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› Ingco CRHLI20288 Cordless Rotary Hammer User Manual

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Ingco CRHLI20288 Cordless Rotary Hammer User Manual

Model: CRHLI20288 | Brand: Ingco

1. INTRODUCTION AND OVERVIEW

Thank you for choosing the Ingco CRHLI20288 Cordless Rotary Hammer. This powerful and versatile tool is designed for drilling and chiseling in various materials, including concrete, steel, and wood. Featuring a brushless motor and a robust SDS Plus chuck system, it offers efficient performance for demanding tasks. This manual provides essential information for safe operation, proper setup, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.

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P20S 同じバッテリー200+ツール

Image 1.1: The Ingco CRHLI20288 Cordless Rotary Hammer, showcasing its design and components.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating the tool.

General Power Tool Safety

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces (e.g., pipes, radiators, ranges, refrigerators). There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

3. PACKAGE CONTENTS

The Ingco CRHLI20288 Cordless Rotary Hammer package typically includes the following items:

- 1 x Ingco CRHLI20288 Cordless Rotary Hammer
- 3 x SDS Plus Drill Bits (8mm, 10mm, 12mm)
- 1 x Chisel
- 1 x Grease Tube
- 1 x Auxiliary Handle
- 1 x Depth Gauge
- User Manual

Note: The battery pack and charger are sold separately and are not included with the tool. Please ensure you have a compatible Ingco 20V Lithium-Ion battery and charger for operation.

ブラシレスモーター

電圧: **20V**

無負荷回転数: **0-930rpm**

衝撃率: **0-4400bpm**

衝撃エネルギー: **4.5J**

最大掘削能力:

コンクリート: **28mm**

スチール: **13mm**

木材: **40mm**

SDS Plusチャックシステム

ドリルビット**3本**

ノミ **1本**

カラーボックス包装



Image 3.1: The rotary hammer with its included accessories, such as drill bits, chisel, and grease tube.

4. SETUP

4.1 Battery Installation

1. Ensure the battery pack is fully charged before use.
2. Align the battery pack with the battery port on the tool handle.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the battery release button and slide the battery out.

4.2 Accessory Installation (SDS Plus Chuck System)

The SDS Plus chuck system allows for quick and secure bit changes.

1. Clean the shank of the drill bit or chisel before insertion.
2. Pull back the chuck sleeve on the front of the tool.
3. Insert the SDS Plus accessory into the chuck until it locks into place.
4. Release the chuck sleeve. The accessory should have a slight axial play, which is normal for SDS Plus systems.

5. To remove, pull back the chuck sleeve and pull the accessory out.



Image 4.1: Demonstrating the insertion of an SDS Plus drill bit into the tool's chuck system.

4.3 Auxiliary Handle and Depth Gauge Adjustment

1. Loosen the auxiliary handle by twisting its base counter-clockwise.
2. Adjust the handle to a comfortable and secure position for your grip.
3. Insert the depth gauge into the hole on the auxiliary handle.
4. Set the desired drilling depth by sliding the gauge.
5. Tighten the auxiliary handle by twisting its base clockwise to secure both the handle and the depth gauge.

5. OPERATING INSTRUCTIONS

5.1 Mode Selection

The rotary hammer features a 3-in-1 function selector knob to switch between operating modes:

- **Drilling Mode:** For drilling in wood, metal, and plastics without impact.

- **Hammer Drilling Mode:** For drilling in concrete, masonry, and stone with simultaneous rotation and impact.
- **Chiseling Mode:** For light chiseling work, such as removing tiles or breaking small sections of concrete, without rotation.

Rotate the mode selector knob to the desired setting. Ensure the knob clicks firmly into place for the selected mode.



Image 5.1: A detailed view of the tool, highlighting the 3-in-1 function adjustment knob and other key features.

5.2 Starting and Stopping the Tool

- **To Start:** Press the ON/OFF trigger switch. The tool speed is variable depending on how far the trigger is pressed.
- **To Stop:** Release the ON/OFF trigger switch.

5.3 Drilling Techniques

- **Concrete/Masonry (Hammer Drilling Mode):** Apply firm, steady pressure. Allow the tool's impact mechanism to do the work. Do not force the drill.
- **Steel (Drilling Mode):** Use appropriate metal drill bits. Start with a center punch to prevent the bit from wandering. Use cutting oil for better results and to prolong bit life.
- **Wood (Drilling Mode):** Use wood-specific drill bits. Apply moderate pressure.



Image 5.2: An operator demonstrating hammer drilling into a concrete surface.



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Image 5.3: The rotary hammer being used for drilling into a brick wall.

5.4 Chiseling Techniques

When using the chiseling mode, ensure the chisel is properly inserted and locked. Apply steady pressure and guide the tool to break or remove material. Always wear appropriate safety gear.



Image 5.4: An operator performing chiseling work on a wall with the rotary hammer.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Ingco CRHLI20288 rotary hammer.

6.1 Cleaning

- Always disconnect the battery pack before cleaning.
- Keep the ventilation openings clear to prevent overheating.
- Clean the tool casing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly clean the SDS Plus chuck to remove dust and debris, which can affect bit retention.

6.2 Lubrication

The SDS Plus chuck mechanism requires periodic lubrication to ensure smooth operation and prevent wear. Use the provided grease tube or a suitable SDS Plus grease.

1. Apply a small amount of grease to the shank of the drill bits and chisels before insertion into the chuck.

2. Periodically apply grease directly into the chuck opening.

6.3 Storage

- Store the tool in a dry, secure place out of reach of children.
- Remove the battery pack from the tool before storing for extended periods.
- Store battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your rotary hammer.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or not properly inserted.	Charge the battery. Ensure battery is fully inserted until it clicks.
Reduced drilling/chiseling performance	Worn or dull accessory. Incorrect mode selected.	Replace with a sharp accessory. Verify the correct operating mode is selected.
Accessory not locking into chuck	Chuck dirty or damaged. Accessory shank dirty.	Clean chuck and accessory shank. Apply grease. If problem persists, seek professional service.
Tool overheats	Blocked ventilation slots. Continuous heavy use.	Clean ventilation slots. Allow tool to cool down during prolonged use.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Ingco customer support or an authorized service center.

8. SPECIFICATIONS

Key technical specifications for the Ingco CRHLI20288 Cordless Rotary Hammer:

Feature	Specification
Voltage	20V
Motor Type	Brushless Motor
No-Load Speed	0-930 rpm
Impact Rate	0-4400 bpm
Impact Energy	4.5 J (max)
Chuck System	SDS Plus
Max. Drilling Capacity (Concrete)	28 mm
Max. Drilling Capacity (Steel)	13 mm
Max. Drilling Capacity (Wood)	40 mm
Weight	4.82 kg

Feature	Specification
Dimensions (Product)	5 x 10 x 10 cm
Power Source	Battery Powered
Material	Metal

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This Ingco product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms, conditions, and duration of the warranty. Keep your proof of purchase for any warranty claims.

9.2 Customer Support

For technical assistance, spare parts, or service inquiries, please contact your local Ingco dealer or visit the official Ingco website for contact information. When contacting support, please have your product model number (CRHLI20288) and serial number (if applicable) ready.