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> Metabo WE 15-150 Quick 6-inch Angle Grinder User Manual

Metabo WE 15-150 Quick (600464420)

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Model: WE 15-150 Quick (600464420) | Brand: Metabo

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your Metabo WE 15-150 Quick 6-inch Angle Grinder. Engineered and manufactured in Germany, this tool is designed for durability, safety, and productivity in various metal grinding and masonry cutting applications. Please read this manual thoroughly before using the tool and keep it for future reference.



Figure 1: The Metabo WE 15-150 Quick 6-inch Angle Grinder with side handle and grinding disc attached.

2. GENERAL SAFETY INFORMATION

Always observe the following general safety precautions when operating power tools to reduce the risk of electric shock, fire, and 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **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; do not wear 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 plug from the power source before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Kickback Prevention:** The Metabo S-Automatic mechanical safety slip clutch is designed to reduce the likelihood of kickback. Always maintain a firm grip on the tool and be aware of potential accessory jams.

3. PRODUCT COMPONENTS

Familiarize yourself with the main components of your Metabo Angle Grinder.



Figure 2: Rear view of the angle grinder, showing the power cord and air intake.

- **Grinding Disc/Wheel:** The abrasive accessory used for material removal or cutting.
- **Guard:** A protective cover that shields the user from sparks and debris. This model features a tool-free, burst-proof adjustable guard.
- **Spindle Lock Button:** Used to lock the spindle for easy disc changes with the M-Quick System.
- **Side Handle (MVT Anti-Vibration):** Provides additional grip and control, designed to reduce vibration and user fatigue.
- **Lock-on Switch:** For continuous operation, allowing the user to maintain power without holding the trigger.

- **Motor Housing:** Contains the powerful LongLife AC/DC motor with patented dust protection and optimized airflow.
- **Gear Housing:** Die-cast aluminum, designed for heat dissipation and can be rotated in 90° steps for different operating positions.
- **Power Cord:** For connecting the tool to a 120V AC/DC power source.

4. SETUP

Proper setup ensures safe and efficient operation.

4.1 Attaching the Side Handle

The MVT anti-vibration side handle can be screwed into either side of the gear housing, depending on your preference and application. Ensure it is tightened securely before use.

4.2 Adjusting the Guard

The tool-free adjustable guard can be quickly positioned to protect against sparks and debris. Ensure the guard is always positioned between you and the rotating disc. It is burst-proof for added safety.

4.3 Changing Grinding Discs (M-Quick System)

1. Ensure the grinder is unplugged from the power source.
2. Press and hold the large spindle lock button.
3. Rotate the disc by hand until the spindle locks.
4. Unscrew the M-Quick flange nut by hand.
5. Remove the old disc and place the new disc onto the inner support flange.
6. Screw the M-Quick flange nut back on by hand until it is securely tightened.
7. Release the spindle lock button.



Figure 3: Illustration of changing a grinding disc using the M-Quick System.

5. OPERATING INSTRUCTIONS

Follow these guidelines for safe and effective operation.

5.1 Powering On/Off

- **To Start:** Connect the tool to a 120V AC/DC power source. Press the lock-on switch to engage the motor. The soft start feature ensures a smooth start-up.
- **To Stop:** Press the lock-on switch again to disengage the motor.

5.2 Operational Features

- **Tacho-Constamatic Full Wave Electronics:** This system maintains speed under load, ensuring consistent performance.
- **Restart Protection:** Prevents unintentional restart after a power supply interruption, enhancing safety.
- **Overload Protection:** Protects the motor from overheating during heavy use.
- **Metabo S-Automatic Mechanical Safety Slip Clutch:** Reduces the likelihood of kickback by disengaging the drive if the accessory jams.

The power to meet your standards

-  Soft start system for smooth start-up
-  MVT anti-vibration side handle for optimal protection and comfort.
-  Tacho-constamatic full wave electronics maintains speed under load
-  Restart protection for unintentional restart after power supply interruption
-  30-Day Performance Guarantee & 3-Year Limited Warranty



Figure 4: Key operational features of the Metabo Angle Grinder.

5.3 Grinding and Cutting Techniques

Always hold the grinder firmly with both hands. Apply moderate pressure; let the tool do the work. For grinding, maintain a slight angle between the disc and the workpiece. For cutting, ensure the disc is perpendicular to the workpiece and avoid twisting the tool. Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.



Figure 5: Proper use of the angle grinder for material removal, demonstrating safety gear.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your angle grinder.

- **Cleaning:** Keep the tool's ventilation openings clean to prevent motor overheating. Regularly clean dust and debris from the tool, especially around the air intake (Figure 2) and exhaust vents.
- **Carbon Brushes:** The tool is equipped with auto-stop carbon brushes that protect the motor from damage by automatically shutting off when they are worn. Replace carbon brushes when they reach their wear limit. Refer to a qualified service

technician for carbon brush replacement.

- **Motor Care:** The Metabo LongLife AC/DC motor features patented dust protection and optimized internal airflow to extend its service life. Avoid operating the tool in excessively dusty environments without proper ventilation.
- **Cord Inspection:** Periodically inspect the power cord for any damage. Do not use the tool if the cord is damaged.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Worn carbon brushes; Restart protection activated	Check power connection; Replace carbon brushes (professional service recommended); Disconnect and reconnect power to reset restart protection.
Reduced power or speed under load	Overload; Worn carbon brushes; Insufficient power supply	Reduce pressure on the tool; Replace carbon brushes; Ensure adequate power supply (120V AC/DC).
Excessive vibration	Damaged or unbalanced disc; Loose side handle	Replace disc; Tighten side handle securely.
Tool stops during operation	Overload protection activated; Accessory jam (S-Automatic clutch); Worn carbon brushes	Allow tool to cool down; Clear accessory jam and restart; Replace carbon brushes.

8. SPECIFICATIONS

Technical data for the Metabo WE 15-150 Quick Angle Grinder.

Specification	Value
Brand	Metabo
Model Number	WE 15-150 Quick (600464420)
Style	Lock-on Switch
Power Source	Corded Electric A/C
Voltage	120 Volts
Wattage	1500 watts
Maximum Rotational Speed	9600 RPM
Disc Size	6 inches
Item Weight	5.7 Pounds

Specification	Value
Product Dimensions (L x W x H)	12.4" x 2.88" x 13"
Material	Aluminum (Gear Housing)
Included Components	Angle Grinder, Clip-on Cutting Wheel Guard, Guard, Inner support flange, M-Quick flange nut, Side handle Metabo VibraTech (MVT)

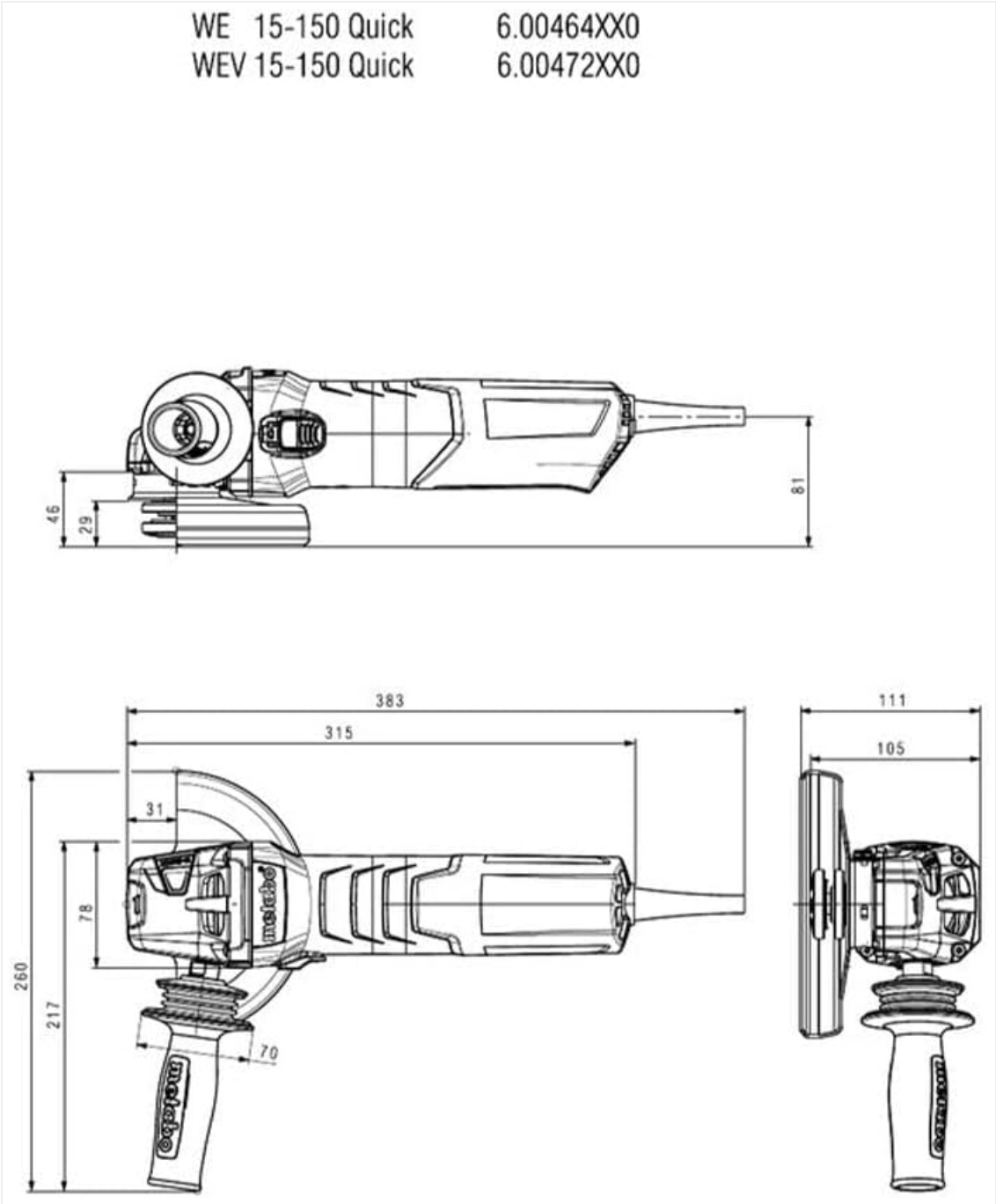


Figure 6: Technical drawing showing the dimensions of the Metabo Angle Grinder.

9. WARRANTY AND SUPPORT

Your Metabo WE 15-150 Quick Angle Grinder comes with a **3-Year Limited Warranty**. For warranty claims, technical support, or to find authorized service centers, please refer to the official Metabo website or contact Metabo customer service.

You can also visit the [Metabo Store on Amazon](#) for additional product information and accessories.

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