

## Mafell LO-FA 207200

# Mafell LO-FA 207200 Router Adapter Instruction Manual

For use with Mafell LO 65 Ec Router

## 1. INTRODUCTION

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Thank you for choosing the Mafell LO-FA 207200 Router Adapter. This precision accessory is designed to enhance the capabilities of your Mafell LO 65 Ec router, enabling accurate and repeatable routing operations such as circle cutting, arc routing, and precise edge guiding. This manual provides essential information for the safe and effective use of your new adapter. Please read it thoroughly before operation and keep it for future reference.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions when using the LO-FA 207200 Router Adapter in conjunction with your Mafell LO 65 Ec router:

- **Read Router Manual:** Always refer to the instruction manual of your Mafell LO 65 Ec router for comprehensive safety guidelines related to the power tool itself.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, and a dust mask, when operating the router.
- **Power Disconnection:** Disconnect the router from the power supply before making any adjustments, changing bits, or performing maintenance on the adapter or router.
- **Secure Workpiece:** Ensure the workpiece is securely clamped or held to prevent movement during routing operations.
- **Proper Attachment:** Verify that the LO-FA 207200 adapter is correctly and securely attached to the router before each use. Loose attachments can lead to loss of control and injury.
- **Stable Work Surface:** Work on a stable, level, and well-lit surface.
- **Dust Extraction:** Utilize dust extraction systems to minimize airborne dust, especially when routing materials that produce fine particles.
- **Inspect Before Use:** Before each use, inspect the adapter for any damage, wear, or loose components. Do not use if damaged.

## 3. PRODUCT OVERVIEW

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The Mafell LO-FA 207200 Router Adapter is a robust accessory designed for precision routing. It consists of several key components that facilitate various routing tasks.



Figure 3.1: Overview of the Mafell LO-FA 207200 Router Adapter showing its main components including the base, guide rods, adjustment knobs, and clamping mechanisms.

## Key Components:

- **Main Adapter Body:** The central frame that attaches to the router and supports the guide mechanisms.
- **Guide Rods:** Two parallel rods that allow for precise linear movement or pivot for circular cuts.
- **Adjustment Knobs:** Used to set the milling radius for circular cuts or the offset for edge guiding.
- **Clamping Mechanisms:** Securely fasten the adapter to the router and lock guide rod positions.
- **Stop Jaws:** Adjustable components for precise edge guiding (adjustment range: 0 - 54 mm).
- **Height Compensation Plate:** Allows for a 6 mm height compensation.

## 4. SETUP

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Proper setup of the LO-FA 207200 adapter is crucial for accurate and safe operation.

### 4.1 Attaching the Adapter to the Router

1. Ensure your Mafell LO 65 Ec router is unplugged from the power source.
2. Align the mounting points of the LO-FA 207200 adapter with the corresponding attachment points on the base of your Mafell LO 65 Ec router.

3. Securely fasten the adapter using the provided screws or clamping mechanisms. Ensure there is no wobble or play.

## 4.2 Adjusting for Circle Routing

To cut circles or arcs, the adapter uses a pivot point. The milling radius can be adjusted from 97 mm to 380 mm.

1. Insert the compass pin into the designated bore on the adapter. The compass pin bore diameter is 4.5 mm.
2. Loosen the adjustment knobs on the guide rods.
3. Slide the router along the guide rods until the desired milling radius is achieved. Measure from the center of the router bit to the center of the compass pin.
4. Tighten the adjustment knobs firmly to lock the radius setting.

## 4.3 Adjusting for Edge Guiding

For straight edge routing, the adjustable stop jaws are used.

1. Loosen the locking mechanisms for the stop jaws.
2. Adjust the stop jaws to the desired offset from the router bit. The adjustment range is 0 - 54 mm.
3. Ensure both stop jaws are parallel to the router bit and tighten their locking mechanisms.

## 4.4 Height Compensation

The adapter offers a 6 mm height compensation feature, useful for specific routing depths or material thicknesses. Consult your router's manual for detailed depth setting procedures.

# 5. OPERATING INSTRUCTIONS

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Once the LO-FA 207200 adapter is properly set up, you can begin your routing operation.

## 5.1 General Operation Tips

- Always perform a test cut on scrap material to verify settings and ensure desired results.
- Maintain a firm grip on the router and adapter during operation.
- Move the router smoothly and consistently through the material. Avoid forcing the tool.
- For deeper cuts, make multiple passes, increasing the depth with each pass.

## 5.2 Circle Routing Technique



*Figure 5.1: The Mafell LO-FA 207200 Router Adapter in use for cutting a precise circle. The compass pin acts as a pivot point, guiding the router along the desired radius.*

1. Mark the center point of your desired circle on the workpiece.
2. Drill a small pilot hole at the center point, suitable for the compass pin.
3. Insert the compass pin into the pilot hole.
4. With the router bit clear of the workpiece, turn on the router.
5. Slowly plunge the router bit into the material and begin rotating the router around the compass pin in a clockwise direction for conventional routing, or counter-clockwise for climb routing (refer to router manual for bit rotation and feed direction).
6. Maintain consistent pressure and speed for a clean cut.

### **5.3 Edge Guiding Technique**



*Figure 5.2: The Mafell LO-FA 207200 Router Adapter being used to guide the router along a straight edge of a workpiece. The adjustable stop jaws maintain a consistent distance from the edge.*





Figure 5.3: A closer view of the Mafell LO-FA 207200 Router Adapter during operation, highlighting the router's position relative to the adapter and the importance of dust management.

1. Ensure the stop jaws are correctly set for the desired offset from the edge.
2. Place the adapter's stop jaws firmly against the edge of the workpiece.
3. With the router bit clear of the workpiece, turn on the router.
4. Slowly plunge the router bit into the material.
5. Guide the router along the edge, keeping the stop jaws consistently pressed against the workpiece edge.
6. Maintain a steady feed rate for a smooth and even cut.

## 6. MAINTENANCE

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Regular maintenance will ensure the longevity and optimal performance of your LO-FA 207200 Router Adapter.

- **Cleaning:** After each use, disconnect the adapter from the router and clean it thoroughly. Remove all dust, wood chips, and debris using a brush or compressed air. Avoid using solvents that may damage the material.
- **Inspection:** Periodically inspect all components for signs of wear, damage, or deformation. Pay close

attention to guide rods, adjustment mechanisms, and clamping points.

- **Lubrication:** Lightly lubricate the guide rods and any moving parts with a dry lubricant or silicone spray to ensure smooth operation. Avoid excessive lubrication that can attract dust.
- **Storage:** Store the adapter in a clean, dry place, away from direct sunlight and extreme temperatures. Protect it from impacts that could cause misalignment or damage.

## 7. TROUBLESHOOTING

If you encounter issues with your LO-FA 207200 Router Adapter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Adapter does not attach securely to router.	Incorrect alignment; mounting screws/clamps not tightened; incompatible router model.	Ensure proper alignment with Mafell LO 65 Ec router; tighten all fasteners; verify router compatibility.
Inaccurate or inconsistent cuts.	Loose adjustment knobs; guide rods not clean; workpiece not secure; incorrect measurement.	Tighten all adjustment knobs; clean guide rods; securely clamp workpiece; re-measure settings carefully.
Difficulty sliding router along guide rods.	Dust/debris on rods; lack of lubrication; bent rods.	Clean guide rods thoroughly; apply light lubricant; inspect rods for damage and replace if bent.

## 8. SPECIFICATIONS

Technical specifications for the Mafell LO-FA 207200 Router Adapter:






- **Model:** LO-FA 207200
- **Compatibility:** Mafell LO 65 Ec Router
- **Milling Radius:** 97 - 380 mm
- **Height Compensation:** 6 mm
- **Compass Pin Bore Diameter:** 4.5 mm
- **Stop Jaw Adjustment Range:** 0 - 54 mm
- **Weight:** 1.5 kg (approximately)
- **Material:** Aluminium, Acrylonitrile Butadiene Styrene (ABS)

## 9. WARRANTY AND SUPPORT

For information regarding warranty coverage, spare parts, or technical support for your Mafell LO-FA 207200 Router Adapter, please contact your authorized Mafell dealer or visit the official Mafell website. Keep your purchase receipt as proof of purchase for any warranty claims.

*Note: Information regarding spare parts availability for this specific model is currently unavailable in our records. Please contact Mafell customer service for the most up-to-date information.*

Related Documents - LO-FA 207200

	<p><a href="#">MAFELL NFU 50 Groove-Cutting and Cross-Cut Milling System Operating Manual</a></p> <p>This document provides comprehensive operating instructions for the MAFELL NFU 50, a versatile groove-cutting and cross-cut milling machine. It covers essential safety guidelines, detailed technical specifications, step-by-step operation procedures, maintenance advice, and troubleshooting tips to ensure efficient and safe use of the MAFELL NFU 50.</p>
	<p><a href="#">Mafell P1cc Precision Jigsaw: Operating Manual and Safety Guide</a></p> <p>Official operating manual and safety guide for the Mafell P1cc precision jigsaw. Contains detailed information on technical specifications, safe operation, maintenance, troubleshooting, and available accessories.</p>
	<p><a href="#">Mafell ZSX TWIN-Ec Carpenter's Chain Saw Operating Manual</a></p> <p>Comprehensive operating instructions and safety guidelines for the Mafell ZSX TWIN-Ec carpenter's chain saw, covering setup, operation, maintenance, and troubleshooting for professional use.</p>
	<p><a href="#">Mafell ZSX Ec Zimmerei-Kettensäge: Betriebsanleitung und technische Daten</a></p> <p>Umfassende Betriebsanleitung für die Mafell ZSX Ec Zimmerei-Kettensäge. Enthält Sicherheitshinweise, technische Daten, Wartungsanleitungen und Zubehörinformationen für professionelle Holzbearbeitung.</p>
	<p><a href="#">Mafell ZB 100 ES Carpentry Drilling Machine: Operating Instructions and Safety Guide</a></p> <p>Comprehensive operating instructions and safety guide for the Mafell ZB 100 ES Carpentry Drilling Machine. Covers technical data, setup, operation, maintenance, and troubleshooting.</p>





Comprehensive operating and safety instructions for the MAFELL Charger APS M, covering product specifications, safe usage, charging procedures, maintenance, and troubleshooting for MAFELL rechargeable battery packs.