

AUTOMATIC TRUFFLE

USER AND SERVICE MANUAL



PREFACE

This manual provides all the necessary information for the use and ordinary maintenance of your machine. The proper functioning of the machine and its lifespan will depend on good maintenance and the attention paid during use.

Before leaving the factory this specific model has undergone rigorous tests to guarantee maximum reliability; one should nevertheless check that the machine has not suffered any structural damage during transportation as it may jeopardise its functioning and safety.

This manual is to be considered an integral part of the machine and should accompany it until its demolition.

In case of loss or damage please ask SELMI Srl for another copy.

The technical information contained in this manual belongs to SELMI Srl and must be considered proprietary.

The total or partial reproduction of the graphic design, text and illustrations is forbidden.

Some particulars shown on the illustrations in this manual could be different from those of your machine; some components could have been removed to improve the clarity of the illustrations.

For ease of reference this manual has been divided into sections, each identified by specific graphic symbols.

The topics dealt with in this manual are those expressly requested by the "Directive 2006/42/CE" and the technical data given is the one supplied by the manufacturer at the time of editing.

This manual should be kept in a place accessible to all personnel involved with the use and maintenance of the machine.

Single document & integral part of the machine
AUTOMATIC TRUFFLE – truffle coating machine
 Pursuant to Directive 2006/42/CE (Attachment 1.7.4)

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January 2010 Edition

DOCUMENT UNIQUE, PARTIE INTÉGRANTE DE LA MACHINE

(for machines not included in attachment IV pursuant to D.P.R. no. 459/96 Directive 2006/42/CE, Attachment II part A)



The manufacturing company Selmi Srl, with main office in S. Vittoria d'Alba (Cn) Italy – Via Statale 151 declares under its own responsibility that the machine described in this manual
TRUFFLE COATING MACHINE

Type :

**AUTOMATIC
TRUFFLE**

Serial number:

to which this declaration refers to, complies with the essential safety requirements required by Directive 2006/42/EC, by Directive 2004/108/EC (electromagnetic compatibility), by Directive 2006/95/EC (low voltage) and by Directive 89/109/EC (contact with foodstuffs)

The norms adhered to that are used as a reference for the design, realisation and testing of the machine are listed in the technical files archived at Selmi Srl.

This declaration will lose its validity if any modification is done to the machine without the authorisation of the manufacturer.

Year of construction



The liable person

Date

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1. General information

1.1. Structure of the manual

The user must carefully read all the information in this manual.

1.2. Aim and contents

The aim of this manual is to give the user all the necessary information for the correct use and maintenance of the machine.

Attention

Before attempting any operations on the machine the user must have carefully read the instructions contained in this publication

In case of doubts on the correct interpretation of the instructions please contact the manufacturer to obtain the necessary clarifications.

Attention

It is forbidden to attempt any operation without having first read and understood the contents of this manual.

1.3. Preservation of the manual

In order to guarantee over time the integrity and legibility of this manual the following precautions are recommended:

- use the manual in such a way so as not to damage all or part of the contents;
- do not remove, rip or rewrite any parts of the manual for any reason;
- Store the manual in areas protected from humidity and heat, so as not to jeopardise the quality or legibility of any part of the publication.

Warning

If this manual is damaged or lost please ask the manufacturer or the distributor in the country where the machine is being used for another copy.

1.4. Messages Used

Attention

ATTENTION messages indicate a danger to the user. The operations described following this message must be carried out with the utmost care and in conditions of maximum safety using personal protection equipment.

Warning

WARNING messages are seen before procedures that, if not followed, could cause damage to the machine

Environment

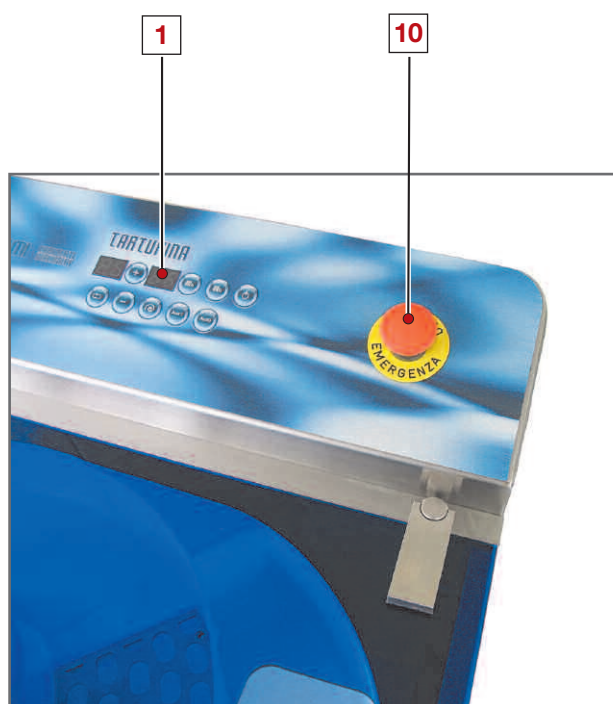
ENVIRONMENT messages are seen before procedures that, if not followed, could cause environmental damage

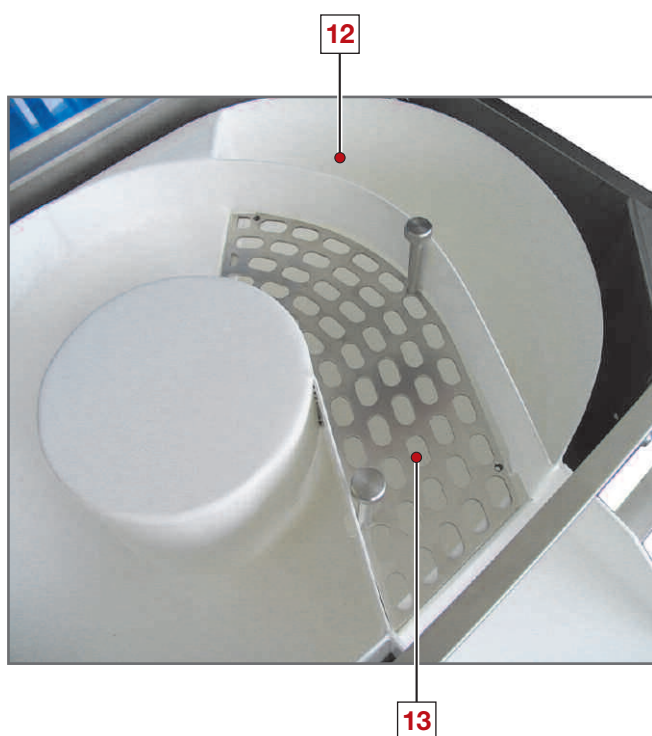
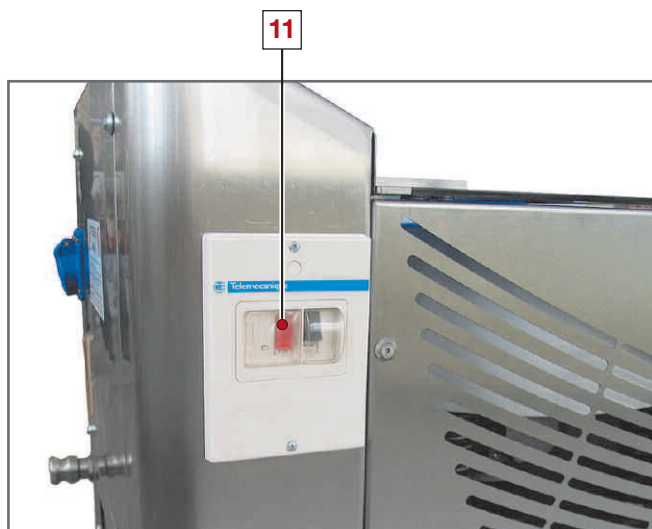
Note

NOTE messages highlight further indications that will be useful for the user.

1.5. External components

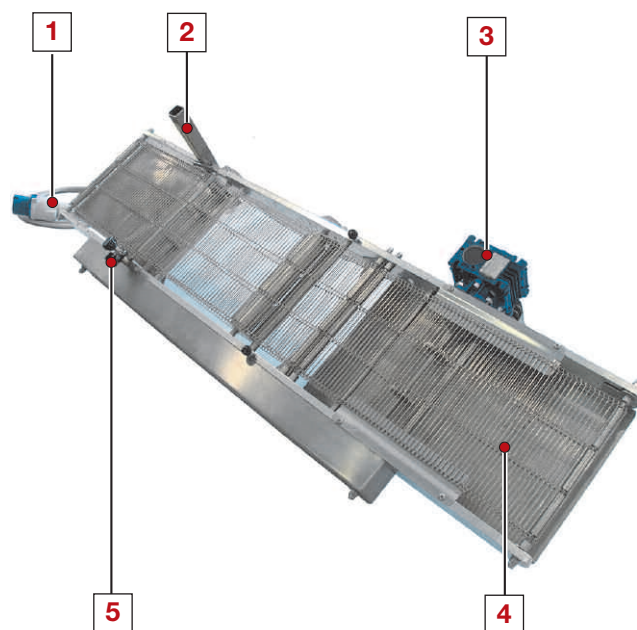
- 1 Control panel
- 2 Top cover
- 3 Product exit point
- 4 Tray support
- 5 Knob to open cover
- 6 Electrical plug
- 7 Supply for the transporter belt
- 8 Blower output
- 9 Pivoting wheels
- 10 Emergency button
- 11 Main switch
- 12 Processing container
- 13 Processing slide
- 14 Product exit slide





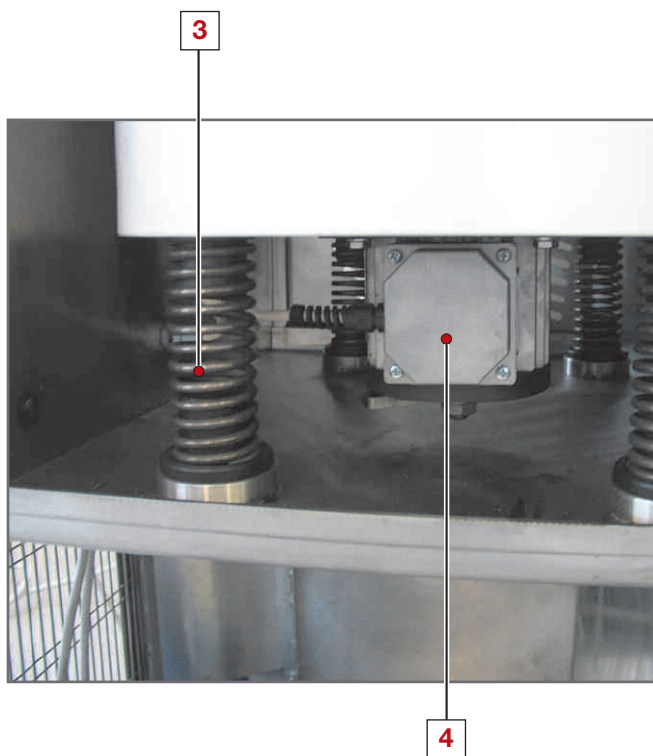
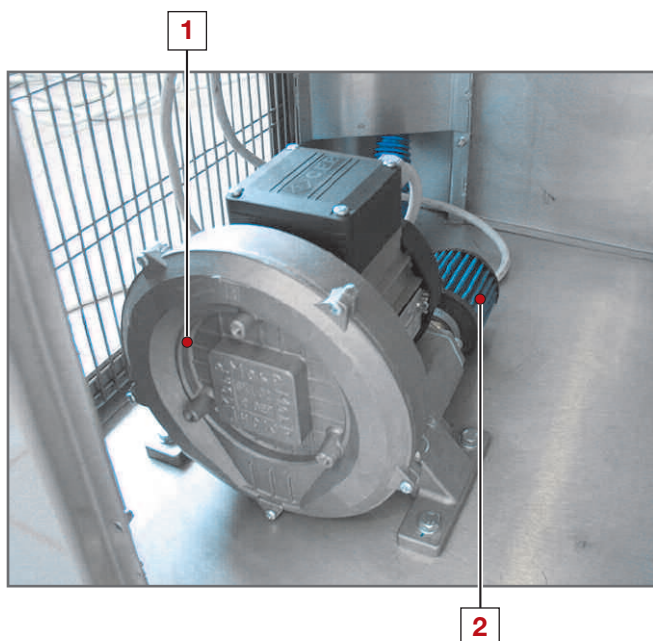
Coating Belt

- 1 220V plug
- 2 Blower input
- 3 Motor/reducer
- 4 Product loading point
- 5 Mesh vibration regulator



1.6. Internal components

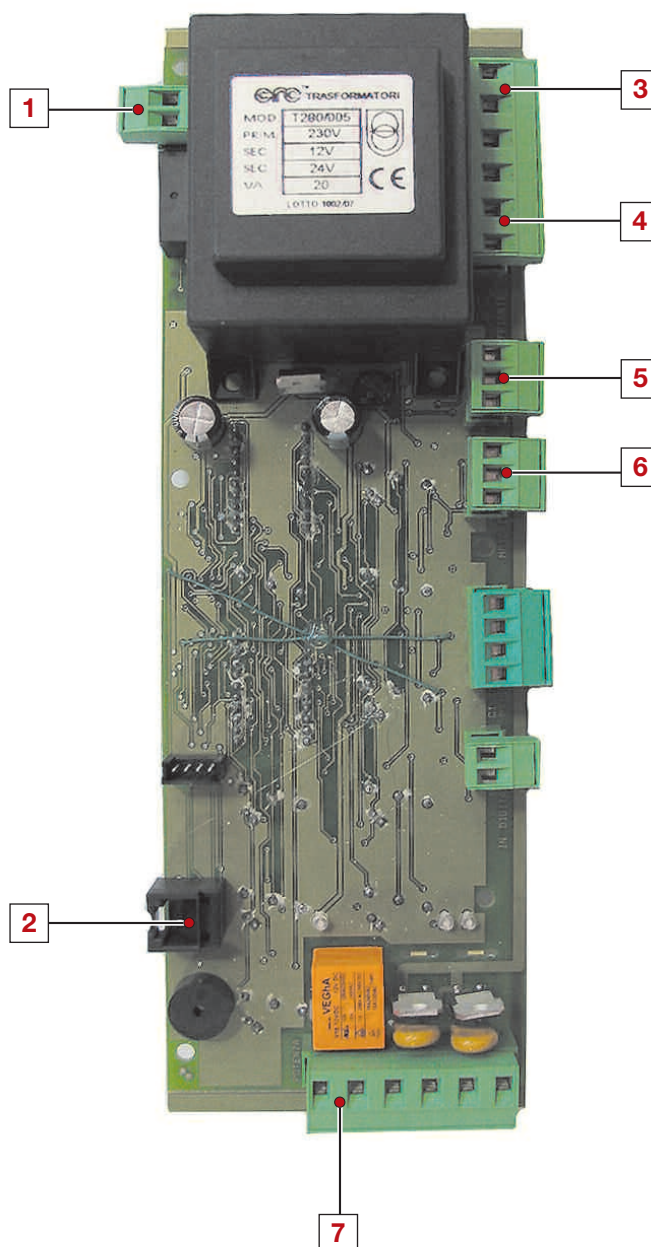
- 1 Blower motor
- 2 Blower filter
- 3 Container vibration springs
- 4 Container vibration motor



Power board

(Located inside the electric panel)

- 1 Auxiliary output 24 Vac
- 2 Programming input
- 3 220V input
- 4 Output supply for inverter
- 5 Attachment to vibration inverter
- 6 Attachment to blower inverter
- 7 220V output





Electrical circuits

- 1 Power board
- 2 safety microswitch
(opening of the electrical circuits panel)
- 3 Vibration inverter
- 4 Blower inverter



1.7. Details of the manufacturer

Selmi Srl, Via Statale 151 – 12069 – S. Vittoria d'Alba (CN)
Italy
Tel. 0172 479273 – 0171 479275
Fax 0172 477814
www.selmi-group.it – info@selmi-group.it

1.8. Identification plate of the machine (CE marking)

The details shown on the identification plate of the machine will be needed in any communication with the manufacturer.

(Located on the body of the machine)



1.9. Identification plate of the CE marked electric panel (low voltage)

ELECTRIC DIAGRAM	N°
INSTALLED POWER	KW
VOLTAGE	V
PHASES	N°
FREQUENCY	Hz
CURRENT AT FULL LOAD	A
CURRENT AT HIGHER LOAD	A
CUT OUT CAPABILITY	KWA
PROTECTION	IP

1.10. Intended use

This specific machine model has been designed and built for carrying out the coating of truffles with powders and granules.

This machine can work with Plus, Futura and Top tempering machines.

Warning

A use other than that specified is considered INAPPROPRIATE

The machine is intended to be used at professional industrial level.

1.11. Operating environment

To guarantee proper functioning the machine must be protected from atmospheric agents. Its ambient operational temperature should be between 15° C and 35° C with relative humidity not exceeding 70%

The working environment must be clean, sufficiently illuminated and away from an explosive environment.

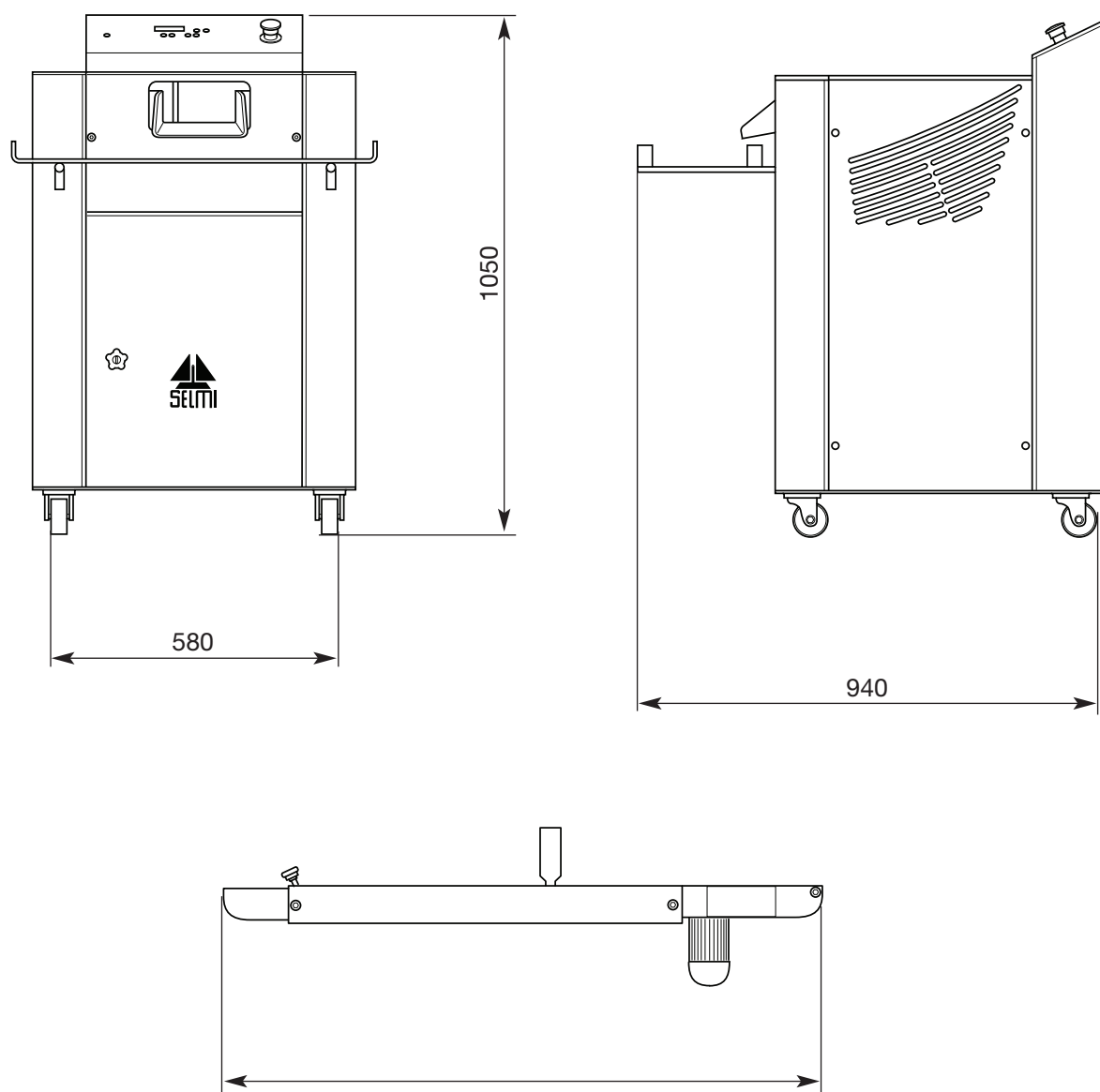
1.12. Noise level

The phonometric tests carried out on this specific machine model show an acoustic pressure lower than 80 dB (A)

1.13. Technical characteristics

Electric motor:	single phase 0.18 kW
Reducer:	Motovario
Inverter:	MiniJ7
Blower:	0.11 kW
Steel:	AISI 304
Weight:	100 Kg

1.14. Dimensions hors tout





1.15. Storage

Open all the removable protections, remove any foreign objects and clean the surfaces.

Use a brush to cover the mechanical parts, including the fixing mechanisms, with a protective lubricant. This can later be removed with an alkaline de-greaser (Sodium Hydroxide) if the machine needs to be re-installed.

Lubricate the mechanical parts.

Cover the surfaces with a protective lubricant.

Gather the parts (use as reference the delivery packing list) and fix them on appropriate supports taking care to respect the handling instructions of the machine.

Place packets of hygroscopic salt based on silica gel on the supports

Store all the parts in a sheltered place away from atmospheric agents and in temperatures from 0° C to 40° C. Cover the parts with nylon in order to prevent the accumulation of dust.

1.16. Disposal

Disposal will occur at the end of the working life of the machine, which under normal conditions of use and maintenance will be over ten years.

In the case of disposal all the components of the machine will have to be disposed of in adequate waste yards according to the legislation in force.

Before disposal it will be necessary to separate the plastic or rubber parts and the electrical and electronic material.

Environment

Parts made solely of plastic, aluminium and steel can be recycled in the appropriate collection centres.

1.17. Warranty

Selmi offers a warranty on this machine model for a period of 24 months from the purchase date, as shown on the fiscal document issued at the time the machine is delivered.

The warranty will be void if the machine is repaired by a third non authorized party or if fixtures and accessories not supplied by or recommended or approved by Selmi are used or upon removal or alteration of the serial number during the warranty period.

Within the warranty period Selmi will repair or replace, free of charge, parts that are faulty due to manufacturing.

The machine will have to be sent to Selmi in its original packaging. Transportation expenses will be covered by the manufacturer during the warranty period.

The warranty does not cover the cleaning of the functioning parts.

Defects not clearly attributed to the material or the manufacturing will be examined. If the claim should turn out to be unjustified all repair expenses, changed parts and transportation will be charged to the buyer.

The warranty does not cover damage caused by the following: accidents, transportation, lack of care or inadequate handling, improper use not conforming to the warnings of the user and service manual and any phenomenon not dependant on the normal functioning and use of the machine

1.18. Professional personnel qualified to operate the machine.

The machine must only be used by authorised and purposely trained personnel; the same precaution is also applicable to personnel who carry out maintenance. Do not permit others to approach the machine during its use or maintenance.

The following professional people, after having received all the necessary instructions, are the only ones allowed access to the machine:

Safety officer

The safety officer is responsible for protection and prevention of risks in the workplace, as is mentioned in European Directive (Safety in the workplace).

It is the responsibility of the safety officer to make sure that all personnel who use/maintain the machine have received all the instructions regarding their relative roles contained in this manual.

Operator (user of the machine)

Operator trained and qualified for the use of the machine (working cycle, potential adjustments, etc...)



He/she can only carry out the specific tasks described in this manual reserved for this role.

It is very important to prevent the use of the machine by inexperienced personnel.

Mechanical maintenance technician

The technician is qualified to use the machine as the OPERATOR and furthermore to use it with the protections disabled, to attend to the mechanical parts for adjustments, maintenance and reparations.

He/she is not qualified to act on live electrical installations.

The mechanical maintenance technician must have a generic knowledge of the machine and a specific knowledge on this machine model.

Electrical maintenance technician

The technician is qualified to use the machine as the OPERATOR and furthermore to use it with the protections disabled, to attend to the adjustments and electrical installations for the purposes of maintenance and repair.

He/she will work in the presence of live circuits within the electric panels, control boards, etc...

The electrical maintenance technician must have a generic understanding of the electrical panels and specific knowledge on the electrical panel and components of this machine.

Manufacturer

For any other operation not described in this manual or assigned to a professional person other than one of those aforementioned, it will be necessary to contact Selmi Srl.



2. Safety

2.1. Safety information

Attention

The safety officer has the obligation to inform the workers on the risks connected to the use of the machine. Furthermore the employer must inform, educate and train the user according to statutory laws.

The lack of compliance with the basic norms or precautions could result in accidents during the functioning, maintenance or reparations of the machine. Accidents can often be avoided by acknowledging potential hazardous situations before they materialise. The operator must pay attention to the potential dangers and have the training, the competence and the necessary equipment to deal with these tasks correctly.

Selmi Srl cannot be held responsible for accidents or damages resulting from the use of the machine by personnel not adequately trained or having used the machine improperly, as well as the lack of, even partial, compliance to the safety norms and intervention procedures contained in this manual.

The safety precautions and the warnings are detailed in this manual and on the product itself

If attention is not paid to these warning messages, the operator could be subject to accidents with serious consequences for himself and for other people.

Selmi Srl cannot foresee all the possible circumstances which might give rise to a potential danger. The warnings in this publication and on the product are therefore not exhaustive.

In cases where tools, procedures, work methods or working techniques not explicitly suggested by Selmi Srl are used, it will be necessary to make sure that no dangers are present for the individual carrying them out and to others alike.

Use exclusively original SELMI spare parts
Selmi Srl will take no responsibility in the case of use of non-original spare parts.



Use exclusively original SELMI spare parts
Selmi Srl will take no responsibility in the case of use of non-original spare parts.

2.2. Safety limitations

Attention

The indications mentioned hereafter cannot completely safeguard from all dangers that one might encounter while using the machine; they must be used in conjunction with common sense and the experience of the operator, the only indispensable measures for the prevention of injury.

Every section has a list of extra safety measures specific for different operations

Attention

The use of the machine is forbidden to personnel who have not been authorised or trained.

Operators who carry out permitted activities on the machine must receive adequate instructions for the use of personal protection equipment such as shoes, gloves, etc... that allow them to eliminate all the risks derived from the execution of various activities.

Do not clean and do not lubricate parts in motion

Do not remove safety devices and protections

If an unforeseen processing or intervention is carried out, following a different procedure to the one indicated in this manual, consult Selmi Srl before proceeding

With the exception of the operator there should not be any people or animals within the operating field of the machine.

In the case where the Client installs on the machine a tool that has not been provided by Selmi Srl, it must be certified that the safety conditions set out in Directive 2006/42/CE are observed and in any case Selmi Srl will not assume any responsibility on potential problems derived from the use of such a tool.

The machine must not be operated in corrosive or explosive environments.



Floors which are oily, wet or greasy could cause accidents.

Clean well and immediately dry the floor from stains or any liquid or grease which are formed during an intervention on the machine.

Avoid the use of flammable or toxic solvents for cleaning.

Prolonged overloads or breakdowns could cause the overheating of the electric motors and of the electrical appliances with resulting harmful fumes; immediately disconnect the machine from the mains and do not approach the machine until having dispersed these fumes via adequate ventilation.

In case of fire never use water jets on the machine but instead use CO2 extinguishers.

The operator, any helping technician and the maintenance technician must use the appropriate personal protection equipment when working on the machine.

Auditory protection must be used if the acoustic pressure level in the workplace exceeds 80dB (A).

Wear appropriate work clothes.

In cases of long hair, use appropriate nets to reduce the risk of snagging.

Proficiencies for the different activities concerned with the use of the machine must be clearly established as stated in the chapter "Professional personnel qualified to operate the machine".

The manual must always be easily accessible so that it can be consulted to verify the correct cycle of operation every time there are doubts. If this manual should go missing or be damaged it will be necessary to ask Selmi Srl for another copy.



Structural damage, modifications, alterations or improper repairs can affect the safety protections of the machine thereby making this certification void.

Modifications must be carried out exclusively by Selmi Srl technicians.

Please remember that the lighting of any red light or the emission of an acoustic signal corresponds to an anomaly of the machine; before proceeding you must find the cause of the anomaly.

During maintenance interventions it will be necessary to place on the machine, preferably on the command console, a sign with the following indication: "MACHINE UNDERGOING MAINTENANCE, DO NOT SWITCH ON".

In the event of a particular technical maintenance intervention, inspection or repair, the appointed personnel will have to deactivate (partially or totally) some safety devices, open or remove some protective shields and it will be their task, at the end of the job, to immediately reinstate the functionality of the safety components or the relevant safety shields.

It is forbidden to climb on the machine

Do not touch the electrical wires, switches, buttons, etc. with wet hands

A rounded red emergency stop button is located on the machine.

Whilst reinstating the original working conditions the entrusted individual must verify that at the end of the procedure the normal safety operating conditions of the machine are restored and in particular the safety devices and protective shields affected by the operation.

The entrusted individual must furthermore make sure that at the end of the procedure he/she has not left any foreign objects inside the machine, especially mechanical parts, utensils or devices used during the procedure, which might cause damage to the machine or improper functioning.

In order to safeguard his/her safety, the personnel entrusted with the maintenance, inspection and repairs must, before beginning the activity, disconnect all the supplies to the machine and put into effect all the necessary preventive safety measures, especially those to be carried out manually.



The substitution, disconnection or partial removal of the protections, safety devices and protective structures is forbidden. The same rule applies to the warning labels placed on the machine.

The protections and safety devices must always be maintained in perfect efficiency; in the case of a malfunction they must be immediately repaired or substituted.

If there is a need to carry out a particular specialist intervention on an electrical-electronic part of the machine with the electrical cabinets or the control panels open and especially if the main switch is in the ON position, please pay the maximum attention and work with extreme caution. During such operations the presence of high voltages in the electrical-electronic devices represents a danger to the life of the individual.

Before restarting the processing it is always necessary to make sure that the operating personnel is no longer inside the working area of the machine, indicated with danger signs.

The parts subject to wear and tear during the functioning of the machine must be checked and replaced as soon as they present noticeable signs of wear and tear.

The manufacturer has designed and built the machine to last for a reasonable time with the Client's normal conditions of use in mind; it is however necessary to periodically check with careful attention all of these components

If permanent or cyclical mechanical fissures and structural deformations are encountered, consult the manufacturer immediately or expert technicians who will take the appropriate measures.

2.3. Safety symbols and plaques

The machine has a number of plaques with symbols and/or safety messages stuck to it

Attention

Make sure that all the safety messages are legible. Clean them using a cloth, water and soap. Do not use solvents, naphtha or petrol. Replace the damaged plaques with new ones from Selmi Srl. If a plaque happens to be on a part that is being replaced, make sure that a plaque is present on the new piece.

Adhesive label: ELECTRICAL DANGER



(Positioned on the door of the electrical panel)

Adhesive label: PLEASE READ THE MANUAL



2.4. Safety and protection devices

Attention

The components shown here are particularly important for safety.

In cases of malfunction or wear and tear they must be replaced with spare parts supplied or authorised by the manufacturer.

While the machine is in use all the protection equipment must be correctly installed.

The safety devices present on the machine are:

Emergency push button with mechanical unblock mechanism.

The emergency button stops all motors of the machine.



Il pulsante di emergenza determina l'arresto di tutti gli organi motori della macchina.

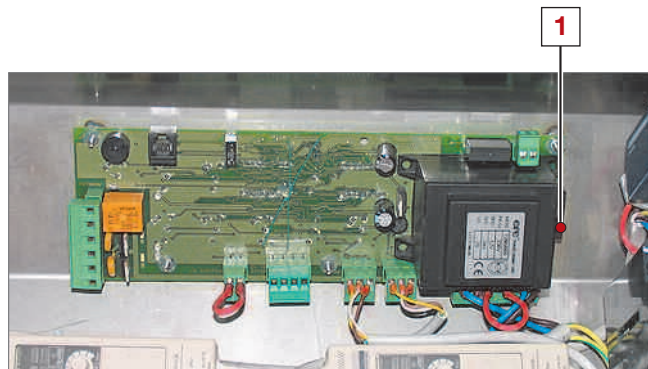
Restart button



The relay, which supplies voltage to the machine, is de-activated when the emergency button is pressed or when there is a power cut on the mains voltage supply.

To activate it press the black restart button placed on its side

Fuses



1 1 Transformer fuse

The fuse, located within the electric panel, is for the protection of the electrical circuits of the machine. A possible voltage spike could blow the fuse. When a fuse blows one should act as follows:

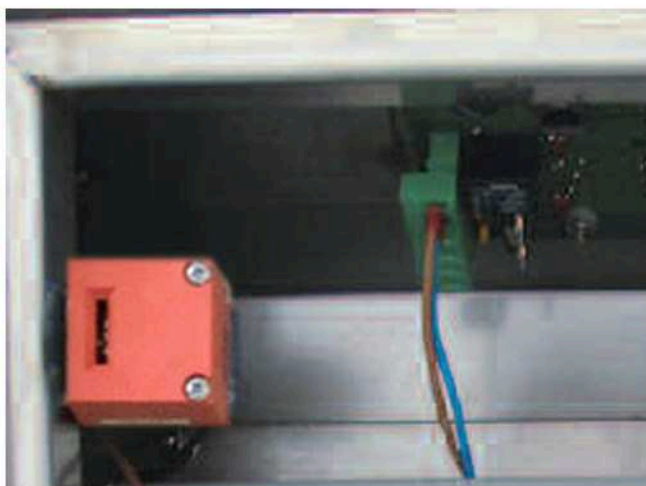
- switch off the machine and disconnect it from the mains;
- open the electric panel and with the help of a tester locate the blown fuse. Replace it with a new one of the same ampere rating.

Warning

If fuses keep blowing it may be an indication of a fault of the electrical apparatus, in this case contact Technical Support.



Safety microswitch



Within the electrical panel there is a safety microswitch which disconnects the voltage every time the panel is opened for maintenance interventions

Attention

Periodically check that the safety microswitch is working properly.

If faulty, please proceed immediately with its replacement.

Protective plates



The machine is equipped with removable protective plates (A) that can be removed with a tool to allow access to the inside of the machine in order to carry out maintenance operations.

The fixed protective plates are screwed into position and can be removed with the appropriate tool; if the screws are removed the fixed protective plates will not remain in place and must be placed on the floor. All the protective plates have smoothed and rounded edges for the safety of the exposed individual and of the operators.

Attention

Do not switch the machine on if the protective panels are removed or not correctly fixed into position with the appropriate screws

Do not forget to remove cloths, keys or utensils used for the maintenance operation from within the machine.

Before closing the protective panels and switching on the machine check carefully and if necessary remove any foreign objects which may be present inside the machine.

2.5. Client's safety measures

The client must arrange for the following safety measures

Provision of an adequate location for installation

- adequate flooring
- normal and emergency lighting
- adequate ventilation
- emergency exits
- Connection to mains voltage
- Adequate means for the collection and subsequent disposal of residues, even hazardous or special ones (oils and grease, broken or waste material, etc.)

Prohibited entrance for non authorised personnel

Fire safety systems and equipment

Training of the operators and the maintenance technicians, adequate basic training and training tailored to the relative tasks.

Instructions to the operators and maintenance technicians: reading and understanding the manual and instructions, layouts, information signs, reproductions of parts of the instructions manual to be placed in appropriate places (e.g. emergency stop, rebooting, what to do in case some of the safety devices are activated)

Keeping a maintenance log book.



2.6. Personal protection equipment

The user, maintenance technicians and operators who carry out functions on the machine must use personal protection equipment that will allow them to eliminate all possible risks derived from the execution of various activities according to the regulations of the plant where the machine is installed.

Warning

The clothing of whoever operates or carries out maintenance on the machine must conform to the essential safety requirements defined by Directive 98/37/EC and other laws in force in the country in which the machine is installed.

Attention

During handling and maintenance operations, individuals must wear adequate clothing to prevent the occurrence of accidents.

In order to avoid mechanical risks such as snagging or dragging, it is prohibited to wear objects such as bracelets, watches, rings or necklaces during the working cycle and during maintenance operations.

2.7. Residual risks

The accurate risk analysis carried out by the manufacturer and archived in the technical file has served to eliminate most of the risks related to the working circumstances of the machine.

The manufacturer's recommendation is to meticulously adhere to the instructions, procedures and recommendations contained in this manual and to the safety norms in force, including the use of protection devices, both integral to the machine and personal.

Attention

As a precautionary safety measure, the correct functioning of the safety devices must be periodically checked

It is strictly prohibited to carry out any type of mechanical or electrical modification so as not to create added dangers and unforeseen risks.

The residual risks present on the machine are:

Attention

If the machine is not used for prolonged periods of time remember to check the expiry date of the foodstuff remaining in the machine.

Restart the processing by introducing some new product.

Risk of improper use in the presence of explosive and flammable substances.

The machine must not be used in environments containing substances in liquid form that can vaporise at ambient temperature or flammable powders or gas.

Risks during machine transportation

It is recommended to fasten the machine, or its parts, lift it with appropriate means to the minimum permitted height, proceed at low speeds and make sure that the people helping with the moving are at a safe distance from the moving object. Before moving the machine make sure that the passage is clear and that there are no mobile objects placed on the machine. It is important that the means of support and transportation is controlled by a person qualified for such a role, so as to avoid unforeseen movements which may be dangerous to the people in the vicinity who are helping with the moving.



Risks of faults to the circuits of signalling, safety, protection and emergency stop.

In the case of a circuit fault the circuits of safety and signalling, the anti-injury protections and the emergency stop can lose their effectiveness, therefore it is asked that their functionality is periodically checked.

Prohibitory signs present on the machine

Due to the risks and their identification, the manufacturer has placed on the machine danger and/or warning stickers in compliance with the norm pertaining to the display of graphic symbols on the machine.

The user should immediately replace the safety and/or warning plaques that become illegible due to wear or damage.

Attention

It is expressly forbidden to remove the safety and/or warning plaques placed on the machine. The manufacturer will not take any responsibility on the safety of the machine if this is not observed.

Risk to life (electrocution)

If it is necessary to operate with the electrical panel open and with live circuits (deactivated microswitch), work only with the help of specialised personnel.

Risk of spreading fire

In case of fire never use jets of water in the vicinity of the apparatus. Disconnect all connections to the mains and use the appropriate CO2 extinguishers located in the building

2.8. Applied Directives

The following directives apply to the machine described in this manual:

- 2006/42/CE machinery Directive
- 2004/108 CE Directive for electromagnetic compatibility
- 2006/95 CE low voltage Directive
- 89/109 CE Directive for materials in contact with food stuffs

2.9. Technical norms adhered to

The machine was designed and tested to conform to the “essential requirements to safety and health” present in attachment I of European Directive 2006/42/CE

The norms used as reference for the design, the realisation and the testing of the machine are listed in the technical file archived at Selmi Srl.

3. Moving and transportation section

3.1. General norms

It is the task of the Client to make sure that the strength of the supporting surface is adequate for the weight of the machine.

The flooring of the workshop must be sufficiently level. Isolate the machine from any potential vibrations coming from other nearby machinery.

Attention

If the machine is lifted at a height over 50mm the workers must absolutely remain at a safety distance of 2 metres from the edge of the machine.

A breakage in the lifting system or an uncontrolled movement constitute a serious danger to the safety of personnel.

During movement of components with dimensions that do not allow sufficient visibility it is suggested to assign more individuals to the task in order to give directions.

Before moving the packed contents make sure that the elevation system and the respective gear (stings, ropes, hooks etc.) are suitable for the load.

Verify the stability of the packed contents before lifting. The ropes must be sufficiently long to allow the lifting of the machine without forcing the protective plates. If stress is applied to these plates it may compromise the precision of the machine.

Personnel not responsible for the movement of the machine must not remain in the area needed for movement.

Weight of machine 100 Kg

Before moving the machine always check the weight and general instructions shown on the packaging.

When a movement is carried out with a forklift lift the load 200mm from the ground and traverse backwards.

Upon lifting the loads keep in mind the height of the ceilings in the environment in which the work is carried out.

Move backwards when going downhill; driving downhill with the load in front will reduce the stability of the forklift.

Before moving the machine make sure that the passage is clear and that there are no mobile objects placed on the machine

Ropes and chains should be protected from sharp corners by making use of corner or edge protectors or other protections (cloths or wood).

Before moving the machine the following preliminary preparatory operations must take place:

- make sure that the machine is not bolted to the floor;
- disconnect the removable parts;
- block all the mobile parts to avoid damaging them during transportation;
- use adequate lifting apparatus for the weights considered.

Note

Keep the original packaging.



4. Installation

4.1. Positioning

Warning

Before positioning the machine please make a careful visual inspection to identify any potential damage incurred during transportation.

In the case where one or more components are found damaged it is important not to proceed any further with the installation and alert the manufacturer of the found anomaly, coming to an agreement with them on the actions to be taken

Attention

The machine must be placed on a level surface.

CE	
ELECTRICAL BOARD	N°
INSTALLED POWER	KW
VOLTAGE	V
PHASES	N°
FREQUENCY	Hz
CURRENT AT FULL LOAD	A
CURRENT AT HIGHER LOAD	A
CUT OUT CAPABILITY	KWA
PROTECTION	IP

4.2. Electrical connections

Attention

The connection to the mains must be carried out by specialised staff who must respect the aspects of the law dedicated to safety and prevention of injury in the workplace. Use the necessary personal protection equipment while connecting the machine to the mains.

The connection to mains electricity must be carried out following the safety norms in force in the country in which the machine is to be used.

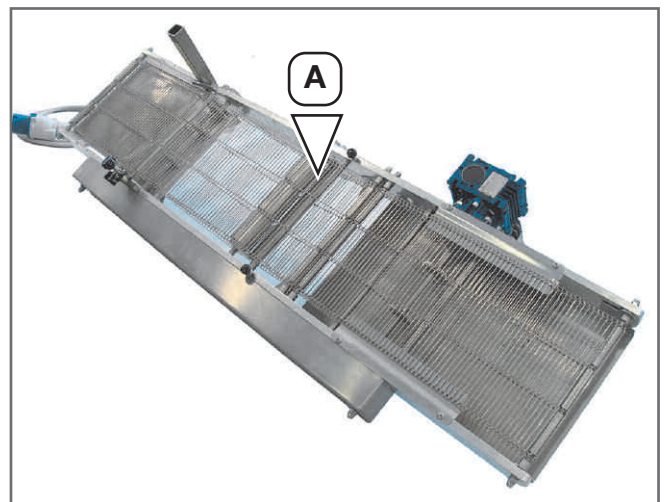
Before connecting the machine to a voltage supply make sure that the voltage supply values match values shown on the apposite plaque.

4.3. Installation of Automatic Truffle

Attention

This operation must be carried out with the machine turned off and the plug disconnected.

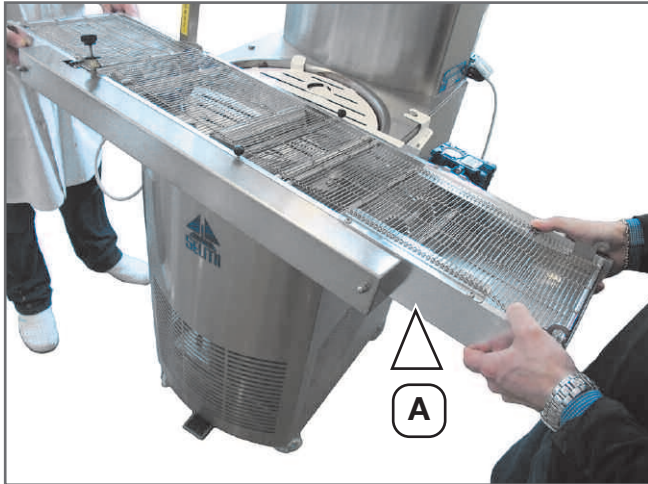
Mount the coating belt (A) onto the tempering machine (Plus, Futura or Top) as follows: mentation du chauffage de la table).



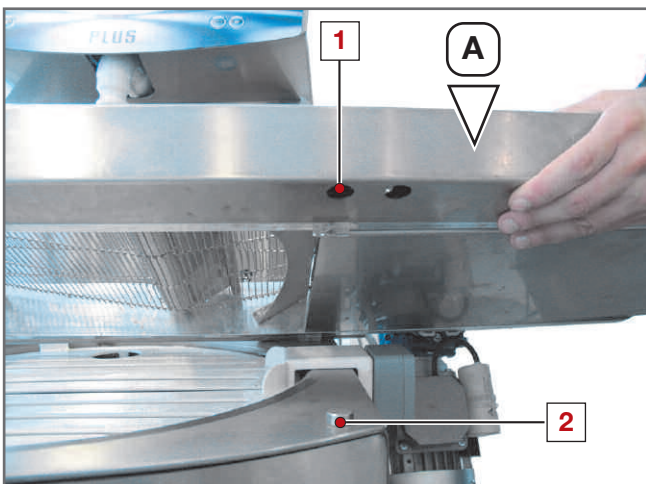
Lift and move the coating belt (A) close to the tempering machine, as shown in the figure.

Attention

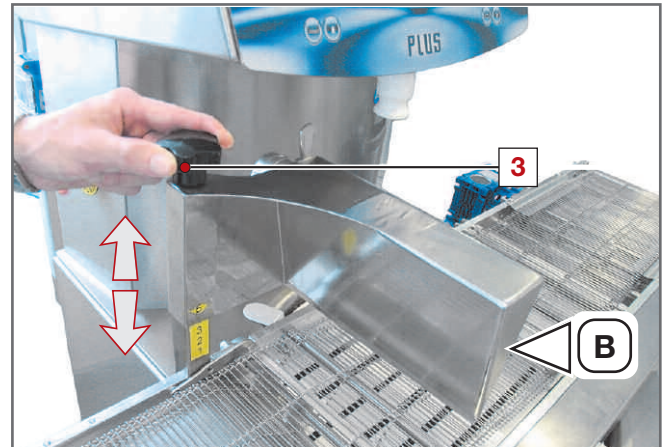
Two people will be needed to carry this out.



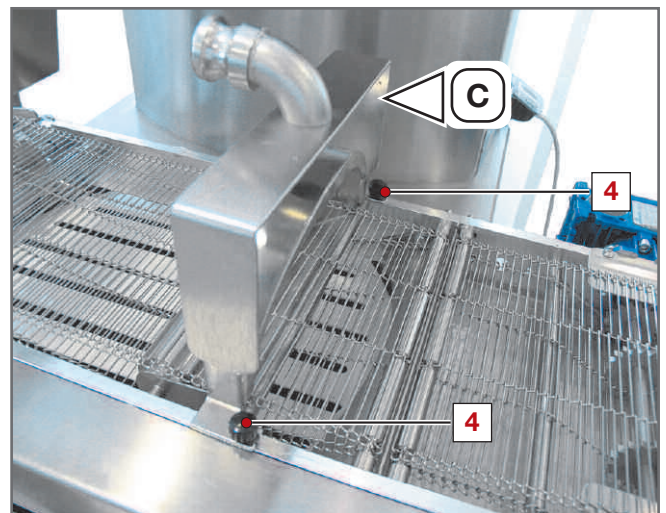
Lock the coating belt (A) onto the tempering machine by aligning the holes (1) on the coating belt with the pins (2) on the tempering machine.



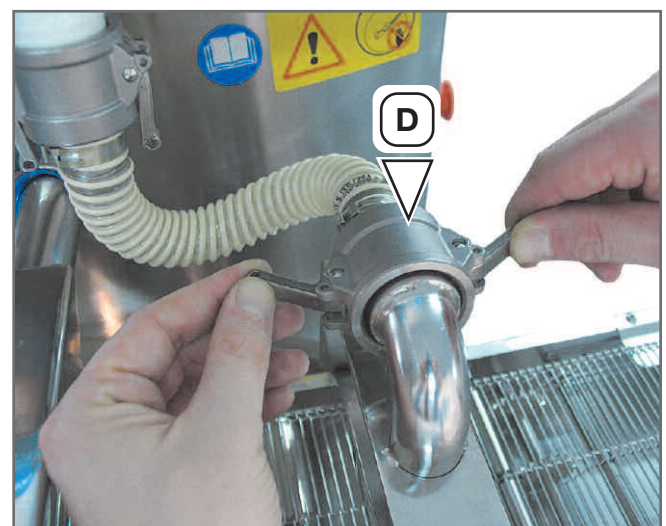
Mount the Blower (B) onto the coating belt and regulate the height using the knob (3).



By making use of the pins (4) mount and lock into position the hopper (C) onto the coating belt.



Fix the tube (D) to the hopper and to the tempering machine chocolate exit nozzle.

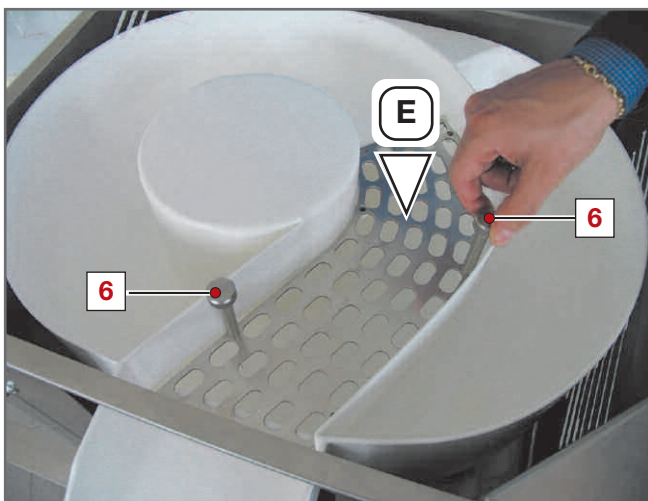




Lift the top cover (5).



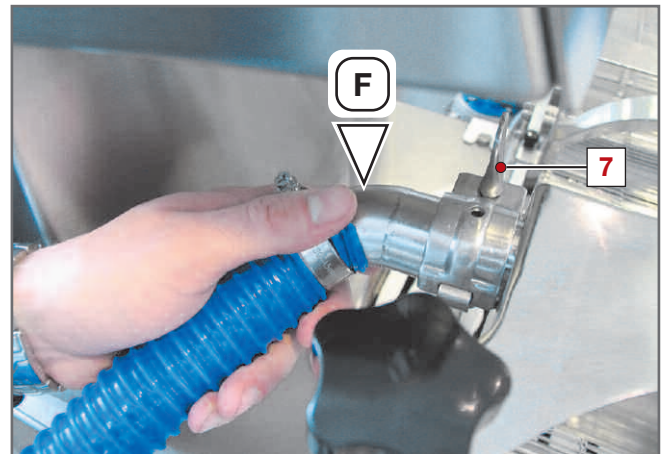
Making use of the pins (6), mount and lock into position the slide (E) inside the processing tank.



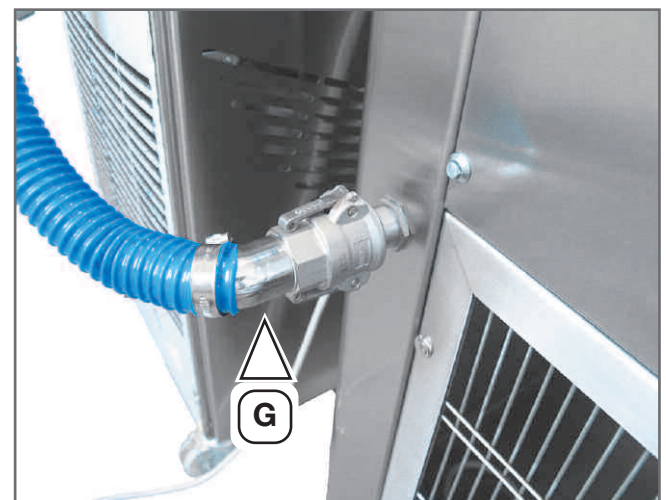
Move the Automatic Truffle next to the tempering machine, making sure that the slit is positioned under the transporting belt as shown in the figure.



Use the threaded pin (7) to connect and lock into position the tube (F) to the blower.



Connect and lock into position the other extremity of the tube (G) to the Automatic Truffle.

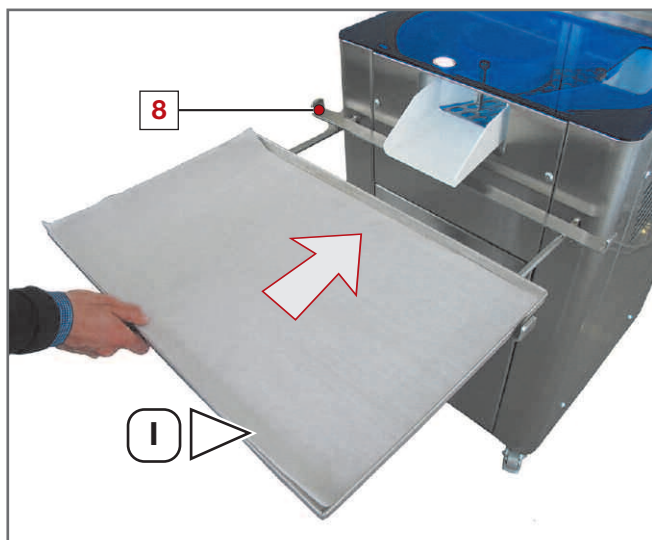


Connect the electrical plug (H) of the transporter belt.





Place the product collection tray (I) on the support (8).



4.4. Commissioning

Make sure that the machine is correctly connected to the mains.

Make sure that there are no particular mechanical anomalies, foreign parts in the working field of the machine and protective plates positioned improperly.

Check the safety systems: anti-injury protections, emergency devices, control devices.

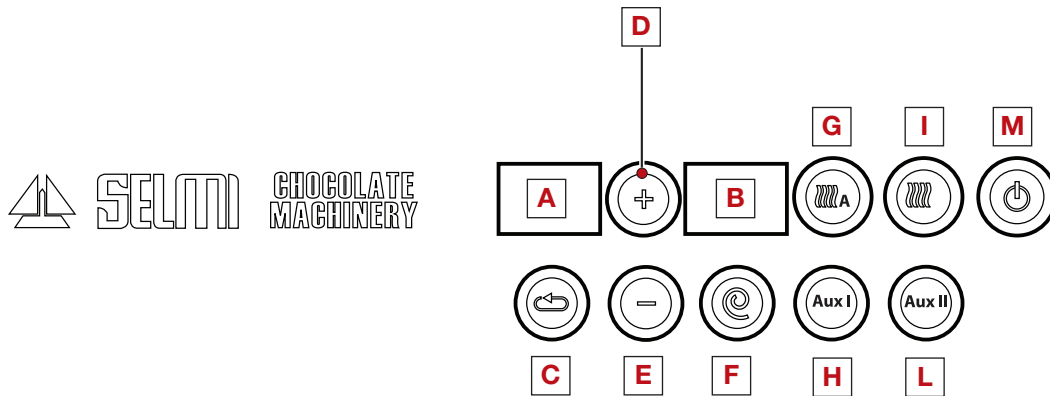
Make sure that the working area is free from potential extraneous objects to the processing and free of oil stains.

Make sure the main control panel and indicator lights are working properly and that the machine correctly responds to the commands given.



5. Operation

5.1. Description of symbols



A		“Vibration intensity” display
B		“Blower speed” display
C		“Vibration activator” button
D		“Increment” button
E		“Decrement” button
F		“Blower activator” button
G		Auxiliary “3”
H		Auxiliary “1”
I		Auxiliary “4”
L		Auxiliary “2”
M		ON/OFF button for the machine

5.2. Function of the controls

- A)** “Vibration intensity” display
Displays the vibration intensity of the vibrator
- B)** “Blower speed” display
Displays the power of the blower
- C)** “Vibration activator” button
This button switches on/off the vibration of the product processing tank.
- D)** “Increment” button
This button increments the values of various functions of the machine.
- E)** “Decrement” button
This button decrements the values of various functions of the machine.
- F)** “Blower activator” button
This button switches on/off the blower.
- G)** Auxiliary “3”
- H)** Auxiliary “1”
- I)** Auxiliary “4”
- L)** Auxiliary “2”
- M)** ON/OFF button for the machine
This button switches ON/OFF the machine

5.3. Position of the user

For the use of the machine only one user is needed positioned in front of the control panel.

5.4. Using the machine

Attention

The use of the machine is forbidden to non authorised personnel who have not been trained in its use.

Operators who carry out permitted activities on the machine must receive adequate instructions with regards to personal protection equipment which eliminates the risks from the execution of various activities.

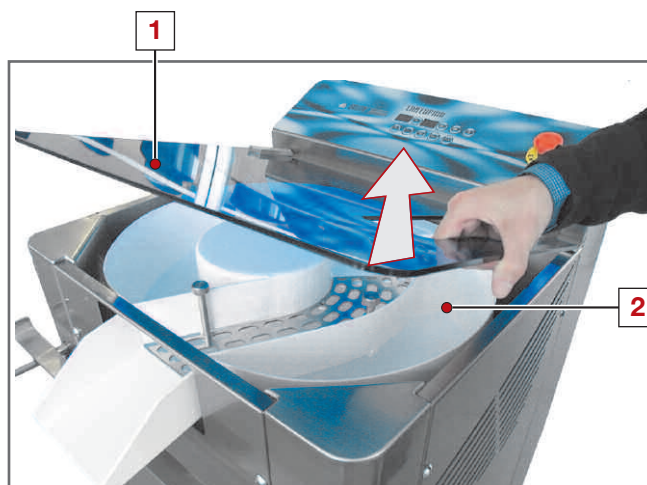
Warning

Before starting the processing make sure that the chocolate in the tempering machine has reached the correct temperature.

Press the main black switch to switch on the machine.

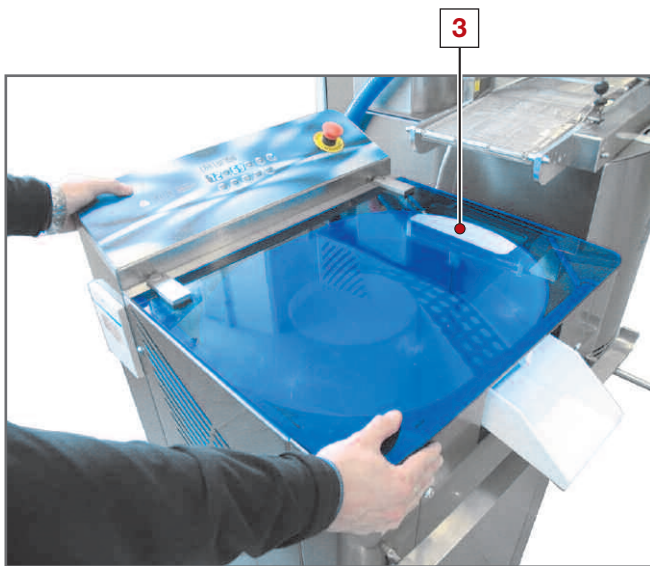







Lift the top cover (1) and fill the processing tank (2) with the granules or the desired powder.





Place the machine next to the tempering machine so that the slit (3) of the top cover is located under the coating belt.

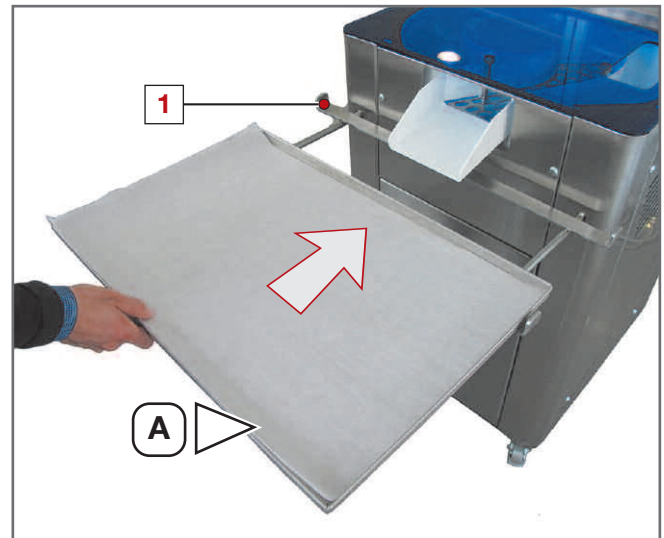


-  Press the ON/OFF button (**M**) to switch on the machine.
-  Press the “vibration activator” button (**C**) to start the vibration of the tank.
-  To regulate the intensity of the tank vibration press and hold the “vibration activator” button (**C**) for about 3 seconds. The figures on the display (A) will start to flash and at this point the intensity of the vibration can be altered by pressing the “increment” (**D**) or “decrement” (**E**) buttons.
-  Press the “blower activator” button (**F**).
To control the flow of air press and hold the “blower activator” button (**F**) for about 3 seconds. The figures on the “blower speed” display (**B**) will start to flash and at this point the air flow can be altered by using the “increment” (**D**) or “decrement” (**E**) buttons.
-  Press the “auxiliary 2” button (**L**) to start the movement of the coating belt.

5.5. Changing the coating product

If the coating product (granules or powder) needs to be replaced the following procedure should be followed:

Place the product collecting tray (A) onto the support (1).



Lift the top cover (2).





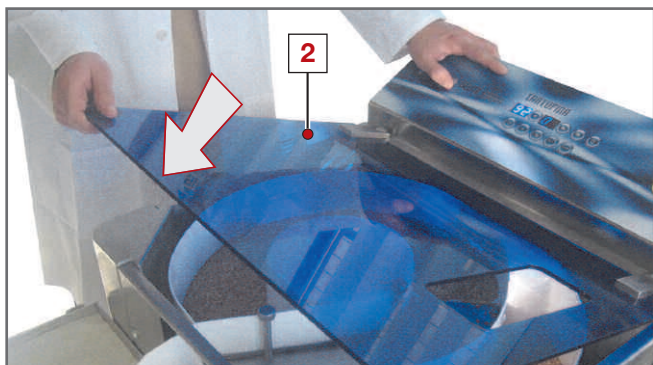
Remove the processing slide (3) by unscrewing the fixing bolts holding it in place (4).



Attach the product exit slide (5) locking it in place with the relevant fixing mechanisms (6).



Close the top cover (2). Press the “vibrator activator” button (C) to start the tank vibrations.



To regulate the intensity of the tank vibrations press and hold the “vibrator activator” button



(C) for about 3 seconds. At this point the figures



on the display (A) will start to flash and by pressing the “increment” button (D) the vibration intensity can be regulated to a frequency of 99Hz.

Note

Once the entire contents of the tank have been unloaded the vibration intensity will have to be brought back to the original value for normal processing.

Unload the product from the tray.



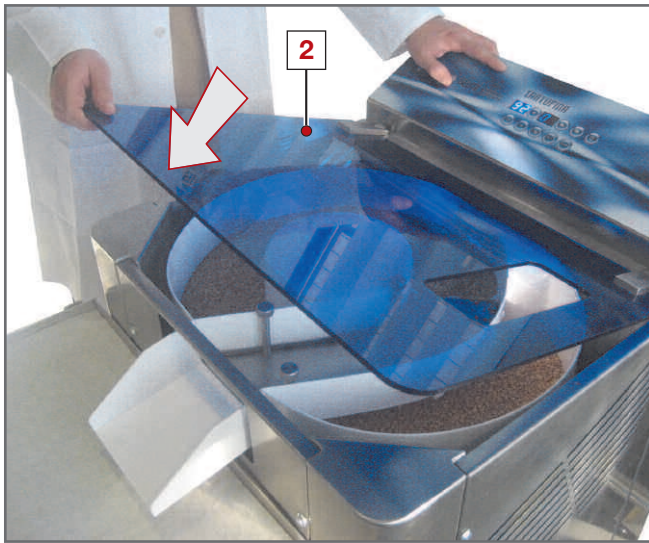
Open the cover (2), detach the product exit slide (5) and re-attach the processing slide (3) that was previously removed, locking it in place with the relevant fixing mechanisms.

Insert the new product into the processing tank.





Close the top cover (2).



At this point a new processing cycle can commence.

5.6. End of the working cycle

Once the working cycle is finished the following will need to be carried out:



Press the “blower activator” button (F) to stop the blower.



Press the “vibration activator” button (C) to stop the tank vibrations.



Press the ON/OFF button (M) to switch off the machine.

Press the main red switch to power down the machine.



6. Maintenance

6.1. General information

Attention

The product present in the tank or internally to the machine must never come into contact with water or other liquids. There is a risk of formation of moulds leading to bacterial presence.

Attention

If a bacterial presence is found on the product derived from the processing carried out with this machine model it will be necessary to stop production immediately and contact the company Selmi for the disinfection procedures.

Warning

Extraordinary maintenance on the machine is exclusively carried out by the manufacturer's technicians. The training course carried out only gives the client the instructions for ordinary maintenance. The manufacturer suggests to carry out a full service every two years to guarantee the safety conditions.

Note

The maintenance technician must note on an appropriate logbook all the interventions carried out on the machine.

This section describes the ordinary maintenance operations necessary to guarantee the correct functioning of the machine.

Any other intervention that may be necessary to eliminate anomalies or faults must be expressly authorised by the manufacturer.

For important repairs it is recommended to turn to the manufacturer whose specialised personnel, possessing the technical expertise acquired from the original manufacturing in the factory, is always reachable and able to intervene quickly

For maintenance or replacement of commercial components installed on the machine keep to the instructions provided directly by the manufacturers and present on their manuals or specific catalogues.

6.2. General safety practice

Maintenance work must be carried out by specialised personnel who are trained in specific sectors, which for this machine are:

- mechanical maintenance technician;
- electrical maintenance technician.

It is the duty of the Safety Officer to ascertain the professionalism and competence of the abovementioned people.

Before starting a maintenance procedure the safety officer must:

Clear the working area of extraneous materials and people.

Make sure that the necessary tools are conveniently available to the maintenance technician and that they are in good condition.

Make sure that the lighting is sufficient and provide, if necessary, portable 24V lights

Make sure that the maintenance technician is equipped with the necessary approved personal protection equipment for the specific operation (gloves, safety glasses, shoes, etc.).

Make sure that the maintenance technician has carefully read the instructions contained in this manual and knows perfectly the functioning of the machine

Before starting a maintenance procedure the maintenance technician must disconnect all the supplies to the machine (electrical, oil, pneumatic) and make the machine safe.

At the end of the procedure and before restarting service, the maintenance technician must check the entire working cycle, the functionality of the safety devices and the integrity of the protections.



Work on motors or on other electrical components must only be carried out by the electrical maintenance technician specially trained and authorised by the Safety Officer

Attention

Following every maintenance intervention it is the Safety Officer's duty to ascertain the safety conditions of the machine and its protection devices.

During maintenance proceedings it is recommended to place a sign on the machine forbidding its movement

The maximum reliability of the machine and a minimum maintenance cost are the results of a planned program of maintenance and inspection scrupulously followed during the entire life of the machine.

Strictly respect the maintenance time intervals and space them out according to the specific necessities in relation to the productive cycle of the machine

Always use tools which are in good working order and appropriate for the task at hand; the use of inappropriate or inefficient tools can cause serious damage.

Unless expressly required for the solution of a breakdown, never interfere with the adjustments and positioning of the limit microswitches; their tampering can cause serious damage to the machine.

During disassembly distinguish and take note of the individual parts so as to assure their correct reassembly.

Before assembling a block always cover with a thin layer of oil the internal parts and coupled surfaces. Replace all the seals and gaskets with original parts before reassembling the components

Always check for the presence of earth connections and their compliance to the norms.

Before starting the machine always check that the personnel responsible for the maintenance is at a safety distance and that tools or materials have not been left in the vicinity of the machine.

6.3. Cleaning the machine

Before beginning any checking or maintenance operations it will be necessary to carefully remove any residual product present on the machine by vacuuming or using a damp cloth.

Before beginning a new work cycle carefully clean the processing tank by using a jet of air or a cloth.

Note

The coating belt can be washed with water as long as care is taken not to wet the ratio-motor.

6.4. Maintenance of mechanical parts

Attention

Always use personal protection equipment such as gloves, anti-injury shoes, etc.

Carry out the dismantling and movement of heavy components (over 30Kg) with the help of block and tackles or cranes

If detailed diagrams are not available take note of every item and mark its location so as to avoid errors in reassembling

Always use spanners of the correct size

Immediately replace screws or bolts which show signs of wear on the threads and the heads.

When screwing and unscrewing do not use the spanners in conjunction with extensions to augment the torque. If dynamometric spanners and special tools are used verify that the calibration is appropriate for the component.

Special care must be taken when using pneumatic or hydraulic tools.

Before dismantling heavily oxidised parts spray them with adequate liquids (Svitol, etc.)

Before reassembling cover thinly with oil all the coupled surfaces.



During reassembly pay particular attention to anti-slip devices used by the manufacturer (flat washers, elastic washers, etc.), always replacing the worn out elements.

The anti-slip nuts and ring nuts having a plastic blocking ring must be replaced at every reassembly since the fatigued material will lose its functionality

6.5. Maintenance of electrical system

Attention

Always use personal protection equipment such as gloves, anti-injury shoes, etc

Before taking any action on electrical components disconnect the mains-side supply (main power switch)

Always carefully check the isolating covers, the clamps and the grip of the sheaths

This must always conform to the level of protection stated by the manufacturer.

Immediately replace the damaged gaskets and sheaths.

Check and restore, if necessary, the identification labels and stickers of the wires and of the components keeping to the indications shown in the diagrams.

Make sure that the hazard indications and explanatory plaques required by the norms are perfectly legible and firmly fixed.

Do not use compressed air for cleaning. Use exclusively vacuum machines.

The replacement of faulty control components must always be carried out according to the norms (colours, dimensions, protections, etc.)

In the case of replacement of the microcircuit board connect the wires onto the new board as shown in the figure.

6.6. Components subject to wear and tear and fatigue

Attention

Components subject to wear and tear due to their work must be rigorously checked periodically and replaced when they show noticeable signs of wear.

The manufacturer has designed and built the machine to last for a reasonable amount of time taking into consideration the normal conditions of use of the Client; it is nevertheless necessary to periodically check all of these components carefully.

If mechanical fissures or permanent or cyclical structural deformations are found immediately contact the manufacturer and the expert technicians who will take the necessary steps.

The electrical wires will lose their isolating properties with time, especially if exposed to heat, humidity and low temperatures.

Verify their integrity with the help of expert technicians.

All electrical components having mechanical moving parts during the working cycle (buttons, selectors, relays, etc.) are guaranteed by the manufacturer for a high, but always limited, number of cycles.

Frequently check their condition and consult with technical experts for the potential periodic replacement within their guaranteed lifespan.



6.7. Planned preventive maintenance

EVERY DAY

Emergency button check

Check the functionality of the emergency button



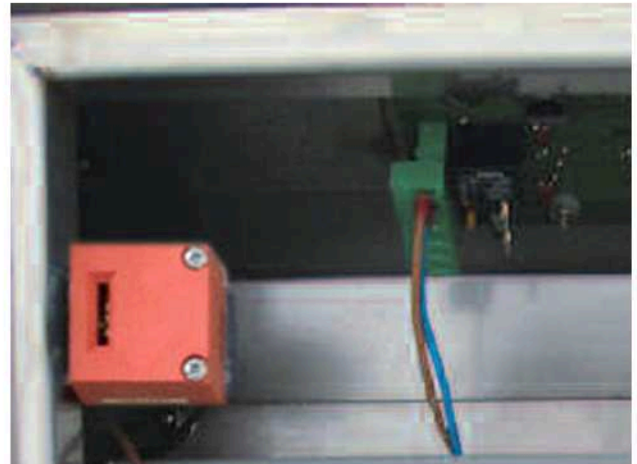
Clean the processing tank and the product exit slide.



EVERY SIX MONTHS

Check safety microswitch

Check the correct functionality of the safety microswitch for the opening of the electric panel door.



Warning

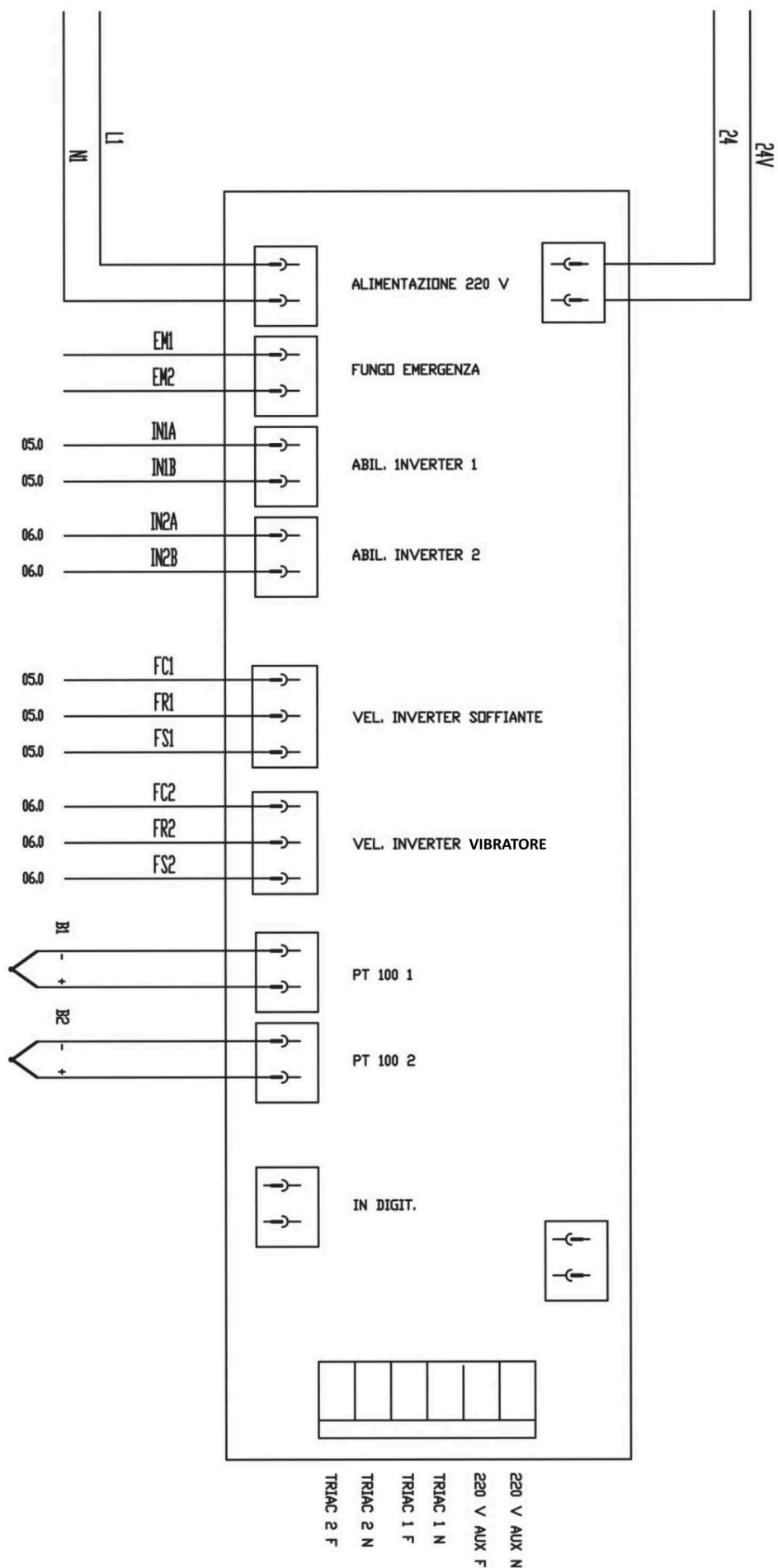
Selmi suggests carrying out a full service every two years to maintain the safety conditions of the machine over time.

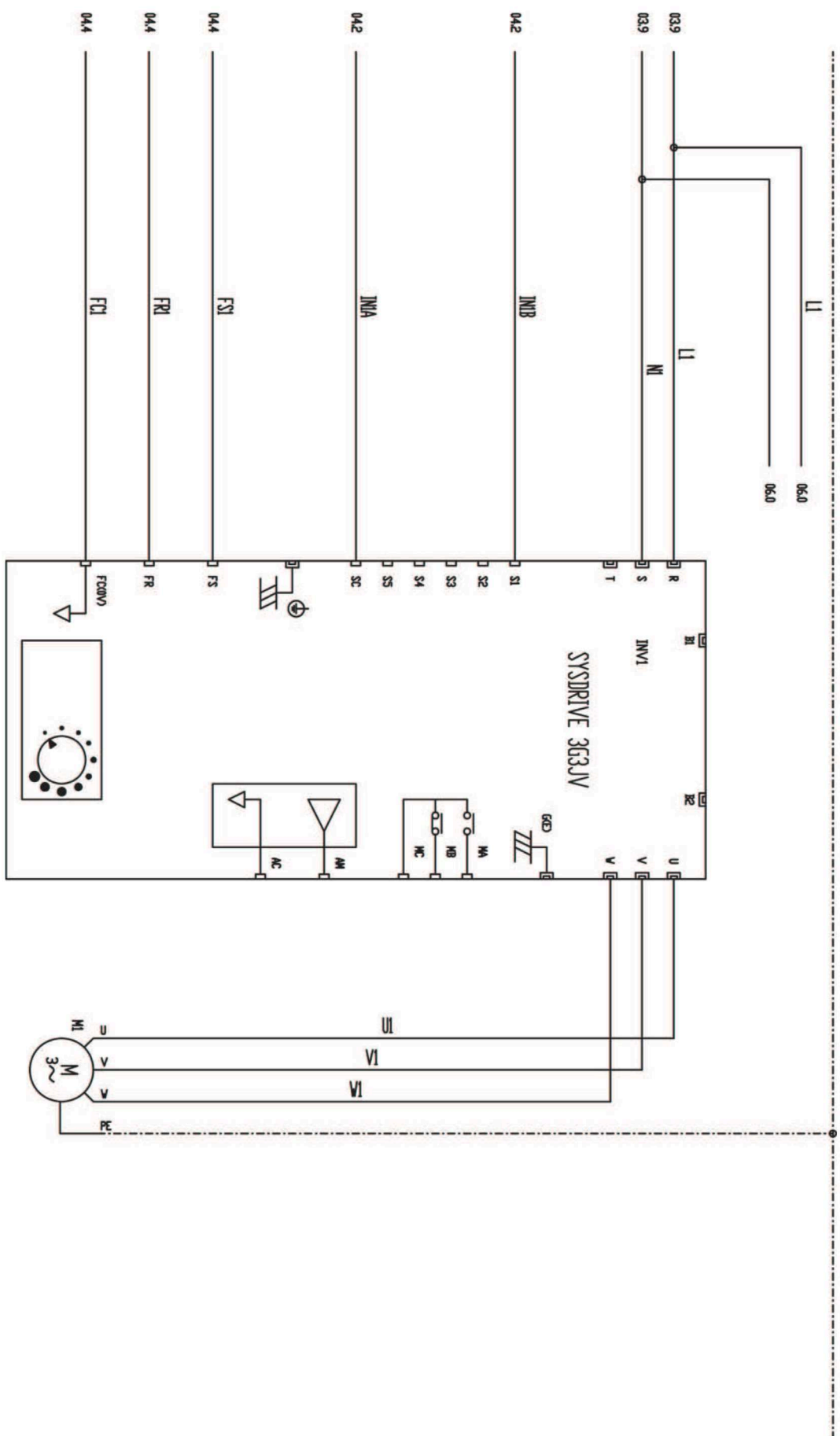


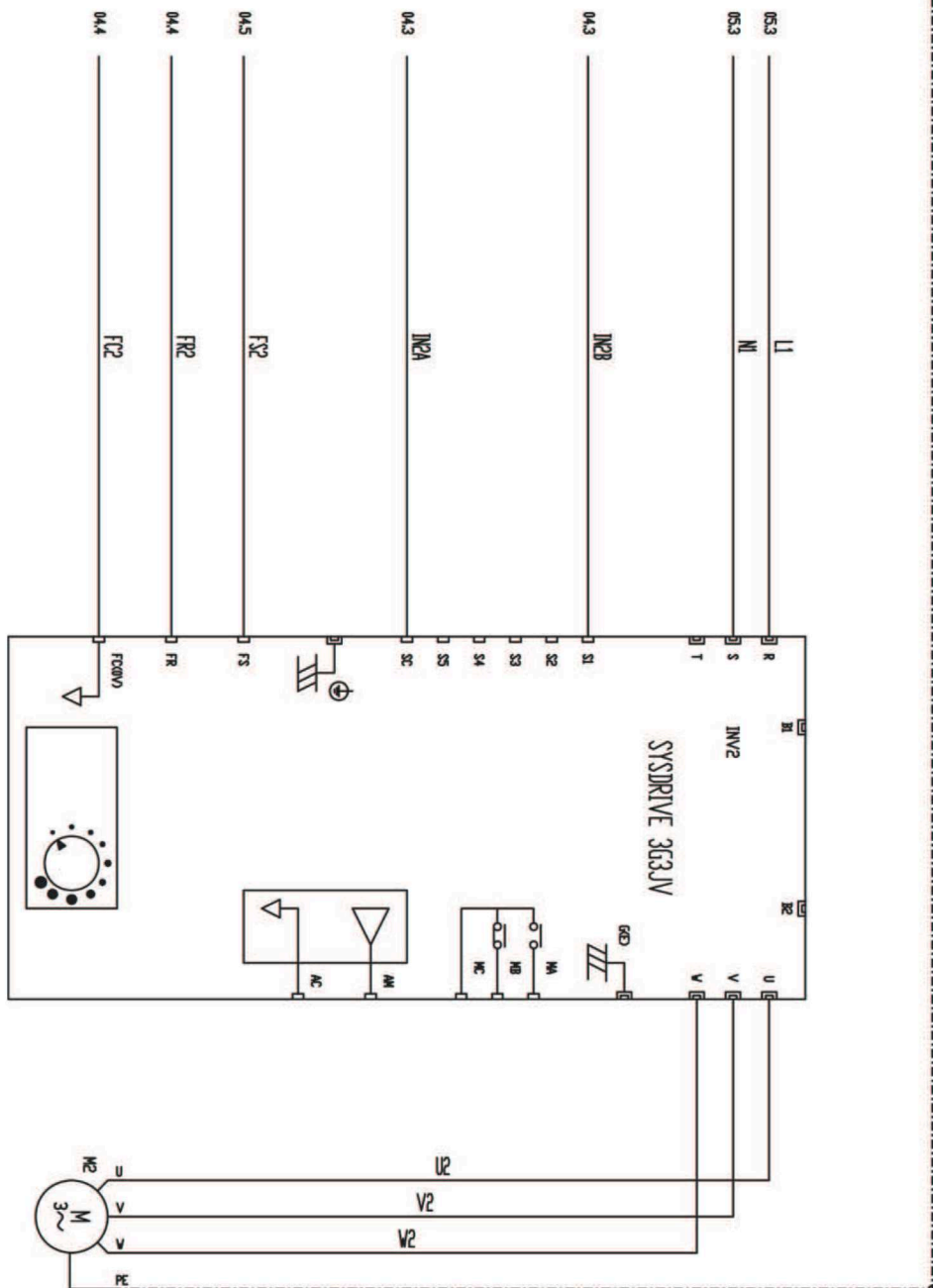
6.8. Legend of symbols

Simbolo	Radice	Funzione
	QF	SEZIONATORE AUTOMATICO DI POTENZA AUTOMATIC POWER DISCONNECTING SWITCH SECTIONNEUR AUTOMATIQUE DE PUISSANCE SECCIONADOR AUTOMATICO DE POTENCIA AUTOMATISCHER LEISTUNG TRENNSCHALTER
	QM	INTERRUTTORE GENERALE AUT MAGNETICO AUT MAIN GENERAL SWITCH INTERRUPTEUR GENERAL AUT MAGNETIQUE INTERRUPTOR GENERAL AUT MAGNETICO GENERALSCHALTER AUT MAGNETISCH
	QF	INTERRUTTORE AUTOMATICO DI POTENZA POWER SUPPLY SWITCH INTERRUPTEUR AUTOMATIQUE DE PUISSANCE INTERRUPTOR AUT. DE POTENCIA LEISTUNGSSCHALTER AUTO
	QM	INTERRUTTORE AUT MAGNETICO DIFFERENZIALE AUT DIFFERENTIAL MAGNETIC SWITCH INTERRUPTEUR AUT MAGNETIQUE DIFFERENTIEL INTERRUPTOR AUT MAGNETICO DIFFERENCIAL AUT DIFFERENTIALEN MAGNETISCHEN SCHALTER
	KM	BOBINA CONTATTORE POTENZA POWER CONTACTOR REEL BOBINE CONTACTEUR PUISSANCE BOBINA CONTACTOR POTENCIA LEISTUNGSKONTAKTOR ROLLE
	KA	RELE' AUSILIARIO AUX RELAY RELE AUX RELE AUXILIAR NEBENRELAIS
	YV	ELETTROVALVOLA SOLENOID VALVE ELECTROVANNE ELECTROVALVULA ELEKTROVENTIL
	K	CONTATTO AUSILIARIO NORMALMENTE CHIUSO AUX CONTACT NORMALLY CLOSED CONTACT AUX NORMALMENT FERME CONTACTOS AUX NORMALMENTE CIERRE NEBENKONTAKT NC
	K	CONTATTO AUSILIARIO NORMALMENTE APERTO AUX CONTACT NORMALLY OPENED CONTACT AUX NORMALMENT OUVERT CONTACTOS AUX NORMALMENTE ABIERTO NEBENKONTAKT NO
	KM	CONTATTI CONTATTORE DI POTENZA POWER CONTACT CONTACT CONTACTEUR PUISSANCE CONTACTOR POTENCIA LEISTUNGSKONTAKT
	K	CONTATTI AUSILIARI IN SCAMBIO RELE' RELAY EXCHANGE AUX CONTACTS CONTACT AUX EN ECHANGE CONTACTS AUX EN CAMBIO NEBENKONTAKTE RELAIS
	SP	PRESSOSTATO PRESSURE GAUGE PRESSOSTAT PRESOSTATO DRUCKWÜCHTER
	SQ	FINECORSA NC NO LIMIT SWITCH NC FIN DE COUSE NF TOPA DE RECORRIDA NC ENDAUSCHALTER HC

Simbolo	Radice	Funzione
	SQ	SENSORE INDUTTIVO QUADRATO SQUARE INDUCTIVE SENSOR SENSEUR INDUCTIF CADRAT SENSOR INDUCTIVO CUADRATO QUADRATISCHER INDUKTIVSENSOR
	L	INDUTTANZA INDUCTOR INDUCTANCE INDUCTANCIA INDUKTIVITÄT
	S	PULSANTE MANUALE NORMALMENTE APERTO MANUAL PUSH BUTTON NORMALLY OPENED POUSOIR MANUEL NORMALMENT OUVERT BOTON MANUAL NORMALMENTE ABIERTO HANDKNOPF HO
	S	PULSANTE MANUALE NORMALMENTE CHIUSO MANUAL PUSH BUTTON NORMALLY CLOSED POUSOIR MANUEL NORMALMENT FERME BOTON MANUAL NORMALMENTE CIERRE HANDKNOPF HC
	SB	PULSANTE EMERGENZA EMERGENCY PUSH BUTTON POUSOIR URGENCE BOTON EMERGENCIA FESTER NOTKNOPF
	SA	SELETTORE A CHIAVE DUE POSIZIONI TWO POSITION SWITCH KEY SELECTEUR CLE DEUX POSITION SELECTOR LLAVE DOS POSICION SCHLÜSSELSCHALTUNG ZWEI STELLUNGEN
	HL	LAMPADA LAMP LAMPE LAMPARA LÄMPCHEN
	HL	SEGNALAZIONE QUADRO IN TENSIONE ELECTRIC PANEL VOLTAGE SIGNALING SIGNALISATION TABLEAU ELECTRIQUE SENALACION CUADRO EN TENSION SPANNUNGSANZEIGE SCHALTFELD
	M	MOTORE TRIFASE THREE PHASE MOTOR MOTEUR TRIPHASE MOTOR TRIFASE DREIPHASIGER MOTOR
	M	MOTORE CORRENTE CONTINUA DC MOTOR MOTEUR COURANT CONTINU GLEICHSTROM MOTOR MOTOR CORRIENTE CONTINUA
	XP	PRESA SERVIZIO SOCKET SERVICE PRISE SERVICE TOMA DE SERVICIO BETRIEBSDOSE
	X	MORSETTO TERMINAL BLOCK ETAU ABRAZADERA KLEMME
	XC	MORSETTO CONNETTORE CONNECTOR CONTACT ETAU ABRAZADERA CONECTOR ANSCHLUSSKLEMME









7. Spare Parts Section

7.1. Spare parts



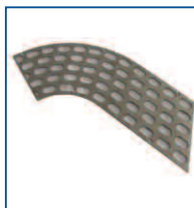
AT 001
Transmission chain



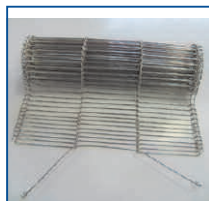
AT 008
Product exit slide



AT 002
Coating section mesh



AT 009
Product processing slide



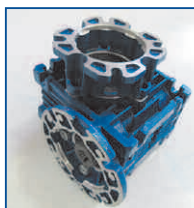
AT 003
Loading mesh



AT 010
Electric motor



AT 004
Vibration regulation knob



AT 011
Reducer



AT 005
Pivoting wheel



AT 012
Blower filter



AT 006
Chocolate distribution hopper



AT 013
Blower



AT 007
Crumbs collector



AT 014
Vibrator



AT 015
Spring



AT 022
Microswitch



AT 016
Tube including attachments



AT 023
Electronic board



AT 017
Tubing with clamps



AT 024
Single phase 220V plug



AT 018
Ventilation tubing with clamps



AT 025
Emergency contact



AT 019
Low threshold coil



AT 026
Red mushroom shaped button



AT 020
Thermomagnetic switch



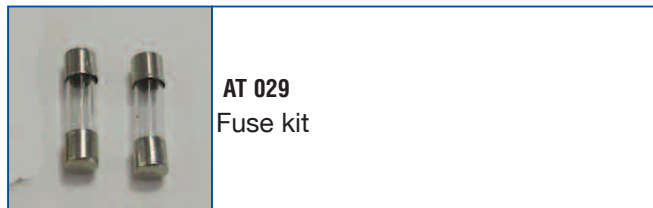
AT 027
Inverter



AT 021
Container of thermomagnetic switch



AT 028
Inverter filter



Use exclusively original SELMI spare parts

Selmi Srl assumes no responsibility for the use of non original replacement parts



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C.F. e P.I. 02668130046 - REA n° 226733 - C.C.I.A.A. Cuneo R.I. di Cuneo - n° 53832/98 - C.I.IT 02668130046