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1 - Delivery and Warranty

1.1 - Introduction

WARNING! The symbols used in this manual are intended to draw the reader's attention to issues and operations hazardous to the personal safety of the operators, or where there is risk of damage to the machine itself.

Do not operate the machine if you are not sure that you correctly understand what has been shown in these notes.

WARNING! Some of the illustrations in this manual, for reasons of clarity, show the machine or parts of it with the panels or guard removed.

Do not use the machine in such conditions, only use if provided with every protection properly fitted and working perfectly.

The manufacturer prohibits the reproduction, even partial, of this manual, and its contents cannot be used for purposes not permitted by the same. Violators will be prosecuted according to law.

1.2 - Conservation and use of this manual

The purpose of this manual is to inform users about the machine using text and figures to clarify the requirements and criteria essential for the transport, handling, use and maintenance of the machine. Thus, before using the machine read this manual carefully. Keep it safe near the machine, in a place easily and quickly accessible for future reference. If the manual is lost or damaged, obtain a copy from your dealer or directly from the manufacturer. In case of selling the machine, inform the manufacturer of the details and contact information of the new owner.

The manual reflects the state of the art at the moment of its sale of the machine and cannot be considered unsuitable if, subsequent to new experiments, it were to be further upgraded. In this regard, the manufacturer reserves the right to update products and manuals without having to upgrade the product and previous manual, except in exceptional cases. If in doubt consult your nearest service centre or the manufacturer directly. The manufacturer is striving for the continuous improvement of its product.

For this reason, the manufacturer is pleased to receive any suggestion or proposal intended to improve the machine and/ or manual. The machine was delivered with the warranty conditions applicable at the time of purchase.

For assistance, contact your supplier.

1.3 - Warranty

The user is not allowed to tamper with the machine for any reason.

For each problem encountered, contact the manufacturer.

Every attempt to disassemble, modify or generally tamper with any component of the machine by the user or by unauthorized personnel will result in the revocation of the Declaration of Conformity prepared in accordance with EEC directives 2006/42, and will void the warranty and release the Manufacturer from liability for damage resulting from such tampering.

The manufacturer also is released from any responsibility in the following cases:

- incorrect installation;
- misuse of the machine by personnel not properly trained;

- use contrary to the regulations of the country of use;
- lack of or unskillful maintenance;
- use of spare parts, not original and not specific for the model;
- total or partial failure to comply with the instructions.

1.4 – Description of the machine

The meat grinder in your possession is a simple, compact, highly efficiency and powerful machine.

- As it is supposed to be used for chopping food, the components that can come in contact with the product have been carefully chosen to ensure maximum hygiene. The housing is made of stainless steel AISI 304.
- The hopper is made of stainless steel AISI 304 to ensure maximum hygiene and easy cleaning.
- The plates and knives are made of grade AISI 430 stainless steel; therefore, they may rust if they are left immersed or wet. We recommend drying them after they are washed.
- Feed and rotor of cast stainless steel AISI 304 with the possibility of applying the UNGER system in whole or part.
- Possibility of reversing the direction of rotation using a switch
- Rigid locking of the feed to improve the cut of the meat and extend the life of the plates and blades.
- Ventilated motors either three-phase or single phase with the following advantages:
 - consistency of performance and durability of the engine;
 - increase in the effective operating time due to fewer interruptions;
 - low rate of heat to keep the meat fresh and unaffected.

The models shown in this manual have been produced according to EEC Directive 2006/42, as amended.

In case of accident, no liability can be assigned to the manufacturer if the machine has been modified, tampered with, deprived of safety guards or used for purposes not intended by the manufacturer.

1.5 - Intended Use

The machine is designed and manufactured to grind meat or fish up to a maximum temperature of 7°C. After every work cycle, we recommend not leaving any food inside the grinding inlet or on the trays for long periods (maximum 5 minutes). The meat grinder must be used in professional environments by qualified operators who have read and understood this manual. Use the machine only when safely supported on a solid work table. The size of the meat to be ground must be such as to fit completely in the inlet feed and not overflow the hopper.

1.6 - Prohibited uses

The machine must only be used for the purposes intended by the manufacturer, in particular:

- do not use the machine for chopping foods other than meat and the like.
- do not use the machine if not properly installed with all the guards intact and properly installed to avoid the risk of severe injury.

- **Do not** use nor store the machine inside a cold room: this could seriously damage the electrical components sensitive to condensate (which forms at low temperatures) and also alter the viscosity of the grease and/or lubricating oil in the gearbox housed inside it, jeopardising the machine's correct operation and causing potential failures.
- **Do no** access the electrical components without first disconnecting the machine from the mains supply: **risk of electric shock**.
- do not process products that are larger than what can be totally contained in the loading hopper.
- do not wear garments that do not comply with safety regulations. Consult your employer about the requirements of safety in effect and the protective devices to be used.
- **Do no** start the machine during a breakdown.
- Before using the machine, make sure that any unsafe condition has been properly removed. In case of any irregularities, stop the machine and warn those responsible for maintenance .
- **Do not** allow unauthorized personnel to service the machinery.

The first aid emergency treatment in case of accident caused by electric current is to remove the person from the conductor (as he has usually passed out).

This operation is dangerous. The victim in this case has become a conductor: touching him means being electrocuted.

Therefore remove the contacts directly from the supply valve of the line, or if that is not possible, remove the victim using insulating materials (sticks of wood or PVC, fabric, leather, etc.). The patient should be immediately seen by medical staff and admitted to a hospital.

1.7 – Identifying Data

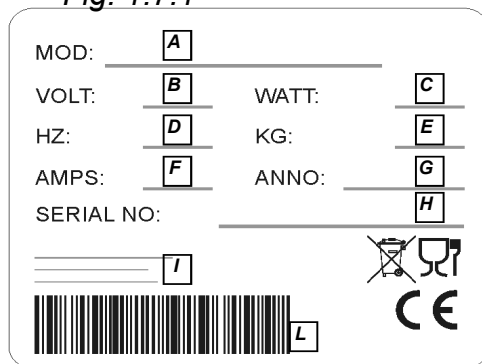
An exact description of the "**Model**", the "**Serial number**" and the "**Year built**" of the machine will facilitate rapid and effective responses by the our Support Ser-vice. It is recommended to indicate the equipment model and serial number when-ever you contact the support service.

Collect the data from the plate shown in

Fig. 1.7.1. As a reminder, we suggest _____ Machine model..... reporting
 the data in the machine you _____ Serial number..... have, in the table
 Year built

Type.....

Fig. 1.7.1



- A= model of the machine
- B= Power supply
- C= motor power
- D= motor frequency Hz
- E= Weight
- F= Amperage
- G= Year of manufacture
- H= Serial Number
- I= Manufacturer
- L= Bar code

WARNING!
 Do not alter the data on the plate for any reason.

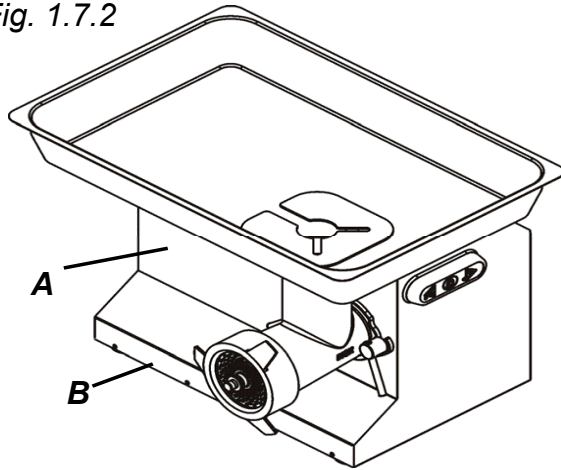
1.7.1 - Warning signs and danger (fig. 1.7.2)

WARNING! With the machine connected to the electricity mains, do not work on the electrical components. There is a risk of electric shock. **Follow the instructions referred to on the plates. Failure to comply may cause injury.**

Make sure the plates are present and readable.

If not, apply or replace them.

Fig. 1.7.2



A

CAUTION
IT IS PROHIBITED TO USE
AN OUT-PUT MEAT PLATE
WITH A HOLE EQUAL TO
OR GREATER THAN

B



ATTENZIONE
è obbligatorio scollegare la spina di alimentazione prima di
rimuovere le coperture e accedere alle parti interne della macchina

WARNING
*The plug must be disconnected from the electrical supply prior to
removing the covers and accessing the inside components
of the machine*

1.8 – Protection and safety devices

WARNING! Before using the machine, check the correctness of the positioning of safety devices and their integrity. Check their presence and efficiency at the beginning of each work shift. If it is not right, contact the maintenance manager.

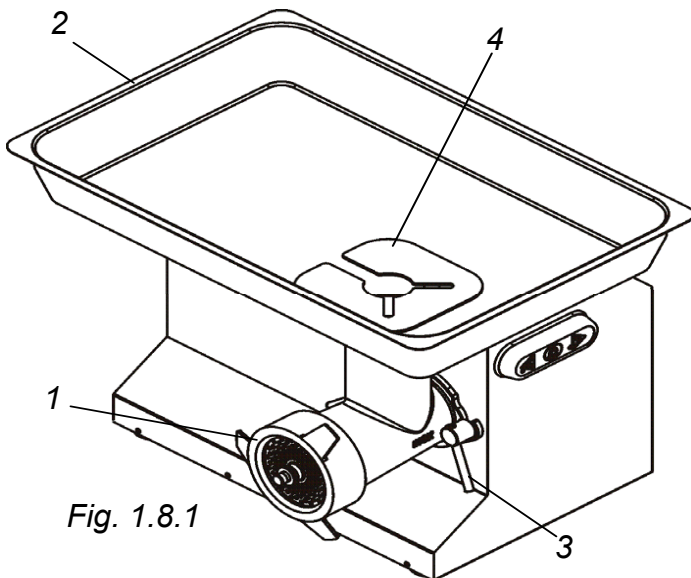


Fig. 1.8.1

WARNING!

Do not tamper with the safety devices for any reason.

1. Outlet feed of product, with holes in the bottom plate up to 8 mm. In this case prevent the introduction of the fingers inside the feed.
2. Stainless steel hopper rigidly set to the loading feed.
3. Inlet lock nut. For correct operation of the meat grinder, the inlet must be firmly tightened using these lock nuts
4. Protective hand guard. The hopper, in the model, shows the guard "2" Fig.1.8.1 rigidly fixed, in accordance with the circular of the Ministry of Labour and Social Insurance No. 66 of 05.09.79. The smaller models do not require this guard due to the small size of the loading feed

1.8.1 – Lock handle for meat output feed

Correct use:

To operate the machine correctly and obtain precise grinding, all meat grinders must have the mouth rigidly locked.

It is important to observe the following procedure to prevent imprecise assembly:

1. Make sure that the machine is switched off.
2. Insert the mouth, including the ring nut and internal components (worm, knives, plates) into the machine's mouth support.
3. Make sure that it is in the correct position, with the milled rear end of the worm perfectly slotted into the drive pin, then fasten it with the locking nuts (ref. 3 fig. 1.8.1). If it cannot be fastened:
 - loosen the ring nut, without removing it
 - push the mouth until it adheres to the machine body
 - take the worm pin and turn it until the screw inserts perfectly into the drive pin
 - fasten the mouth with the locking nuts
 - take the plate tang and turn it until it inserts precisely into the guide pins on themouth.
 - tighten the ring nut fully

1.9 – Work position

The correct work position that the operator must occupy to optimize the operation with the machine is shown in Fig. 1.9.1.

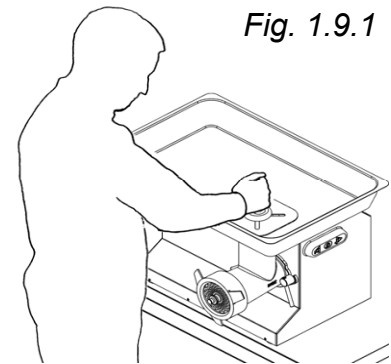


Fig. 1.9.1

2 - Specifications

2.1 - Main parts

To facilitate understanding of the manual the main components of the machine are listed below and shown in fig. 2.1.1.

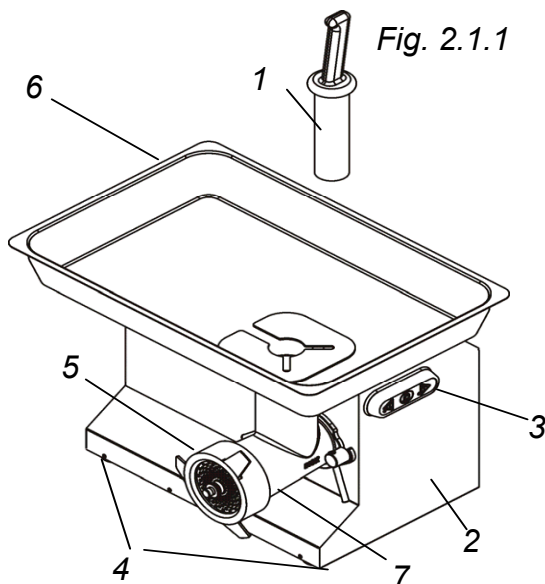


Fig. 2.1.1

1. Pestle is made of GUR HOSTALLOY 731
2. Stainless steel AISI 304 housing.
3. Machine controls
4. Feet
5. Output feed of ground meat is made of stainless steel AISI 304.
6. Loading hopper is made of stainless steel AISI 304.
7. Loading feed is made of stainless steel AISI 304.

2.2 - Specifications

	TC 22	TC 32
Motor	watt 1472/2 hp	watt 2208/3 hp
Power source	230-400V/50Hz	230-400V/50Hz
Output/h	300 Kg/h	500 Kg/h
Standard plate	ø 4,5 mm	ø 6 mm

2.3 - Size and weight of the machine

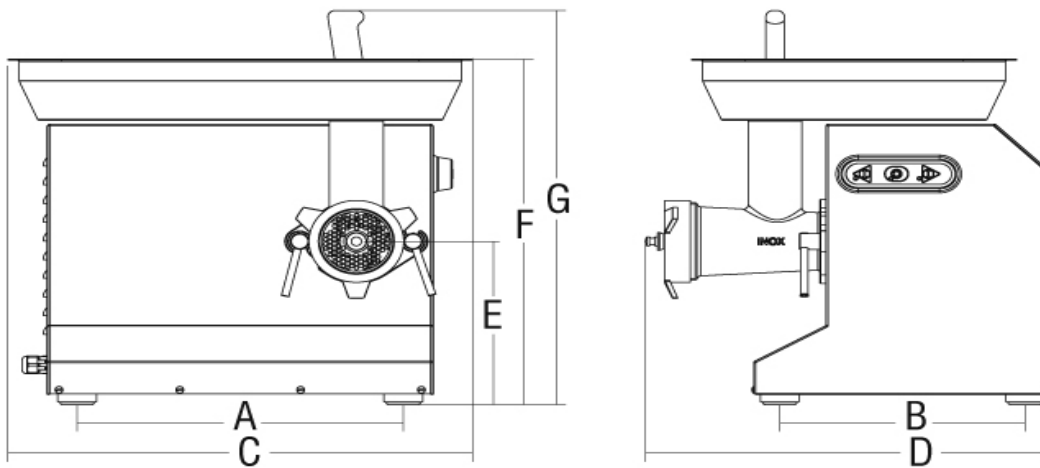
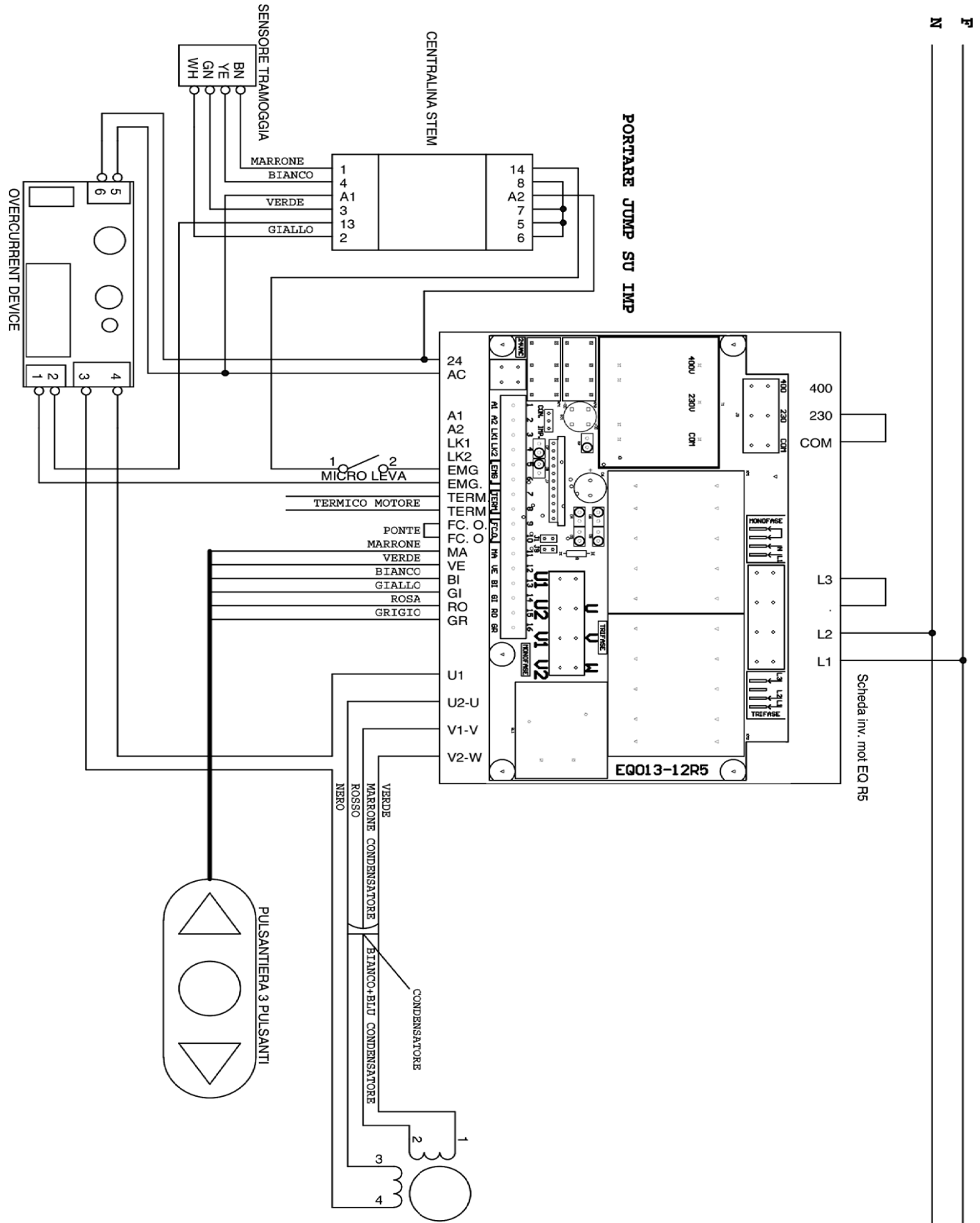


Fig. 2.3.1

	A	B	C	D	E	F	G	Net weight
	mm	mm	mm	mm	mm	mm	mm	kg
TC 22	351	264	500	437	132	430	491	32
TC 32	401	264	610	465	99	428	532	39

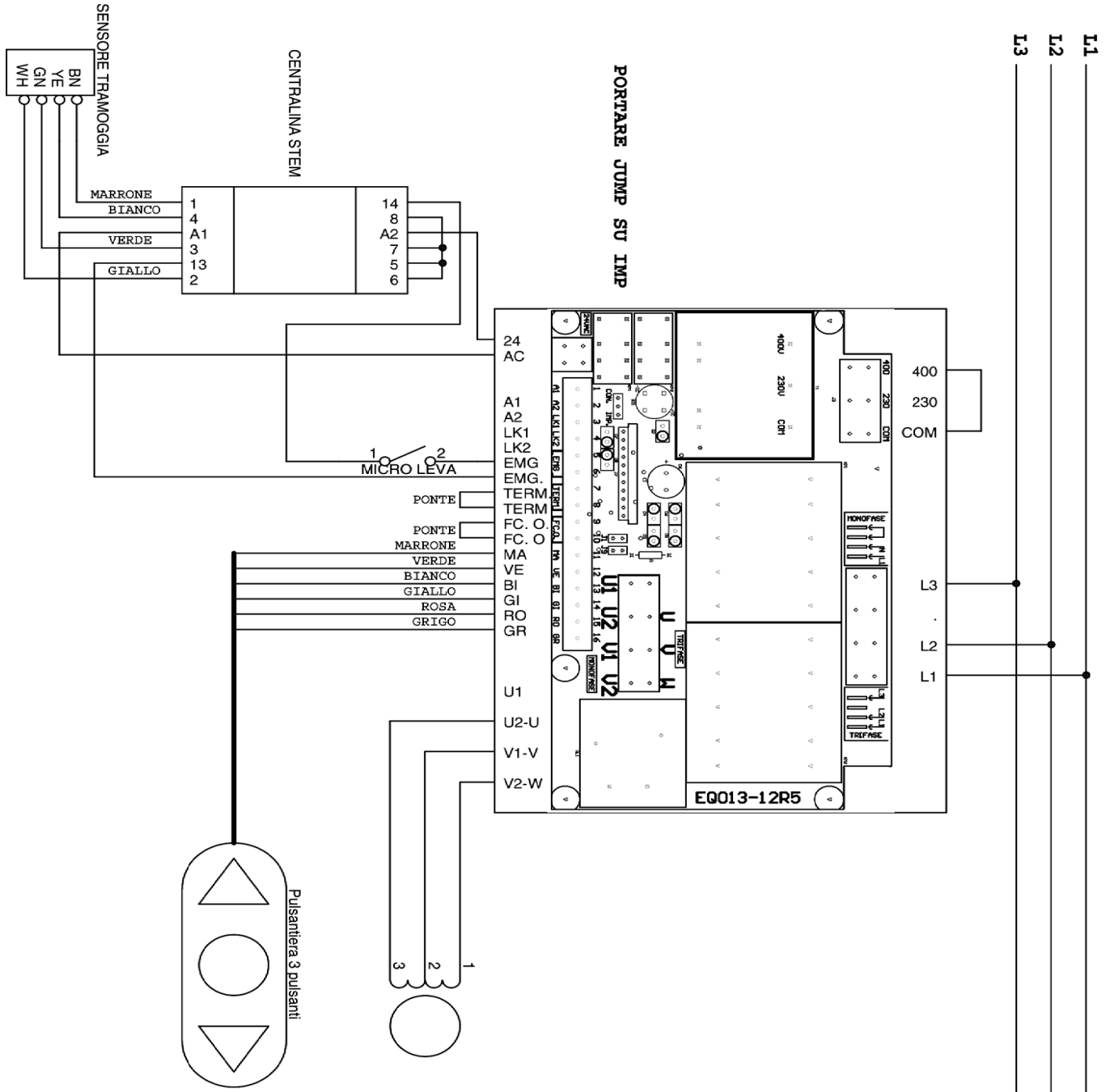
2.4 - Wiring diagrams

2.4.1 - Single-phase diagrams with electronic switch

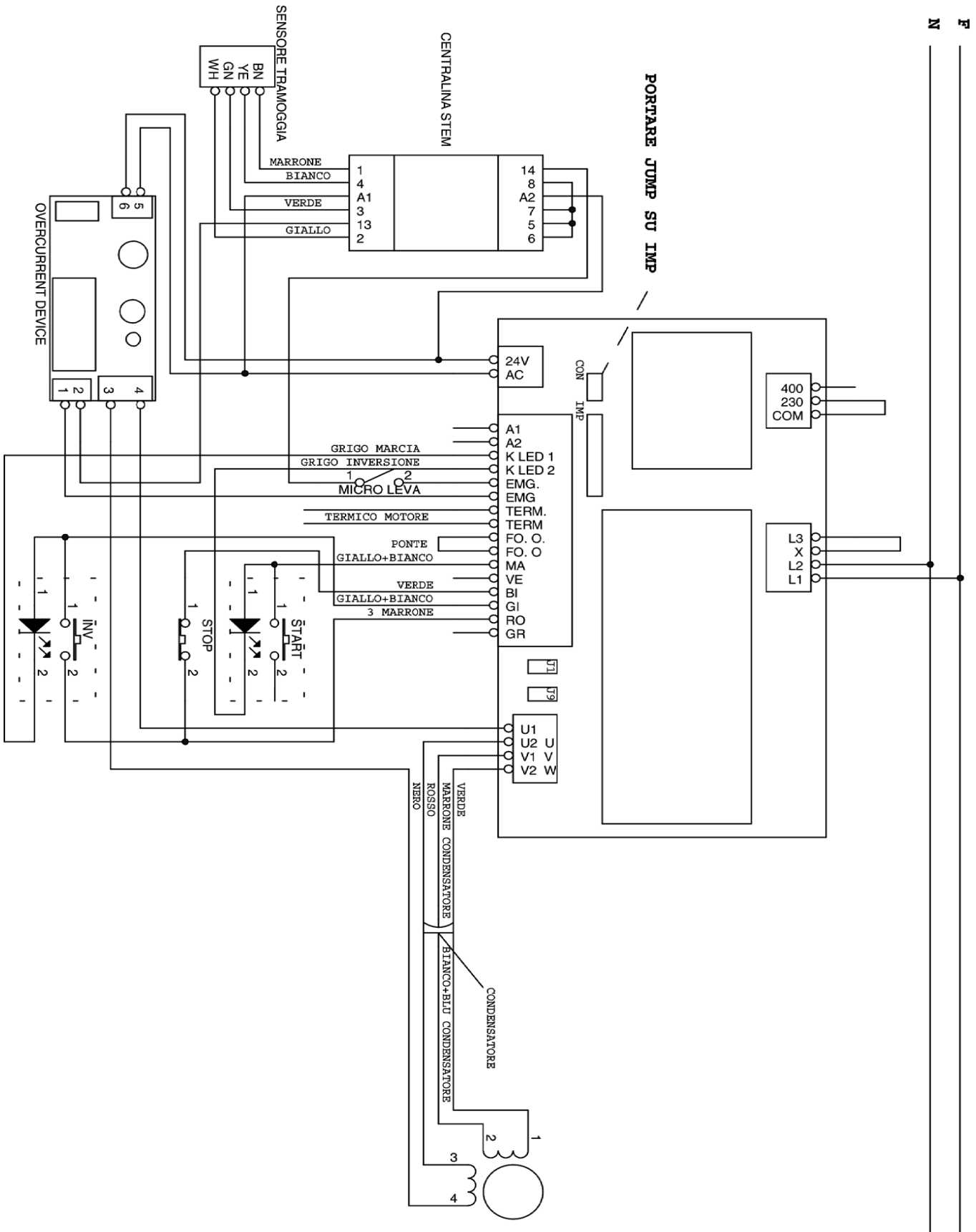


English

2.4.2 - Three-phase diagrams with electronic switch

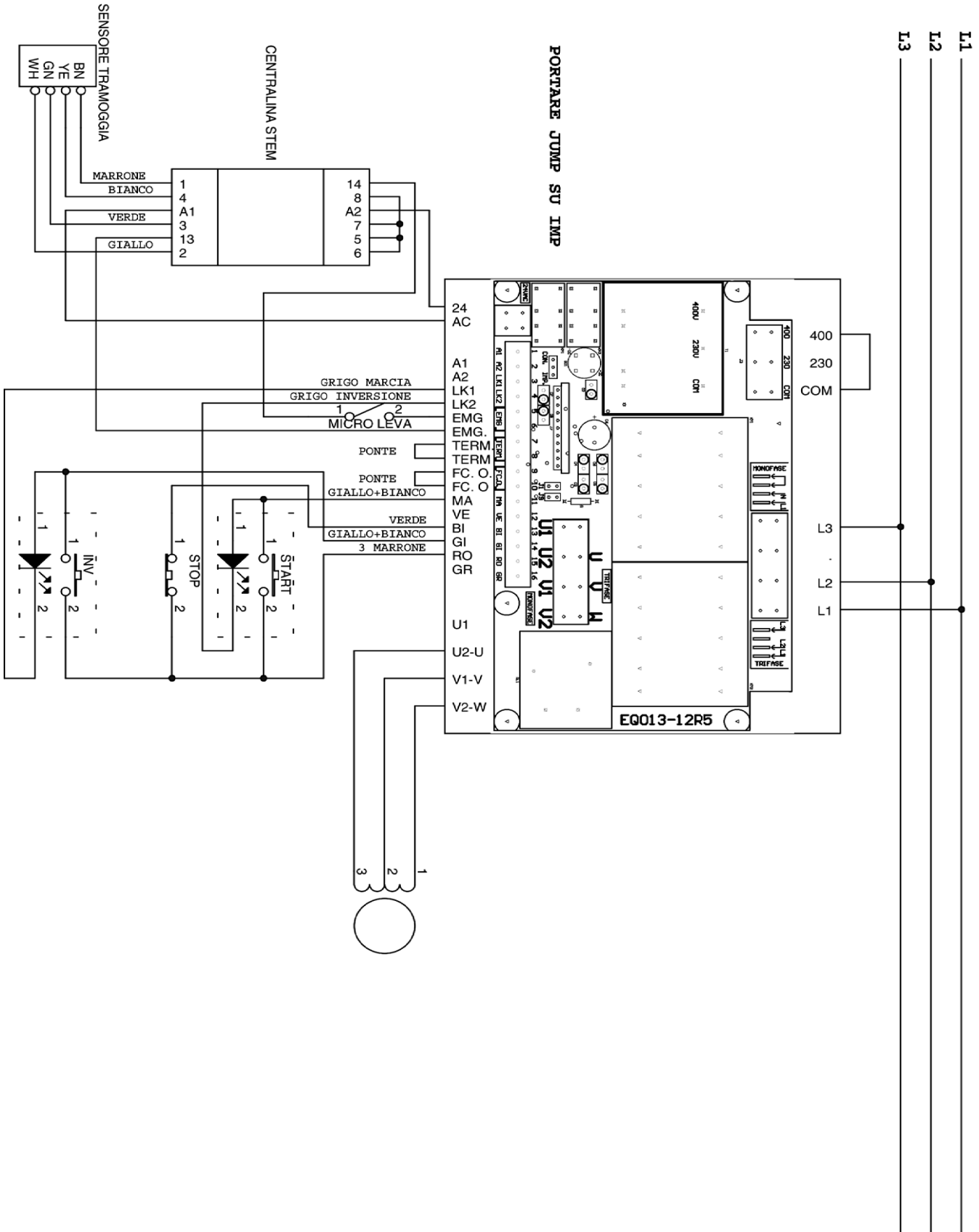


2.4.3 - Single-phase diagrams with stainless steel controls



English

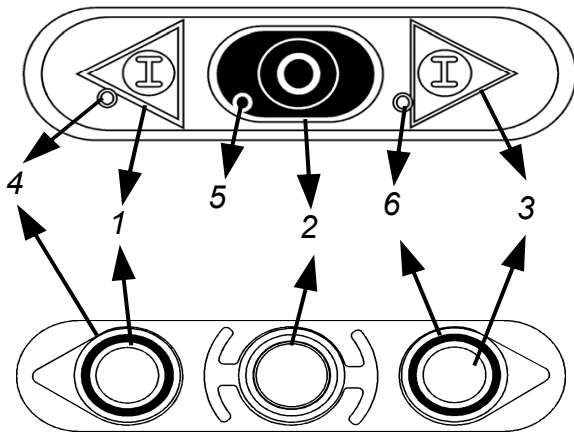
2.4.4 - Three-phase diagrams with stainless steel controls



3 - Controls and Indicators

3.1 - List of controls and indicators

Fig. 3.1.1



- 1 - Start button - Press to start the machine.
- 2 - Stop button - Press to stop the machine.
- 3 - Push button for reverse - Allows you to change the direction of rotation of the rotor pulses..
- 4 - 5 - 6 - Lights

4 - Testing, transport, delivery and installation

4.1 - Testing

The machine in your possession has been tested at our factory to ensure its smooth operation and proper adjustment. During this testing, tests were conducted in operation on material similar to that processed by the user.

4.2 - Delivery and handling of the machine

All the material shipped has been thoroughly checked before delivery to the carrier. Unless otherwise agreed with the customer, the machine is wrapped with nylon and strapped onto a pallet; the carton sheathes it from above which will also be strapped on the pallet. Upon receipt of the machine, verify the integrity of the packaging. If the packaging is damaged, the carrier must sign the bill of receipt with a note such as " Accepted, with reservation ..." and reason.

After opening the package, if damaged machine parts are present, make a claim to the carrier within three days of the date indicated on the documents.

4.3 - Installation

WARNING! The area where you plan to install the machine must be level, solid and on a flat shoring and must ensure its support in safety. The machine must also be placed so as to maintain ample space around it. This allows greater manoeuvrability in the work stages and ensures access for subsequent maintenance. Provide suitable lighting around the machine to ensure proper visibility to the operator using the machine.

- remove the cellophane wrapping of the machine and any other packaging inside.

4.3.1 - Disposal of packaging

The packing materials such as cardboard, nylon, and wood products are comparable to municipal solid waste. They can then be disposed of freely. The nylon material is a pollutant that produces toxic fumes if burned. Do not burn and do not disperse but dispose of according to applicable laws. If the machine is delivered in countries where there are special rules, dispose of the packaging as required by the applicable legislation.

4.3.2 - Handling the machine

WARNING! Handle the machine with care and attention, avoiding accidental falls that could damage it severely. To avoid muscle strain in lifting the machine, lift using your legs.

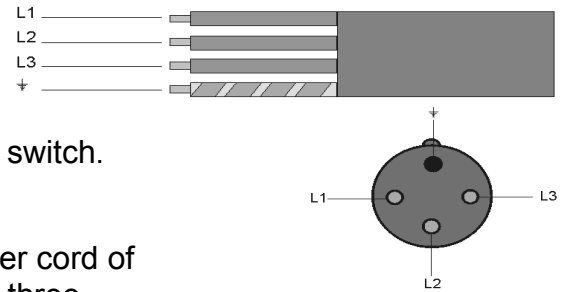
4.4 - Connection to the electric mains

WARNING! Verify that the power supply line corresponds to the value on the nameplate of the machine. Any operation should be performed solely by qualified personnel expressly authorized by the manager in charge. Connect to a grid provided with efficient grounding plug.

4.4.1 - Three-phase machines, 380 Volt-50Hz and 220 Volt-50Hz

In these arrangements, the machine is supplied with a power cord of a section 4 x 1.5 mm.

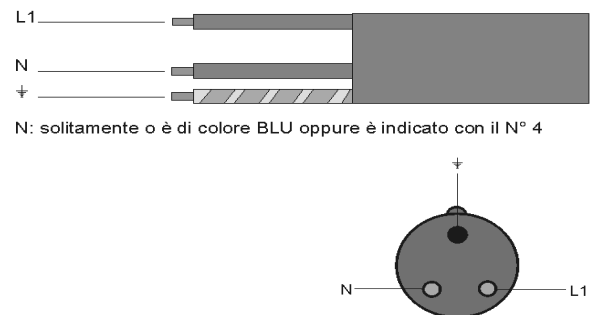
This is connected to a three-phase three-pole + grounding plug. Connect the cable to the three-phase power supply by putting a 16 Amp circuit breaker switch.



4.4.2 - Single-phase machine 220 volt-50 Hz

In this arrangement, the machine is supplied with a power cord of section 3 x 1.5 mm. This is connected to a single-phase three-polar plug. Connect the cable to the single phase power supply 220 Volt-50 Hz by inserting a 16 Amp circuit breaker switch.

In installations with voltages other than those mentioned above, please contact the manufacturer. If you need to lengthen the cord, use a cable of the same section as the one installed by the manufacturer.



5 - Starting and stopping

5.1 - Checking for correct wiring

Plug into the electrical socket;

The indicator light from the grid ("6" Figure 3.1.1) must be lit;

Press the button ("1" Figure 3.1.1), checking the direction of rotation of the utensils (in 380 three-phase version).

The direction of rotation must agree with the direction of the arrow ("C", Fig. 1.7.2), counterclockwise.

If the rotation direction is backward, disconnect the machine from electricity and contact our dealer.

Note: For machines connected to a single-phase line and built at such a power, the correct direction of rotation is determined by the manufacturer.

5.2 - Check for the presence and effectiveness of guards and safeties

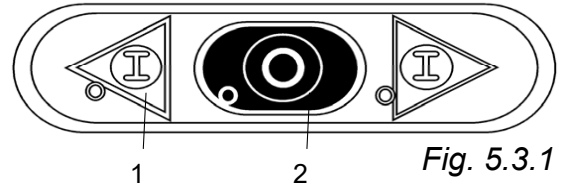
- **Th outlet feed of the product.** Make sure that the outlet feed of the product has holes with a diameter of less than 8 mm.
- **H nd guard protection.** The hopper must have hand guard protection
- **Stai less steel hopper.** The stainless steel hopper is solidly attached to the loading feed

5.3 - Check the efficiency of the stop button (fig. 5.3.1)

With the machine connected to the grid and the utensils in motion, press the stop button (2). The machine must stop.

5.4 - Starting the machine (fig. 5.3.1)

To start the machine, just press the start button



"1" Figure 5.3.1, after having properly connected the plug to the electric mains supply and the machine is activated.

5.5 - Stopping the machine (fig. 5.3.1)

To stop the machine, press the stop button, "2" Fig 5.3.1 and the machine stops

6 - Using the machine

6.1 - Requirements

Requirements! Only authorized personnel can service the machine.

Before starting use the operator is required to ensure that all the guards are in place and that the safety devices are in place and effective.

Otherwise, turn off the machine and contact the maintenance manager.

The product to be ground must be cut up to a size that can fit into the loading feed and must be pressed with the aid of the special pusher (pestle) **NEVER USE YOUR HANDS FOR THIS.**

The machine is not designed to operate inside a cold room: this could seriously damage the electrical components sensitive to condensate (which forms at low temperatures) and also alter the viscosity of the grease and/or lubricating oil in the gearbox housed inside it, jeopardising the machine's correct operation and causing potential failures.

6.2 - Preparation of the output feed

The machine can be set to use three different meat cutting units: A -

Enterprise or normal

B - Partial UNGER

C - Total UNGER

- The system -C- (total UNGER),

includes: a AISI 304 stainless steel rotor "1"

to transport the meat,

a AISI 430 steel fringer plate

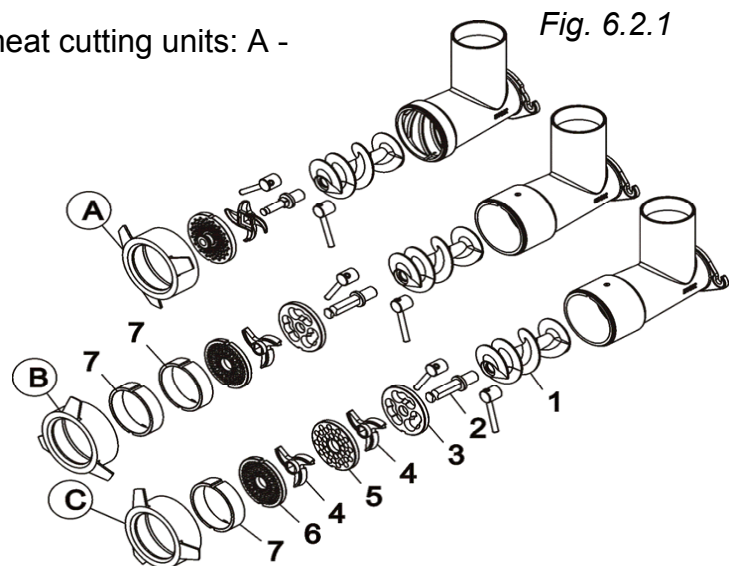
"2", a first knife "3" and the related perforated

plate "4" both in AISI 430 steel, a second

knife "5" with

the final perforated plate "6" both in AISI 430

steel, a spacer "7" in AISI 304 stainless steel.



- The system -B- (partial UNGER), replaces the knife "5" and plate "4" with the spacer "7".
- The system -A- (Normal) is the easiest method of transport, composed only of the AISI 304 stainless steel rotor, a knife and an output plate, both in AISI 430 steel.

It is not possible to mount the plates of the B or C unit on models with A grinder; it is necessary to change the entire unit.

6.3 - Using the grinder

- 1 Make sure that the supply voltage matches the value on the rating plate. The voltage indicator will be lit to indicate the connection to the electric grid.
- 2 Slightly tighten the ring nut of the meat grinder and put in some meat, press the start button, making sure that the direction of rotation is the same as that indicated by the arrow (counterclockwise).
- 3 If the meat output is cut well, the adjustment of the ring nut is fine, if not, tighten the ring nut more until you get a perfect cut of meat.
- 4 Stop the machine by pressing the stop button
- 5 To loosen the ring nut it is not necessary to use a tool, simply turn the handle that locks the feed, because the ring nut is free and can be easily extracted.
- 6 After a thorough cleaning, first mount the feed, making sure it is in the correct position and secure it with the side handle.
- 7 Now you can reassemble the rotor, the knife, the plate and the ring nut.

6.4 - Dismantling and cleaning the mouth after use

- 1 Empty the mouth and inlet collar completely and then start the machine without any meat in it.
- 2 When you are sure that no processing residues are left in the collar and mouth, switch the machine off and disconnect it from the mains electricity.
- 3 Loosen the nuts fastening the mouth.
- 4 Detach the mouth completely and place it on a support surface. You can now dismantle the components of the mouth.
- 5 Loosen the ring nut fully until it slides off.
- 6 Extract the plate and knives, followed by the worm.
- 7 Clean every component.

6.5 - Assembling the mouth after cleaning

After properly cleaning each component, reassemble the mouth:

1. Insert the grinding worm.
3. Insert the knife and plate, while making sure that the knife is mounted with the blade facing the grinding plate.
4. Screw on the ring nut and tighten it slightly.
5. Mount the machine mouth by following the instructions in the relevant paragraph.

6.6 - Manual hamburger forming accessory

The meat grinder can be supplied with a manual hamburger forming accessory.

This accessory must be mentioned when ordering the machine, so that the latter can be fitted during its assembly with:

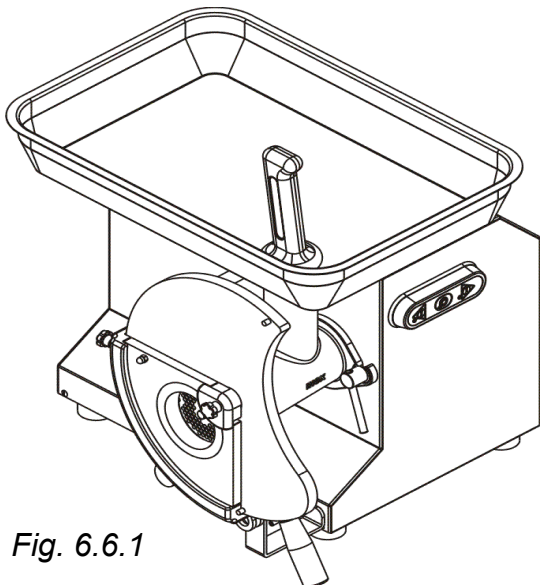


Fig. 6.6.1

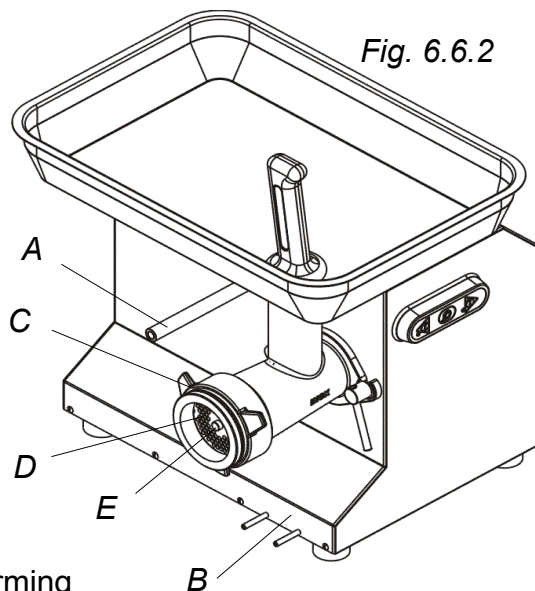


Fig. 6.6.2

- A: sensor that control the start/stop of the meat grinder;
- B: a sensor that detects the presence of the hamburger forming accessory, positioned inside the casing;
- C: ring-nut mount
- D: plate without tang;
- E: short worm pin.

6.6.1 - Assembling the hamburger forming accessory

The hamburger forming accessory is supplied with all its parts dismantled. To assemble it correctly, proceed as explained below.

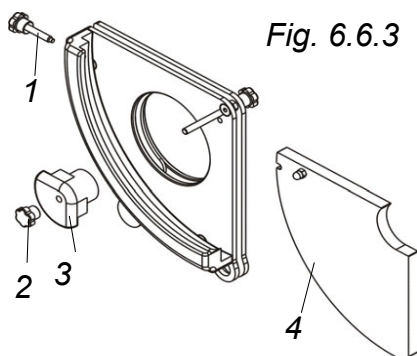


Fig. 6.6.3

PHASE 1

- Loosen the knob (1)
- Loosen the knob (2)
- Remove the aluminium central pin (3)
- Remove the plexiglass slab (4) closing the hamburger forming accessory

PHASE 2 Attach the bracket (5) to the plate (6)

- Take a 5 mm Allen key and a 13 mm fixed spanner
- Tighten the knob (7) onto the M6 pin (present on the plate)
- Tighten the M8x25 hexagon socket countersunk head screw (8) with the relative M8 self-locking nut (9)

N.B: for the time being, only slightly tighten the knob (7), screw (8) and nut (9).

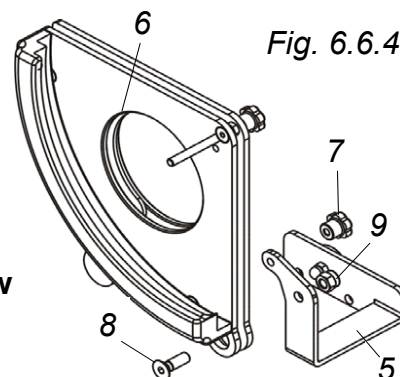
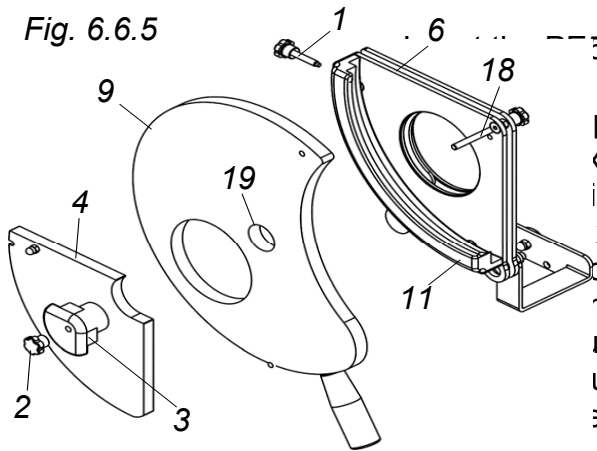


Fig. 6.6.4

Fig. 6.6.5



PHASE 3

- Push the polyethylene slider (9) inside the aluminium profile
- Push the glass slab (4) into the aluminium profile (11), positioning the slider (9).
- Push the glass slab (4) to the plate (6):
- Push the knob (1) through the slotted hole on the slab (4);
- Push the knob (1) fully;
- Push the aluminium block (3) through the hole (19);
- Push the aluminium block (3) to the plate (6), tightening the knob (2) and pin (18)

PHASE 4 Adjusting the hamburger forming accessory on the meat grinder:

- Take a 5 mm Allen key and a 13 mm fixed spanner
 - Turn the lever (12) clockwise while holding the assembled hamburger forming accessory
 - Attach the hamburger forming accessory to the meat grinder, positioning it against the ring nut (13), through the hole on the rear plate (6)
 - Push it until the two pins (14) present on the casing slide through the two holes on the bracket (5)
 - Turn the lever (12) clockwise to lock the accessory on the ring nut
 - Tighten the knob (7) and screw (8) with the relative self-locking nut (9)
- The hamburger forming accessory will now be ready for use.

Fig. 6.6.6

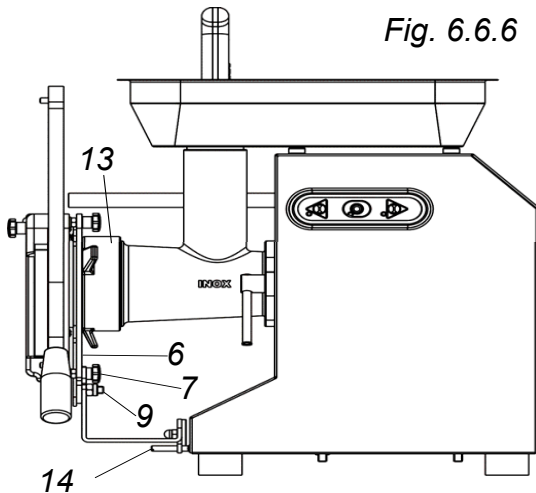
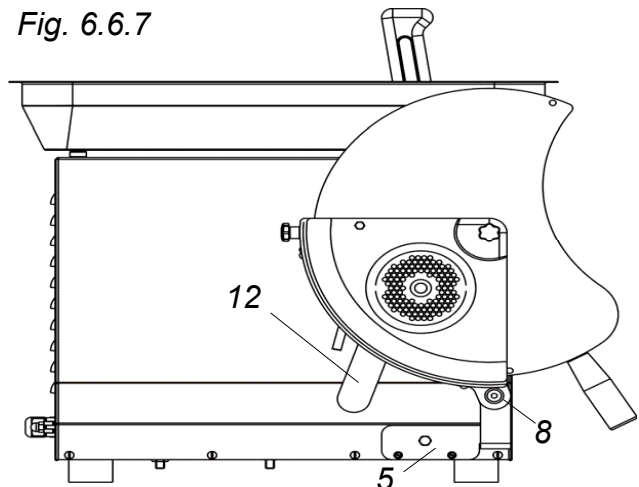


Fig. 6.6.7

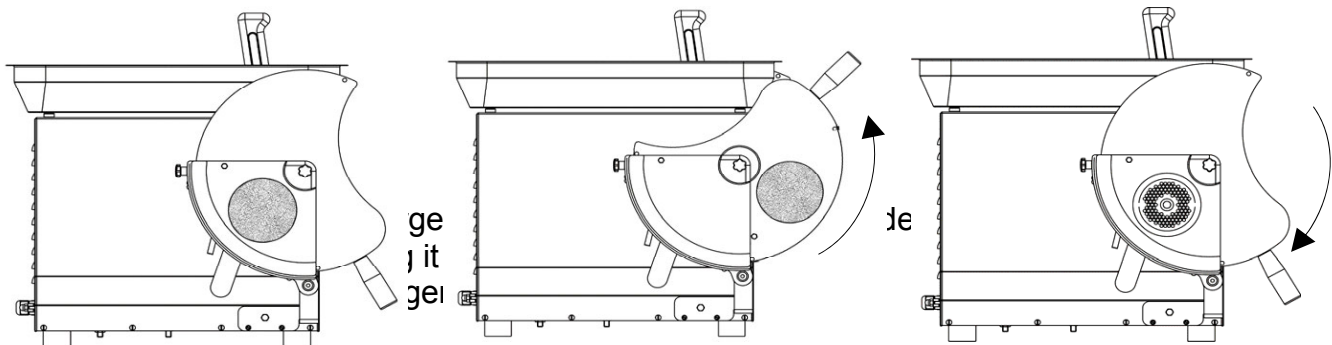


6.6.2 - Using the hamburger forming accessory

After installing it correctly and fastening it to the meat grinder, the hamburger form-ing accessory can be used.

WARNING! The operator must supervise the hamburger forming accessory while it operates and during the hamburger production process.

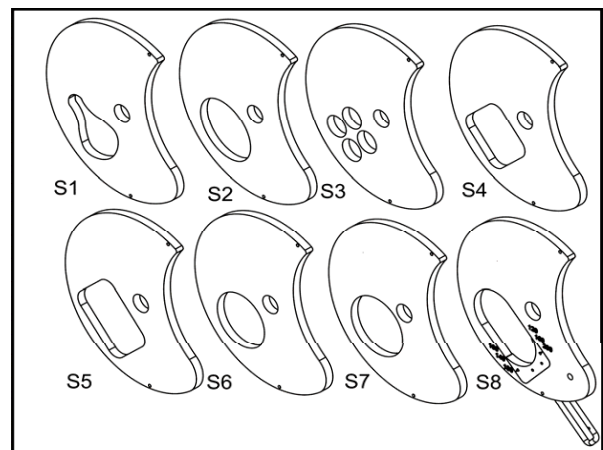
- load the product to be ground into the meat grinder's hopper
- start the meat grinder by pressing the start button
- the ground meat that comes out of the meat grinder's mouth fills the hamburger die
- visually inspect the process and remove the hamburger once it has been formed, by turning the hamburger forming accessory slider anti-clockwise, holding it from the knob only in this way will
- the machine stop working and pushing the ground meat outwards



- after removing the hamburger from inside the die, put the slider back into place by turning it clockwise, holding it from the knob
- this will cause the hamburger production cycle to resume

The sliders come with different dies for the hamburgers:

- S1 Chicken leg - approx. 105 g
- S2 Oval - approx. 130 g
- S3 Meat balls - approx. 20 (x4) g
- S4 Square - 100 x 100 mm - approx. 150 g
- S5 rectangular - 100 x 125 mm - approx. 190 g
- S6 Round - \varnothing 110 mm - approx. 155 g
- S7 Round - \varnothing 100 mm - approx. 140 g
- S8 Adjustable from round to oval - 100 g – 200 g



6.6.3 Detaching the hamburger forming accessory from the meat grinder

- with the meat grinder switched off, raise the fastening lever and unlock the hamburger forming accessory
- hold the hamburger forming accessory with both hands and push it towards you
- remove it from the ring nut and from the two pins at the base of the casing

7 - Maintenance

7.1 - Requirements

WARNING! All the maintenance and cleaning must be performed with the machine at a standstill, disconnected from the power mains. The area where maintenance operations are performed must always be kept clean and dry.

Do not allow unauthorized personnel to service machinery.

Any replacement of parts, including replacement of the utensils must be made with original parts from authorised shops or directly from the manufacturer.

7.1 - Lubrication

The machine does not require lubrication.

7.2 - Cleaning the Machine

WARNING! Unplug the machine from the mains before cleaning. Do not clean the machine with a water jet. Use only non-toxic cleaners, and specifically for the cleaning of components for use with food. Plates and knives are made of AISI 430 steel, if left wet or to soak, they can rust. It is advisable to dry them after washing.

7.3 WEEE Waste Electrical and Electronic Equipment

Pursuant to Article 13 of Legislative Decree 25 July 2005, No.151

"Implementation of Directive 2002/95/EC, 2002/96/EC and 2003/108/EC on the reduction of use of Hazardous Substances in electrical and electronic equipment, and disposal of waste



The symbol of the barred trashbin as shown on the equipment or on its packaging indicates that the product at the end of its life must be separated from other waste. The recycling of this equipment at the end of its life is organised and

managed by the manufacturer. The user who wishes to dispose of this equipment shall contact the manufacturer and follow the system that has been adopted to allow the separate collection at the end of its life.

Proper differentiated collection by subsequent sending of the equipment waste to recycling, treatment and environmentally compatible disposal helps to avoid possible negative environmental and health effects and promotes the reuse and/ or recycling of materials making up the product.

Illegal disposal of the product by the owner will lead to the application of administrative sanctions provided by law.

8 - Troubleshooting

8.1 - Causes of problems and remedies

Problems	Cause	Remedies
The machine does not start	The circuit breaker is set at "0"	Set the switch to "I"
	The plug switch is set at "0"	Set the switch to "I"
	The start button does not work	Contact Technical Support
	The safety devices are removed or not present.	Check safety devices
The rotator rotates in the opposite direction from that indicated on the arrow (on three-phase mod.)	Reverse phase wire on plug	Contact Technical Support
The product does not grind correctly	Plate and knife do not close properly	Properly tighten the plate and the knife
	Presence of scoring on the plate or knife not perfectly fitting (on the plate surface)	Replace the defective torque plate and knife
	Loose ring nut	Tighten the ring nut properly

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