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## Bosch GCM 254

# Bosch Professional GCM 254 Corded Electric Mitre Saw Instruction Manual

Model: GCM 254 | Brand: Bosch

## 1. INTRODUCTION

This instruction manual provides comprehensive guidance for the safe and effective use of the Bosch Professional GCM 254 Corded Electric Mitre Saw. Please read this manual thoroughly before operating the tool to ensure proper setup, operation, and maintenance. Retain this manual for future reference.



Image 1.1: Overview of the Bosch Professional GCM 254 Corded Electric Mitre Saw.

## 2. SAFETY INSTRUCTIONS

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Always adhere to the following safety guidelines to prevent injury and damage to the tool:

- **Eye Protection:** Always wear approved safety glasses or goggles to protect against flying debris.
- **Hearing Protection:** Use ear protection during operation to prevent hearing damage.
- **Hand Safety:** Keep hands and fingers clear of the saw blade and cutting path at all times. Never reach under the saw blade.
- **Workpiece Security:** Ensure the workpiece is firmly clamped or held against the fence and base to prevent movement during cutting.
- **Power Disconnection:** Disconnect the power plug from the outlet before performing any assembly, adjustments, or maintenance.
- **Work Area:** Maintain a clean, well-lit, and uncluttered work area. Ensure adequate ventilation.
- **Proper Attire:** Avoid loose clothing, jewelry, and long hair that can get caught in moving parts.
- **Blade Condition:** Use only sharp, undamaged blades suitable for the material being cut.
- **Emergency Stop:** Familiarize yourself with the location and operation of the power switch for quick shutdown.

## 3. COMPONENTS AND FEATURES

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The Bosch Professional GCM 254 Mitre Saw includes several key components designed for precision and ease of use:

- **Saw Blade:** The primary cutting component.
- **Motor Housing:** Contains the 1750 W motor.
- **Base and Turntable:** Provides stability and allows for mitre angle adjustments.
- **Fence:** Supports the workpiece during cutting.
- **Direct Laser Guide:** Projects a line onto the workpiece for accurate cutting alignment.
- **Integrated Dust Extractor:** Connects to a vacuum system for a cleaner workspace.
- **Detachable Box Extension:** Provides additional support for longer workpieces, enhancing stability.
- **Length Gauge:** Assists in making repetitive cuts with consistent length.
- **Handle:** Ergonomically designed for control during operation.

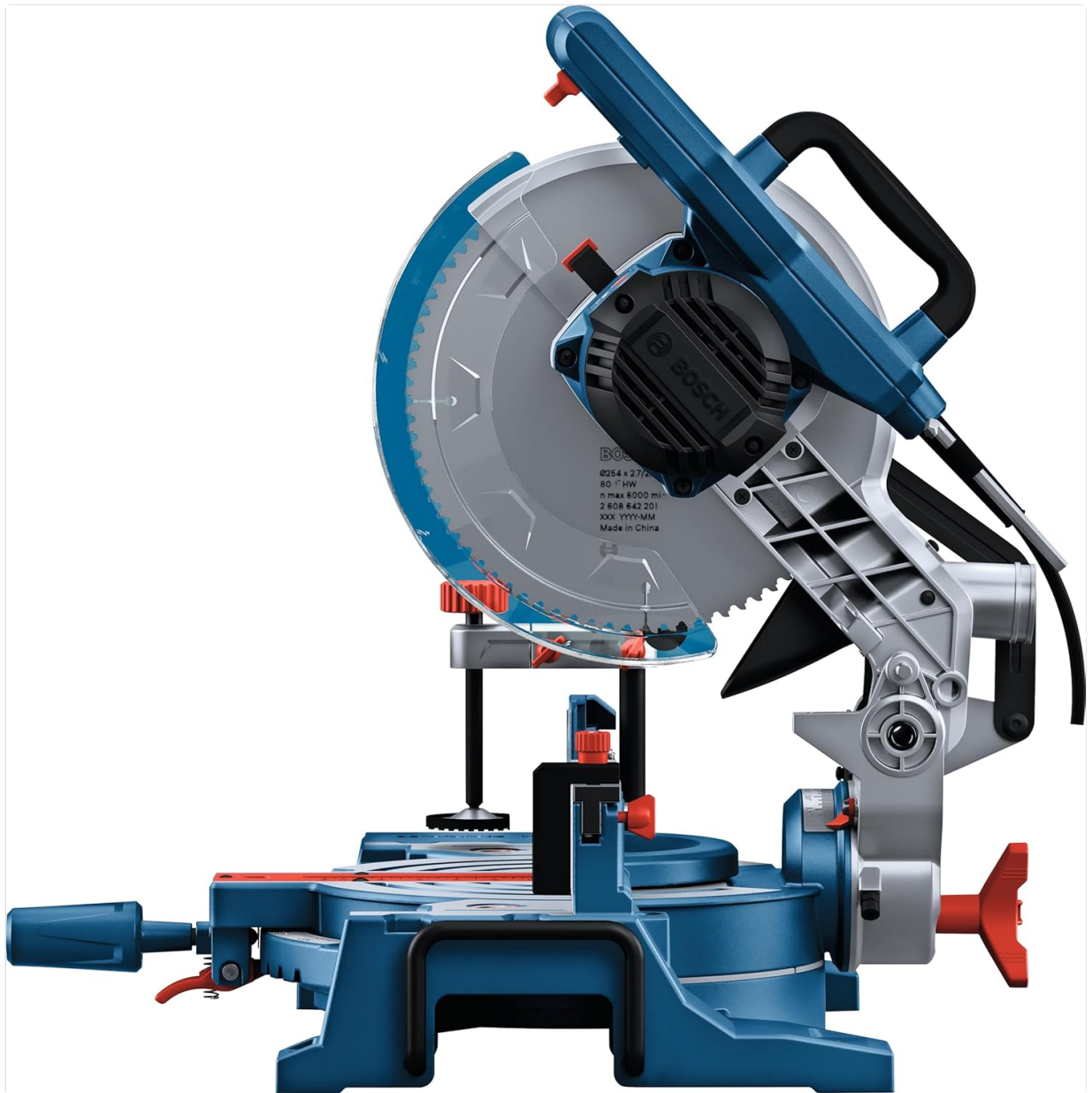


Image 3.1: Side view of the mitre saw, highlighting the motor and blade guard.

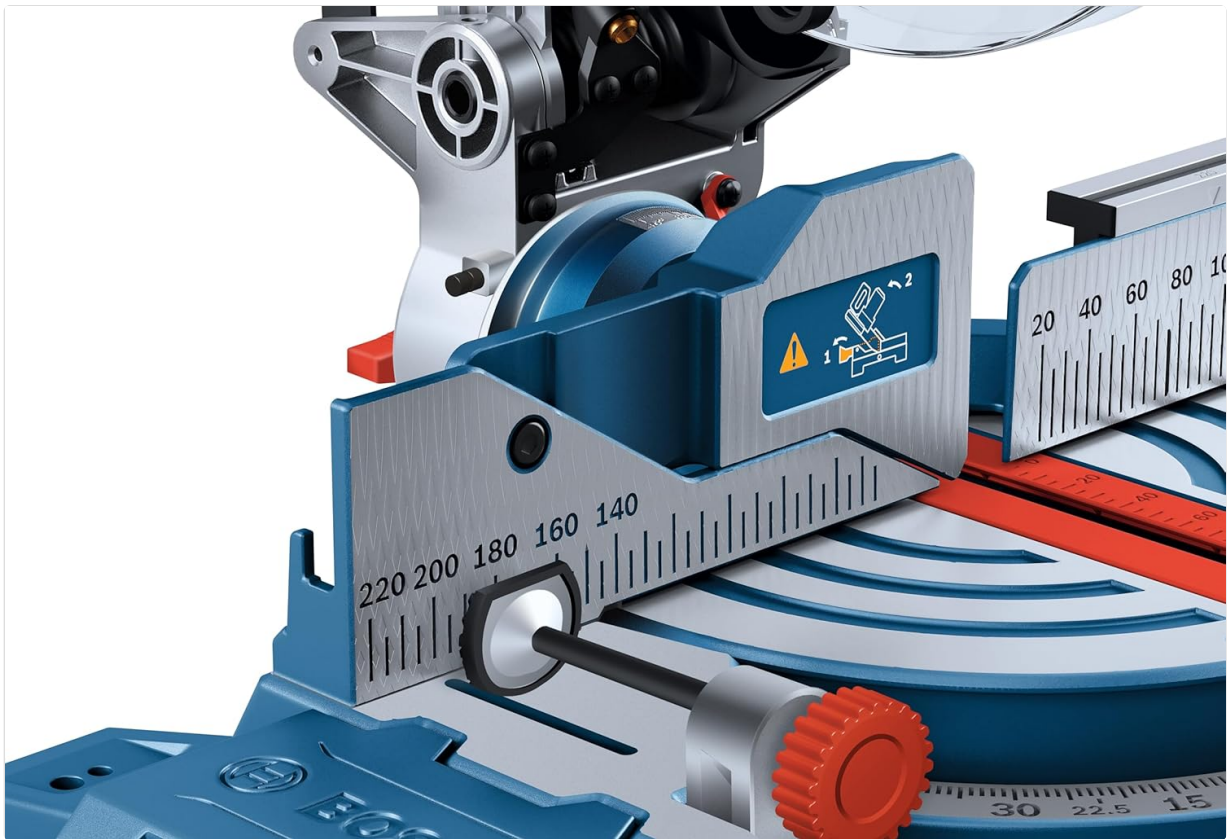


Image 3.2: Detail of the fence and measurement scale for precise angle adjustments.

## 4. SETUP

1. **Unpacking:** Carefully remove the mitre saw and all accessories from the packaging. Inspect for any shipping damage.
2. **Mounting:** Securely mount the mitre saw to a stable workbench using appropriate fasteners. Ensure the workbench can support the weight and forces generated during operation.
3. **Blade Installation:**
  - Disconnect the power supply.
  - Follow the instructions in the blade guard section to safely open the guard.
  - Install the saw blade, ensuring the rotation direction matches the arrow on the guard.
  - Secure the blade with the provided flange and bolt.
  - Close the blade guard securely.
4. **Dust Extraction:** Connect a suitable dust extraction system to the integrated dust port for a cleaner and safer working environment.
5. **Box Extension and Length Gauge:** Attach the detachable box extension and length gauge as needed for supporting longer workpieces and ensuring consistent cut lengths.
6. **Power Connection:** Connect the saw to a grounded power outlet. Ensure the voltage matches the tool's requirements.

## 5. OPERATION

Follow these steps for safe and accurate operation of your mitre saw:

1. **Workpiece Placement:** Place the workpiece firmly against the fence and the base. Use clamps for added security, especially for smaller or irregularly shaped pieces.

## 2. Angle Adjustment:

- **Mitre Angle:** Loosen the mitre lock knob, adjust the turntable to the desired angle (up to 47° left / 52° right), and tighten the knob.
- **Bevel Angle:** Loosen the bevel lock, tilt the saw head to the desired bevel angle (up to 45° left / 0° right), and secure the lock.

3. **Laser Guide Activation:** Activate the direct laser guide to project the cutting line onto the workpiece. Align the workpiece with the laser line for precise cuts.

4. **Starting the Saw:** Press the power switch to start the motor. Allow the blade to reach full speed before beginning the cut.

## 5. Making the Cut:

- Slowly lower the saw blade into the workpiece with a steady, controlled motion.
- Do not force the blade through the material. Let the saw do the work.
- Once the cut is complete, allow the blade to stop rotating before raising the saw head.

6. **Stopping the Saw:** Release the power switch to turn off the saw.



Image 5.1: An operator demonstrating the use of the mitre saw for cutting a wooden beam.



Image 5.2: Close-up of an operator performing a precise cut on a wooden plank.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your mitre saw:

- **Cleaning:** After each use, disconnect the power and clean the saw thoroughly. Remove sawdust and debris from the motor vents, blade guard, and base. Use a soft brush or compressed air.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Lubrication:** Refer to the detailed service manual for specific lubrication points and recommended lubricants. Generally, moving parts may require occasional light lubrication.
- **Cord Inspection:** Check the power cord for any signs of damage, cuts, or fraying. Replace damaged cords immediately.
- **Fastener Check:** Periodically check all nuts, bolts, and screws for tightness. Tighten as necessary.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter:

| Problem            | Possible Cause  | Solution   |
|--------------------|---|--|
| Saw does not start | No power supply; faulty switch; tripped circuit breaker.  | Check power connection; test outlet; reset circuit breaker; contact service if switch is faulty. |
| Inaccurate cuts    | Blade dull or damaged; fence not properly aligned; workpiece not secured; laser guide misaligned. | Replace blade; check and adjust fence alignment; secure workpiece; calibrate laser guide.        |

| Problem                      | Possible Cause   | Solution  |
|------------------------------|--|---|
| Excessive vibration or noise | Loose blade; damaged blade; loose mounting bolts; worn motor bearings. | Tighten blade; replace damaged blade; tighten mounting bolts; contact service for motor issues. |
| Sawdust accumulation         | Dust extraction system not connected or clogged.                       | Connect dust extractor; clear any blockages in the dust port or hose.                           |

## 8. SPECIFICATIONS

Technical data for the Bosch Professional GCM 254 Corded Electric Mitre Saw:

|                                     |  |
|-------------------------------------|--|
| <b>Model Number</b>                 | 0601B520F0   |
| <b>Rated Power Input</b>            | 1750 W   |
| <b>No-Load Speed</b>                | 5000 RPM   |
| <b>Saw Blade Diameter</b>           | 254 mm   |
| <b>Saw Blade Bore Diameter</b>      | 25.4 mm  |
| <b>Mitre Setting</b>                | 47° Left / 52° Right   |
| <b>Bevel Setting</b>                | 45° Left / 0° Right  |
| <b>Cutting Capacity (0° Mitre)</b>  | 90 x 130 mm  |
| <b>Cutting Capacity (45° Mitre)</b> | 90 x 91 mm   |
| <b>Cutting Capacity (45° Bevel)</b> | 60 x 130 mm  |
| <b>Item Weight</b>                  | 11.1 kg  |
| <b>Product Dimensions</b>           | 57.5L x 40W x 41H Centimeters  |
| <b>Power Source</b>                 | Corded Electric  |
| <b>Special Features</b>             | Integrated Dust Extractor, Laser Guide   |
| <b>Included Components</b>          | 1 Mitre Saw Unit, 1 Circular Saw Blade, Detachable Box Extension, Length Gauge |

## TECHNICAL DATA

|                             |                    |
|-----------------------------|--------------------|
| SAW BLADE DIAMETER          | 254 mm             |
| RATED POWER INPUT           | 1,750 W            |
| MITRE SETTING               | 47 ° L / 52 ° R    |
| NO-LOAD SPEED               | 5,000 - 5,000 rpm  |
| BEVEL SETTING               | 45 ° L / 0 ° R     |
| SAW BLADE BORE DIAMETER     | 25.4 mm            |
| CUTTING CAPACITY, 0°        | 90 x 130 mm        |
| WEIGHT                      | 11.1 kg            |
| CUTTING CAPACITY, 45° MITRE | 90 x 91 mm         |
| CUTTING CAPACITY, 45° BEVEL | 60 x 130 mm        |
| TOOL DIMENSIONS             | 477 x 559 x 567 mm |



Image 8.1: Visual representation of technical data and the mitre saw.

## 9. WHAT'S IN THE BOX

Your Bosch Professional GCM 254 Corded Electric Mitre Saw package typically includes the following items:

1. Bosch GCM 254 Mitre Saw Unit
2. Circular Saw Blade (Optiline Wood 254 x 2.8/1.8 x 30 mm)
3. Detachable Box Extension
4. Length Gauge
5. User Manual

## THE PACKAGE CONTAINS



- 1** 1X GCM 254 MITRE SAW
- 2** 1 X CIRCULAR SAW BLADE
- 3** OPTILINE WOOD 254 X 2.8/1.8 X 30 MM

Image 9.1: Visual representation of the typical package contents.

## 10. WARRANTY AND SUPPORT

The Bosch Professional GCM 254 Corded Electric Mitre Saw comes with a **1-year warranty**. For warranty claims, technical assistance, or customer support, please contact Bosch customer service.

**Customer Care Number:** 18004258665

For additional information and support, you may visit the official Bosch website or contact an authorized service center.