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› Scheppach HM90MP Multi-Function Radial Miter Saw Instruction Manual

## Scheppach HM90MP

# Scheppach HM90MP Multi-Function Radial Miter Saw

Model: HM90MP (5901219901)

## 1. INTRODUCTION

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The Scheppach HM90MP is a versatile multi-function radial miter saw designed for precise cutting of various materials. This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your HM90MP miter saw. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

This saw features a 216mm multi-function saw blade, two adjustable cutting speeds, a pivoting turntable, an inclinable saw head, and an integrated laser for accurate cuts. Its robust yet lightweight design with a carrying handle ensures portability.

## 2. PRODUCT OVERVIEW AND KEY FEATURES

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The Scheppach HM90MP miter saw is engineered for precision and versatility across a range of materials. Understanding its components and features is crucial for effective operation.

- **Multi-function Saw Blade:** Equipped with a 216 mm, 24-tooth blade suitable for wood, plastic, copper, aluminum, and steel.
- **Two Cutting Speeds:** Adjustable speeds to optimize cutting performance for different materials.
- **High Cutting Capacity:** Max cutting width of 340 mm and max cutting height of 65 mm.
- **Pivoting Turntable:** Adjustable from  $-45^{\circ}$  to  $+45^{\circ}$  for miter cuts, with multiple locking points for common angles.
- **Inclinable Saw Head:** Tilts up to  $45^{\circ}$  to the left for bevel cuts.
- **Integrated Laser:** Projects the exact cutting line for precise results.
- **LED Work Light:** Illuminates the cutting area for improved visibility.
- **Extendable Workpiece Supports:** Two supports with a high, foldable workpiece stop for optimal material positioning.

- **Clamp System:** Secures the workpiece during cutting operations.
- **Robust Construction:** Die-cast aluminum design for durability and reduced weight (11.6 kg).
- **Carrying Handle:** For easy transport.



Overall view of the Scheppach HM90MP miter saw, showcasing its design and key operational areas.

### 3. SETUP

Before operating the miter saw, ensure it is properly assembled and secured. Always work on a stable, level surface.

#### 3.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect for any shipping damage. Do not operate the saw if damage is present.
- Ensure all listed components are present: miter saw unit, 216mm universal saw blade, workpiece supports, clamp.

#### 3.2 Mounting the Saw

- Secure the miter saw to a workbench using bolts through the designated mounting holes in the base. This prevents movement during operation.

#### 3.3 Installing Workpiece Supports and Clamp

- Insert the extendable workpiece supports into their respective slots on either side of the saw table. Adjust their length as needed for your material.
- Attach the screw clamp to the saw table. Position it to firmly hold the workpiece against the fence during cuts.

# HOLZ MIT NÄGELN



Detail of the workpiece clamp and extendable support, essential for securing material during cutting.

## 4. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment (safety glasses, hearing protection, dust mask) when operating the saw.

### 4.1 Power Connection and Safety

- Connect the saw to a 230V AC power supply.
- Ensure the power cord is clear of the cutting path and cannot be damaged.
- Familiarize yourself with the location of the ON/OFF switch and the emergency stop (if applicable).

### 4.2 Adjusting Cutting Speeds

The HM90MP offers two cutting speeds to match different materials. Select the appropriate speed before starting the cut.

- **Speed 1 (Lower RPM):** Recommended for harder materials like metals (steel, aluminum, copper) and some plastics.
- **Speed 2 (Higher RPM):** Recommended for softer materials like wood and certain plastics.



Visual representation of the two speed settings, soft start feature, laser guide, and ambidextrous controls.

#### **4.3 Setting Miter Angles (Horizontal Cuts)**

- Loosen the turntable locking knob.
- Rotate the turntable to the desired angle (between  $-45^{\circ}$  and  $+45^{\circ}$ ). Use the angle scale for precision.
- Lock the turntable securely in place.

#### **4.4 Setting Bevel Angles (Vertical Cuts)**

- Loosen the bevel locking lever at the rear of the saw head.
- Tilt the saw head to the desired angle (up to  $45^{\circ}$  to the left). Use the bevel scale for accuracy.
- Securely tighten the bevel locking lever.

# KUNSTSTOFF



The saw head tilted to the left, demonstrating its capability for bevel cuts.

## 4.5 Using the Laser Guide and LED Light

- Activate the laser guide and LED work light using their respective switches.
- Align the laser line with your marked cutting line on the workpiece.
- The LED light provides optimal illumination of the cutting area, especially in low-light conditions.

# HARTHOLZ & WEICHHOLZ



The integrated laser guide projecting a clear line onto the workpiece for accurate cutting alignment.

## 4.6 Performing a Cut

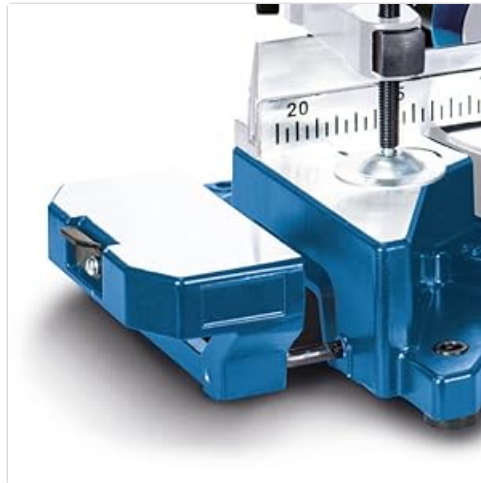
- Place the workpiece firmly against the fence and secure it with the clamp.
- Ensure the saw blade is clear of the workpiece before starting the motor.
- Press the ON switch to start the motor. Allow the blade to reach full speed before beginning the cut.
- Slowly lower the saw head into the workpiece. For wider materials, utilize the pull function by pulling the saw head towards you, lowering it, and then pushing it through the material.
- Maintain a steady, controlled feed rate. Do not force the saw.
- Once the cut is complete, release the ON switch and allow the blade to stop completely before raising the saw head.
- Remove the workpiece only after the blade has stopped.

## 4.7 Cutting Different Materials

The HM90MP is designed for a variety of materials. Always select the correct speed and ensure the workpiece is properly supported and clamped.

- **Wood (Hardwood & Softwood):** Use Speed 2. Ensure the wood is free of foreign objects.

- **Wood with Nails:** The multi-function blade can cut through wood containing nails, but proceed with caution and a slower feed rate.
- **Aluminum & Copper:** Use Speed 1. Apply a suitable cutting lubricant if necessary to prevent blade overheating and material buildup.
- **Steel:** Use Speed 1. A slower, consistent feed rate is crucial.
- **Plastic:** Use Speed 1 or 2 depending on the type of plastic. Test on a scrap piece first to avoid melting or chipping.



The saw blade making a precise cut through hardwood.



The saw blade cutting through an aluminum profile.



The saw blade engaged in cutting a steel workpiece.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your miter saw. Always disconnect the saw from the power supply before performing any maintenance or cleaning.

### 5.1 Cleaning

- After each use, clean the saw to remove dust, chips, and debris. Use a brush or compressed air.
- Pay special attention to the motor vents, blade guard, and moving parts to prevent buildup.
- Wipe down external surfaces with a damp cloth. Do not use harsh chemicals.

### 5.2 Blade Replacement

- Only use 216mm blades designed for miter saws and suitable for the materials you intend to cut.
- Refer to the detailed instructions in the full product manual for specific blade replacement steps, including locking the spindle and removing/installing the blade.
- Ensure the new blade is installed with the teeth pointing in the correct direction of rotation.

### 5.3 General Care

- Periodically check all screws and fasteners for tightness.
- Lubricate moving parts as recommended by the manufacturer (refer to the comprehensive manual).
- Store the saw in a dry, secure location, out of reach of children.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter. For more complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Overload protection triggered	Check power connection; Test power outlet; Reset circuit breaker; Allow motor to cool
Poor cut quality (rough, splintering)	Dull or incorrect blade; Incorrect speed setting; Workpiece not secured	Replace blade; Select appropriate speed; Secure workpiece firmly with clamp
Saw blade binds in material	Forcing the cut; Workpiece shifting; Incorrect blade for material	Reduce feed rate; Re-secure workpiece; Ensure correct blade is used
Laser line not visible	Laser switch off; Laser lens dirty; Battery (if applicable) low	Turn on laser; Clean laser lens; Replace laser battery (if applicable)

## 7. SPECIFICATIONS

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Technical data for the Scheppach HM90MP miter saw.

Specification	Value
Model Number	5901219901
Power Input	1700 Watts
Voltage	230 Volts (AC)
Saw Blade Diameter	216 mm
Max. Cutting Width	340 mm
Max. Cutting Height	65 mm
Miter Angle Range	-45° to +45°
Bevel Angle Range	0° to 45° (left)
Number of Speeds	2
Product Dimensions (L x W x H)	74 x 58.5 x 54 cm
Weight	12.36 kg
Cord Length	5000 mm
Sound Level	107 Decibels



Key specifications including maximum cutting width and height, RPM range, and the multi-function saw blade design.

## 8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase. Scheppach products typically come with a manufacturer's warranty covering defects in materials and workmanship.

If you require technical assistance, spare parts, or have questions not covered in this manual, please contact Scheppach customer support or visit their official website for service information.

- **Manufacturer:** Scheppach
- **Website:** [www.scheppach.com](http://www.scheppach.com) (Please check for your regional website)