

Dong Cheng DCZC22

DongCheng 20V Max Cordless Rotary Hammer Drill DCZC22 User Manual

Model: DCZC22

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DongCheng 20V Max Cordless Rotary Hammer Drill, model DCZC22. Please read this manual thoroughly before using the tool and retain it for future reference.

2. GENERAL SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **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.

3. PRODUCT OVERVIEW

The DongCheng DCZC22 is a versatile 20V Max Cordless Rotary Hammer Drill designed for various drilling and demolition tasks. It features a brushless motor, SDS-Plus chuck, and four operating modes.



Figure 1: Labeled components of the DongCheng DCZC22 Rotary Hammer Drill, including the SDS Plus Chuck, Mode Switch, Brushless Motor, Variable Speed Trigger, Auxiliary Handle, and Battery Indicator.

Key Features:

- **Impact Energy:** 2.1 Joules for efficient drilling in concrete.
- **Brushless Motor:** Provides 0-1400 RPM and 4,500 BPM for enhanced performance and durability.
- **4 Application Modes:** Hammer, Drilling, Chisel, and Rotary Hammer for diverse applications.
- **SDS-Plus Chuck:** Enables quick and secure bit changes.
- **Ergonomic Design:** Features a cushioned overmold grip and a 360° rotatable auxiliary handle for comfort and control.
- **Integrated LED Work Light:** Illuminates the workspace for improved visibility.
- **Battery System:** Powered by a 20V Max Lithium-Ion battery with a 4-bar fuel gauge.

4. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

INCLUDES



4.0Ah Li-ion Battery



2A Charger



1/4" Drill Bit



3/8" Drill Bit



5/16" Drill Bit



1/2" Drill Bit



Storage Box

Figure 2: The complete package contents, showing the rotary hammer, 4.0Ah Li-ion battery, 2A charger, four SDS-Plus drill bits (1/4", 3/8", 5/16", 1/2"), and a heavy-duty plastic storage box.

- 1 x DongCheng 20V Max Rotary Hammer (DCZC22)
- 1 x 4.0Ah Li-ion Battery
- 1 x 2A Charger
- 4 x SDS-Plus Drilling/Drill Bits (various sizes)
- 1 x Auxiliary Handle
- 1 x Heavy-Duty Plastic Storage Box
- 1 x User Manual (this document)

5. SETUP

5.1 Battery Charging

1. Insert the 4.0Ah Li-ion battery into the 2A charger.
2. Plug the charger into a standard power outlet.
3. The charger will indicate charging status: Red light for charging, Green steady light for charge complete, Green blinking for battery removed, Flash Red light for battery temperature too high.
4. Allow the battery to fully charge before first use.

5.2 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by twisting it counter-clockwise.
2. Slide the handle onto the front of the drill body.
3. Adjust the handle to a comfortable and secure position for your application. The handle can rotate 360 degrees.
4. Tighten the handle by twisting it clockwise until it is firmly secured.

5.3 Inserting and Removing SDS-Plus Bits

1. **Inserting:** Pull back the SDS-Plus chuck collar. Insert the SDS-Plus bit into the chuck until it clicks into place. Release the collar. Tug on the bit to ensure it is securely locked.
2. **Removing:** Pull back the SDS-Plus chuck collar and hold it. The bit will release. Carefully remove the bit.

6. OPERATION

6.1 Selecting Operating Modes

The rotary hammer drill features a mode selector knob to switch between four distinct operating modes. Rotate the knob to the desired setting:



1.Drilling:

Drilling holes in metal/wood/plstic



2.Hammer Drilling:

Hammer Drilling in the masonry/brick/Concrete

4 MODES OPERATION



3.Demolition:

Grooving in brick and concrete,removing ceramic tiles



4.Chisel Angle Adjust:

Adjusting the angle of the chisel head
(This mode is not to be used for drilling/chiseling).

Figure 3: The four operational modes of the DongCheng DCZC22, including Drilling for metal/wood/plastic, Hammer Drilling for masonry/brick/concrete, Demolition for grooving/removing tiles, and Chisel Angle Adjust.

- **Drilling Mode (Drill Icon):** For drilling holes in wood, metal, and plastic without hammer action.
- **Hammer Drilling Mode (Drill and Hammer Icon):** For drilling in concrete, masonry, and brick with hammer action.
- **Demolition Mode (Hammer Icon):** For light chiseling and demolition work, such as grooving in brick or concrete, or removing ceramic tiles.
- **Chisel Angle Adjust Mode (Chisel with Rotation Icon):** Allows adjustment of the chisel bit's angle. This mode should only be used for positioning the chisel, not for drilling or chiseling operations.

6.2 Variable Speed Trigger

The tool is equipped with a variable speed trigger. Pressing the trigger further increases the speed and impact frequency. Release the trigger to stop the tool.

6.3 Forward/Reverse Switch

Located above the trigger, the forward/reverse switch allows you to change the rotation direction of the drill bit. Push the switch left for forward rotation and right for reverse rotation. Ensure the tool has come to a complete stop before changing direction.

6.4 Using the LED Work Light

The built-in LED work light automatically activates when the trigger is pressed, illuminating the work area for improved visibility in low-light conditions.

7. MAINTENANCE

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

7.1 Cleaning

- Always disconnect the battery pack before cleaning.
- Use a soft, damp cloth to clean the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- Clean the SDS-Plus chuck regularly to ensure smooth bit insertion and removal.

7.2 Battery Care and Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically.
- Avoid exposing batteries to water or moisture.

7.3 General Inspection

- Periodically inspect the power cord of the charger for damage.
- Check for any loose screws or damaged parts. Tighten or replace as needed.
- Ensure the auxiliary handle is securely fastened before each use.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted	Charge battery fully; ensure battery is securely inserted.
Reduced power or performance	Battery charge low	Recharge the battery.
Bit not locking into chuck	Chuck collar not pulled back sufficiently; debris in chuck	Pull collar back fully; clean chuck and bit shank. Ensure using SDS-Plus bits.

Problem	Possible Cause	Solution
Overheating	Blocked ventilation slots; continuous heavy use	Clear ventilation slots; allow tool to cool down.
Battery indicator shows error	Battery abnormality or temperature issue	Refer to battery charging section for indicator meanings. Allow battery to reach normal temperature. If problem persists, contact support.

9. SPECIFICATIONS

UPGRADE CYLINDER

ENSURE STRONG POWER OUTPUT

Max. Power Output	420W
Impact Energy	2.1J
No-load Speed	0-1400/min
Rated Impact Frequency	0-4500/min
Max. Drilling Capacity	
Concrete	Φ22mm
Steel	Φ13mm
Wood	Φ28mm

Figure 4: Detailed technical specifications for the DongCheng DCZC22 Rotary Hammer Drill.

Feature	Specification
Model	DCZC22

Feature	Specification
Power Source	Battery Powered
Voltage	20 Volts
Battery Capacity	4.0 Ah Lithium Ion
Maximum Rotational Speed	1400 RPM
Rated Impact Frequency	4500 BPM
Impact Energy	2.1 Joules
Chuck Type	SDS-Plus
Max. Drilling Capacity (Concrete)	22 mm (0.88 inches)
Max. Drilling Capacity (Steel)	13 mm (0.51 inches)
Max. Drilling Capacity (Wood)	28 mm (1.10 inches)
Item Weight	4.5 Pounds (tool only)
Product Dimensions	11.4"L x 2.2"W x 8.3"H
Special Feature	4-Mode Operation, Brushless Motor, LED Work Light

10. WARRANTY INFORMATION

The DongCheng 20V Max Cordless Rotary Hammer Drill, model DCZC22, comes with a **5-Year Limited Warranty**. This warranty covers defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty card included with your product or contact DongCheng customer support.

11. SUPPORT

If you have any questions, require technical assistance, or need to make a warranty claim, please contact DongCheng customer support. Refer to the contact information provided on the product packaging or the official DongCheng website for the most up-to-date support details. You can also refer to the official PDF user manual available online [DongCheng DCZC22 User Manual \(PDF\)](#)