

## Ingco CDLI20028

# INGCO CDLI20028 Lithium-ion Cordless Drill User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your INGCO CDLI20028 Lithium-ion Cordless Drill. Please read these instructions thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

## 2. GENERAL SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep the 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 such as pipes, radiators, ranges, and refrigerators. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with any other power tools. When the battery pack is not in use, keep it away from other metal objects.

## 3. PRODUCT OVERVIEW

The INGCO CDLI20028 is a versatile Lithium-ion cordless drill designed for various drilling and fastening tasks. It

features a high-performance motor, multi-gear mechanical speed regulation, and a high-quality lithium battery with charge display and protection features.

### 3.1 Included Components

The standard package for the INGCO CDLI20028 includes:

- 1 x INGCO CDLI20028 Cordless Drill
- 1 x Lithium-ion Battery Pack (1.5Ah)
- 1 x Battery Charger
- 1 x CR-V 65mm Bit



Figure 1: The INGCO CDLI20028 Lithium-ion Cordless Drill kit, showing the drill, battery, charger, and a CR-V 65mm bit in its packaging.

### 3.2 Key Features and Controls

Familiarize yourself with the main parts and controls of your cordless drill:

- **Chuck:** Holds drill bits and screwdriver bits securely.

- **Torque Adjustment Ring:** Allows selection of torque settings for various applications.
- **Speed Selector:** Switches between two mechanical speed ranges.
- **Trigger Switch:** Activates the drill and provides variable speed control.
- **Forward/Reverse Selector:** Changes the rotation direction of the chuck.
- **Battery Pack:** Provides power to the drill. Features a charge display.

## HIGH TORQUE MOTOR

High-performance copper wire motor, maximum torque 45N·m, full drilling force, no pressure for multi-material drilling



**Figure 2:** A close-up view of the INGCO CDLI20028 drill's front section, highlighting the chuck and the torque adjustment ring with numerical settings from 1 to 15, plus a drill mode symbol. The image also illustrates the internal high torque motor.

## MULTI-GEAR MECHANICAL SPEED REGULATION

Stepless speed regulation switch,  
smooth speed regulation for more ROP requirements



**Figure 3:** The INGCO CDLI20028 cordless drill, showing the main body, handle, and trigger. An arrow indicates the trigger mechanism for stepless speed regulation, and a graph illustrates the smooth power delivery from 0% to 100% engagement.

## HIGH-QUALITY LITHIUM BATTERY

With battery charge display,  
easy to master battery status.



**Figure 4:** The INGCO CDLI20028 cordless drill alongside its Lithium-ion battery pack and charger. The battery features a charge display and is equipped with over-current, under-voltage, over-temperature, and charge/discharge protection mechanisms.

## 4. SETUP

### 4.1 Charging the Battery

1. Ensure the battery pack is fully charged before first use.
2. Connect the charger to a standard power outlet.
3. Slide the battery pack onto the charger until it clicks into place.
4. The charging indicator lights on the battery or charger will show the charging status. Refer to Figure 4 for battery charge display.
5. Once fully charged, disconnect the charger from the power outlet and remove the battery pack.

### 4.2 Installing the Battery Pack

1. Align the battery pack with the base of the drill handle.
2. Slide the battery pack into the handle until it locks securely into place. Ensure it is firmly seated to prevent it

from falling out during operation.

3. To remove, press the release button(s) on the battery pack and slide it out.

### 4.3 Installing Drill Bits or Screwdriver Bits

1. Ensure the drill is switched off and the forward/reverse selector is in the neutral (locked) position.
2. Hold the rear part of the chuck and rotate the front part counter-clockwise to open the chuck jaws.
3. Insert the desired drill bit or screwdriver bit into the chuck, ensuring it is centered.
4. Rotate the front part of the chuck clockwise to tighten the jaws firmly around the bit. Hand-tighten only; do not use tools to tighten the chuck.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Selecting Rotation Direction (Forward/Reverse)

The forward/reverse selector switch is located above the trigger. Push it to the left for forward rotation (for drilling and tightening screws) and to the right for reverse rotation (for loosening screws). Position the switch in the center to lock the trigger and prevent accidental starting.

### 5.2 Adjusting Speed

The drill features two mechanical speed settings and a variable speed trigger.

- **Mechanical Speed Selector:** Use the switch on top of the drill to select between low speed (for high torque applications like driving screws or drilling large holes) and high speed (for faster drilling with smaller bits).
- **Variable Speed Trigger:** The drill speed is controlled by the amount of pressure applied to the trigger switch. Pressing the trigger lightly results in lower speed, while pressing it fully results in maximum speed for the selected mechanical range.

### 5.3 Adjusting Torque

The torque adjustment ring allows you to set the amount of torque the drill will apply before the clutch disengages. This prevents over-driving screws or damaging the workpiece.

- Rotate the torque adjustment ring to the desired setting. Lower numbers indicate lower torque, suitable for small screws or soft materials. Higher numbers provide more torque for larger screws or harder materials.
- For drilling, set the ring to the drill symbol (usually the highest setting) to bypass the clutch and provide maximum power. The maximum torque for this model is 45 Newton Meters.

### 5.4 Drilling and Screwing

1. Select the appropriate bit for your task.
2. Set the rotation direction (forward for drilling/driving, reverse for removing).
3. Adjust the speed and torque settings as required for the material and application.
4. Position the drill firmly against the workpiece.
5. Start the drill by gently pressing the trigger, gradually increasing pressure to achieve the desired speed.
6. Maintain a steady, even pressure. Do not force the drill.
7. When finished, release the trigger and wait for the chuck to stop rotating before setting the tool down.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your INGCO CDLI20028 drill.

- **Cleaning:** Keep the ventilation openings of the tool clean to prevent overheating. Use a soft, damp cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store the battery pack in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods. The battery features built-in protection against over-current, under-voltage, over-temperature, and charge/discharge issues.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Storage:** When not in use, store the drill, battery, and charger in a secure, dry place out of reach of children.

## 7. TROUBLESHOOTING

If you encounter issues with your drill, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed; Forward/reverse selector in neutral (locked) position; Faulty battery or tool.	Charge battery and ensure it is securely installed. Move forward/reverse selector to forward or reverse. Test with a different battery if available. If problem persists, contact support.
Loss of power during operation	Battery charge is low; Overload protection activated.	Recharge the battery. Reduce pressure on the drill or use a lower speed/higher torque setting. Allow the tool to cool down if it has been under heavy load.
Bit slips in chuck	Chuck not tightened sufficiently; Bit shank is dirty or damaged.	Ensure the chuck is tightened firmly by hand. Clean the bit shank. Replace damaged bits.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	CDLI20028
Brand	Ingco
Power Source	Battery Powered (Lithium-ion)
Maximum Torque	45 Newton Meters
Number of Speeds	2 (Mechanical)
Product Dimensions (L x W x H)	28L x 18W x 8H Centimeters
Item Weight	1000 Grams
Material	Metal
Included Components	1 x cordless drill

## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your INGCO CDLI20028 Lithium-ion Cordless Drill, please refer to the warranty card included with your product or contact INGCO customer service directly. Keep your

purchase receipt as proof of purchase for any warranty claims.