

Mafell EVA 150 E

Mafell EVA 150 E Random Orbital Sander Instruction Manual

Model: EVA 150 E (3 mm Stroke)

INTRODUCTION

The Mafell EVA 150 E random orbital sander is engineered for precision and efficiency in surface preparation. It delivers smooth operation and excellent finishing results on various materials, including wood, panel materials, paints, varnishes, and plaster. This manual provides essential information for the safe and effective use, setup, maintenance, and troubleshooting of your EVA 150 E sander. Please read these instructions carefully before operating the tool.

SAFETY INSTRUCTIONS

Always observe general power tool safety guidelines to prevent 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. Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions. Dress properly; avoid loose clothing or jewelry.
- **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.
- **Dust Extraction:** Always connect dust extraction equipment when sanding to minimize dust exposure and maintain a clear work area.

PRODUCT OVERVIEW

The Mafell EVA 150 E is a robust random orbital sander designed for professional use. Key components include:

- **Sanding Pad:** The circular base where sanding discs are attached.
- **Motor Housing:** Contains the powerful 350 W motor.

- **Handle:** Ergonomically designed for comfortable grip and control.
- **Speed Control Dial:** Allows adjustment of sanding speed (6,000 – 12,000 RPM).
- **On/Off Switch:** For powering the tool.
- **Dust Extraction Port:** For connecting a dust bag or external vacuum system.



Image: The Mafell EVA 150 E random orbital sander, showcasing its compact design and ergonomic handle.

SETUP

Before starting any sanding operation, ensure the tool is properly set up.

1. Attaching the Sanding Disc:

Ensure the sander is unplugged. Align the holes on the sanding disc with the holes on the sanding pad for optimal dust extraction. Press the disc firmly onto the hook-and-loop pad until it is securely attached.



Image: A hand holding a sanding disc, demonstrating its texture and flexibility, ready for attachment to the sander.

2. **Connecting Dust Extraction:**

Attach the provided dust bag or connect an external dust extraction system to the dust port. Proper dust extraction is crucial for a clean work environment and extended abrasive life.

3. **Power Connection:**

Plug the power cord into a suitable 230 Volt power outlet. Ensure the on/off switch is in the "off" position before plugging in.

OPERATING INSTRUCTIONS

Follow these steps for effective and safe operation of your Mafell EVA 150 E sander.

1. **Material Preparation:**

Ensure the workpiece is securely clamped or stable. Remove any loose debris or fasteners that could damage the sanding disc or workpiece.

2. **Speed Selection:**

Adjust the speed control dial according to the material and desired finish. Lower speeds are suitable for delicate materials or fine finishing, while higher speeds are for aggressive material removal.

3. **Starting the Sander:**

Place the sander flat on the workpiece before switching it on. This prevents gouging and ensures a smooth start. Press the on/off switch to start the tool.



Image: A user operating the Mafell EVA 150 E sander on a wooden surface, demonstrating proper grip and control during sanding.

4. **Sanding Technique:**

Apply light, even pressure. Let the tool do the work. Move the sander in overlapping circular or elliptical patterns to ensure uniform sanding and avoid swirl marks. Do not tilt the sander or apply excessive pressure, as this can damage the workpiece and the sanding pad.



Image: The Mafell EVA 150 E sander being used on a wooden panel, showing the dust collection system attached and the smooth motion of the tool.



Image: A user sanding a boat hull with the Mafell EVA 150 E, highlighting its versatility for larger and curved surfaces.

5. **Stopping the Sander:**

Lift the sander from the workpiece before switching it off. This prevents the sander from marking the surface as it slows down. Press the on/off switch to turn off the tool.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sander. Always unplug the tool before performing any maintenance.

- **Cleaning:** Regularly clean the tool, especially the ventilation slots, to prevent dust buildup that can hinder motor cooling. Use a soft brush or compressed air.
- **Sanding Pad Inspection:** Periodically inspect the hook-and-loop sanding pad for wear. A worn pad will not hold sanding discs securely, affecting sanding quality. Replace if necessary.
- **Dust Bag/System:** Empty the dust bag frequently or clean the dust extraction system to maintain efficiency.
- **Cord Inspection:** Check the power cord for any damage. Do not use the tool if the cord is damaged.

TROUBLESHOOTING

If you encounter issues with your Mafell EVA 150 E, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Sander does not start	No power supply; Faulty switch; Damaged cord	Check power outlet and cord; Contact service for switch/cord replacement.
Poor sanding results / Swirl marks	Worn sanding disc; Incorrect grit; Excessive pressure; Worn sanding pad	Replace sanding disc; Use appropriate grit; Apply lighter pressure; Replace sanding pad.
Excessive vibration	Improperly attached sanding disc; Damaged sanding pad; Internal component issue	Re-attach disc correctly; Replace sanding pad; Contact service for inspection.
Ineffective dust extraction	Dust bag full; Clogged dust port/hose; Incorrectly attached dust system	Empty dust bag; Clear clogs; Ensure secure connection.

SPECIFICATIONS

Technical data for the Mafell EVA 150 E random orbital sander:

- **Model:** EVA 150 E
- **Sanding Disc Diameter:** Ø 150 mm
- **Stroke:** 3 mm
- **No-load Speed:** 6,000 – 12,000 RPM (Revolutions per Minute)
- **Rated Power:** 350 W
- **Voltage:** 230 Volt
- **Power Source:** Corded Electric
- **Weight:** 2.1 kg (Product weight) / 5100 Grams (Item weight, likely including packaging)
- **Manufacturer Part Number:** 917701
- **ASIN:** B00K76CJVA

WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the official Mafell website or contact your authorized Mafell dealer. Keep your purchase receipt as proof of purchase.

Manufacturer: Mafell AG

Website: www.mafell.de

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