

JCB 21-MS-210-C

JCB 210mm Mitre Saw User Instruction Manual

Model: 21-MS-210-C | Brand: JCB

PRODUCT OVERVIEW

The JCB 210mm Mitre Saw is a powerful and versatile tool designed for precise cutting of various materials including steel, aluminum, wood (with embedded nails), and plastic. It features an 1100W motor, a 210mm 24T carbide tipped (TCT) blade, and a laser guide for enhanced accuracy and safety. The saw is equipped with 4 mitre cut settings and a dust collection feature for a cleaner working environment.



Figure 1: Overview of the JCB 210mm Mitre Saw, showing the main unit, blade guard, and dust collection bag.

IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using this power tool to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating.

- **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 expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use a dust mask if operations create dust. 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.
- **Laser Safety:** The laser wavelength is 650nm. Avoid direct eye exposure to the laser beam. Do not stare into the laser aperture.

SETUP AND ASSEMBLY

Before first use, ensure all components are present and properly assembled. Refer to the diagram below for component identification.



Figure 2: Key features of the JCB Mitre Saw, including laser guide, maximum cutting depth, aluminum guard, bevel range, and blade diameter.

1. **Unpacking:** Carefully remove the mitre saw and all accessories from the packaging. Inspect for any shipping damage.
2. **Mounting:** Secure the mitre saw to a stable workbench using appropriate clamps or bolts through the base mounting holes. Ensure the saw is level and stable.
3. **Dust Bag Attachment:** Attach the provided dust bag to the dust port located at the rear of the blade guard assembly. Ensure it is securely fastened to collect sawdust effectively.
4. **Blade Installation (if not pre-installed):** Ensure the saw is unplugged. Follow the instructions in the blade replacement section to safely install the 210mm TCT blade.
5. **Power Connection:** Connect the saw to a suitable 240V AC power outlet. Ensure the power switch is in the OFF

position before plugging in.

OPERATING INSTRUCTIONS

Basic Operation

1. **Material Placement:** Place the workpiece firmly against the fence and the saw base. Use clamps to secure smaller pieces.
2. **Powering On:** Depress the trigger switch on the handle to start the motor. Allow the blade to reach full speed before beginning the cut.
3. **Making a Cut:** Slowly lower the blade through the workpiece with a steady, controlled motion. Do not force the saw.
4. **Powering Off:** Release the trigger switch to stop the motor. Wait for the blade to come to a complete stop before raising the blade or removing the workpiece.



Figure 3: The ergonomic handle and power switch for operating the mitre saw.

Laser Guide Operation

The integrated laser guide projects a line onto the workpiece, indicating the exact cutting path of the blade. This enhances accuracy and allows for precise alignment before cutting.

- The laser guide is powered by the mains via a safety isolating transformer.

- To activate the laser, ensure the saw is plugged in and the laser switch (if separate) is turned on.
- Align the projected laser line with your desired cut mark on the workpiece.



Figure 4: The laser guide mechanism, which projects a precise cutting line onto the workpiece.

Adjusting Mitre Angles

The saw offers a cut range of -45° / 0° / $+45^{\circ}$ for various mitre cuts.

1. Loosen the mitre lock knob located on the front of the saw base.
2. Rotate the turntable to the desired angle indicated on the mitre scale.
3. Tighten the mitre lock knob firmly to secure the turntable in position before making a cut.



Figure 5: Detailed view of the saw base, showing the mitre angle scale and locking mechanism for precise adjustments.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your JCB Mitre Saw. Always unplug the saw before performing any maintenance.

- **Cleaning:** After each use, clean the saw thoroughly. Remove sawdust and debris from the blade guard, motor vents, and base. Use a soft brush or compressed air.
- **Dust Bag:** Empty the dust bag regularly to maintain effective dust collection. Clean the bag periodically to prevent clogging.
- **Blade Inspection:** Inspect the blade for sharpness, damage, or missing teeth before each use. A dull or damaged blade can cause kickback and poor cuts.
- **Blade Replacement:** To replace the blade, ensure the saw is unplugged. Use the provided wrench to loosen the arbor nut while holding the blade lock button. Carefully remove the old blade and install the new 210mm blade, ensuring the teeth are oriented correctly. Tighten the arbor nut securely.

- **Lubrication:** Periodically apply a light coat of machine oil to moving parts and pivot points to ensure smooth operation.



Figure 6: The dust collection bag attached to the mitre saw, essential for maintaining a clean work environment.

TROUBLESHOOTING

This section addresses common issues you might encounter with your JCB Mitre Saw.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Motor overload.	Check power cord and outlet. Ensure switch is fully engaged. Allow motor to cool if overheated.
Blade not cutting cleanly	Dull or damaged blade; Incorrect blade for material; Blade installed backward.	Replace blade. Ensure correct blade type for material. Check blade orientation.
Excessive vibration or noise	Loose blade; Damaged blade; Unstable mounting.	Tighten blade arbor nut. Replace damaged blade. Securely mount saw to workbench.

Problem	Possible Cause	Solution
Laser guide not visible	Laser switch off; Dirty laser lens; Bright ambient light.	Turn on laser switch. Clean laser lens. Reduce ambient light if possible.
Poor dust collection	Dust bag full; Dust port clogged; Dust bag not properly attached.	Empty dust bag. Clear any clogs from dust port. Re-attach dust bag securely.

TECHNICAL SPECIFICATIONS

Specification	Detail
Model Number	21-MS-210-C
Power Source	Corded Electric
Voltage	240 Volts
Wattage	1100 Watts
Blade Diameter	210 mm
Blade Bore	30 mm
Blade Thickness	2.6 mm
Number of Teeth (Blade)	24T (TCT)
No-Load Speed	5500 RPM (max 7000/min)
Mitre Cut Range	-45° / 0° / +45°
Laser Wavelength	650 nm
Item Weight	9 g
Package Dimensions	48.4 x 32.2 x 29 cm





WARRANTY AND SUPPORT

This JCB Mitre Saw is backed by a **JCB 3 Year Warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or spare parts, please contact JCB customer support. UK support is available to assist with any queries or issues you may encounter.

Please retain your proof of purchase for warranty validation.

Related Documents

	<p>JCB 926/930/940 Rough Terrain Forklift: Performance, Features, and Specifications</p> <p>Discover the JCB 926, 930, and 940 Rough Terrain Forklifts. This guide details their powerful EcoMAX engines, advanced hydraulics, operator comfort features, robust build quality, and integrated Livelink technology for enhanced productivity and efficiency.</p>
	<p>JCB Power Tool and Battery Specification Sheets</p> <p>Comprehensive specification sheets for various JCB cordless power tools, including drill drivers, impact drivers, inspection lights, battery packs, and fast chargers. Details technical specifications, performance data, safety compliance, and packaging information.</p>
	<p>JCB 8025, 8030, 8035 ZTS Mini Excavators: Performance, Features, and Specifications</p> <p>Discover the JCB 8025, 8030, and 8035 ZTS mini excavators, designed for productivity, performance, and ease of operation. Featuring true zero tailswing, powerful engines, advanced hydraulics, and robust construction for demanding job sites.</p>
	<p>JCB ICX and ICXT Skid Steer Backhoe Loader: Versatility and Performance</p> <p>Explore the JCB ICX and ICXT skid steer backhoe loaders, designed for versatility, productivity, and durability. Discover features, specifications, and options for these compact and powerful machines.</p>