

Metabo 600639860

Metabo 18V High Torque Die Grinder Instruction Manual

Model: 600639860

1. PRODUCT OVERVIEW

The Metabo 18V High Torque Die Grinder is a robust and high-performance tool designed for metal working applications, particularly with carbide burrs. Its wear-resistant motor and slim housing make it suitable for precise and demanding tasks.



Figure 1: Metabo 18V High Torque Die Grinder, showing the main unit, attached side handle, and battery pack.

Key Features:

- **Spindle Lock:** Facilitates simple and quick accessory changes.
- **Metabo S-Automatic Safety Shutdown:** Automatically disconnects power if the tool jams, enhancing user safety.
- **Restart Protection:** Prevents unintentional starting of the machine after a power interruption or battery change.
- **Thermal Overload Protection:** Safeguards the motor from damage due to excessive heat.
- **Removable Protective Rubber Cap:** Provides comfortable and safe handling during operation.

- **High Torque Motor:** Optimized for demanding applications, maintaining speed under load.

2. SETUP

2.1 Battery Installation

The die grinder operates on an 18V Lithium-Ion battery (not included with bare tool). To install the battery:

1. Ensure the tool is switched off.
2. Align the battery pack with the battery slot on the tool handle.
3. Slide the battery into the slot until it clicks securely into place.
4. To remove, press the battery release button and slide the battery out.

2.2 Accessory Installation

The die grinder is designed for use with various accessories such as carbide burrs, abrasive discs, and flap wheels. Always ensure the accessory is rated for the tool's maximum rotational speed.

1. Ensure the tool is switched off and the battery is removed.
2. Press and hold the spindle lock button located near the collet.
3. Using the appropriate wrench (typically supplied with the tool), loosen the collet nut by turning it counter-clockwise.
4. Insert the shank of the accessory fully into the collet.
5. While still holding the spindle lock, tighten the collet nut clockwise with the wrench until the accessory is securely fastened. Do not overtighten.
6. Release the spindle lock button.

2.3 Side Handle Attachment

The die grinder comes with a removable side handle for improved control and comfort.

1. Locate the threaded hole on the side of the grinder's head.
2. Screw the side handle into this hole until it is firmly attached.
3. Adjust the handle's position for optimal grip and balance during operation.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

The die grinder features a sliding switch for operation.

- To turn on: Slide the switch forward to the "ON" position.
- To turn off: Slide the switch backward to the "OFF" position.

Note: The tool operates at a single speed (10,000 RPM maximum rotational speed).

3.2 Safety Features

This tool is equipped with several safety mechanisms:

- **S-Automatic Safety Shutdown:** If the accessory jams during operation, the tool will automatically shut off to prevent kickback and motor damage. Release the switch and clear the obstruction before restarting.
- **Restart Protection:** If the battery is removed and reinserted, or if power is interrupted while the switch is in the "ON" position, the tool will not restart automatically. You must cycle the switch to "OFF" and then back to "ON" to resume

operation.

- **Thermal Overload Protection:** If the motor becomes too hot due to prolonged heavy use, the tool will reduce power or shut down to prevent damage. Allow the tool to cool down before resuming work.

3.3 General Operation Tips

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Secure your workpiece firmly before beginning any grinding operation.
- Apply steady, even pressure. Avoid excessive force, which can lead to jamming or reduced performance.
- Keep ventilation slots clear to ensure proper motor cooling.
- Do not operate the tool in damp or wet conditions.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Metabo Die Grinder.

4.1 Cleaning

- After each use, disconnect the battery and use a dry cloth or soft brush to remove dust and debris from the tool's housing and ventilation slots.
- Do not use solvents or abrasive cleaners, as they may damage plastic parts.

4.2 Battery Care

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Charge batteries using only Metabo-approved chargers.
- Do not store fully discharged batteries for extended periods.

4.3 General Inspection

- Periodically inspect the power cord (if using a corded charger) for damage.
- Check the collet and collet nut for wear or damage. Replace if necessary.
- Ensure all screws and fasteners are tight.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly inserted. Restart protection activated.	Ensure battery is fully charged and properly seated. Cycle the sliding switch to OFF then ON.
Tool stops during operation.	Tool jammed (S-Automatic safety shutdown). Thermal overload protection activated. Battery discharged.	Clear obstruction and restart. Allow tool to cool down. Recharge or replace battery.
Excessive vibration.	Accessory improperly installed or damaged.	Ensure accessory is securely tightened and not bent or damaged. Replace if necessary.

6. SPECIFICATIONS

Attribute	Value
Brand	Metabo
Model Number	600639860
Power Source	Battery Powered
Voltage	18 Volts
Maximum Rotational Speed	10,000 RPM
Material	Die-cast aluminum and polyamid
Color	Green/Black
Item Weight	5.35 pounds
Product Dimensions	14.75 x 3.1 x 3.2 inches
Switch Style	Sliding Switch

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This Metabo Die Grinder comes with a **3 Year Limited Tool Warranty**. Please refer to the official Metabo warranty documentation for full terms and conditions, including coverage details and limitations.

7.2 Customer Support

For technical assistance, spare parts, or warranty claims, please contact Metabo customer service or visit the official Metabo website. You can also find more information and products at the [Metabo Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question