. If the machine rests for 10 minutes, the indicator light may turn green even if not fully charged. This is normal behavior.
- **Accessories not staying in/loose:** Ensure the collet is correctly installed and tightened. The shaft size of the attachment must match the collet. Mismatched sizes can result in vibrations and loss of control.

7. Specifications

Feature	Detail
Brand	HARDELL
Model	DM12411REDHD-1
Voltage	4 Volts
Battery Type	3.7V Lithium-Ion
Battery Capacity	2000mAh
Speed Settings	5 (5000/8000/11000/14000/18000 RPM)
Charging Port	USB Type-C

Charge Time	120-240 minutes
Continuous Working Time	Up to 200 minutes
Item Weight	13.1 ounces
Special Features	Cordless, Multi-Use, LED Indicator

8. Warranty and Support

The HARDELL Mini Cordless Rotary Tool Kit comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures product quality. It does not cover damage caused by misuse, accidents, unauthorized modifications, or failure to follow the instructions in this manual.

For any questions, technical support, or warranty claims, please contact HARDELL customer service:

Email: hardell.service@gmail.com

Our support team is dedicated to assisting you and will respond promptly to ensure your satisfaction.

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