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› Metabo KGS 216 M Chop Saw Instruction Manual

**Metabo KGS 216 M**

# Metabo KGS 216 M Chop Saw Instruction Manual

Model: KGS 216 M | Brand: Metabo

## 1. PRODUCT OVERVIEW AND KEY FEATURES

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The Metabo KGS 216 M Chop Saw is a versatile and precise tool designed for various cutting applications, particularly in woodworking. It features a robust construction and a pull function for extended cutting capacity.



Figure 1.1: The Metabo KGS 216 M Chop Saw, showcasing its compact design and main components.

## Key Features:

- **Mitre Saw with Pull Function:** Lightweight, precise, and user-friendly design with an integrated pull function for increased cutting capacity on wider workpieces.
- **Precision Cut Line (PCL):** Features an exact shadow cutting line, illuminated by a cleverly placed LED, eliminating the need for readjustment and ensuring precise cuts.
- **Fast Turntable Adjustment:** The turntable allows for quick and precise adjustment of common angles via locking points, enhancing efficiency.
- **Saw Blade Tilt:** The saw blade can be tilted from -2 to 47 degrees, making it suitable for undercuts and various complex angle cuts.
- **Extendable Table Widening:** Integrated, extendable, and removable table widenings provide additional support for larger workpieces.
- **Quick Clamp:** A quick-release clamping device ensures secure fixation of the workpiece during operation.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent electric shock, fire, and serious personal injury. Keep this instruction manual for future reference.

- **Work Area Safety:** Keep the 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. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use dust masks when operating in dusty conditions. Do not overreach. Keep proper footing and balance at all times.
- **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.
- **Specific Chop Saw Safety:**
  - Ensure the blade is sharp and correctly installed.
  - Always secure the workpiece with the clamping device before cutting.
  - Keep hands clear of the cutting path and blade.
  - Allow the blade to reach full speed before beginning a cut.
  - Never attempt to remove cut-off material while the blade is rotating.

## 3. SETUP AND ASSEMBLY

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Before operating your Metabo KGS 216 M Chop Saw, ensure it is properly assembled and set up in a stable and safe environment.

### 3.1 Unpacking and Initial Inspection

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

- Metabo KGS 216 M Chop Saw unit
- Saw blade (pre-installed or separate)
- Quick clamp
- Dust bag
- Instruction manual (this document)

### 3.2 Securing the Saw

Place the chop saw on a stable, level workbench or a compatible saw stand. Use appropriate fasteners to secure the saw to prevent movement during operation.



Figure 3.1: Proper setup of the chop saw on a stable work surface, ensuring safety and stability.

### 3.3 Attaching the Dust Bag

Attach the provided dust bag to the dust extraction port on the saw. For optimal dust collection, connect the saw to an external dust extractor system.

### 3.4 Adjusting Table Widenings

The saw is equipped with extendable table widenings to support longer workpieces. Pull them out as needed to provide adequate support for your material.



Figure 3.2: The extendable table widenings provide additional support for larger workpieces, ensuring stability during cuts.

### 3.5 Installing the Quick Clamp

Insert the quick clamp into the designated slot on the saw base. This clamp is essential for securely holding your workpiece in place during cutting operations.



## Schnellspannzwinge zur sicheren Fixierung

Figure 3.3: The quick clamp securely holds the workpiece, preventing movement and ensuring precise and safe cuts.

### 4. OPERATING INSTRUCTIONS

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This section details the steps for safely and effectively operating your Metabo KGS 216 M Chop Saw.

#### 4.1 Preparing the Workpiece

Measure and mark your desired cut line on the workpiece. Ensure the workpiece is free of nails, screws, or other foreign objects that could damage the blade.

#### 4.2 Securing the Workpiece

Place the workpiece firmly against the fence and the saw base. Use the quick clamp to secure the workpiece tightly. A properly clamped workpiece prevents kickback and ensures accurate cuts.



Figure 4.1: A user demonstrating the proper technique for securing a workpiece before making a cut.

### 4.3 Adjusting Cutting Angles (Miter and Bevel)

**Miter Angle:** To adjust the miter angle, release the turntable lock and rotate the turntable to the desired angle indicated on the scale. Lock the turntable securely in place. Common angles have detents for quick setting.

**Bevel Angle:** To adjust the bevel (tilt) angle, release the bevel lock and tilt the saw head to the desired angle between -2 and 47 degrees. Securely lock the saw head in position.



Figure 4.2: Close-up view of the saw's turntable and angle adjustment mechanism, highlighting the clear measurement scale.

#### 4.4 Using the Precision Cut Line (PCL)

The PCL feature projects a shadow line onto the workpiece, indicating the exact cutting path of the blade. Align your marked cut line with the shadow line for precise cuts without needing to lower the blade to check alignment.



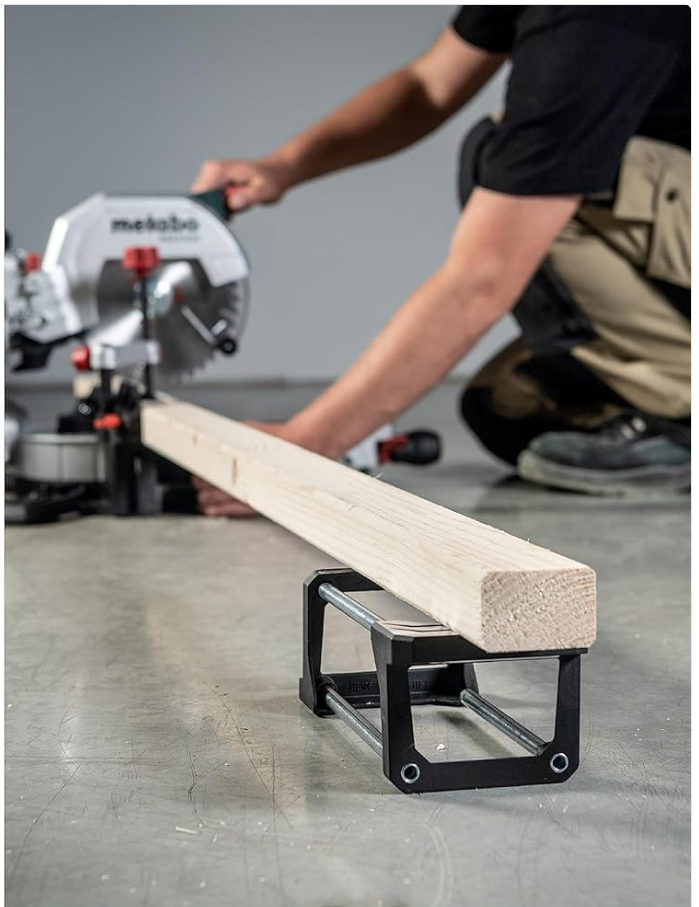
Figure 4.3: The Precision Cut Line (PCL) projects a clear shadow, guiding the user for accurate cuts.

## 4.5 Making a Cut

1. Ensure the workpiece is securely clamped and all adjustments are locked.
2. Hold the handle firmly and press the trigger to start the motor. Allow the blade to reach full operating speed before beginning the cut.
3. Slowly lower the saw head into the workpiece, applying steady, even pressure. For wider materials, utilize the pull function by pulling the saw head towards you, lowering it, and then pushing it through the material.
4. Once the cut is complete, release the trigger and allow the blade to stop rotating completely before raising the saw head.
5. Remove the cut-off material.



Figure 4.4: A user demonstrating the cutting process, maintaining control and proper posture.



## Ausziehbare, abnehmbare Tischverbreiterungen

Figure 4.5: Close-up of a user making a precise cut, highlighting the saw's accuracy.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Metabo KGS 216 M Chop Saw.

### 5.1 Cleaning

- After each use, disconnect the saw from the power supply.
- Use a brush or compressed air to remove sawdust and debris from the motor vents, blade guard, and turntable area.
- Wipe down external surfaces with a damp cloth. Do not use harsh chemicals or solvents.
- Regularly empty the dust bag or dust collection system.

### 5.2 Blade Care and Replacement

- Inspect the saw blade regularly for sharpness, cracks, or missing teeth. A dull or damaged blade can cause kickback and poor cut quality.
- When replacing the blade, ensure the saw is unplugged. Follow the instructions in the saw's manual for safe blade removal and installation. Always use blades of the correct diameter and arbor size.
- The Metabo KGS 216 M uses a carbide blade with 30 teeth, suitable for wood.

### 5.3 Lubrication

Periodically apply a light machine oil to moving parts, such as the slide rails for the pull function, to ensure smooth operation. Refer to the detailed manual for specific lubrication points.

## 6. TROUBLESHOOTING

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This section provides solutions to common issues you might encounter with your chop saw. For problems not listed here, contact Metabo customer support.

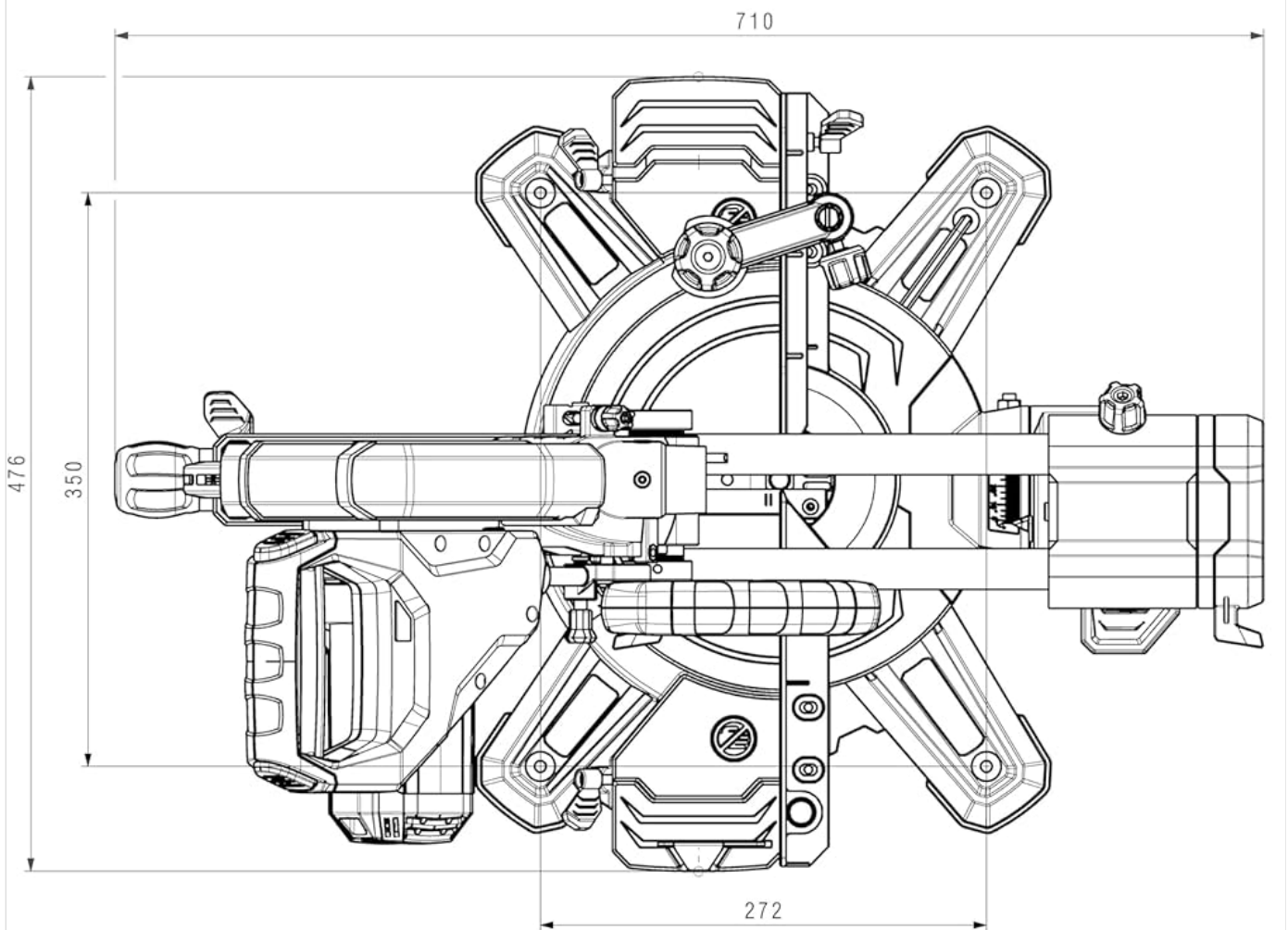
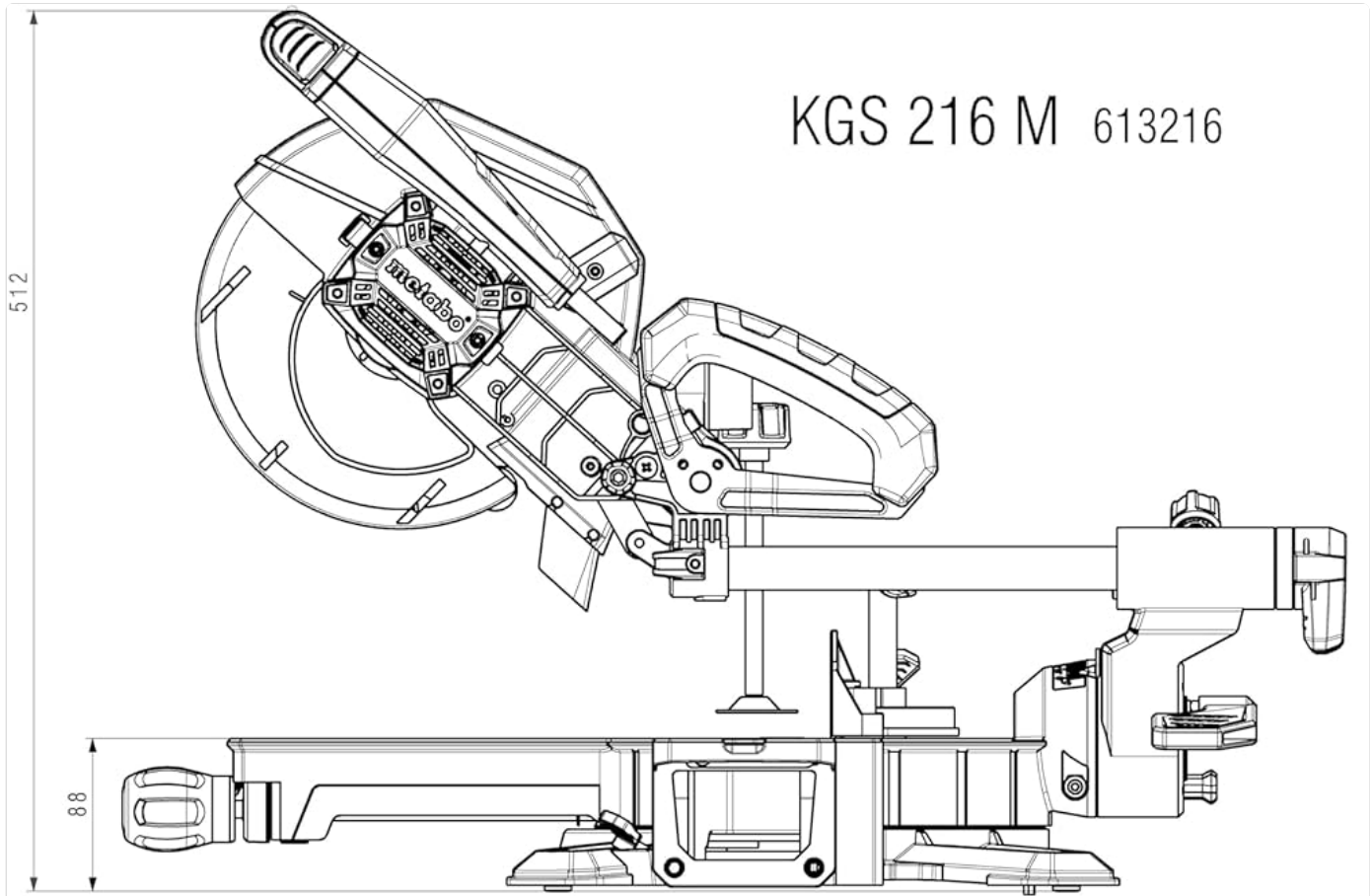
Problem	Possible Cause	Solution
Saw does not start	No power supply; faulty switch; tripped circuit breaker.	Check power cord connection and outlet. Test the switch. Reset circuit breaker.
Blade not cutting smoothly or burning wood	Dull or dirty blade; incorrect blade for material; workpiece not secured.	Clean or replace blade. Ensure blade is appropriate for wood. Secure workpiece firmly.
Excessive vibration or noise	Loose blade; damaged blade; worn bearings.	Check blade for tightness and damage. Replace blade if damaged. Contact service for bearing issues.
Dust collection is poor	Dust bag full; dust port clogged; improper connection to extractor.	Empty dust bag. Clear any clogs in the dust port. Ensure secure connection to dust extractor.

## 7. SPECIFICATIONS

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Detailed technical specifications for the Metabo KGS 216 M Chop Saw.

KGS 216 M 613216



**metabo**<sup>®</sup>

Figure 7.1: Technical drawing illustrating the dimensions and key components of the Metabo KGS 216 M.

Attribute	Detail
Model Number	KGS 216 M
Part Number	613216000
Power Source	AC
Voltage	230 Volts
Wattage	1500 Watts
Item Weight	13.4 Kilograms (29.5 pounds)
Product Dimensions (L x W x H)	20.08" x 13.78" x 29.72"
Blade Material	Carbide
Number of Teeth	30
Cutting Angle (Max)	47 Degrees
Surface Recommendation	Wood
Included Components	KGS 216 M chop saw

## 8. WARRANTY AND SUPPORT

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Metabo products are known for their quality and durability. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official Metabo website.

For technical support, spare parts, or service inquiries, please contact Metabo customer service. Ensure you have your model number (KGS 216 M) and serial number ready when contacting support.

**Metabo Official Website:** [www.metabo.com](http://www.metabo.com)