

# MENEGOTTI TECHNICAL MANUAL

## ELECTRIC TROWEL - MDE

40860251 - Electric Trowel MDE 220V 50/60Hz 1200W

40860392 - Electric Trowel MDE 127V 50/60Hz 1200W

### QR-Code:



Point your mobile phone camera to access the updated online version of **Technical Manuals** and **Parts Catalogs**, or click on the link below to access the website.

[www.sites.google.com/view/menegotti-engenharia-docs](http://www.sites.google.com/view/menegotti-engenharia-docs)

### Attention:

Before operate **Menegotti** equipment, read this **Technical Manual**, itself will inform and instruct the operator about the operation.  
By the way, you avoid possible working accidents and early maintenance on at the equipment.



**MENEGOTTI**<sup>®</sup>  
CONSTRUCTION

# 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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# Menegotti Group

Menegotti is reference in the development of solutions in machines and tools for the Construction machinery, Handling and Lawn | Garden Segments.

A Brazilian company, present in more than 40 countries, has its headquarters in Jaraguá do Sul, Santa Catarina, units in Brazil and in the United States.

With more than 80th years of history, it is in the fourth generation of consistent and successful family management. National leader in sales of concrete and cement mixers, it stands out in the resale and rental market.

Through its Innovation Program, it fosters creativity and competitiveness, with disruptive actions and partnerships, aimed at continuous professional and business growth.

With an organizational culture that values and encourages its constant professional and personal development, Menegotti is active in sustainable projects, which make its purpose of contribute “to build a better and more sustainable world”, a reality.



## The Product

The MDE Electric Trowel is a product that brings innovation and technology to the construction industry when it comes to efficiency and effectiveness in finishing operations. It has advantages such as: serial induction motor drive, light weight, ergonomics, great power and high efficiency, which makes the operations carried out more productive, convenient, safe and of high quality.

The product has discs that enable it to carry out a range of tasks in the construction industry, since its main function is to guarantee quality finishes on surfaces containing cement, concrete or paint. Finishing operations include smoothing (wet grinding), sanding, compacting and dry grinding.

As an ergonomic differential, the MDE has an aluminum extension (optional), which facilitates access to higher places, or where the operator would have to work in uncomfortable positions for a long time.

• **Menegotti reserves the right to make changes to products without prior notice. Illustrations may include optional equipment and accessories, which may not be included with all standard equipment. If any information in this manual is not consistent with the physical product, consider the actual product and the manual as a reference only.**

**For the most up-to-date information, simply visit our website: <https://sites.google.com/view/menegotti-engenharia-docs>, or use the QR code on the cover of this manual.**

# Safety Informations



- Before using this machine, read this manual carefully and follow the manufacturer's instructions in order to reduce the risk of accidents during operation.
- It is strictly forbidden to remove or alter any of the machine's safety devices. We accept no liability for any accident due to modification of the equipment.
- Use the equipment in accordance with the instructions in this manual.
- In the event of damaged or missing parts, please contact Menegotti immediately at +55 (47) 3275-8000 for replacement.
- With the machine switched off, carry out a daily inspection of the components. In the event of problems, contact Menegotti's authorized service immediately.
- Keep an exclusive area for working with the equipment, keeping the area clean, free of obstructions and with good lighting.
- The operator must be trained or qualified to operate this equipment.
- Do not wear loose clothing that could get caught in the machine.
- Always wear gloves, safety glasses and ear protectors in accordance with the regulations in force in the region of operation.
- Carry out the maintenance required by this manual with qualified personnel and at regular intervals.
- Inspect all extension cords, especially for cuts, chafed cables and broken connections.
- Never use extension cords if they are not in good condition.
- Never operate extension cords when wet or in wet environments (e.g. puddles).
- When cleaning the equipment, never pour water on the electrical parts.
- When servicing this equipment, disconnect the power cable from the mains supply.
- Avoid contact with hot surfaces.
- Before carrying out any activity or maintenance, allow the machine to cool down.
- Avoid contact with rotating parts.

**Attention!** Read all warnings and instructions! Using or operating the product without following the warnings and instructions may result in electric shock, fire and/or serious injury. In all the following warnings, the term "product" refers to the electric trowel MDE electric starter (wire).

### **1 - Keep these safety instructions in a safe place!**

- a) Keep the workplace clean and bright, cluttered and dark areas will cause accidents.
- b) Do not operate the product in environments containing explosive materials, such as flammable liquids, gases or dust. The spark generated by the product will ignite when it comes into contact with these.
- c) Do not operate the machine near children, animals and/or other people. Lack of concentration can cause the operator to lose control of the product.

### **2 - Electrical safety**

- a) The plugs on the product must match the socket. Never change the plug in any way. Power tools to be grounded must not use any voltage change plugs. The unmodified plug and the corresponding socket outlet reduce the risk of electric shock.
- b) Avoid contact with grounded surfaces such as pipes, heat sinks and refrigerators. If your body "grounds", the risk of electric shock increases.
- c) Do not expose the product to rain or moisture. Water in contact with the Electric Trowel MDE will increase the risk of electric shock.
- d) Never use a cord to carry, pull or unplug the product. Keep cords away from heat, oil, sharp edges or moving parts. Damaged or coiled cords increase the risk of electric shock.
- e) When using the Electric Trowel MDE outdoors, use flexible cables suitable for outdoor use, as this will reduce the risk of electric shock.
- f) If it is unavoidable to operate the product in a humid environment, the residual current operated protection device (RCD) must be used. The use of RCD can reduce the risk of electric shock.

### **3 - Personal safety**

- a) Stay alert, pay attention to the operation when operating power tools. If the operator feels tired or is under the influence of any drug or alcohol, they should not operate the product. Omission or recklessness when operating the product can cause serious bodily injury.
- b) Use PPE (personal protective equipment), always wear safety goggles, safety devices such as dust masks, non-slip safety shoes, safety helmets, ear defenders and other devices which, under appropriate conditions, can reduce personal injury.
- c) Avoid accidentally starting the product by making sure that the trigger is in the off position when connecting the power supply, picking up or carrying the Electric Trowel MDE.
- d) Remove all keys/tools before starting the product. A key or tool left in the rotating part of the product can cause injury.
- e) Do not stretch yourself too much when working with the machine, for this you have the optional aluminum extender, always pay attention to the balance of your body and feet so that the product can be well controlled.

- f) Dress appropriately. Do not wear loose clothing or jewelry. Keep your clothes, gloves and hair away from moving parts. Loose clothing, accessories or long hair can get caught in moving parts of the product.
- g) If a device is supplied for connection to the dust removal and collection equipment, make sure it is in good condition and use it properly. Using these devices can reduce the risk of dust.

#### **4 - Use of the Electric Trowel MDE and precautions**

- a) Only use the machine for the purpose for which it was designed. Choosing the right tools will result in greater efficiency and safety for the operator.
- b) If the switch does not turn the power supply on or off, the product cannot be used. If the Electric Trowel MDE cannot be controlled by its switches, it becomes dangerous and must be repaired.
- c) The plug must be removed from the power supply before any adjustment, replacement or storage of the product. This protective measure will reduce the risk of the tool starting up accidentally.
- d) Store the Electric Trowel MDE out of the reach of children and do not allow people who are unfamiliar with the product or who do not understand its operation to use it. The product is dangerous in the hands of untrained users.
- e) Check that moving parts are in place or attached, check for damage to parts and other conditions that affect the operation of the Electric Trowel MDE. In the event of damage, the product must be repaired before use. Many accidents are caused by lack of maintenance.
- f) Use the product, accessories and tools in accordance with the instructions, taking into account the operating conditions and the work carried out. Using the product for operations that are not in accordance with its use can cause damage and accidents.

# Especificações Técnicas

| Specifications  | MDE 127 V                                                                              | MDE 220 V |
|-----------------|----------------------------------------------------------------------------------------|-----------|
| Code            | 40860392                                                                               | 40860251  |
| Power           | 1200 W                                                                                 |           |
| Isolation Class | II /  |           |
| Connection      | M26                                                                                    |           |
| Max. Rotation   | 0 - 200 rpm                                                                            |           |
| Base Disk Size  | 380 mm                                                                                 |           |
| Optionals       | Aluminum Extender                                                                      |           |
|                 | Iron Disk                                                                              |           |

## Functioning of the Electric Trowel MDE

To start operating the Electric Trowel MDE, you must first check that it is in good working order, i.e. that its discs are properly attached, that its extension cords and electrical wires are in good condition, and that the voltage of the socket where the plug will be connected is the one corresponding to the product, to avoid damaging it.

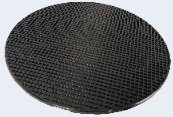
**For safe operation, the operator should always use both hands to carry out operations.**

Its grooved plastic disc is ideal for smoothing and leveling, while its foam disc is ideal for smoothing plaster, and its base disc allows for the indexing of various sandpapers for finishing.

 **Attention!**

- If rain or excessive humidity seeps into the product, it may cause electric shocks;
- Be sure to wipe dust off the machine after operations.
- The workplace must be kept clean. The different working dusts are easy to produce chemical reactions after mixing. Light metal dust is liable to cause fire or explosion;
- Do not use products that have been damaged. If the power cord is damaged at work, do not touch the damaged wire and immediately disconnect the plug from the socket. Damaged wires can increase the risk of electric shock;
- Never operate the machine with just one hand, always use both hands and do not touch the rotating parts during operation;
- Be sure to pull the plug out of the socket before repairing or replacing spare parts.

## Description of Components

| Item                                                                              | Name         | Function and Operating Condition                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Plastic disk | Designed for smoothing, leveling and compacting wet cement.                                                                                                                                                                              |
|  | Sponge disk  | Designed to "filter" fine grained surfaces before the painting process, in cases where no putty will be used on the surface, only a surface preparer (primer) and paint.                                                                 |
|  | *Iron disk   | Designed for finishing, smoothing and compacting. The iron disk is the best option for finishing and smoothing.                                                                                                                          |
|  | Sandpaper    | Designed for rough grinding and finishing, depending on the grain size of the sandpaper and the material to be processed.                                                                                                                |
|  | *Extender    | Designed to help the operator perform their tasks in a more ergonomic way, for jobs where they would have to stay in uncomfortable positions for long periods. The length of the extender can be adjusted to improve working conditions. |

**\*Note:** The iron disk and extender are optional items, so they are sold separately.

## Assembling the Equipment



To assemble the electric trowel, simply fit the trowel tip onto the base disk and connect them using the M6 screw that comes with the product.

To use the other discs or sandpaper, the velcro fasteners are located on the back of the discs, as shown below.



# Operation

The operator must always hold the machine or its extension with both hands to avoid accidents, as in the images below.

**⚠ Attention:** It is important to note that any disk changes, inspections and/or maintenance must be carried out with the machine disconnected from the power supply!



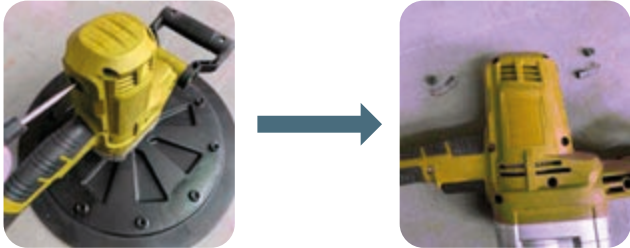
## Maintenance

- Keep the product clean, clean the accessories and remove dust;
- Check the power cord, plug, switch and so on to keep the tools in good condition;
- If the product is defective, refer it to the authorized customer service department of the company.

| ACTION                      | EACH                   |
|-----------------------------|------------------------|
| Cleaning the machine        | 60 - 80 m <sup>2</sup> |
| Cleaning the safety devices | 70 - 90m <sup>2</sup>  |

### Replacing the carbon brushes

There is a pair of auxiliary brushes in the accessories. When the brush is worn to the limit, it should be replaced. Use the "one" screwdriver to turn the brush cover counterclockwise, remove the original brush, fit the new brush into the brush holder and screw on the cover as in the photos opposite.



## 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 Statement

By means of this CERTIFICATE provided by the original purchaser, Menegotti guarantees against manufacturing defects for a period of 6 (six) months from the date of issue of the invoice for the product to the first end consumer, with the first 3 (three) months being the legal guarantee and the last 3 (three) months being the special guarantee provided by Menegotti. Not included in the warranty are items supplied as a courtesy (case, hose, refrigeration kit with pump, cutting discs and blades, etc.) and components worn out by use, such as: bearings, steel cable, electrical plugs, gears, etc.).

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*

# Menegotti GROUP

Solid values, **sustainable future.**

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HANDLING

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**Unit • Unidad Mentec**

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**Unit • Unidad Menfer**

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