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› Metabo 5/8-Inch Metal Beveling Tool KFM 16-15 F User Manual

Metabo KFM 16-15 F

Metabo KFM 16-15 F Metal Beveling Tool User Manual

Model: KFM 16-15 F

INTRODUCTION

This user manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Metabo 5/8-Inch Metal Beveling Tool, model KFM 16-15 F. This tool is designed for weld preparation, edge preparation, beveling, chamfering, and radius creation on metal surfaces. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its lifespan.



Figure 1: Metabo KFM 16-15 F Metal Beveling Tool

SAFETY INSTRUCTIONS

Always adhere to general power tool safety guidelines. Wear appropriate personal protective equipment (PPE) including safety glasses, gloves, and hearing protection. Ensure your work area is clean, well-lit, and free from obstructions. Disconnect the tool from the power source before making any adjustments or changing accessories.

- Keep hands and body clear of the cutting area during operation.
- Secure the workpiece to prevent movement during beveling.
- Do not operate the tool in damp or wet conditions.
- Ensure proper ventilation to disperse metal chips and dust.
- Regularly inspect the power cord for damage.

SETUP

Before initial use, ensure all components are present and properly assembled. The tool comes with 3 SQ4 carbide inserts, a 4mm hex key, a carrying case, the tool itself, and a Torx 15 driver.

Attaching the Guide Plate and Handle

1. Place the beveling tool on a stable surface.
2. Attach the guide plate to the front of the tool using the provided fasteners. Ensure it is securely tightened.
3. Attach the bail handle to the top of the tool. This handle adjusts without tools for secure and even guiding during operation.

Adjusting for Pipe Diameter (Stop Roller)

For pipe applications, the stop roller guides the tool along the pipe for easy weld seam preparation. The guide plate features markings for different pipe diameters (e.g., D50 for 2-inch, D100 for 4-inch, D150 for 6-inch, D200 for 8-inch). Adjust the guide plate to the appropriate diameter setting using the included tools to ensure the stop roller is correctly positioned against the pipe's outer diameter.



Figure 2: Guide plate with diameter markings for pipe applications.

OPERATING INSTRUCTIONS

The Metabo KFM 16-15 F is designed for efficient metal beveling. Always ensure the workpiece is stable and secured before beginning operation.

Setting Cutting Depth and Chamfer Angle

- **Cutting Depth:** Utilize the patented one-touch controller for tool-free setting of the cutting depth in 0.1-inch steps. This system includes stop points for quick adjustments and protection against unintentional changes during work.
- **Chamfer Angle:** The chamfer angle can be precisely set directly using the guide plate. The tool supports all chamfer angles from 0-90° with its universal carbide burr, which features three carbide inserts.



Figure 3: One-touch controller for precise cutting depth adjustment.

Beveling Process

With the depth and angle set, position the tool firmly on the edge of the workpiece. Engage the power and guide the tool smoothly along the edge. The large-surface guide plates ensure controlled work. The tool's design includes metal sheet sides to deflect chips, enhancing user protection.



Figure 4: Beveling a metal beam with the Metabo tool.

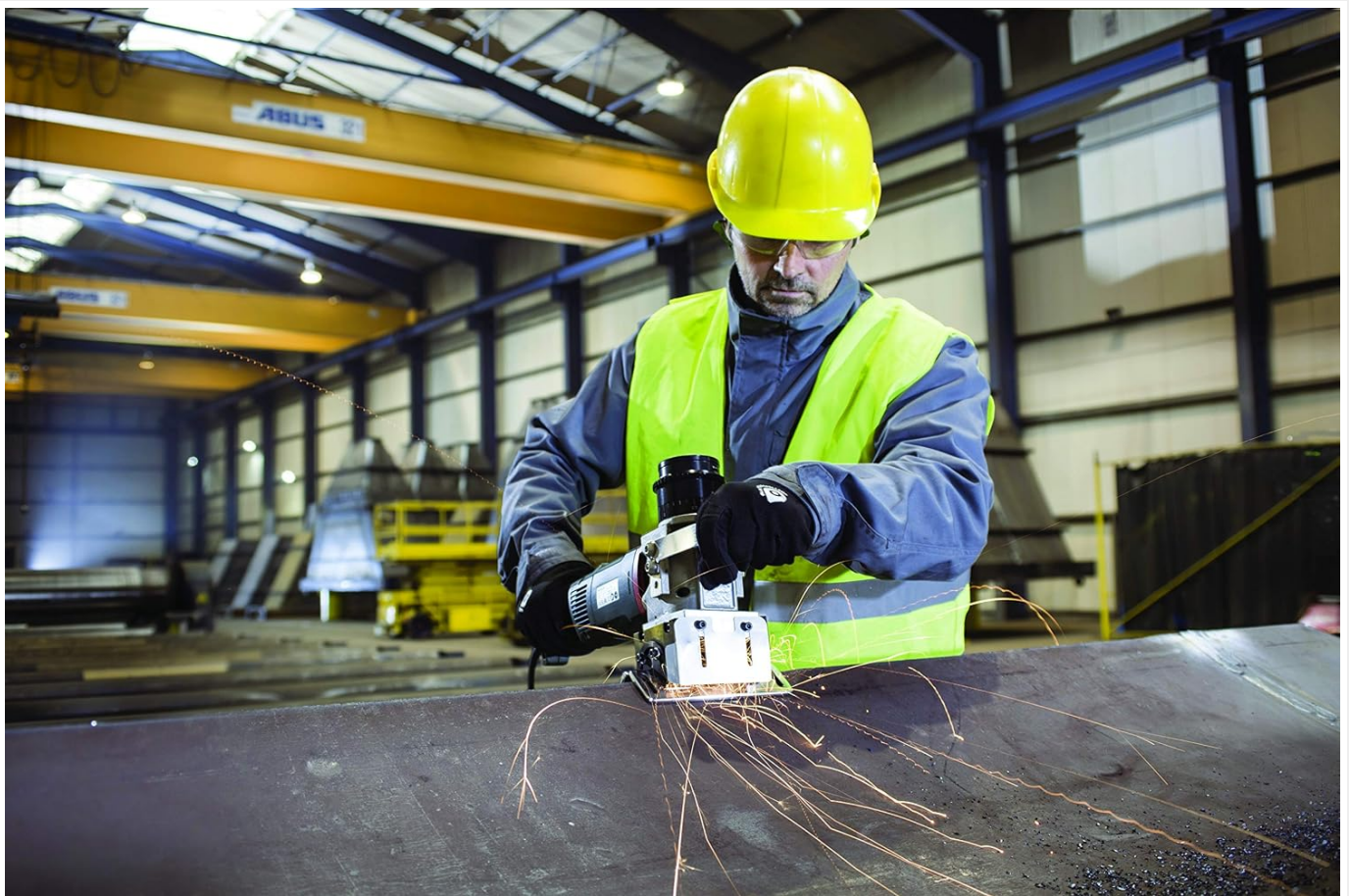


Figure 5: Detailed view of the beveling process.

Regular maintenance ensures the longevity and optimal performance of your Metabo beveling tool.

- **Cleaning:** After each use, clean the tool thoroughly to remove metal chips and dust. The Metabo Long-life motor features patented dust protection for extended service life.
- **Carbide Inserts:** Inspect the three carbide inserts regularly for wear. Replace them as needed to maintain cutting efficiency and quality.
- **General Inspection:** Periodically check all screws, nuts, and other fasteners for tightness. Ensure the power cord is free from cuts or damage.



Figure 6: Inspecting the universal carbide burr with three carbide inserts.

TROUBLESHOOTING

If you encounter issues with your beveling tool, consider the following common solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Tool does not start.	No power supply, damaged cord, electronic overload protection activated.	Check power outlet and cord. Allow tool to cool down if overloaded. The tool features electronic overload protection, soft start, and restart protection.
Poor beveling quality.	Worn carbide inserts, incorrect depth/angle setting.	Replace carbide inserts. Re-adjust cutting depth and chamfer angle.
Excessive vibration.	Loose components, damaged cutting head.	Check all fasteners for tightness. Inspect cutting head for damage.

For issues not listed or if problems persist, contact Metabo customer support.

SPECIFICATIONS

Feature	Detail
Brand	Metabo
Model Number	KFM 16-15 F
Voltage	120V
Power Source	Corded Electric
Wattage	1550 watts
Maximum Rotational Speed	12000 RPM
Item Weight	15.2 Pounds
Product Dimensions (L x W x H)	19.5 x 4.5 x 4.5 inches
Recommended Uses	Deburring, beveling, weld seam preparation
Included Components	3 SQ4 carbide inserts, 4mm hex key, Carrying Case, Tool, Torx 15 driver

WARRANTY

All Metabo power tools have been carefully tested and inspected before shipment and are warranted to the original purchaser to be free from defects in workmanship and materials for a period of 3-years from the original user's date of purchase. This limited warranty does not apply to accessories or damage that Metabo determines to be from misuse, alteration, abuse, normal wear and tear, lack of maintenance, accidents, or repairs made by or attempted by anyone other than Metabo authorized personnel. A sales receipt is required to qualify for warranty programs.

SUPPORT

For further assistance, technical support, or to inquire about parts and service, please visit the official Metabo website or contact their customer service department. You can also refer to the official user manual PDF available online for more detailed information.
Official User Manual (PDF): [Download PDF](#)

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