

INGCO CRHLI2201

INGCO CRHLI2201 Lithium-Ion Brushless Rotary Hammer Instruction Manual

Model: CRHLI2201

1. IMPORTANT SAFETY INSTRUCTIONS

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

General Power Tool Safety Warnings

- **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. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Wear a dust mask if operations create dust. Dress properly; avoid loose clothing or jewelry. Keep 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. Use power tools only with specifically designated battery packs.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

2. PRODUCT OVERVIEW

The INGCO CRHLI2201 is a powerful Lithium-Ion brushless rotary hammer designed for drilling, hammer drilling, and chiseling tasks in various materials. It features a robust brushless motor for extended tool life and efficiency.



Figure 1: INGCO CRHLI2201 Lithium-Ion Brushless Rotary Hammer with included drill bits and chisel. This image displays the main unit of the rotary hammer along with the three drill bits and one chisel that come with the product.

Key Components



Figure 2: Diagram illustrating the components of the INGCO CRHLI2201 rotary hammer. Key parts include the SDS-Plus Chuck, 4-in-1 Function Adjust Knob, Brushless Motor, Optimum Cooling System, Forward and Reverse Button, Variable Speed Reversing Trigger, LED Work Light, and 360° Auxiliary Handle.

- **SDS-Plus Chuck:** For quick and secure bit changes.
- **4-in-1 Function Adjust Knob:** Selects between drilling, hammer drilling, chiseling, and Vario-Lock modes.
- **Brushless Motor:** Provides increased efficiency, longer run-time, and extended tool life.
- **Optimum Cooling System:** Helps maintain motor temperature during prolonged use.
- **Forward and Reverse Button:** Changes the rotation direction of the chuck.
- **Variable Speed Reversing Trigger:** Allows for precise speed control and reverse operation.
- **LED Work Light:** Illuminates the work area for better visibility.
- **360° Auxiliary Handle:** Provides additional control and comfort, adjustable to any position.

3. WHAT'S INCLUDED

The INGCO CRHLI2201 package typically includes the following items:

- 1 x INGCO CRHLI2201 Rotary Hammer (Body Only)
- 3 x Drill Bits
- 1 x Chisel
- 1 x Auxiliary Handle
- 1 x Depth Gauge
- 1 x User Manual

Note: Battery and charger are NOT included with this product and must be purchased separately.

BATTERY & CHARGER

NOT INCLUDED



P20S Same Battery 200+ tools

Figure 3: This image clearly states that the battery and charger are not included with the INGCO CRHLI2201 rotary hammer, highlighting that these are separate purchases.

4. SETUP

4.1 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by twisting it counter-clockwise.
2. Slide the handle onto the front of the tool body.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the handle by twisting it clockwise until it is firmly secured.

4.2 Inserting/Removing Drill Bits and Chisels (SDS Plus Chuck System)



SDS PLUS CHUCK SYSTEM

Figure 4: Close-up image showing the SDS Plus chuck system of the INGCO CRHLI2201 rotary hammer, with a drill bit being inserted. This illustrates the quick and easy method for changing bits.

1. **To Insert:** Pull back the chuck sleeve, insert the SDS Plus bit into the chuck until it clicks into place. Release the sleeve. Pull on the bit to ensure it is securely locked.
2. **To Remove:** Pull back the chuck sleeve firmly and pull the bit out.

4.3 Installing the Battery Pack

1. Align the battery pack with the battery port on the tool.
2. Slide the battery pack into the port until it locks securely into place.
3. To remove, press the battery release button and slide the battery pack out.

5. OPERATING INSTRUCTIONS

The INGCO CRHLI2201 features a 4-in-1 function adjustment knob for versatile operation.



Figure 5: Visual guide demonstrating the four functions of the INGCO CRHLI2201 rotary hammer: Hammer Drilling, Drilling, Chiseling, and Vario-Lock. The image highlights the function adjustment knob and its corresponding settings.

5.1 Function Selection

Rotate the 4-in-1 function adjustment knob to select the desired mode:

- **Drilling Mode (Rotation Only):** For drilling in wood, metal, and plastics without impact.
- **Hammer Drilling Mode (Rotation with Hammering):** For drilling in concrete, masonry, and stone.
- **Chiseling Mode (Hammering Only):** For light chiseling work, such as removing tiles or breaking small concrete sections.
- **Vario-Lock Mode (Chisel Direction Adjustment):** Allows you to adjust the angle of the chisel for optimal working position. Once the desired angle is set, switch back to Chiseling Mode.



Figure 6: A person wearing safety gear, including a hard hat, safety glasses, and hearing protection, operating the INGCO CRHLI2201 rotary hammer for hammer drilling into a concrete wall. This demonstrates the tool in action for heavy-duty drilling.

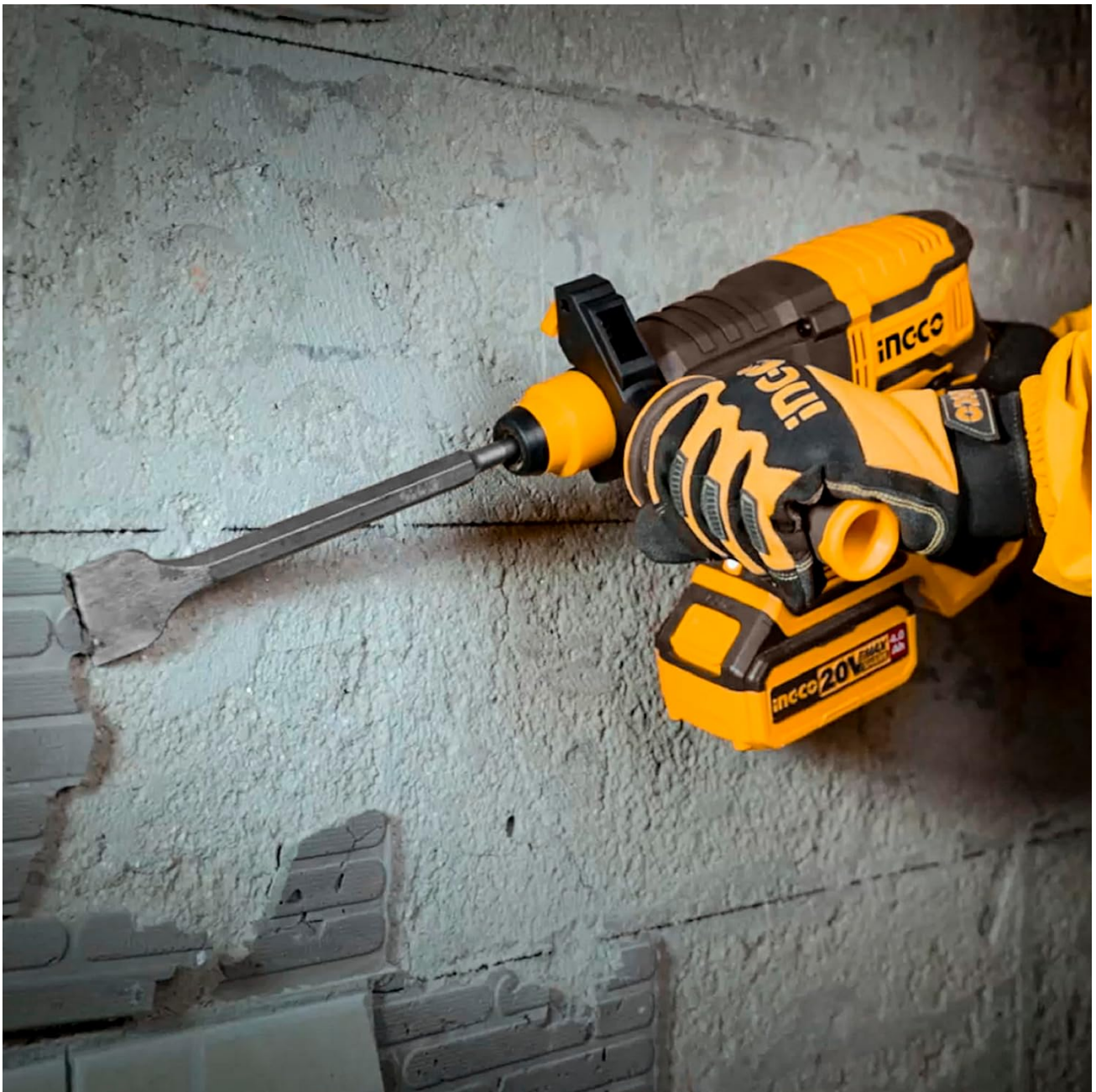


Figure 7: A person using the INGCO CRHLI2201 rotary hammer in chiseling mode on a concrete surface, demonstrating its capability for material removal.

5.2 Starting and Stopping

- **To Start:** Press the variable speed reversing trigger. The tool speed increases with trigger pressure.
- **To Stop:** Release the trigger.

5.3 Forward/Reverse Operation

The forward/reverse button is located above the trigger. Push the button to the left for forward rotation and to the right for reverse rotation. Always ensure the tool has come to a complete stop before changing direction.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the ventilation slots clean to prevent overheating. Use a soft, damp cloth to clean the tool casing. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the SDS Plus chuck to remove dust and debris. Apply a small amount

of grease to the bit shank before insertion to reduce wear.

- **Battery Care:** Store batteries in a cool, dry place. Do not store batteries in a discharged state.
- **Inspection:** Regularly inspect the tool for any signs of damage, loose screws, or worn parts. If damage is found, have the tool repaired by a qualified service technician.

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 improperly inserted; Faulty battery; Tool malfunction.	Ensure battery is fully charged and correctly inserted. Try a different battery. If problem persists, contact support.
Reduced power or performance	Low battery charge; Worn drill bit/chisel; Overheating.	Recharge battery. Replace worn accessories. Allow tool to cool down.
Bit not locking in chuck	Chuck sleeve not pulled back far enough; Debris in chuck; Incorrect bit type.	Ensure sleeve is fully retracted. Clean chuck. Use only SDS Plus bits.
Excessive vibration	Worn bit; Loose auxiliary handle; Internal damage.	Replace bit. Tighten auxiliary handle. If problem persists, seek professional service.

8. SPECIFICATIONS

Technical specifications for the INGCO CRHLI2201 Lithium-Ion Brushless Rotary Hammer.

BRUSHLESS MOTOR

Voltage: 20V
No-load speed: 0-1100rpm
Impact rate: 0-5400bpm
Impact energy: 2.0J
Max.drilling capacity:
Concrete: 22mm
Steel: 13mm
Wood: 28mm
Integrated work light
SDS Plus chuck system
3 Pcs drill bits
1 Pcs chisel
Packed by color box



Figure 8: Detailed specifications for the INGCO CRHLI2201 brushless rotary hammer, including voltage, no-load speed, impact rate, impact energy, max drilling capacity for concrete, steel, and wood, integrated work light, SDS Plus chuck system, and included accessories.

Specification	Value
Model Number	CRHLI2201 (CRHLI20208)
Voltage	20 V
No-load Speed	0-1150 / min
Impact Rate	0-5400 bpm
Single Impact Force	2.0 J
Max. Drilling Capacity (Concrete)	Φ22 mm

Specification	Value
Max. Drilling Capacity (Steel)	Φ13 mm
Max. Drilling Capacity (Wood)	Φ28 mm
Chuck System	SDS Plus
Motor Type	Brushless
Special Features	4-in-1 Function, Integrated LED Work Light, Forward/Reverse Function, 360° Auxiliary Handle
Product Dimensions (L x W x H)	23.5 x 30.5 x 10 cm
Weight	2.71 kg
Material	Metal
Color	Orange/Black

9. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the documentation provided with your purchase or visit the official INGCO website. Keep your proof of purchase for warranty claims.

Online Resources: For additional product information, FAQs, and support, please visit www.ingcotools.com.