

HARDELL HDCS0168-1

HARDELL Mini Chainsaw Cordless 4 inch & 6 inch User Manual

Model: HDCS0168-1

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				& Support				

1. PRODUCT OVERVIEW

The HARDELL Mini Chainsaw is a versatile cordless electric tool designed for efficient wood cutting, tree pruning, and garden maintenance. This innovative tool features a unique 2-in-1 design, allowing users to switch between a 4-inch and a 6-inch guide bar and chain to accommodate various cutting tasks, from delicate branches to larger logs. Its lightweight and compact design ensures easy maneuverability and comfortable one-hand operation, making it suitable for a wide range of users and applications.



Image: The HARDELL Mini Chainsaw demonstrating its adaptability with both 4-inch and 6-inch guide bars. This feature allows for precise trimming of smaller branches and more robust cutting of larger wood sections.



Image: The HARDELL Mini Chainsaw in action, illustrating its key benefits including dual size capability, portability, long-lasting batteries, quiet operation, and high cutting efficiency.

2. IMPORTANT SAFETY INFORMATION

Always prioritize safety when operating power tools. Read and understand all safety warnings and instructions before use to prevent electric shock, fire, and serious injury.

General Safety Rules:

- **Wear Appropriate Personal Protective Equipment (PPE):** Always wear safety glasses or goggles, hearing protection, and heavy-duty gloves. Consider a hard hat and safety footwear for larger tasks.
- **Maintain a Safe Work Area:** Keep the work area clean, well-lit, and free from obstructions. Do not operate the chainsaw in wet or damp conditions.
- **Keep Bystanders Away:** Ensure children and other people are kept at a safe distance from the work area.
- **Secure Your Grip:** Always hold the chainsaw firmly with one hand, ensuring a stable and balanced stance.
- **Avoid Accidental Starting:** The chainsaw is equipped with an integrated safety switch to prevent unintentional activation. Always engage the safety lock when not actively cutting.
- **Protect Against Kickback:** Be aware of potential kickback. Avoid cutting with the tip of the guide bar.
- **Adjustable Safety Baffle:** Utilize the adjustable safety baffle to prevent sawdust and debris from splashing towards the operator during use.
- **Inspect Before Each Use:** Before starting, check the chain for sharpness and tension, and ensure all components are securely fastened.
- **Proper Chain Direction:** Ensure the chain is installed in the correct direction for safe and efficient cutting.



Image: Detailed view of the chainsaw's safety features, including the safety lock to prevent accidental starts and the rotating protective

baffle for debris deflection. Also shown are the heat dissipation design and the internal copper wire motor.

3. PRODUCT COMPONENTS

The HARDELL Mini Chainsaw package includes all necessary components for immediate use and maintenance. Please verify all items are present upon unboxing.



Image: A comprehensive display of all items included in the HARDELL Mini Chainsaw kit, ensuring users can easily identify each component.

Package Contents:

- 1 x Mini Chainsaw (assembled with 4-inch guide plate and one 4-inch chain)
- 2 x 21V 2.0Ah Lithium-Ion Batteries
- 1 x Fast Charger
- 1 x 4-inch Guide Plate (installed)

- 2 x 4-inch Chains (one installed)
- 1 x 6-inch Chain
- 1 x 6-inch Guide Plate
- 1 x Screwdriver
- 1 x Oil Bottle (empty, for chain lubrication)
- 1 x Pair of Gloves
- 1 x Carrying Storage Case
- 1 x User Manual (this document)

4. SETUP AND ASSEMBLY

The HARDELL Mini Chainsaw comes partially assembled. Follow these steps for initial setup and guide bar/chain replacement.

4.1. Battery Charging and Installation:

1. Before first use, fully charge both 21V Lithium-Ion batteries using the provided fast charger. The charging indicator on the charger will change when charging is complete.
2. To install a battery, align the battery pack with the slot at the bottom of the chainsaw handle and slide it in until it clicks securely into place.
3. To remove the battery, press the release button on the battery pack and slide it out.



Image: The two included 21V 2000mAh Lithium-Ion batteries, highlighting their capacity and estimated working and charging times.

4.2. Changing Guide Bar and Chain (4-inch to 6-inch or vice versa):

The chainsaw is pre-assembled with the 4-inch guide plate and chain. To switch to the 6-inch setup or replace a chain:

1. **Ensure Safety:** Always remove the battery before performing any assembly, adjustment, or maintenance.
2. **Remove Protective Baffle:** Rotate the protective baffle upwards to expose the guide bar and chain.
3. **Loosen Guide Bar Nut:** Use the provided screwdriver to loosen the nut securing the guide bar cover.
4. **Remove Old Chain and Guide Bar:** Carefully remove the guide bar cover, then lift off the old chain and guide bar.
5. **Install New Guide Bar and Chain:**
 - Place the new chain around the sprocket and guide bar, ensuring the cutting edges of the chain teeth are facing the correct direction (refer to the arrow on the guide bar or chainsaw body).
 - Align the guide bar with the mounting studs on the chainsaw body.
6. **Replace Guide Bar Cover and Tighten:** Reattach the guide bar cover and tighten the nut with the screwdriver. Ensure the chain has proper tension (see Maintenance section).

7. **Adjust Safety Baffle:** Return the protective baffle to its operational position.



Image: Visual representation of the chainsaw's adaptable design, allowing users to easily swap between 4-inch and 6-inch guide bars for different cutting requirements.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your HARDELL Mini Chainsaw.

5.1. Starting the Chainsaw:

1. **Insert Battery:** Ensure a fully charged battery is securely inserted into the chainsaw handle.
2. **Engage Safety Lock:** Press and hold the safety lock button (usually located near the trigger) with your thumb.
3. **Activate Trigger:** While holding the safety lock, press the main trigger to start the chainsaw. Release the safety lock once the chainsaw is running.
4. **One-Hand Operation:** The chainsaw is designed for comfortable one-hand operation due to its lightweight nature (approx. 3 lbs). Maintain a firm grip on the anti-slip rubber handle.



Image: The chainsaw being used with one hand, emphasizing its ergonomic design and light weight for ease of use.

5.2. Cutting Techniques:

- **Branch Pruning:** For small branches, position the chainsaw firmly against the branch and apply steady, gentle pressure. Allow the chain to do the work.
- **Wood Cutting:** For larger wood pieces (up to 6 inches in diameter), ensure the wood is stable. Start the cut slowly, allowing the chain to bite into the material. The chainsaw can cut a 6-inch thick branch in approximately 4 seconds, with a chain speed of 83.3 ft/s (14m/s).
- **Avoid Overloading:** Do not force the chainsaw through material. If the motor slows significantly, reduce pressure.
- **Battery Life:** A fully charged 21V 2000mAh battery provides approximately 45-60 minutes of working time, or over 50 cuts on a 6-inch log, depending on wood hardness.



Image: Demonstrates the high-efficiency cutting capability of the chainsaw, highlighting its rapid chain speed and quick cutting time for substantial wood pieces.

5.3. Applications:

The HARDELL Mini Chainsaw is suitable for a variety of tasks:

- Garden pruning and trimming
- Cutting firewood and small logs
- DIY woodworking projects
- Home improvement tasks
- Branch cutting in orchards and forests



EXTENSIVE APPLICATION

Universally used in gardens, farms, parks, forests, pastures, orchards & indoors for a wide range of cutting needs.



Wood
Cutting



Home
Improvement



Branch
Cutting



DIY
Work

Image: Various applications of the HARDELL Mini Chainsaw, illustrating its versatility for garden work, home projects, and general wood cutting.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your chainsaw. Always disconnect the battery before performing any maintenance.

6.1. Chain Lubrication:

- The chainsaw requires manual chain lubrication. Fill the provided oil bottle with appropriate chainsaw bar and chain oil (not included).
- Apply a small amount of oil directly to the chain and guide bar before and during extended use to reduce friction and wear.

6.2. Chain Tension Adjustment:

- Proper chain tension is crucial for safe and efficient operation. A chain that is too loose can derail, and one that is too tight can cause excessive wear and motor strain.
- To adjust, loosen the guide bar nut slightly. Use the tensioning screw (if present, or manually adjust the guide bar position) to achieve proper tension. The chain should be snug against the guide bar but still able to be pulled freely by hand.
- Retighten the guide bar nut firmly.

6.3. Cleaning and Storage:

- After each use, remove the battery and clean the chainsaw. Use a brush or compressed air to remove sawdust and debris from the guide bar, chain, and motor vents.
- Wipe down the exterior with a damp cloth. Do not use harsh chemicals.
- Store the chainsaw and batteries in the provided carrying case in a dry, cool place, away from direct sunlight and moisture.
- For long-term storage, ensure batteries are partially charged (around 50%) to prolong their lifespan.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your HARDELL Mini Chainsaw.

Problem	Possible Cause	Solution
Chainsaw does not start.	Battery not installed correctly or discharged. Safety lock not engaged.	Ensure battery is fully charged and securely inserted. Press and hold the safety lock button while pressing the trigger.
Chain not cutting efficiently or binding.	Dull chain. Incorrect chain tension. Lack of lubrication.	Replace or sharpen the chain. Adjust chain tension (refer to Maintenance). Apply chain oil.
Battery life is shorter than expected.	Battery not fully charged. Cutting very hard wood or forcing the cut. Battery degradation over time.	Ensure battery is fully charged before use. Avoid forcing the chainsaw; let the chain do the work. Consider replacing old batteries if performance significantly degrades.
Excessive vibration or noise.	Loose chain. Damaged chain or guide bar. Loose components.	Check and adjust chain tension. Inspect chain and guide bar for damage and replace if necessary. Ensure all screws and nuts are tightened.
Sawdust splashing excessively.	Safety baffle not positioned correctly.	Adjust the rotatable protective baffle to deflect sawdust away from you.

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the HARDELL Mini Chainsaw.

Feature	Detail
Brand	HARDELL
Model Number	HDCS0168-1

Feature	Detail
Power Source	Battery Powered
Voltage	21 Volts (AC)
Wattage	750 watts
Horsepower	550 Watts
Item Weight	3 Pounds (approx. 1.36 kg)
Product Dimensions	5"L x 4"W x 7"H (approx. 12.7cm L x 10.16cm W x 17.78cm H)
Chain Length	4 Inches & 6 Inches (interchangeable)
Chain Speed	14m/s (approx. 83.3 ft/s)
Batteries	2 x 2.0Ah Lithium Ion (included)
Battery Cell Type	Lithium
Manufacturer	HARDELL
Date First Available	September 22, 2023

9. WARRANTY AND CUSTOMER SUPPORT

HARDELL is committed to providing high-quality products. For any questions, concerns, or warranty claims, please contact HARDELL customer support.

While specific warranty details are not provided in this manual, customers are encouraged to retain their proof of purchase for any potential service needs. Additional protection plans may be available through your retailer.




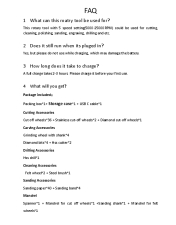


For further assistance, please visit the official HARDELL store or contact their customer service department through the retailer where the product was purchased.

[HARDELL Official Store: Visit HARDELL Store on Amazon](#)



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This manual is for informational purposes only. Specifications are subject to change without notice.

 <p>HARDELL 4-Inch Cordless Chainsaw USER MANUAL</p>	<p>Hardell 4-Inch Cordless Chainsaw User Manual</p> <p>Comprehensive user manual for the Hardell 4-Inch Cordless Chainsaw, including specifications, safety guidelines, operating instructions, troubleshooting, and warranty information.</p>
 <p>HARDELL Mini Cordless Rotary Tool Operator's Manual</p>	<p>HARDELL Mini Cordless Rotary Tool Operator's Manual & Guide</p> <p>Comprehensive operator's manual for the HARDELL Mini Cordless Rotary Tool, covering product descriptions, package contents, usage instructions, applications, safety guidelines, and warranty information.</p>
	<p>HARDELL 4V Cordless Rotary Tool Kit User Manual - Comprehensive Guide</p> <p>Detailed user manual for the HARDELL 4V Cordless Rotary Tool Kit. Learn about components, technical specifications, operating instructions, speed control, accessory usage, safety precautions, maintenance, and warranty. Includes 101 accessories and USB-C charging.</p>
	<p>HARDELL Mini Cordless Rotary Tool FAQ</p> <p>Frequently asked questions about the HARDELL Mini Cordless Rotary Tool, covering its uses, charging, and included accessories.</p>
 <p>HARDELL Mini Cordless Rotary Tool Operator's Manual</p>	<p>HARDELL Mini Cordless Rotary Tool Operator's Manual</p> <p>Operator's manual for the HARDELL Mini Cordless Rotary Tool, detailing components, specifications, package contents, usage instructions, applications, and safety guidelines.</p>
 <p>HARDELL DIGITAL CALIPER USER MANUAL</p>	<p>HARDELL Digital Caliper User Manual - Specifications, Maintenance & Troubleshooting</p> <p>Comprehensive user manual for the HARDELL Digital Caliper. Includes technical specifications, detailed nomenclature, measurement instructions, battery replacement guide, and troubleshooting tips for the 0-150mm/6-inch caliper.</p>