

## HARDELL DM12405BLUEHD-2

# HARDELL Mini Cordless Rotary Tool Instruction Manual

Model: DM12405BLUEHD-2

## INTRODUCTION

Thank you for choosing the HARDELL Mini Cordless Rotary Tool. This versatile 5-speed, 3.7V rechargeable tool kit is designed for a wide range of light-duty DIY projects, including sanding, polishing, drilling, engraving, and woodworking. Please read this manual thoroughly before operation to ensure safe and efficient use of your tool.

## SAFETY INFORMATION

Always wear appropriate personal protective equipment, such as safety glasses, when operating the rotary tool. Keep the work area clean and well-lit. Ensure accessories are securely fastened before use. Do not press the spindle lock button while the tool is running. Keep out of reach of children. Avoid using the tool near flammable materials. Disconnect the tool from the charger before changing accessories or performing maintenance.

## PACKAGE CONTENTS

Your HARDELL Mini Cordless Rotary Tool kit includes:

- HARDELL Mini Cordless Rotary Tool
- Portable Storage Case
- USB-A to USB-C Charging Cable
- Operator's Manual
- 129 Accessories, including:
  - Sanding Bands (120 Grit Mesh)
  - Sanding Paper
  - Sanding Shanks
  - Wool Polishing Wheels
  - HSS Cutting Discs
  - Wheel Mandrels

- Diamond Bits (for carving/engraving)
- Drill Bits (various sizes)
- Aluminum Oxide Grinding Wheels
- Collets (1.0mm, 1.6mm, 2.3mm)
- Wrench

## PRODUCT OVERVIEW

Familiarize yourself with the components of your HARDELL Mini Cordless Rotary Tool:



*Image: HARDELL Mini Cordless Rotary Tool highlighting key features such as the Locking Collar, Spindle Lock Button, On/Off Button, Speed Control Buttons, Type-C Charging Port, and Unique Cooling Device.*

- **Locking Collar:** Firmly fixes accessories.
- **Spindle Lock Button:** Quick collet lock for fast accessory changes. Do not press when the device is running.
- **Nut & Collets:** Secures the accessory shank. Includes various collet sizes (1.0mm, 1.6mm, 2.3mm) for different bit sizes.
- **On/Off Button:** Powers the tool on and off.
- **Speed Control Button (+/-):** Adjusts between 5 variable speeds.

- **Speed Indicator Lights:** LED lights indicate the current speed setting.
- **Type-C Charging Port:** For convenient USB charging.
- **Unique Cooling Device:** Helps dissipate heat during operation.
- **LED Work Light:** Illuminates the work area for improved visibility.

## SETUP

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### Charging the Battery

Before first use, fully charge the rotary tool. Connect the provided USB-A to USB-C cable to the tool's Type-C charging port and a suitable USB power adapter (not included). The indicator light will be red during charging and turn green when fully charged.

*Refer to the video below for a demonstration of charging the battery (timestamp 1:34).*

### Installing Accessories

To install or change accessories:

1. Press and hold the Spindle Lock Button.
2. Unscrew the nut at the tip of the tool.
3. Select the appropriate collet size for your desired accessory and insert it into the chuck.
4. Insert the accessory shank into the collet.
5. Tighten the nut securely while still holding the Spindle Lock Button.



*Image: Visual guide demonstrating the four steps to install accessories: pressing the spindle lock, unscrewing the nut, choosing the collet, inserting the bit, and tightening the nut.*

### Fitting a Sanding Band

For sanding bands, first insert the sanding drum into the collet and tighten the nut. Then, loosen the screw of the sanding drum, install the sanding band, and finally press the spindle lock button while tightening the screw of the sanding drum with the wrench.



*Image: Four-step visual guide on how to properly fit a sanding band onto the rotary tool.*

### Fitting HSS Cutting Disc / Sanding Paper

Insert the wheel mandrel into the collet and tighten the nut. Dismantle the screw of the wheel mandrel, then install the wheel mandrel and assemble the HSS cutting disc or sanding paper. Press the spindle lock button and tighten the screw of the wheel mandrel with the wrench.



Image: Four-step visual guide on how to fit an HSS cutting disc or sanding paper onto the rotary tool.

## OPERATING INSTRUCTIONS

The HARDELL Mini Cordless Rotary Tool offers 5 variable speed settings for precise control across various tasks.

### Power On/Off and Speed Adjustment

Press the On/Off button to power on the tool. Use the '+' and '-' buttons to cycle through the 5 available speed settings. The LED indicator lights will show the current speed. Hold the On/Off button to power off the tool.

Refer to the video below for a demonstration of speed settings (timestamp 2:35).

### Applications

The tool is suitable for a variety of materials and tasks:



Image: Collage showing the rotary tool being used for sanding wood, carving glass, polishing beads, grinding metal, drilling a shell, and cutting a thin material.

- **Sanding:** Use sanding bands or paper for smoothing rough edges on wood, resin, and plastics.
- **Cutting:** Utilize HSS cutting discs for precise cuts on thin wood, plastic, or soft metals.



- **Engraving/Carving:** Diamond bits are ideal for intricate designs on glass, wood, metal, and stone.
- **Drilling:** Use drill bits for creating small holes in various materials like plastic, wood, or shells.
- **Grinding:** Aluminum oxide grinding wheels are suitable for shaping and smoothing metals, ceramics, and stone.
- **Polishing:** Wool polishing wheels can be used to bring a shine to metals, plastics, and jewelry.

*For detailed demonstrations of sanding, cutting, engraving, drilling, grinding, and polishing, please refer to the video below (timestamps 4:48 - 11:24).*

Your browser does not support the video tag.

*Video: A comprehensive review and testing of the HARDELL Mini Cordless Rotary Tool, demonstrating unboxing, charging, speed settings, and various applications including sanding, cutting, engraving, drilling, grinding, and polishing on different materials.*

## MAINTENANCE

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To ensure the longevity and optimal performance of your HARDELL Mini Cordless Rotary Tool:

- Always clean the tool and accessories after each use. Use a soft, dry cloth to wipe away dust and debris.
- Store the tool and all accessories in the provided portable storage case in a dry, cool place.
- Regularly inspect accessories for wear and tear. Replace worn or damaged bits to maintain performance and safety.
- Ensure the charging port is free from dust and debris.

## TROUBLESHOOTING

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- **Tool not turning on:** Ensure the battery is fully charged. Check the charging cable and adapter.
- **Accessory wobbles or falls out:** Make sure the collet size matches the accessory shank. Ensure the nut is tightened securely using the provided wrench.
- **Reduced performance:** Clean the tool and accessories. Ensure the battery is adequately charged. Replace worn accessories if necessary.
- **Overheating:** Allow the tool to cool down if it becomes excessively hot. Avoid prolonged heavy-duty use.

## SPECIFICATIONS

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- **Brand:** HARDELL
- **Model Number:** DM12405BLUEHD-2
- **Power Source:** Battery Powered (Lithium Ion)
- **Battery:** 1 x 9V (included)
- **Item Weight:** 0.6 Kilograms (1.32 pounds)
- **Item Dimensions (L x W x H):** 7.2 x 1.2 x 1.2 inches
- **Speed Settings:** 5-Speed Variable Control
- **Charging:** USB-C

## WARRANTY AND SUPPORT

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The HARDELL Mini Cordless Rotary Tool comes with a manufacturer's warranty. Please refer to the product packaging or contact HARDELL customer support for specific warranty details and assistance. For any questions or issues, please contact us via Amazon or email. We will help you within 12 hours.