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## Metabo KGT 305 M

# Metabo KGT 305 M Table and Miter Saw Instruction Manual

Model: KGT 305 M (619004000)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Metabo KGT 305 M Table and Miter Saw. This versatile power tool is designed for precise cutting tasks, offering both miter saw and table saw functionalities. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

## 2. SAFETY INSTRUCTIONS

Always observe general power tool safety guidelines and the specific warnings provided in this section. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the saw.
- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, hearing protection, and a dust mask.
- **Ensure a safe work area:** Keep the work area clean, well-lit, and free from obstructions. Do not operate in explosive atmospheres.
- **Secure the workpiece:** Always use the material clamp to securely fasten the workpiece before cutting.
- **Avoid accidental starting:** Ensure the switch is in the off position before plugging in the tool. The saw features restart protection to prevent accidental startup after a power interruption.
- **Maintain proper footing and balance:** Do not overreach.
- **Keep guards in place:** Never operate the saw without all guards properly installed and functioning.
- **Disconnect power:** Always unplug the saw before making any adjustments, changing accessories, or performing maintenance.
- **Laser Safety:** This product contains a Class 2 laser. Avoid direct eye exposure to the laser beam.



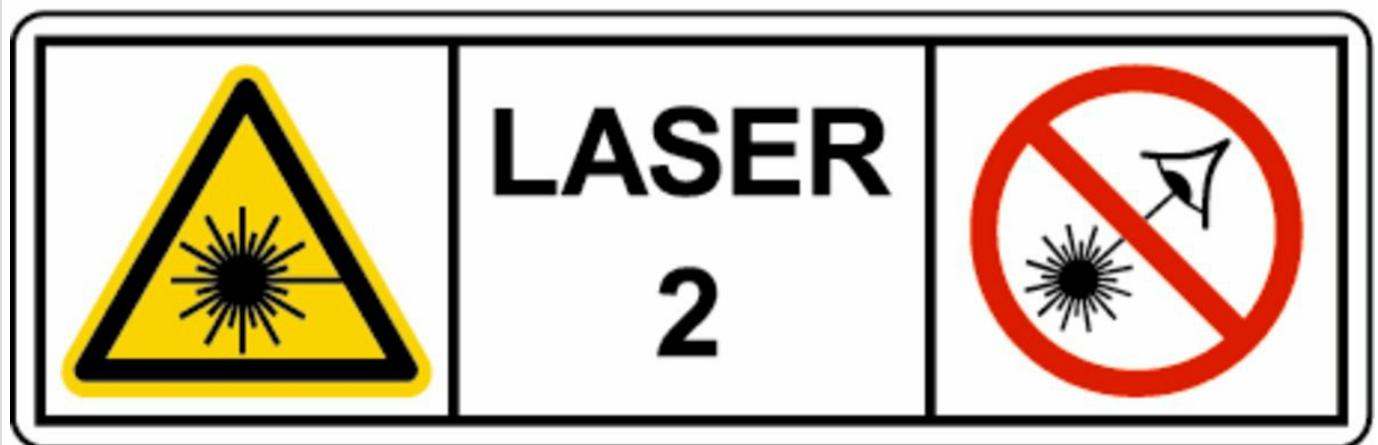
**Figure 1:** Laser Class 2 Warning Symbol. This symbol indicates the presence of a Class 2 laser. Avoid direct eye exposure to the laser beam to prevent potential injury.

## 3. COMPONENTS AND CONTROLS

Familiarize yourself with the various parts of your Metabo KGT 305 M saw before operation.



**Figure 2:** Overview of the Metabo KGT 305 M Table and Miter Saw. This image displays the saw in its miter saw configuration, highlighting the main body, saw head, table, and dust collection bag. Key components include the saw blade, blade guard, handle with controls, and base.



**Figure 3:** Metabo KGT 305 M Saw with table extensions. This view shows the saw with its integrated table extensions pulled out,

demonstrating how they provide additional support for longer workpieces. The material clamp is also visible, ready to secure the material.

## Key Components:

- **Saw Head:** Contains the motor, saw blade, and blade guard. It can be tilted for bevel cuts.
- **Saw Blade:** Carbide-tipped blade (56 teeth) for efficient cutting.
- **Table:** The main work surface, convertible between miter saw and table saw modes.
- **Table Extensions:** Continuously extendable for supporting long workpieces.
- **Angle Adjustment Lever/Knob:** For setting precise miter and bevel angles.
- **Laser Guide:** Projects a line onto the workpiece for accurate cutting.
- **LED Work Light:** Illuminates the cutting area.
- **Material Clamp:** Secures the workpiece from above or the front.
- **Parallel Stop:** Used in table saw mode for consistent rip cuts.
- **Cut Stop:** For precise length cuts.
- **Dust Collection Bag:** Collects sawdust during operation.
- **On/Off Switch:** Main power control.

## 4. SETUP

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### 4.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the saw for any damage that may have occurred during transit. Ensure all listed components are present:

- Metabo KGT 305 M Saw
- Carbide Saw Blade (56 teeth)
- 2 Integrated Table Extensions
- Parallel Stop
- Cut Stop
- Material Clamp
- Chip Collection Bag
- Tool for Saw Blade Change

### 4.2 Saw Blade Installation

1. **Disconnect power:** Ensure the saw is unplugged from the power source.
2. **Raise the saw head:** Lift the saw head to its highest position.
3. **Open the blade guard:** Follow the instructions in the tool for safely opening the blade guard.
4. **Use the blade change tool:** Utilize the provided tool to loosen the arbor nut while holding the arbor lock button.
5. **Install the blade:** Place the new carbide saw blade (56 teeth) onto the arbor, ensuring the teeth are oriented correctly for cutting (usually pointing downwards at the front of the saw).
6. **Secure the blade:** Tighten the arbor nut firmly with the blade change tool.
7. **Close the blade guard:** Ensure the guard is securely closed and functions correctly.

### 4.3 Attaching Accessories

- **Table Extensions:** Slide the integrated table extensions out to the desired length to support longer workpieces. They can be removed if not needed.
- **Parallel Stop:** Attach the parallel stop for use in table saw mode to guide workpieces for rip cuts.
- **Cut Stop:** Position the cut stop for repetitive length cuts.
- **Material Clamp:** Install the material clamp to securely hold workpieces during cutting operations. It can be mounted from the

top or front.

- **Chip Collection Bag:** Attach the chip collection bag to the dust port to manage sawdust.

## 5. OPERATING INSTRUCTIONS

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The Metabo KGT 305 M offers both miter saw and table saw functionalities. Always ensure the saw is securely placed on a stable surface before operation.

### 5.1 Miter Saw Operation

1. **Select Miter Saw Mode:** Ensure the saw is configured for miter cutting.
2. **Adjust Miter Angle:** Loosen the angle adjustment lever/knob and pivot the table to the desired miter angle. Secure it firmly using the lock points for common angles.
3. **Adjust Bevel Angle:** If a bevel cut is required, tilt the saw head to the left to the desired angle. The saw head has an additional angle range for undercut cuts.
4. **Position Workpiece:** Place the workpiece firmly against the fence and table. Use the material clamp to secure it.
5. **Activate Laser Guide and LED Light:** Turn on the laser for precise cut line indication and the LED work light for illumination. These are mains powered and do not require batteries.
6. **Start the Saw:** Press the On/Off switch. Allow the blade to reach full speed before cutting.
7. **Perform the Cut:** Slowly lower the saw head through the workpiece. Maintain a steady, controlled motion.
8. **Release and Stop:** Once the cut is complete, release the switch and allow the blade to stop completely before raising the saw head.

### 5.2 Table Saw Operation

1. **Convert to Table Saw Mode:** Follow the manufacturer's instructions for quickly converting the saw from miter to table saw operation. This typically involves locking the saw head in an upward position and adjusting the table.
2. **Adjust Cutting Height:** Use the height adjustment mechanism to set the desired cutting height (0 - 50 mm).
3. **Set Parallel Stop:** Position the parallel stop to the desired width for rip cuts. Ensure it is securely locked.
4. **Position Workpiece:** Place the workpiece on the table, guiding it against the parallel stop.
5. **Start the Saw:** Press the On/Off switch. Allow the blade to reach full speed.
6. **Perform the Cut:** Slowly and steadily feed the workpiece into the rotating blade, keeping it firmly against the parallel stop. Use a push stick for narrow cuts.
7. **Stop the Saw:** Once the cut is complete, release the switch and allow the blade to stop completely before removing the workpiece.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your Metabo KGT 305 M saw. Always disconnect the power supply before performing any maintenance.

- **Cleaning:** Regularly clean the saw, especially the table, blade guard, and dust collection areas, to prevent sawdust buildup. Use a brush or compressed air.
- **Blade Inspection:** Periodically inspect the saw blade for sharpness, damage, or missing teeth. Replace dull or damaged blades immediately. Refer to section 4.2 for blade change instructions.
- **Lubrication:** Apply a light coat of machine oil to moving parts and pivot points as recommended by the manufacturer to ensure smooth operation.
- **Electrical Cord:** Inspect the power cord for any signs of damage. Do not use the saw if the cord is damaged.
- **Fasteners:** Check all screws and fasteners regularly and tighten them if necessary.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Metabo KGT 305 M saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Restart protection activated; Faulty switch	Check power connection; Unplug and replug to reset restart protection; Contact service center if switch is faulty.
Blade binds or cuts slowly	Dull or damaged blade; Incorrect blade for material; Workpiece not secured; Excessive feed rate	Replace blade; Use appropriate blade; Secure workpiece with clamp; Reduce feed rate.
Inaccurate cuts	Incorrect angle setting; Loose fence/stop; Worn blade; Laser misaligned	Verify angle settings; Tighten fence/stop; Replace blade; Check laser alignment (refer to service manual if needed).

Problem	Possible Cause	Solution
Excessive vibration or noise	Loose blade; Damaged blade; Loose components; Motor issue	Tighten blade arbor nut; Replace damaged blade; Check and tighten all fasteners; Contact service center.

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

## 8. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	619004000
Dimensions (L x W x H)	658 x 600 x 460 mm
Table Dimensions	462 x 261 mm
Cutting Height (Table Operation)	0 - 50 mm
Power	1600 Watts
Voltage	230 Volts
Blade Diameter	305 mm
Weight	22 Kilograms
Included Components	Carbide Saw Blade (56 teeth), 2 Integrated Table Extensions, Parallel Stop, Cut Stop, Material Clamp, Chip Collection Bag, Tool for Saw Blade Change

## 9. WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official Metabo website. Keep your purchase receipt as proof of purchase for warranty claims.

**Metabo Official Website:** [www.metabo.com](http://www.metabo.com)

## Related Documents - KGT 305 M

 <b>BAS 261 Precision</b> <a href="#">View Document</a>	<p><b>Metabo BAS 261 Precision Band Saw - Operating Instructions and Safety Guide</b></p> <p>Comprehensive operating instructions and safety guide for the Metabo BAS 261 Precision band saw. Learn about setup, operation, maintenance, and safety precautions for this powerful woodworking tool.</p>
 <b>BAS 261 Precision</b> <a href="#">View Document</a>	<p><b>Metabo BAS 261 Precision Band Saw Operating Instructions</b></p> <p>Comprehensive operating instructions for the Metabo BAS 261 Precision band saw, covering safety, setup, operation, maintenance, and troubleshooting.</p>
 <b>BKS 400 Plus &amp; BKS 450 Plus</b> <a href="#">View Document</a>	<p><b>Metabo BKS 400 Plus &amp; BKS 450 Plus Stationary Circular Saw Operating Manual</b></p> <p>Comprehensive operating manual for Metabo BKS 400 Plus and BKS 450 Plus stationary circular saws, covering safety, operation, maintenance, and technical specifications.</p>
 <b>STEB 65 Quick</b> <a href="#">View Document</a>	<p><b>Metabo STEB 65 Quick Jigsaw - Operating Manual</b></p> <p>Official operating manual for the Metabo STEB 65 Quick jigsaw. Includes safety instructions, technical specifications, usage guidelines, and maintenance information for this professional power tool.</p>
 <b>DH 330</b> <a href="#">View Document</a>	<p><b>Metabo DH 330 Thicknessing Machine: Operating Manual and Safety Guide</b></p> <p>Comprehensive operating manual for the Metabo DH 330 thicknessing machine. Learn about safe operation, maintenance, and specifications for this professional power tool.</p>
 <b>MWB 100</b> <a href="#">View Document</a>	<p><b>Metabo MWB 100 Workbench - Operating Instructions</b></p> <p>Comprehensive operating instructions for the Metabo MWB 100 workbench, covering setup, safety, usage, and technical specifications. Learn how to safely assemble and use this versatile workbench for various woodworking tasks and tool mounting.</p>

