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Proxxon 27172 Micro Band Saw MBS 240/E Basic User Manual

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Model: 27172

- Introduction
- Setup
- Operation
- Maintenance
- Troubleshooting
- Specifications

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Proxxon 27172 Micro Band Saw MBS 240/E Basic. Please read this manual thoroughly before using the machine to ensure proper handling and to prevent injury or damage.





Figure 1: The Proxxon 27172 Micro Band Saw MBS 240/E Basic, a compact and robust tool designed for precision cutting of various materials.

## 2. SETUP

### 2.1 Unpacking and Inspection

Carefully remove the band saw from its packaging. Inspect all components for any signs of damage that may have occurred during transit. Ensure all included components are present:

- Proxxon MBS 240/E Band Saw Unit
- 1 band saw blade (1065 x 5 x 0.4 mm, 14 teeth)
- Work table with miter gauge



Figure 2: Detached work table and miter gauge, essential components for precise cutting operations.

## 2.2 Work Area Preparation

Set up the band saw on a stable, level workbench. Ensure adequate lighting and ventilation. Keep the work area clean and free of clutter. Maintain a safe distance from other machinery and personnel.

## 2.3 Blade Installation (if not pre-installed)

Refer to the markings on the machine for correct blade direction. Loosen the blade tension knob and open the blade guards. Carefully position the blade around the wheels, ensuring the teeth point downwards towards the work table. Re-tension the blade according to the manufacturer's guidelines and close the guards securely.

## 2.4 Power Connection

Connect the band saw to a suitable 12V DC power supply. Ensure the power switch is in the "OFF" position before connecting. The unit operates at 85 watts.

# 3. OPERATION

## 3.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and hearing protection.
- Never wear loose clothing or jewelry that could get caught in moving parts.
- Ensure the workpiece is securely supported before cutting.
- Keep hands clear of the blade path. Use a push stick when cutting small pieces.
- Do not force the material into the blade; allow the blade to cut at its own pace.

## 3.2 Adjusting the Work Table and Miter Gauge

The work table can be tilted up to 45 degrees for angled cuts. Loosen the locking knob, adjust to the desired angle using the scale, and re-tighten. The miter gauge can be inserted into the slot on the work table to guide the workpiece for accurate cross-cuts and angled cuts.



Figure 3: Detailed view of the adjustable work table and miter gauge, allowing for precise angle cuts.

### 3.3 Material Cutting Guide

The machine features a material cutting guide chart to assist in selecting the appropriate blade speed and feed rate for different materials. Refer to this chart for optimal performance and blade longevity.







Figure 4: Integrated material cutting guide chart on the machine, providing recommendations for various materials and blade types.

### 3.4 Starting and Stopping

To start the band saw, press the green "ON" button. To stop the machine, press the red "OFF" button. Always allow the blade to reach full speed before beginning a cut and to come to a complete stop before leaving the machine unattended.

## 4. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your Proxxon band saw. Always disconnect the power supply before performing any maintenance.

### 4.1 Cleaning

After each use, clear sawdust and debris from the work table, blade guides, and inside the blade housing. Use a brush or vacuum cleaner. Do not use solvents that may damage painted surfaces or plastic components.

### 4.2 Blade Replacement

Replace the blade when it becomes dull or damaged. Follow the blade installation steps in Section 2.3 in reverse to remove the old blade, and then follow them to install the new blade. Ensure the correct blade type and size (1065 x 5 x 0.4 mm) are used.

### 4.3 Lubrication

Periodically check and lubricate moving parts as indicated in the machine's specific diagrams (not provided in this general manual). Use a light machine oil.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your band saw. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Machine does not start	No power supply; Power switch off; Overload protection tripped	Check power connection; Ensure switch is ON; Reset overload protection (if applicable)
Blade wanders or cuts inaccurately	Dull blade; Incorrect blade tension; Worn blade guides	Replace blade; Adjust blade tension; Inspect and adjust/replace blade guides
Excessive vibration or noise	Loose components; Unbalanced blade; Worn bearings	Check all fasteners; Replace blade; Contact service for bearing inspection

## 6. SPECIFICATIONS

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Technical specifications for the Proxxon 27172 Micro Band Saw MBS 240/E Basic:

**Model:** 27172

**Brand:** PROXXON

**Power Source:** 12 Volts DC, 85 Watts

**Blade Length:** 1065 mm (approx. 41.9 inches)

**Blade Dimensions:** 5 x 0.4 mm

**Blade Teeth:** 14 teeth per inch (TPI)

**Speed:** 4500 RPM (blade speed)

**Max. Cutting Angle:** 45 Degrees (with tilting table)

**Product Dimensions (L x W x H):**20.47" x 13.78" x 9.84"

**Item Weight:** 7.78 kg (17.12 lbs)

**Included Components:** 1 band saw blade, work table, miter gauge

**Surface Recommendation:** Wood, metal

**Color:** Green

7. WARRANTY AND SUPPORT





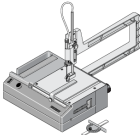


Information regarding product warranty and customer support is typically provided with the product packaging or on the manufacturer's official website. Please refer to those resources for detailed warranty terms and contact information for technical assistance.



For general inquiries or to find authorized service centers, please visit the official PROXXON website or contact their customer service department.



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Related Documents - 27172

<div> FET  Manual</div>	<p><a href="#">PROXXON FET Table Saw User Manual and Safety Guide</a></p> <p>Comprehensive user manual for the PROXXON FET table saw, covering setup, operation, safety instructions, maintenance, and parts list. Includes detailed guidance for safe and effective use of the tool.</p>
<div></div>	<p><a href="#">Proxxon Milling Cutter 11426528 Safety Instructions and Product Information</a></p> <p>Comprehensive safety instructions and product overview for the Proxxon milling cutter model 11426528. Learn about safe usage, material compatibility, and handling precautions.</p>
<div> DS 230/E  Manual</div>	<p><a href="#">PROXXON DS 230/E Fret Saw: Operating Instructions and Safety Guide</a></p> <p>Comprehensive operating instructions and safety guidelines for the PROXXON DS 230/E fret saw, covering safe usage, maintenance, technical specifications, and troubleshooting.</p>
<div> BSG 220  Manual</div>	<p><a href="#">PROXXON BSG 220 Drill Grinder Manual</a></p> <p>This manual provides operating instructions, safety regulations, and technical data for the PROXXON BSG 220 Drill Grinder. Learn how to properly grind spiral drills, adjust relief angles, dress the grinding wheel, and maintain the machine.</p>

	<p><a href="#">Proxxon Product Safety Guidelines</a></p> <p>Essential safety instructions for Proxxon products, covering safe work areas, tool inspection, user focus, manual adherence, user restrictions, and packaging warnings. Ensure safe operation with these guidelines.</p>
	<p><a href="#">PROXXON PD 250/E Precision Lathe Manual</a></p> <p>This manual provides comprehensive operating instructions, safety guidelines, technical data, and maintenance information for the PROXXON PD 250/E precision lathe. It covers setup, operation, turning techniques, thread cutting, and accessory installation.</p>