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Makita DTW285Z

Makita DTW285Z 18V Li-Ion LXT Brushless Impact Wrench User Manual

Model: DTW285Z

1. Introduction

The Makita DTW285Z is a powerful and compact 18V Li-Ion LXT Brushless Impact Wrench designed for professional and demanding fastening applications. Featuring a brushless motor, variable speed control, and a unique reverse rotation auto-stop mode, this tool delivers high performance and efficiency. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DTW285Z impact wrench.



The Makita DTW285Z 18V Li-Ion LXT Brushless Impact Wrench, a powerful and compact tool designed for efficient fastening.

2. Safety Information

General Power Tool Safety Warnings

- Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions may result in electric shock, fire, and/or serious injury.
- Wear eye protection. Always wear safety glasses or goggles.

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Impact Wrench Specific Safety Warnings

- Hold the tool firmly. The tool produces a very high torque level.
- Ensure the socket is correctly attached and suitable for the application.
- Do not touch the bit or workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Always use genuine Makita batteries and chargers. Use of non-genuine or compatible batteries and chargers will invalidate the Makita guarantee.

3. Product Overview & Features

The Makita DTW285Z is engineered with several features to enhance performance and user experience:



An annotated diagram highlighting the key features of the Makita DTW285Z, including the 1/2" square drive, twin LED job lights, 3-stage impact power selection, variable speed trigger, ergonomic grip, and high power brushless motor.

- **Brushless Motor:** Provides increased power, efficiency, and longer tool life compared to brushed motors.
- **Variable Speed Trigger:** Allows for precise speed control based on the application and material.
- **Reverse Rotation Auto-Stop Mode:** This intelligent mode stops impact and rotation within 0.2 seconds when a bolt/nut is loosened sufficiently in counter-clockwise rotation, preventing over-loosening and lost fasteners.
- **Twin LED Job Lights:** Illuminates the work area for improved visibility, especially in low-light conditions. Features pre-glow and afterglow functions.
- **3-Stage Impact Power Selection:** Allows the user to select between low, medium, and high impact power settings to prevent over-tightening of fasteners and match the application requirements.
- **Battery Fuel Gauge:** Indicates the remaining battery charge level.
- **Ergonomic Soft Rubber Grip:** Designed for comfortable handling and reduced fatigue during prolonged use.
- **1/2" Square Drive:** Standard drive size for common impact sockets.



A detailed view of the 1/2-inch square drive, designed for secure socket attachment and efficient power transfer.



A close-up of the control panel, showing the battery fuel gauge, LED job light control, and impact power selection settings (Low, Medium, High).



An illustration showing the compact dimensions of the Makita DTW285Z, measuring 5-3/4 inches in length, ideal for working in confined spaces.



An internal view showcasing the advanced brushless motor technology, which provides increased power, efficiency, and tool longevity.

4. Setup

Battery Installation

1. Ensure the tool is switched off before installing or removing the battery cartridge.
2. Align the tongue on the battery cartridge with the groove in the housing and slide it into place.
3. Push the battery cartridge in until it locks with a slight click. If you can see the red indicator on the upper side of the button, it is not locked completely.
4. To remove the battery, slide the cartridge from the tool while sliding the button on the front of the cartridge.

Note: Batteries and charger are not included with the DTW285Z. Use only genuine Makita 18V Li-Ion LXT slide type

batteries and chargers.

Accessory Attachment (Sockets)

1. Ensure the tool is switched off.
2. Pull the socket ring back and insert the appropriate 1/2" square drive impact socket onto the anvil.
3. Release the socket ring to secure the socket in place. Ensure the socket is firmly seated before operation.

5. Operating Instructions

Switch Action

- To start the tool, pull the switch trigger. The tool speed increases with increasing pressure on the switch trigger.
- To stop the tool, release the switch trigger.

Changing Rotation Direction

- To change the direction of rotation, push the reverse lever from either side.
- For clockwise rotation, push the lever from the right side. For counter-clockwise rotation, push the lever from the left side.
- Ensure the lever is fully engaged in the desired position before operating the tool.

Impact Power Selection

The DTW285Z features a 3-stage electronic impact power selection. Press the mode selection button (typically near the battery indicator) to cycle through the settings: Low, Medium, and High. Select the appropriate power level for your fastening task to prevent over-tightening or damage to fasteners.

Reverse Rotation Auto-Stop Mode

This mode is active only when the tool is set to counter-clockwise rotation. When a bolt or nut is loosened sufficiently, the tool will automatically stop impact and rotation within 0.2 seconds. This feature helps prevent the fastener from falling off or being lost after loosening.

LED Job Light

The LED job light illuminates the work area when the switch trigger is pulled. The light will remain on for a short period after the trigger is released. To turn the light on or off independently, use the dedicated light button (refer to the control panel image in Section 3).

Application Examples



The Makita DTW285Z in action, demonstrating its capability to fasten large bolts securely and efficiently.



An operator using the Makita DTW285Z to work on a pipe fitting, highlighting its versatility in various applications.



The impact wrench being used to tighten a connection on a fire hydrant, showcasing its robust performance for heavy-duty tasks.



An example of the Makita DTW285Z being used to work on a metal gate hinge, illustrating its utility in construction and maintenance.

6. Maintenance

Cleaning

- Regularly clean the tool's ventilation openings to prevent overheating.
- Wipe the tool body with a soft, damp cloth. Do not use strong solvents or abrasive cleaners.

Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight and excessive heat.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.

General Inspection

- Periodically check all mounting screws for tightness.
- Inspect the power cord (if using a corded charger) for damage.
- Ensure the square drive anvil is free from excessive wear or damage.

7. Troubleshooting

Tool Not Starting

- **Possible Cause:** Battery not inserted correctly or discharged.
- **Solution:** Reinsert battery firmly. Check battery charge level and recharge if necessary.

Low Power or Inconsistent Performance

- **Possible Cause:** Battery charge is low. Incorrect impact power setting.
- **Solution:** Recharge battery. Select a higher impact power setting (Medium or High).

Excessive Vibration or Noise

- **Possible Cause:** Loose socket or damaged anvil.
- **Solution:** Ensure socket is securely attached. Inspect anvil for damage; if damaged, seek professional service.

For issues not listed here or if solutions do not resolve the problem, please contact Makita authorized service center.

8. Specifications

Specification	Value
Brand	Makita
Model Number	DTW285Z
Voltage	18 Volts
Maximum Fastening Torque	280 Newton Meters
Nut Busting Torque	400 Newton Meters
No Load Speed	0-2,800 RPM
Impacts Per Minute (IPM)	0-3,500 IPM
Square Drive	1/2 inch
Item Weight	2.5 Pounds

Specification	Value
Item Length	14.7 Centimeters
Material	Metal Plastic
Finish Type	Polished

9. Warranty & Support

Warranty Information

The Makita DTW285Z comes with a 1-year manufacturer warranty. This warranty can be extended by a further 2 years (total 3 years) when the product is registered within 30 days of purchase. Please note that this guarantee does not apply where non-genuine or non-recommended parts or accessories are fitted to the tool. The use of non-genuine or compatible batteries and chargers with Makita Tools will invalidate the Makita guarantee for our tools.

Customer Support

For technical assistance, service, or warranty claims, please contact your local authorized Makita service center or visit the official Makita website for support resources.

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