


**HARDELL HDRT4110 7.2V Cordless Rotary Tool**



# HARDELL HDRT4110 7.2V Cordless Rotary Tool User Manual

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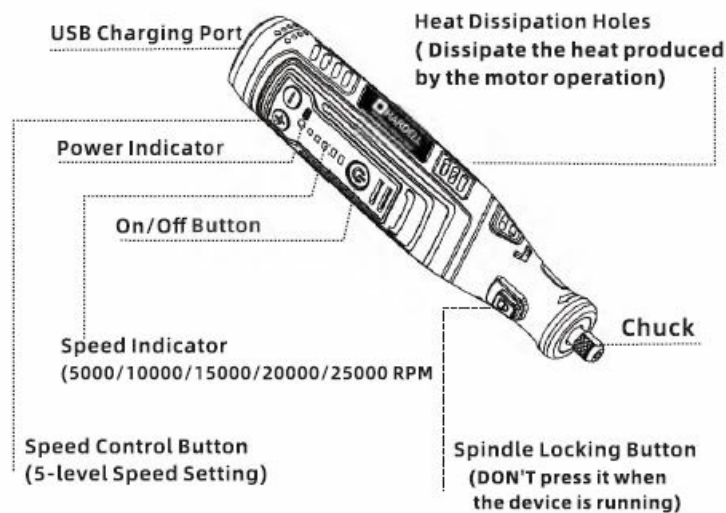


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Thank you for purchasing this product. To ensure proper use and trouble-free operation, please read this guide carefully before operating. If there is any issue, please contact us via Amazon or **email:** [hardell.service@gmail.com](mailto:hardell.service@gmail.com), We will help you within 12 hours.

## NOMENCLATURE



## SPECIFICATION

1. **Rated Voltage:** 7.2V DC
2. **Battery:** 2000mAH
3. **No Load Speed:** 5000-25000 RPM
4. **Collect Size:** 1.5/2.3/3.2MM
5. **Charging cable:** TPYE C

Do not wait until the tool is completely dead before plugging it in. If the battery is dead, do not press the power

button. This will damage the battery instead.

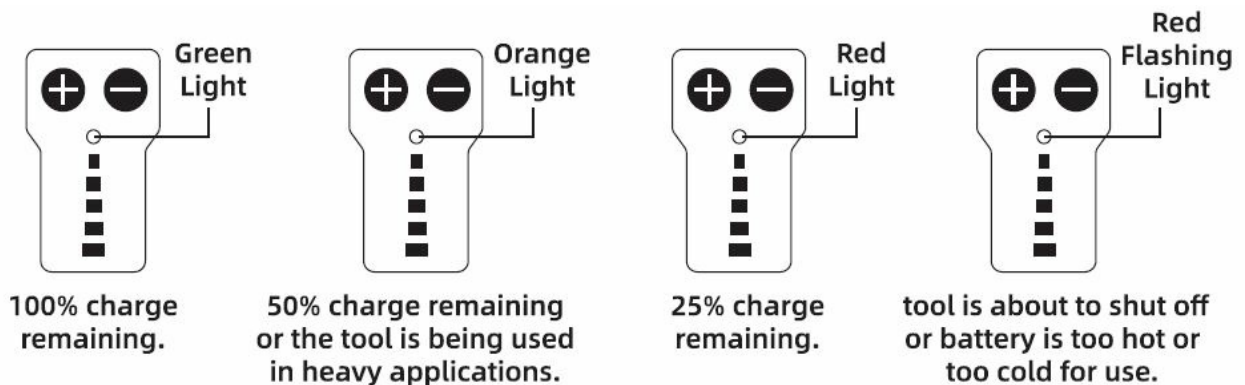
## CHARGING INSTRUCTIONS

### Battery Charge

1. This tool is equipped with a fuel gauge that tells you how much charge your battery has. A fully charged battery is indicated when the light is green. As the battery discharges the light will turn orange. When the light is red, the battery is almost empty.

When the battery is dead, the tool will automatically turn off. This will be a sudden stop as opposed to a gradual winding down of the tool. Simply recharge the tool and reuse it.

- **Green Light** – 100% charge remaining.
- **Orange Light** – 50% charge remaining or the tool is being used in heavy applications (low battery voltage due to current draw).
- **Red Light** – 25% charge remaining.
- **Red Flashing Light** – The tool is about to shut off or the battery is too hot or too cold for use. Turn the tool off and let the battery return to normal operating temperature before resuming use.



2. Be sure to charge the tool before initial use. Plug the power adapter jack onto the charging base and insert the power adapter plug into your standard power outlet. The blue LED lights located on the top side of the tool housing will start scrolling top/down to signal the battery is receiving a charge. Charging will automatically stop when the tool is fully charged. When all the blue LED lights are off charging is complete. At this point, the battery charge light will be green. The tool can be used even though the blue LED lights may still be scrolling top/down. The blue LED lights might require more time to stop scrolling depending on temperature.
3. The scope of the scrolling blue LED lights is to indicate that the tool is charging. It does not indicate the exact point of full charge. The blue LED lights will stop scrolling in less time if the tool is not completely discharged. In this case, the battery charge light could be green, orange or red. When the battery pack is fully charged you can leave the tool in the charging base.

### Important Charging Notes

1. The charger was designed to fast charge the battery only when the battery temperature is between 32°F (0°C) and 113°F (45°C). If the battery pack is too hot or too cold, the charger will not fast charge the battery. (This may happen if the battery pack is hot from heavy use)
2. When the battery temperature returns to between 32°F (0°C) and 113°F (45°C), the charger will automatically begin charging.
3. A substantial drop in operating time per charge may mean that the battery pack is nearing the end of its life and

should be replaced.

4. Remember to unplug the charger during the storage period.

**5. If the tool does not charge properly:**

- Check for voltage at the outlet by plugging in some other electrical device.
- Check to see if the outlet is connected to a light switch which turns power “off” when lights are turned off.
- Check the charging base and power supply terminals for dirt. Clean with a cotton swab and alcohol if necessary.

## **OPERATING INSTRUCTIONS**

### **Operating Speeds**

To select the right speed for each job, use a practice piece of material. “On/Off” Button

1. The tool is turned “ON” by the on/off button located on the top side of the tapered part of the housing.
2. To turn the tool “ON” press(2 seconds) the on/off button. The tool will start working at a speed of 20,000 rpm and the frontal LED light will turn on. To turn the tool “OFF” press the on/ off button.

### **Electronic Monitoring**

Your tool is equipped with an internal electronic monitoring system that helps to maximise motor and battery performance by limiting the current to the tool when overload and stall conditions occur. If you stall the tool for too long, or bind the bit in a work piece, especially at high speeds, the tool will automatically turn itself off thanks to the fallback built into it. Once this happens, simply take the tool out of the material you were stalled in, turn it back on again, adjust the speed if necessary, and continue using it. When the battery becomes close to empty, the tool may shut down automatically more frequently than normal. If this happens, it is time to recharge the tool.

### **Speed Control Buttons**

1. This Product is equipped with speed control buttons. The speed may be adjusted during operation by pressing the plus (+) or (-) minus buttons located on the top side of the battery housing. Speed will increment or decrease by 5,000 rpm from a minimum of 5,000 to a maximum of 25,000 pm.
2. The LED lights located alongside the buttons will illuminate according to the chosen speed. Every time the tool is turned off the speed set goes back to the medium level (20,000 rpm), so it might be necessary to increase/decrease the speed to the level that it was being used (e.g. 25,000 rpm) before the tool was turned off to keep working on the same application.

### **Tips**

1. Exert only moderate pressure on the workpiece and allow it to be processed at a uniform speed.
2. You will not finish your work sooner by exerting heavy pressure. On the contrary, heavy pressure will cause the drive unit to slow down or stop and will overload the motor.
3. For your safety, use a vice or screw clamp to secure small workpieces.
4. Precision work/engraving: Hold the drive unit like a pen (single-handed).
5. Rough work: Hold the drive unit like the handle of a hammer (two-handed).

## **ASSEMBLE & DISASSEMBLE ACCESSORIES**

1. Press and hold the spindle lock button, use the wrench to loosen the Locking Collar, and disassemble the accessory.
2. Turn the tool off and ensure that the rotating part is stopped before taking the next step.
3. Replace the accessories by inserting them into the collection as far as possible to minimize exhaustion and imbalance.
4. Do not press the spindle lock button when the motor is running.



## **STALL PROTECTION**

1. This tool has a stall protection feature built into it to protect the motor and battery in the event of a stall. If you put too much pressure on the tool for too long, or bind the bit in a workpiece, especially at high speeds, the motor will stop. Simply take the tool out of the material you were stalled in, and the tool will begin to spin again at the selected speed.
2. If the tool continues to stall for longer than 5 seconds, the tool will automatically shut itself off. This additional feature further protects the motor and the battery from damage. When the battery becomes close to empty, the tool may shut down automatically more frequently than normal. If this happens, it is time to recharge the battery.

## **CLEANING**

1. To avoid accidents, always disconnect the tool and charger from the power supply before cleaning
2. The tool can be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air.
3. Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean the tool by inserting pointed objects through an opening.
4. Certain cleaning agents and solvents damage plastic parts.

## **BALANCING ACCESSORIES**

For precision work, all accessories must be in good balance (much the same as the tires on your automobile). To true up or balance an accessory, slightly loosen the collet nut and give the accessory or collet a 1/4 turn. Retighten

the collet nut and run the Rotary Tool. You should be able to tell by the sound and feel if your accessory is running in balance. Continue adjusting in this fashion until the best balance is achieved.

## **SAFETY INSTRUCTIONS**

### **Warning!**

1. Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.
2. Before using the tool, ensure that it is ready and safe to use!
3. Do not use in wet conditions and environments.
4. Never use the tool near flammable gas or liquids.
5. Do not force to operate the device when it slows down or stops turn it off and finish the work process.
6. Wear Personal Protective Equipment while using the tool, such as ear defenders, eye protection, safety gloves and a dust mask.
7. Do not touch the drill/grinding tip during operation (even if it is at low speed). because it can cause injury!
8. Keep this product away from children.
9. Please send the waste batteries to the local battery collection point, do not throw away the batteries together with household garbage.

## **WARRANTY**

1. The product supports a 1-year warranty from the date of purchase.
2. This warranty does not apply to products that have been lost, altered, broken, or damaged by misuse or failure to follow the instructions provided with the product. Never try to repair the product by yourself. For any inquiries concerning our products, please contact our after-sales team via [hardell.service@mail.com](mailto:hardell.service@mail.com), we are free to help you solve your problem anytime.





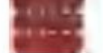







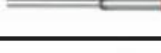




## **DISPOSAL AND RECYCLING**

The equipment is supplied in packaging to prevent it from being damaged in transit. The raw materials in this packaging can be reused or recycled. The equipment and its accessories are made of various types of material, such as metal and plastic. Never place defective equipment in your household refuse. The equipment should be taken to a suitable collection centre for proper disposal. If you do not know the whereabouts of such a collection point, you should ask in your local council offices.

## **STORAGE**

Store the equipment and accessories in a dark and dry place at above-freezing temperature. The ideal storage temperature is between 5 and 30 °C. Store the electric tool in its original packaging.

## **DESCRIPTION OF THE ACCESSORIES**

No.	picture	Accessory Name	Quantity	Application
1		wrench	1	Use to tighten or loosen collect/ Screws on top of sanding drum and Mandrel.
2		HSS drill	3	Use to drill soft material such as plastic, wood and fiberglass.
3		diamond cutter	3	Use to engrave jade, metal, glass, wood, plastic
4		HSS cutter	2	Use to shape and hollow most metals, plastics and woods.
5		sanding paper	26	Use to sand wood, metal and jade
6		Cut off wheels	10	Use to cut wood, metal, plastic, jade and glass
7		collet 2.3	1	
8		collet 3.2	1	
9		Felt Wheel (big)	4	Use to polish jade, glass, wood, plastic and metal.
10		Felt Wheel (small)	4	Use to polish jade, glass, wood, plastic and metal.
11		sanding bands	10	Use to sand wood, metal, plastic and jade
12		Connecting rod for sanding band	1	Used in combination with sanding bands.
13		mandrel for cut off wheels	1	Used in combination with cutting off wheels.
14		Mandrel for felt wheels	1	Used in combination with felt wheels.
15		Diamond Wheel	1	Used to cut wood, metal, plastic, jade, glass.
16		grinding wheels with shank	8	Suitable for grinding metal, glass, wood, plastic, jade and ceramics.
17		Stainless Steel Brush	3	Use to rough polishing of metal, jade, wood.

**NOTE:**

The product contains a total of 3 collets, Size: 1.5/2.3/3.2mm Usually, there is already a 1.5 mm collet on the rotary tool.



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## References

- [User Manual](#)

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