

MENEGOTTI TECHNICAL MANUAL

CUT OF MACHINE MSC 2100

Attention:

Before operating the **Menegotti** equipment, read this **technical manual**, it will inform and instruct the operator about the operation of the product. This way, you avoid possible work accidents and premature equipment maintenance.



MENEGOTTI
CONSTRUCTION MACHINERY

Congratulations, on purchasing a Menegotti product!

With the highest quality, designed and built especially to serve you with technology to suit your needs.

This manual was written to provide you with the information and instructions necessary for the use and maintenance of our equipment, as well as to present you with data relating to its technical characteristics.

Before you put your equipment into operation for the first time, carefully read the information contained herein.

The durability of your equipment depends only on the way it is treated during service (operation) and its satisfactory performance is the result of your careful work, carried out regularly.

Menegotti is prepared to offer you all the necessary technical assistance, as well as to meet your needs for spare parts.

Welcome, you are now a part of the great Menegotti "client family".

MENEGOTTI After Sales and
Technical Assistance departments.

Caution: For best convenience, keep this manual in a appropriate place where it can be consulted when necessary.

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The Company

Reference in civil construction, present in more than 40 countries and national leader in concrete mixer sales, Menegotti Metallurgical Ltda., offers innovative products that result in greater profitability for the business of its clients. A genuinely Brazilian company, based in Jaraguá do Sul, SC, Brazil, develops, produces, markets and distributes a range of products, from Mixer lines, Soil Compaction, Load Handling, Lifting, Concrete Technology, Coatings and Finishing , Building Site and Tools, which assists its clients in each stage of the work.



The Product

The Cutting Saw MSC 2100, with the power of 2100W (127V/60Hz e 220V/60Hz single phase) It is ideal for cutting PVC and ferrous materials such as bars, pipes and steel profiles in industries, construction and locksmiths.

• **With the aim of constantly improving their equipment, Menegotti reserves the right to change the features of the product without notice. If any information in this manual is not consistent with the physical product, consider the current product and the manual for reference only.**

Safety Informations

CAUTION: Read the instruction manual carefully before use the tool. Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury. Keep all safety regulations and instructions in a safe place for future use.



- Keep work area clean, safety and well lit.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Keep children and bystanders away while operating a power tool.
- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.
- Do not expose power tools to rain or wet conditions.
- 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.



- When operating a power tool outdoors, use an extension cord suitable for outdoor use.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.
- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- Use personal protective equipment. Such as eye protection dust mask, non-skid safety shoes, hard hat, and hearing protection.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.
- Remove any adjusting key or wrench before turning the power tool on.
- Do not overreach. Keep proper footing and balance at all times.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
- Do not force the power tool. Use the correct power tool for your application.
- Do not use the power tool if the switch does not turn it on and off.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.
- Keep cutting tools sharp and clean.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.
- Have your power tool serviced by a qualified repair person using only identical replacement parts.
- Use this cut off machine for cutting steel only. Cutting ceramic materials will create excessive dust and cause damage to the motor.
- Always use a dust mask along with safety goggles when operating the cut off machine.
- Always use hearing protection when operating of the cut off machine.
- Do not wear gloves, neckties or loose clothing.
- Do not cut material too small to be securely held in the vice.
- Always keep your hands out of the path of the cut off disc. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the cut off disc.
- Make sure there are no foreign objects in the part of the workpiece to be cut.

- Secure the workpiece. Use the clamping system provided with the cut off machine. It is safer than using your hand.
- The cut off disc must be securely attached as described in this Owner's Manual before connecting the tool to the power source. Failure to do so will increase the risk of serious injury if the cut off disc shatters or comes loose.
- Before attaching the cut off disc, inspect it for visible defects. If cracked, chipped or warped, do not install it.
- Do not over tighten the clamp nut on the cut off disc. Excessive tightening may cause the disc to crack and possibly shatter during operation.
- Never turn the cut off machine ON with the cut off disc touching the work surface.
- Do not use the cut off machine if the disc flanges or cap screw are missing or improperly installed.
- Dust and abrasive materials should not be allowed to build up in the workshop. Hot metal sparks could start a fire.
- Do not remove the soft paper in the centre of the cut off disc.
- Do not alter or enlarge the centre hole of the cut off disc as this could result in the disc shattering.
- Não remova o adesivo do centro do disco de corte.
- Não altere ou aumente o orifício central do disco de corte, pois isso pode resultar na quebra do mesmo.

DANGER: Always unplug the tool from the power source before changing the cutting disc or when cleaning the tool.

Technical Specifications

TECHNICAL DATA	MSC 2100
Power	2100W
Voltage	127V/60Hz e 220V/60Hz
No-Load-Speed	3600 Rpm
Wheel size	Ø355mm - Ø25,4mm
Max. cutting demensions	110mm
LPA (sound pressure)	93 dB(A) k=3dB(A)
LWA (sound power)	M10
Weight	18,5 Kg
Carton Dimensions (LxWxH)	615x345x460

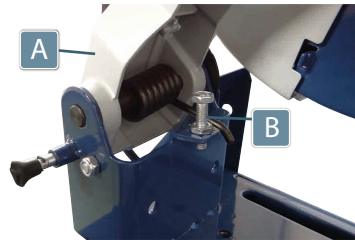
Allowable Dimensions of Workpiece

FORMAT	CUTTING ANGLE/BEVEL 0°
	Ø110x6
	Ø50
	120x53
	100x10

Equipment Adjustment

Setting the depth stop

- 1) Lift the swing arm (A) upward as far as it will go.
- 2) Loosen the depth stop lock nut (B) by turning it counter clockwise. Turn the depth stop screw to raise or lower it. Adjust until the cut off blade enters the base slot no more than 3/16" (5 mm) when the swing arm is fully lowered and contacts the top of the depth stop screw.
- 3) When the depth stop screw is correctly set, lock it in place by tightening the lock nut clockwise.



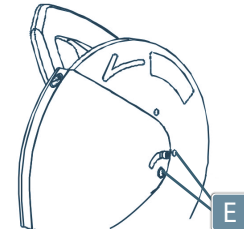
Checking the automatic guard

WARNING: The automatic guard must be checked to ensure it is working properly. Always disconnect your chop saw from the power source before checking the automatic guard.

- 1) Lift the guard (C) upward approximately 3" and then release it. If the guard is functioning correctly, it will freely drop down to its original position.
- 2) Lower the swing arm and cutting disc assembly until the lower edge of the guard touches the chop saw base. Continue to lower the swing arm and cutting disc assembly. The automatic guard should freely rise as the cutting disc is lowered.



NOTE: The guard should always rise and fall freely when the swing arm is lowered and raised as outlined in #1 & #2 above. If not, clean any cuttings out from around the guard mechanism.

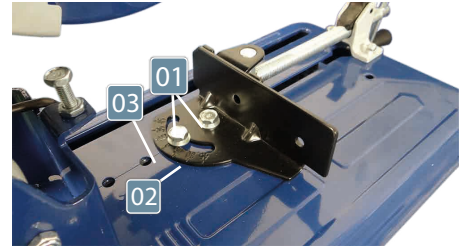


Setting the mitre vice angle

The mitre vice can be set for cutting at angles from 90° to 45° either left or right.

- 1) Open the vice by turning the vice adjustment crank 5 or 6 turns counter clockwise.
- 2) Loosen the mitre gauge cap screws (2) by turning them counter clockwise using the 8 mm hex key supplied.
- 3) Rotate the mitre gauge to the left or right until the desired cutting angle lines up with the alignment mark.
- 4) Tighten both mitre gauge cap screws to lock the mitre gauge in place.

NOTE: Always make a test cut on a scrap workpiece to verify the mitre angle setting.

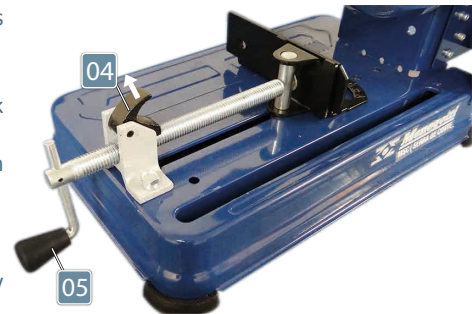


Operating the vice quick release

The vice has a quick release feature that allows for making major adjustments much quicker.

- 1) To operate the quick release system, turn the vice crank counter clockwise 2 or 3 turns to loosen the vice jaws.
- 2) Lift upward on the front of the quick release nut to release the vice screw.
- 3) While holding the quick release nut upward in the released position, pull the vice crank toward you to quickly open the vice.
- 4) To quickly close the vice, release the quick release nut and push the crank away from you.
- 5) Use the crank to completely tighten the vice on the workpiece.

WARNING: Always make sure the workpiece is flat against the chop saw base and securely held in the vice before turning the saw ON.



Main Components



NO.	COMPONENT
1	Vise quick release nut
2	Vice mitre gauge
3	Cut off disc
4	Spindle lock
5	ON/OFF switch trigger
6	Lock button
7	Carrying handle
8	Swing arm
9	Depth stop screw
10	Base
11	Handle wheel

Equipment Operation

CAUTION: Ensure the “ON/OFF” switch is in the “OFF” position before plugging the power cord into the AC power source. Ensure there are no tools or work pieces in contact with the grinding wheels when the grinder is turned “ON”.

Failure to observe these procedures could result in damage to the bench grinder, tools, work pieces, or serious personal injury to the operator or bystanders.

Operating the ON/OFF Switch

- 1) To turn the switch ON, squeeze the lock button and the trigger switch until the cut off machine starts. During operation, you should continuing to squeeze the trigger switch.
- 2) To turn the tool OFF, release the trigger switch.

WARNING: Always make sure the cut off disc is NOT touching the workpiece when the switch is being turned ON. Let the motor come to full speed before beginning to cut.

Cutting metal

- 1) Lift the swing arm fully upward as far as it will go.
- 2) Adjust the mitre gauge as required.
- 3) Firmly lock the metal workpiece to be cut in the vice.
- 4) Make sure you are wearing your safety goggles, dust mask and hearing protection.
- 5) Lower the cut off disc until it is about 25mm above the workpiece.

NOTE: The cut off disc MUST NOT be touching the workpiece when the motor switch is turned ON.

- 6) While holding the chop saw handle firmly in your right hand, turn the motor switch ON.
- 7) Wait for motor to come up to its full speed. Carefully lower the cut off disc until it contacts the workpiece.

NOTE: Many sparks will be generated as soon as the cut off disc touches the workpiece.

8) Apply only slight pressure to the chop saw handle as it begins to cut through the workpiece. **DO NOT** apply too much pressure to the handle as this will cause the motor to slow down. Doing so will slow the cutting action and damage the motor.

9) When the cut off disc has completely cut through the workpiece, release the trigger switch immediately. Wait for the motor to come to a complete stop before lifting the cut off disc away from the workpiece.

WARNING: Never touch the workpiece immediately after a cut is completed. The metal in the cutting area will be red hot and will cause severe burns to your skin.

Equipment Maintenance

WARNING: When servicing, use only identical replacement parts. The use of any other part may create a hazard or cause damage to the product.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

WARNING: Use safety goggles when using an air jet to blow dust out of the chop saw. **DO NOT** abuse power tools. Abusive practices can damage the tool and the workpiece.

Equipment Lubrication

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

Environmental Protection

Electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

Product Warranty

The warranty is not transferable under the conditions and within the prescribed period and will be valid from the date of purchase of the equipment, through presentation of the sales invoice to the first end consumer. At the time of delivery of the equipment, the customer must receive the information and technical guidelines for the equipment as per the content of this manual.

Therefore, defects caused by mistreatment, carelessness, negligence, recklessness or malpractice, are not covered by this warranty, nor are any repairs or alterations of any part and/or piece of equipment. Also not covered is any assembly of the parts by any party other than the factory itself or Technical Assistant, application outside the specification, mechanical or electrical overloads or phase failure, use in an environment for which it was not designed, incorrect voltages of frequencies, incorrect lubrication, damage caused by accidents of any kind, such as floods, strong winds, fires, landslides or resulting from transportation.

The removal or alteration of the serial numbers originally placed on the product void the warranty, which must be presented on the sales invoice and the Warranty Certificate for the equipment in question.

The warranty assumed is limited to the repair, spare parts or parts assembly of the set of parts, in which the review is conducted by an Authorized Menegotti Technical Assistant and authorized in advance by the Factory, to double check the existence of the manufacturing defect. This repair or exchange will be made by an Authorized Technical Assistant, with the buyer bearing the risks or costs of transportation to and from the Technical Assistant, with the labor and replaced parts being free, under the terms of this warranty.

This supersedes any other warranty, express or implied as well as any and all liability or responsibility of our company concerning the above product.

MENEGOTTI After Sales and Technical Assistance departments.

Warranty Term

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 6 (six) months, being: the first 3 (three) months of legal guarantee, and the last 3 (three) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first end consumer. The components of daily use such as: bearings, clutch disc, gears, tires, brake shoes, etc. are not included in the warranty.

This warranty includes spare parts and repair against manufacturing defects duly verified by the factory or Authorized Technical Assistance. The warranty for this product will be void if it suffers damage caused by accidents, natural events, application outside the specification, or in the case of alterations or repairs by a person or workshop not authorized by Menegotti. The product freight charges, including the technical assistant or factory, are borne by the consumer. Menegotti has a wide network of Technical Assistants throughout the country.

If the equipment is purchased with the electric engine warranty covers defects arising from the internal engine manufacture. Not covered by warranty defects of: broken or crushed shell due to carelessness in transporting/or storage, energization of the motor coupling or out specification defects, general misuse and /or incorrect installation, overcharging due to lack or excess of phase and use of voltage out of the specification.

Aware of this term,

Customer: _____
Model: _____ **Serial Number:** _____
City: _____ **Date:** _____

Customer *Menegotti Authorized Service*



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