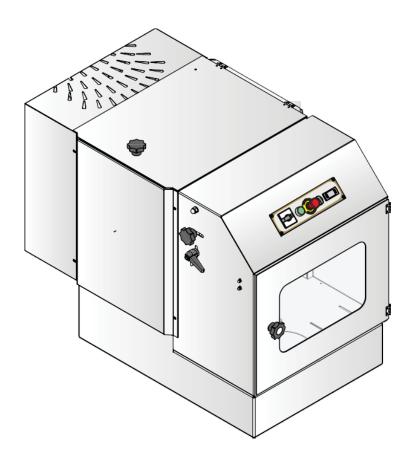


BM2 MAXI PORTIONING MACHINE





INSTRUCTION AND MAINTENANCE MANUAL

EN





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1 GENERAL INFORMATION

1.1 Premise

This instruction and maintenance manual contains the information and what is deemed necessary for the knowledge, proper use and normal maintenance of the PORTIONING MACHINE, hereinafter also referred to as the machine, produced by the manufacturer indicated in paragraph 1.3.

The above does not constitute a complete description of the various parts or a detailed explanation of their operation, but the user will find what is normally useful to know for safe use and good conservation of the machine.

The regular operation, durability and operating economy of the machine itself depend on the observance and fulfilment of the above, together with careful maintenance.

ATTENTION



Failure to comply with the provisions of this instruction and maintenance manual, operational negligence, incorrect use of the machine and the execution of unauthorized modifications, may be cause for the cancellation by the Manufacturer of the warranty that it gives to the machine.

ATTENTION



The Manufacturer also declines any and all responsibility for direct and/or indirect damage due to the reasons set out above.

1.1.1 Using and Storing the Manual

The purpose of this instruction and maintenance manual is to provide all the necessary information so that, in addition to correct use of the machine, it is possible to manage it in the most autonomous and safe way possible.

Before carrying out any manoeuvre on the packaging and the machine, as well as before making it operational, operators and qualified technicians are required to carefully read the instructions contained in this instruction and maintenance manual and in the annexes, carefully following the instructions.

If you have any doubts about the correct interpretation of the information in the documentation, please contact the manufacturer to obtain the necessary clarifications.

The instruction and maintenance manual is divided into chapters, paragraphs and sub-paragraphs: the table of contents page provides

So an easy way to find any aspect of interest.

The material contained in this document is provided for informational purposes only and is subject to change without warning.

Keep this instruction and maintenance manual, and all accompanying documentation, in good condition, legible and complete in all their parts; *It is forbidden to remove, rewrite or otherwise modify the pages of the instruction and maintenance manual and their contents.* Keep the documentation near the machine, in a place that is accessible and known to all operators.

If it is damaged or lost, a copy must be requested immediately from the Manufacturer.



DANGER

Read this instruction and maintenance manual carefully before operating the machine. Otherwise, you may not recognize any dangerous situations that may cause serious injury to yourself and others.

The manufacturer declines all responsibility for any damage to persons, animals and property caused by failure to comply with the warnings and operating methods described in this instruction and maintenance manual.

1.1.2 Symbols used in this manual

The following are the various symbols used in the instruction and maintenance manual to highlight Information of particular importance:

DANGER



This symbol indicates information and warnings that failure to comply with may result in injury to the person. The symbol also distinguishes information that failure to comply with may result in extensive damage to the machine.



ATTENTION



This symbol indicates information and warnings that failure to comply with may result in damage to the machine.



NOTE: This symbol distinguishes information useful for the correct operation of the machine.

1.1.3 Terminology and definitions

The following are definitions of specific people and situations, which may directly involve the and/or persons in direct contact with the machine itself.

- USER: is the person, or the entity or the company, who has purchased or rented the machine and who intends to use it for the
 - designed for this purpose. His is the responsibility of the machine.
- **EMPLOYER:** the natural or legal person who has an employment relationship with an employee and who is responsible for the company or establishment. He is responsible for assessing the risks of the machine(s) located "upstream" or "downstream" and/or in servicing the machine supplied. His/her is responsible for the choice, training, information and assignment of the operator(s).
- DANGER: A potential source of injury or damage to health.
- DANGER ZONE: Any area in and/or near a machine where the presence of a person poses a risk to the safety and health of that person.
- **EXPOSED PERSON:** Any person who is wholly or partly in a hazardous area.
- **OPERATOR:** The person or persons responsible for installing, operating, adjusting, cleaning, repairing and moving a machine or carrying out maintenance.
- RISK: Combination of the likelihood and severity of an injury or damage to health that may arise in a hazardous situation.
- GUARD: An element of the machine used specifically to provide protection through a barrier material.
- PROTECTIVE DEVICE: device (other than a guard) that reduces the risk, alone or in combination with a guard.
- INTENDED USE: The use of the machine in accordance with the information provided in the operating instructions.
- **REASONABLY FORESEEABLE MISUSE:** the use of the machine in a manner other than that indicated in the operating instructions, but which may result from easily predictable human behavior.
- **LOCKOUTTAGOUT PROCEDURE:** it is a method for carrying out the safe isolation of the power sources of a machine and allows to raise the level of safety in maintenance, ordinary and extraordinary, through the control of hazardous energy (electrical, mechanical).

1.1.4 Numbering of figures and tables

The numbering of the figures is composed of the abbreviation of the term "figure" followed by a progressive number (e.g. Fig. 1). As far as the numbering of the tables is concerned, it is composed of the abbreviation of the term "table" followed by a progressive number (e.g. Table 1). In both cases, the numbering is accompanied by an explanatory caption.

1.1.5 Who the manual is for?

This instruction and maintenance manual is the essential tool for personnel who, in various capacities, takes care of the machine in various tasks, such as:

- Machine transport and handling workers;
- Installation and various connection workers;
- Operators in charge of processing;
- · Maintenance and final demolition workers.

ATTENTION



The installation, connection and initial start-up of the machine must be carried out exclusively by professionally qualified and trained personnel.

1.2 Staff description

The instruction and maintenance manual in question is aimed at both the operator and the technicians qualified to install and maintain the machine.



PERSON IN CHARGE OF TRANSPORTING AND HANDLING THE MACHINE. He is a professionally trained operator, in compliance with the legislation in force in the country of use, authorized to carry out the movement of the machine in absolute compliance with the instructions given in this Instruction and Maintenance Manual.



INSTALLATION AND VARIOUS CONNECTIONS OFFICER. He is a qualified technician, qualified to perform operations on mechanical parts, electrical devices and pneumatic devices.



OPERATOR IN CHARGE OF PROCESSING. It is a professionally trained operator, in compliance with the legislation in force in the country of use, authorized to carry out only the start-up, use, equipment, set-up (compulsorily with the guards enabled and the machine switched off) and the shutdown of the machine in absolute compliance with the instructions given in this Instruction and Maintenance Manual.



MAINTENANCE AND FINAL DEMOLITION WORKER. He is a qualified technician, qualified to perform operations on mechanical parts, electrical devices and pneumatic devices.

ATTENTION



The operators in charge of the work must not carry out operations reserved for maintenance technicians or specialized technicians. The Manufacturer is not liable for damages resulting from failure to comply with this prohibition.

1.3 Company name and address of the Manufacturer

Oem Ali Group S.r.l. a Socio Unico

Viale Lombardia, 33

Bozzolo (MN) Italy

P. Iva 13239980967

1.4 Marking data

The identification plate of the machine shows the following data:

- · Address of the manufacturer;
- CE marking;
- · Designation;
- Machine model;
- Year of construction;
- Serial number.

1.5 EC Declaration of Conformity

The EC declaration of conformity accompanying the machine is an annex to this Maintenance Instruction Manual.



1.6 Assistance

For any need relating to the use, maintenance or resolution of problems concerning the machine, the User is requested to contact the manufacturer directly, specifying the identification data of the machine shown on the identification plate. For the identification data of the Company, see paragraph 1.3.

1.7 Guarantee

The Manufacturer guarantees its machine free from defects and defects of material or workmanship for a period of twelve months from delivery (the date of the delivery document to the User will be valid), reduced proportionally in the event of operation exceeding the working hours considered usual for the specific type of machine.

This warranty is expressed only in the free repair or replacement of those parts which, after a careful examination carried out by the technical department of the Manufacturer, are found to be defective. The warranty, with the exclusion of any liability for direct or indirect damage, is limited to material defects only, and ceases to have effect if the returned parts are in any case disassembled, tampered with or repaired outside the factory. In any case, the document of delivery to the User will be valid.

In any case, the buyer remains responsible for the costs related to the replacement of lubricants, transport costs, any customs duties and VAT

Replacements or repairs of parts under warranty will not in any case extend the terms of the warranty.

Each operator-machine iteration has been taken into consideration by the Manufacturing Company. Nevertheless, it is understood that nothing can replace the experience, adequate training and common sense of the operators.

Any failure by the User to comply with the provisions of this Instruction and Maintenance Manual, or the improper use of the machine, relieves the Manufacturer of responsibility for the consequences of the transgression.

1.7.1 Warranty Exclusions

Damage resulting from negligence, negligence, misuse and improper use of the machine or incorrect operator manoeuvres is excluded from the warranty.

The removal of the safety devices with which the machine is equipped will automatically void the warranty and the responsibilities of the Manufacturer.

In addition, the warranty and liability are void if non-original spare parts are used. The User/User may in any case assert his/her rights to the warranty only when he/she has complied, in addition to what is stated in this instruction and maintenance manual, also with any conditions concerning the provision of the warranty set out in the supply contract.

The warranty coverage starts from the date of delivery (the date of the delivery document to the User will be valid) limited to those parts that have construction defects with the exception of the engines, the electrical system, all connections and all those parts subject to natural wear and tear.

Furthermore, all parts damaged by transport, poor and incorrect installation or maintenance, negligence or inability to use are not covered by the warranty.

The warranty is valid only against the original purchaser.

The warranty is void if the machine has been tampered with, modified or repaired by personnel who have not authorized by the Manufacturer.

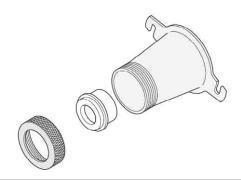
The repair or replacement of defective parts normally takes place at the headquarters of the Manufacturer, otherwise it is carried out at the User's premises with the charge of the travel, board and lodging expenses of the personnel sent for the repair or replacement of the parts. The User is also responsible for the working and travel hours of the staff; the hourly cost will be calculated according to the tables of the Manufacturer. After the warranty period indicated above, the interventions will be carried out by charging the costs of labor (always according to the tables of the Manufacturer), travel, board and lodging, the cost of the replaced parts and any transport of the same. The User who is not up to date with payments will not be able to take advantage of the Right of Guarantee.



2 DESCRIPTION OF THE MACHINE

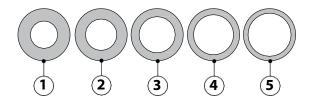
2.1 Machine equipment

The PORTIONING MACHINE is equipped with a CONE with locking RING (Fig. 1), 5 REDUCTION BUSHINGS (Fig. 2) and a FUNNEL only for the BM2 MAXI model (Fig. 3) which performs the function of an exit chute.



Cone with ring nut

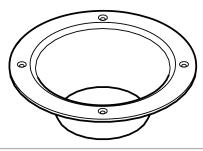
Fig. 1



Reducing bushings

Fig. 2

Re/.	Diameter	Weight	
1	40 mm	from 50 gr to 90 gr	
2	45 mm	from 80 gr to 130 gr	
3	50 mm	from 120 gr to 180 gr	
4	55 mm	from 170 gr to 230 gr	
5 60 mm from 220 gr to 300 g		from 220 gr to 300 gr	



Funnel

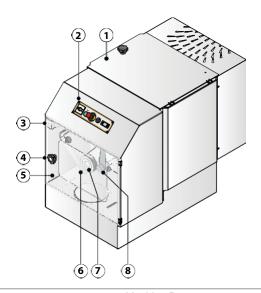
Fig. 3



2.2 Features

Mod. BM2 MAXI			
Height	670 mm		
Width	500 mm		
Dough capacity	30 kg		
Depth	840 mm		
Weight	85 kg		
Volt	400		
Hz	50		
Kw	0,93		

2.3 Machine Parts



Machine Parts Fig. 4

Ref.	Description	Ref.	Description
1	Hopper	5	Door with porthole
2	Commands	6	Shovel
3	Micro Security Door	7	Cone
4	Door knob	8	Knife



Legend of machine parts PORTIONING MACHINE

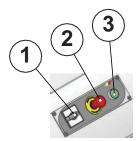
Tab. 1

2.4 Duty cycle description

The PORTIONING MACHINE has been designed and manufactured exclusively for food use for the cold processing of pasta based on cereal flour in order to obtain portions, with prevalent use in pizzerias, bakeries and pastry shops. Each automatic divider consists of:

a stainless steel metal structure. A hopper that contains the dough. A spiral with a stainless steel shaft inside that perform the function of extruding the dough. An aluminum cone to convey the dough towards the probe. The probe acts as a device to obtain pieces of equal size, once the size (weight) of the portion is reached, a knife provides for the cut. Two separate and autonomous gearmotors operate the spiral and the knife.

When the PORTIONING MACHINE is switched on, the main switch (ref. 1 Fig. 5) is set on (I), pressing the START button (ref. 3 Fig. 5) sets in motion the spiral that pushes the dough through the cone to the probe, the probe acts as a stop and activates the knife that cuts the set portion.



Control panel

Fig. 5

If, during a work cycle, the emergency stop button is pressed (ref. 2 Fig. 5) or one of the machine doors is opened, an UNCONTROLLED STOP is generated, before resuming the cycle it is necessary to check that the machine is in the correct conditions of use.

The machine's work cycle is managed by an electromechanical panel.

2.5 Airborne noise

From sound measurements carried out during the operation of the machine, in accordance with the UNI EN ISO 11202:2010 standards, the noise does not exceed 60 dB(A). The operator therefore does not require special hearing protection, without prejudice to any protections for the level of airborne noise within the work environment at the production site where the PORTIONING MACHINE is installed.

2.6 Intended Use

The PORTIONING MACHINE is a machine designed and manufactured exclusively for food use for the cold processing of pasta based on cereal flour, in order to obtain portions while maintaining the fundamental characteristics of the dough unaltered, with prevalent use by pizzerias, bakeries and pastry shops.

The machine must only be used by operators who are properly informed and instructed:

- on the correct methods of use of the machine;
- · on the residual risks present;
- on the process and on the specific type of processing;
- on cleaning after use.

Personnel must be instructed and trained on the relative behaviors to be adopted and on the actions to be taken in the event of anomalies or operating defects related to the nature of the material being processed.

ATTENTION



The use of the machine for purposes other than those intended and not in accordance with what is described in this instruction and maintenance manual, in addition to being considered improper and prohibited, relieves the Manufacturer of any



direct and/or indirect liability. It is the User's obligation to check that any accessories and equipment not supplied by the machine manufacturer, comply with the regulations in force.

2.7 Reasonably foreseeable misuse

DANGER



The PORTIONING MACHINE is not suitable for use in environments where flammable or explosive substances in the state of gases, vapours, mists or combustibles may develop: it is ABSOLUTELY and EXPRESSLY FORBIDDEN to use the PORTIONING MACHINE in work environments where there are explosive atmospheres classified according to the ATEX Directive.

DANGER



The PORTIONING MACHINE is not suitable for use outdoors: it is ABSOLUTELY and EXPRESSLY IT IS FORBIDDEN to use the PORTIONING MACHINE OUTDOORS.

ATTENTION



The PORTIONING MACHINE may not be used for purposes other than those indicated by the Manufacturer and those agreed with the same.

ATTENTION



Any other use for which the machine is intended, and not covered by this instruction and maintenance manual, is expressly prohibited and relieves the Manufacturer from any and all liability for damage to persons, animals or property deriving from such use. For any use or work other than that stated in this instruction and maintenance manual, it is mandatory to contact the Technical Assistance Service of the Manufacturer.

3 REGULATORY REFERENCES AND RESPONSIBILITIES

3.1 Community directives

- The machine has been built in compliance with the following Directives:
- Directive 2006/42/EC (Machinery Directive)
- Directive 2014/30/EU (Electromagnetic compatibility)
- Directive 2014/35/EU (Low Voltage Directive)
- Directive 2011/65/EU (RoHS II)
- Delegated Directive 2015/863/EU (RoHS III)

Standards applied: see par. "1.5 EC declaration of conformity"

3.2 Liability of the Manufacturer

The Manufacturer is relieved of any liability deriving from:

- improper use of the machine by personnel who are not specifically trained or trained;
- · improper use of the machine;
- reasonably foreseeable misuse;
- use expressly prohibited;
- use not in accordance with the regulations in force in the country of installation/use;
- · incorrect installation;
- · power defects;
- incorrect maintenance;
- use of non-original spare parts;
- total or partial non-compliance with the instructions contained in this instruction and maintenance manual.

ATTENTION



The Manufacturer assumes no liability for damage caused to persons, equipment, property, animals or damage due to inappropriate use of this documentation or the machine.



3.3 Methods to be paid by the User

The following are the sole responsibility of the User, unless otherwise stipulated in the contract:

- the preparation of an environment suitable for the installation of the machine with adequate lighting;
- the connection of the electricity supply;
- preparation and installation of a disconnecting device for each power source of the machine in compliance with the laws in force in the country where the machine is installed the risk assessment relating to the insertion of the machine within its production site;
- the adoption of the protections and/or safety devices found necessary during the risk assessment.

4 GENERAL SAFETY INFORMATION

4.1 Generality

Operator safety is one of the main concerns of a machine builder.

When building a new machine, we try to foresee all potential dangerous situations and of course to adopt the appropriate protections.

Careless and clumsy use of the machine can result in accidents. Distraction, carelessness and too much confidence are often the cause of injuries; as can fatigue and drowsiness. It is therefore mandatory to read this manual very carefully and in particular the section relating to safety regulations.

the User is required to train and inform the operators on:

- the correct methods of use of the machine;
- · the residual risks present;
- · Abnormal situations are foreseeable.

The User undertakes to train personnel in the use and periodic maintenance of the machine, to inform personnel on the devices designed for the operator's safety and on the general accident prevention rules provided for by the directives and legislation of the country of use of the machine itself.

The Manufacturer declines any and all responsibility for failure to comply with the safety and prevention rules provided for by the legislation of the country of use of the machine itself and for what is reported in this instruction and maintenance manual.

Pay attention to the triangular symbol with an exclamation mark in this instruction and maintenance manual, it indicates possible injury to the person as well as information whose failure to comply may cause extensive damage to the machine.

4.2 Safety and accident prevention rules

If the machinery is installed, operated, adjusted, maintained, cleaned, repaired, transported in accordance with the manufacturer's instructions, as specified in the owner's manual, persons are not exposed to particular or particularly high risks, although reasonably foreseeable. The limits of the machine in terms of size and performance are stated in this instruction and maintenance manual. The machine has been designed with the utmost importance in mind safety, with the adoption of measures to eliminate or reduce risks as much as possible compatibly with the processing requirements and/or the installation environment and in relation, of course, to the intended and declared use and/or use and behavior, to the best of the manufacturer's knowledge, reasonably foreseeable for "intended use" and for "incorrect use of the machine and reasonably foreseeable behavior "means the provisions of the UNI EN ISO 12100:2010 standard, about which the user is clearly and in detail informed through the instruction and maintenance manual and by suitable warning and/or prohibition symbols/signs (pictograms) posted near the risk areas.

In accordance with the provisions of UNI EN ISO 12100:2010, the principles of ergonomics have been taken into the utmost consideration, the usual operations that must be performed for the correct operation of the machine are such that an operator of medium height is not obliged or induced to perform any abnormal and/or forced movement of flexion and/or torsion of the back or other parts of the body.

Discomfort and fatigue for the operator, as well as his mental tension, have been minimized by equipping the machine with unambiguously identifiable, easily understandable and usable control devices.



4.3 Ecology and pollution

- Observe the laws in force in the country where the machine is used, regarding the use and disposal of the products used for cleaning and maintaining the machine and observe the recommendations of the manufacturer of these products.
- Dispose of any special waste through the appropriate companies authorized for the purpose with the issue of the receipt of the disposal.
- If the machine is dismantled, comply with the anti-pollution regulations of the country where the dismantling will take place, paying particular attention to the electrical and electronic components.

4.4 Clothing

The operator must wear clothing suitable for the work environment. Avoid wearing loose clothing or clothing with fluttering parts, necklaces and/or bracelets that may become entangled or otherwise such as to offer easy grip to the moving parts of the machine or any tending machines. As regards the clothing to be used in accordance with the application of self-control measures and HACCP principles is not the subject of this manual, the choice and supervision of the correct application is the responsibility of the Employer and/or a person appointed by him.

4.5 Personal Protective Equipment (PPE)





It is absolutely forbidden to make changes of any kind to the PPE assigned by the Employer.

The operator in charge must wear the following personal protective equipment (PPE) according to the type of operation being carried out

unfolds on the machine:

	Operation			
	Transport and handling / installation	Implementation	Utilization	Maintenance
Work overalls				
T	YES	YES	See HACCP	YES
Safety footwear				
	YES	YES	YES	YES
Gloves	VEC for	VEC for out		YES – for chemical
	YES – for mechanical risk	YES – for cut risk		and mechanical risk
Spectacles				
				YES
Hearing Protectors				



ATTENTION



The PPE indicated in the table concerns the dangers strictly related to the machine.

4.6 Residual risks

The residual risks presented by the machine and the behaviour to be adopted towards them are shown below.

BM2 MAXI PORTIONING MACHINE			
Residual risk	Behavior to adopt		
Through the funnel located in the unloading area of the portion of broken dough it is possible to reach the moving knife (ref. 8 Fig. 4).	It is forbidden to insert the hand and reach the knife area (ref. 8 Fig. 4) while the machine is running. It is necessary to make this obligation known to all operators.		
Health risk due to inhalation of flour dust, if the operator sprinkles it by hand causing it to be dispersed in the air.	The use of flour is not envisaged, in any case it is mandatory to train and inform the employees about the risk of inhalation of flour dust.		
Residual risk	Behavior to adopt		
Through the lower area it is possible to reach the moving knife (ref. 8 Fig. 4).	It is forbidden to use the machine without first placing it on a suitable shelf, and it is also always forbidden to insert the hand and reach the knife area (ref. 8 Fig. 4) while the machine is running. It is necessary to make this obligation known to all operators.		

Residual risks

Tab. 3

4.7 Protections and safety devices

Machine safety devices are defined as all the technical means put in place to allow the use of the machine with the maximum safety, known at the time of its construction, together with the technical characteristics of the machine itself.





The machine has been designed to allow safe use by rendering the moving parts harmless through the adoption of fixed and mobile guards and protective devices. The following list is only explanatory of the various types of protections and protective devices that may be present in whole or in part on the PORTIONING MACHINE

By convention, safety devices are divided into:

- fixed guards, elements made of solid material such as, for example, a casing;
- interlocked safety gates, elements made of solid material that prevent access to hazardous areas and which, if opened or removed, stop movement before access to hazardous areas can be entered;
- · emergency stop devices;
- disconnecting devices.

ATTENTION



Before using the machine, check that all guards and safety devices provided are correctly mounted on the machine, in particular check any other matching machines. Protections and safety devices



Machine safety devices are defined as all the technical means put in place to allow the use of the machine with the maximum safety, known at the time of its construction, together with the technical characteristics of the machine itself.

ATTENTION



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- · emergency stop devices;
- disconnecting devices.

ATTENTION



Before using the machine, check that all guards and safety devices provided are correctly mounted on the machine, in particular check any other matching machines.

DANGER



It is mandatory to constantly check the proper functioning and efficiency of all safety devices.

It is forbidden to remove, render ineffective, tamper with, modify, even partially, the guards and/or safety devices installed on the machine for the safety of people. One or more of the actions described above are to be considered intentional and therefore at the end of any maintenance work it is necessary to restore them to their original position and condition.

ATTENTION



The Manufacturer therefore declines any and all responsibility in the event of damage caused following removal, tampering, modification, etc., of guards and/or safety devices



ATTENTION

It is mandatory to replace malfunctioning or damaged safety components without delay, using only original spare parts.

Replacing safety components is an operation that:

- has an effect on the safety of the machine;
- must be carried out in compliance with the manufacturing specifications of the machine, an operation guaranteed exclusively by the intervention of the Construction Company.

4.7.1 Emergency stop device

ATTENTION



The emergency button is present on the front of the machine

ATTENTION



In the case of insertion of the PORTIONING MACHINE inside a system, it is the obligation of the User's Employer to carry out the risk assessment and to implement what is necessary to ensure safety. The Manufacturer is relieved of any and all liability for damage to persons, property, equipment, animals deriving from the failure and/or incorrect assessment of risks and/or failure to implement and implement the required prevention and protection measures.



4.7.2 Cutting devices

It is the User's responsibility to provide and install a device for disconnecting the external power source to the machine in accordance with the laws in force in the country of installation and use of the machine.

ATTENTION



In case of particular interventions:

- assess the type and extent of the action and consequently the risks associated with the operation to be performed;
- dissect the energy sources, put up the sign "Work in progress, do not carry out manoeuvres" to avoid restarts unauthorized:
- Before starting any work, make sure that all elements of the machine, which can remain energized, are safe;
- Before starting any work, make sure that all elements of the machine, which may have hot surfaces do not pose a burn hazard;
- lock the disconnect switch located on the external power source of the machine or alternatively use a locking device for the power plug of the machine.



NOTE: the locking padlock for the disconnecting device located on the external power source of the machine and/or the locking device for the power plug of the machine are not supplied by the manufacturer, their purchase is at the expense of the User.

ATTENTION



Before restoring power to the machine, make sure that safety conditions have been restored, remove any tools or implements used, make sure that there are no people in the work area. Follow the reboot procedure provided.

ATTENTION



If the emergency stop button is pressed during a work cycle, an **UNCONTROLLED STOP** is **generated**. Before resuming the work cycle, it is necessary to check that the machine is in the correct condition of use.

4.8 Safe use

- Before using the machine, check that the work area is free of obstructions and there are no people or animals.
- When a person is 'exposed', i.e. in a 'danger zone', the operator must immediately intervene by stopping the
 machinery and possibly removing the person in question.
- Never touch the moving parts or come between them in any way.
- If you believe that the machine may be unsafe, have qualified personnel serviced.
- Check that no corrosive liquids, oil or other products that can be used to escape from the system to which the machine is combined
 - over time they can damage the machine itself.

4.9 Safe maintenance

- Maintenance and adjustments to the machine must only be carried out after all sources of hazardous energy, such
 as electricity, have been isolated and rendered inoperative by applying the "LOCKOUTOUT" procedure.
- Read and understand all safety tags attached to the machine. Follow the instructions in maintenance.
- Do not start the machine while performing maintenance, put up a "Work in progress" sign
- Do not make any adjustments while the machine is running.
- It is strictly forbidden to remove or modify fixed or mobile guards and/or safety devices.
- When the machine components are at operating temperature, some parts may have hot surfaces that may constitute a risk of burns, allow them to cool down before intervening.
- The spare parts must correspond to the characteristics defined by the manufacturer. Use only spare parts
 Original.
- Do not carry out repairs unless you are authorized and specifically prepared for the purpose.

- Constantly check that there are no looseness in the fastening details of the various components of the machine
- Check the sources of any noise or vibration that if neglected could develop faults or abnormalities.
- All maintenance and cleaning products should be stored in suitable containers, marked and kept away from children
- Never place maintenance and cleaning fluids in glass containers or glass bottles when there is a danger that they
 will be within the reach of children.
- Never direct the pressurized air jet at people or animals when cleaning.
- Pay close attention to the storage of maintenance and cleaning products, they can be flammable, explosive, toxic and corrosive; they should therefore be stored in the original tightly closed packaging, and out of reach of nonprofessionals.
- Overheated parts of the machine may cause fire, burns, deformation, explosion, etc., if approached or brought into contact with certain solids, liquids, or gases.
- Oil or grease deposits on the machine are a serious fire hazard. Clean the machine with a degreaser, following the instructions in the technical and safety data sheet.
- Store greasy rags and other flammable material in a safety container.
- Store the container away from open flames, welding and flame cutting areas.

4.10 Safety tags

The machine has been built by adopting all possible solutions for the protection and safety of those who work there. Despite this, the machine may present additional residual risks; that is, those risks that it has not been possible to completely eliminate in certain conditions of use.

ATTENTION



On the machine there are therefore plates bearing safety instructions that must be scrupulously respected by any person who is about to work on the machine itself.

ATTENTION



Do not remove, cover, move, damage the safety plates. In the event that the plates deteriorate or become inconspicuous or missing, their replacement and correct repositioning is mandatory. The plates can be requested directly from the manufacturer. The manufacturer declines all responsibility for any accidents or damage to people, things or animals due to the lack of safety plates on the machine.

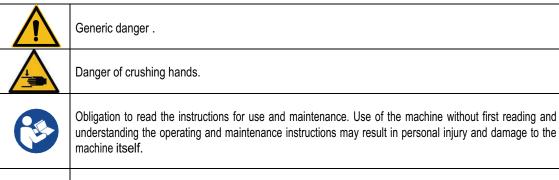
ATTENTION



Failure to comply with the safety plates in whole or in part relieves you of any liability for damage to persons, property or animals.

The safety tags are listed below, indicating their location on the machine.

	It is forbidden to get into the car. Risk of falling.
	It is forbidden to remove the protections.
To the second se	It is forbidden to lubricate and clean during the movement.
	Do not introduce your hands through the product outlet opening.
<u> </u>	Danger obstacle at the bottom. The ground structure of the machine can be a source of tripping and falling level.





Obligation to disconnect the machine before servicing. Before maintenance, it is mandatory to isolate and control the sources of hazardous energy (electrical, hydraulic, mechanical) by applying the "LOCKOUT/TAGOUT" procedure.

Safety tags **Tab. 4**



Safety tags

Fig. 6

4.11 Operator's seat

The machine is designed to be operated by an operator. The workstation for use coincides with the position of the "start"-"stop" buttons. This space has been defined by the manufacturer taking into account the need to be able to control the machine with an excellent view of the process, and also to carry out the loading and unloading of the products in optimal safety conditions. In the event of redefinition by the User of the place occupied by the operator and/or the number of operators working at the same time, it is **the OBLIGATION** of the User's Employer to define the place or places occupied by the operator(s) and conduct the risk assessment by implementing what is necessary to ensure safe use. The Manufacturer is not responsible for damage to people, property, equipment, animals due to failure to assess risks and/or failure to implement and implement the required prevention and protection measures.

ATTENTION



If the User changes/redefines the position of the workstation for his own reasons, he is responsible for the choice. The manufacturer is not responsible for damage to people, property, equipment or animals.

ATTENTION





In order to be able to guarantee the necessary freedom of movement, avoiding the risk of tripping and falling on the flat, no materials of any kind must be deposited in this area. Please also note that only qualified operators can operate and work/operate on the machine.

5 TRANSPORT AND HANDLING

5.1 General warnings

During all lifting and handling operations of the machine, it is mandatory to scrupulously observe the warnings below.



DANGER

The User must make sure that no person, unemployed or unauthorized, is for any reason in the area of transport and handling operations, outside and inside the working environment in which the machine will be installed.

It is forbidden to climb, stand and/or pass under the machine during handling and/or lifting. The manufacturer

declines all responsibility for any damage caused to people, animals and property.

The areas intended for the parking of the means of transport, for the handling and installation of the machinery must be identified and inspected in advance in order to detect the presence of "dangerous areas".

ATTENTION



The use of suitable vehicles with a capacity adequate to the mass to be lifted and compliant with the laws and regulations in force is mandatory.

ATTENTION



Inspect the ropes before using them - they must not show any damage, broken wires or signs of wear.

ATTENTION



Do not twist or knot the ropes and follow any instructions for use indicated by the rope manufacturer.

ATTENTION



The manufacturer assumes no responsibility for the improper and non-compliant use of lifting equipment and for non-compliance with the instructions given for the movement of the machine.

ATTENTION



During all transport, lifting and handling operations, it is forbidden to carry out sudden manoeuvres that they can compromise the stability of the load. Proceed slowly without oscillation.

ATTENTION



The operations relating to the unloading, lifting and handling of the machine must be carried out by specialized personnel.

ATTENTION



The User and his/her staff undertake to read in advance and to follow: the instructions contained in this instruction and maintenance manual, the warnings and indications on the packaging. They also undertake to comply with any instructions provided by specialized personnel.

ATTENTION



The User undertakes to ensure that its personnel are equipped with the appropriate personal protective equipment (gloves, safety shoes, helmet, etc.) and the correct equipment before proceeding with the unloading, lifting and handling of the machine.

ATTENTION

TRANSPORT AND HANDLING





Avoid several people working on the same machine at the same time without coordination because this can cause risky situations.

ATTENTION



The use of inappropriate lifting equipment may result in accidents to personnel engaged in the operation and/or damage to the machine.



ATTENTION

Lifting and transport operations can be very dangerous if not carried out with the utmost care: remove non-employees; clear and delimit the transfer area; check the integrity and suitability of the vehicles available; do not touch suspended loads and remain at a safe distance; during transport, loads must not be lifted more than 20 centimetres above the ground. It must also be ensured that the area in which the action is being carried out is clear and that there is sufficient 'escape space', i.e. a free and safe area in which the load can be moved quickly in the event that the load falls.

5.2 Features of lifting devices

ATTENTION



Failure to comply with the instructions, with the consequence of any damage caused to people, animals, things, equipment and/or the machine itself, exonerates the Company from any liability.

5.2.1 Characteristics of lifting equipment

The main characteristics of the lifting equipment and any accessories used are as follows:

- they must comply with the legislation and regulations in force in the country in which the machine is used;
- load limit suitable for lifting the machine or the individual parts to be handled "2.2 Characteristics";
- they must be in excellent condition;
- they must be installed, maintained, supervised, verified, and used according to the indications defined by their manufacturer, according to the rules of good technique and according to the specific national laws and regulations of the country of use.

5.2.2 Features of lifting equipment

The main features of the lifting equipment are as follows:

- they must comply with the legislation and regulations in force in the country in which the machine is used;
- with a capacity adequate to the total mass to be lifted.
- they must be in excellent condition;
- they must be installed, maintained, supervised, verified, and used according to the indications defined by their
 manufacturer, according to the rules of good technique and according to the specific national laws and regulations of
 the country of use.

Particular care should be taken to keep the angles of inclination of ropes, slings and chains below values that allow the load on each rope, sling or chain to be kept below its load limit.

5.3 Machine transport



ATTENTION

The surface on which the machine is to be loaded must be perfectly level to avoid possible displacement of the load.

Once the machine has been transferred to the means of transport, make sure that it remains securely locked in its position. Securely fasten the machine to the surface on which it is resting with tightly stretched ropes or chains to block any possible movement.

After transporting the machine and freeing the machine from all constraints, check that the condition and position of the themselves cannot constitute a danger.

Then remove the ropes and proceed with the unloading with the same means and methods used for loading.

The machine must be transported to the User by "specialized companies" which, with qualified personnel and suitable means, must ensure that lifting, loading, transporting and unloading operations are carried out safely and in compliance with the laws and regulations in force.

NOTE: Upon receipt of the machine, make sure that the components have not been damaged during transport or that the packaging has not been tampered with. If damage of any kind is found, it is necessary to notify the manufacturer immediately.

5.4 Lifting and handling of the machine

Machine status: Packed on a means of transport

Authorized personnel



Personal protective equipment









The machine consists of 1 package packed depending on the size of the means of transport and the place of destination.

5.4.1 Unloading the machine from the means of transport

ATTENTION

Before starting the operation, identify and check the entire handling and installation area of the machine, in order to detect the possible presence of any dangerous points. Check in advance that the pavement is flat and in good condition; Clean the floor thoroughly, taking care to remove oils and grease.

To unload the package or packages in the means of transport, proceed as follows:

- open the doors of the means of transport, in the case of curtainsider trucks, slide the rib and remove the containment bars and open the rear and/or side gates;
- remove the ropes that block any packaging to the means of transport;
- In the case of transport inside containers, carefully open the right door of the container in order to avoid being run over by objects if the cargo inside has undergone movements, especially during maritime transport with adverse weather conditions.
- The lifting and transport of pallets containing parts can be carried out using a trolley forklift, placing the pallet in the area set up for lifting.

ATTENTION



The machine must be transported to the area of use by suitable means and under careful supervision by authorized personnel.

The accident prevention and safety regulations valid for handling and lifting operations must be observed.

- During these operations, it is absolutely forbidden to stand within the range of action of the lifting vehicle.
- When transporting, pay close attention to the surrounding area to avoid hitting any obstacles.

5.4.2 Transporting the machine with a hand pallet truck

After unloading the machine from the means of transport, if the weight and dimensions allow it, the pallet on which the machine is packed can be handled with a hand pallet truck. Before starting handling, it is **MANDATORY** to identify and check the entire handling area, in order to detect the possible presence of



Danger points. Check in advance that the pavement is flat and in good condition; Clean thoroughly the floor, taking care to remove oils and greases.

ATTENTION



After unloading the machine from the means of transport, it is the sole responsibility of the User to decide with which equipment to move the machine, the choice must consider: the type of flooring, the degree of wear and tear of the flooring, the presence of unevenness, the distance to be covered, the size and weight of the machine, the fixed wheelbase of the forks of the hand pallet truck, the adjustable wheelbase of the forklift forks. The manufacturer of the portioning machine is not responsible for damage to persons, things, animals, equipment and/or the machine itself due to an incorrect choice and/or use of the handling equipment.

ATTENTION



After unloading the machine and placing it in a protected place, proceed with the unpacking and installation operations.

Unpacking and installation operations must be carried out by specialized personnel. By prior agreement, the personnel can be provided by the Manufacturer.

Normally, the parts of the machine that are at risk of being damaged during transport (drive unit, control panel, etc.) are wrapped in shockproof material, once the machine has reached the position in which the machine is used, remove all packaging and protections.

Check that no parts have been damaged during transport.

6 INSTALLATION

6.1 Installation predisposition

The place of installation, the flooring, etc., must be prepared according to the indications of the Manufacturer, and any drawings and/or specifications previously provided by the same.

DANGER



The PORTIONING MACHINE is not suitable for use in environments where flammable or explosive substances in the state of gases, vapours, mists or combustibles may develop: it is ABSOLUTELY and EXPRESSLY FORBIDDEN to use the PORTIONING MACHINE in work environments where there are explosive atmospheres classified according to the ATEX Directive.

DANGER



The PORTIONING MACHINE is not suitable for use outdoors: it is ABSOLUTELY and EXPRESSLY IT IS FORBIDDEN to use the PORTIONING MACHINE OUTDOORS.

ATTENTION



In choosing the location of the machine, it is the User's responsibility to consider/ascertain:

- that the intended position is not humid and is protected from atmospheric agents;
- that the support area is free of depressions, perfectly level, on a non-slip floor and with a load capacity adequate to the weight of the machine;
- that the environment where the machine is to be placed is guarded or closed, to prevent free access to the machine by children or strangers or who are not authorized to use it;
- that the lighting in the workplace meets the requirements of current laws and regulations on safety and health in the workplace;
- that it is positioned near the main circuit breaker with thermal differential set up for the purpose;
- that the power supply system is earthed in accordance with applicable laws;
- that there are no explosive atmospheres classified according to the ATEX Directive in the work environment.

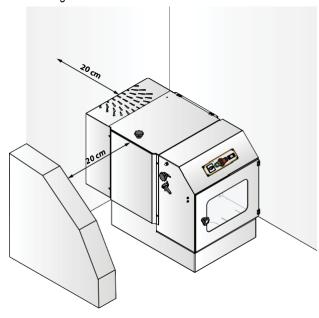
The following are some useful indications for preparing the installation site.

- The machine must be installed in a closed and dry industrial environment.
- The place of installation must allow the machine to be used safely. The flooring must guarantee the support of the machine itself and any other machinery in the vicinity, without



cause subsidence or vibrations; the flooring must be made with materials and construction technologies suitable for withstanding the weight and the various stresses that could occur during the work phase. In addition, this flooring must, if possible, be made with a non-slip finish to ensure safe operation of the staff, with finishes that do not alter over time.

- The area where the machine is to be installed must allow a good support base, good natural and/or artificial lighting (according to current regulations) that guarantees the operator good visibility of the work and to monitor the area surrounding the machine in order to prevent the approach of third parties.
- The machine must be positioned in such a way as to allow convenient accessibility for all control and maintenance operations throughout its perimeter and in the accesses to the electrical panel, ensuring an adequate distance from walls and other machines as shown in Fig. 7



Distance from walls

Fig. 7

ATTENTION



Observe the safety zones of any neighboring machines. Keep at least a distance of 20 cm from any walls.

ATTENTION



Check the flatness of the flooring.

The table below (Table 5) shows some useful data for the installation of the machine:

Ambient temperature	+10°C / +50°C
Ambient relative humidity	Max 85% non-condensing
Minimum plant height	Depending on current regulations
Recommended lighting	Depending on current regulations

Installation predisposition

Tab. 5

DANGER



The PORTIONING MACHINE is not suitable for use outdoors: it is ABSOLUTELY and EXPRESSLY IT IS FORBIDDEN to use the PORTIONING MACHINE OUTDOORS.



6.2 Electrical system features

ATTENTION



The User must set up the utility supply lines according to the technical indications of this instruction and maintenance manual.

ATTENTION



The cables that connect the machine to the power supply points must be placed inside underground channels or covered by walkable guards.



ATTENTION

Please note that the User is responsible for all the electrical supply part up to the power plug of the machine. The User's attention is drawn to the need to provide all the safety conditions necessary for the "grounding" of the machine.

ATTENTION



Cables, plugs and any other type of electrical equipment used for connection must be suitable for use and comply with the requirements and regulations in force.

ATTENTION



If the machine is equipped with electronic control logic (PLC), a stabilised voltage must be ensured. The manufacturer declines all responsibility for failures or operating anomalies caused by voltage fluctuations

ATTENTION



It is imperative to make the electrical connections correctly. It is recommended that you carefully follow the instructions below, using the functional diagrams attached to this instruction and maintenance manual. The electrical connection must be carried out by a specialized technician in possession of the specific technical and professional requirements required in the country of use.

Before making the electrical connection, check that the electricity grid is equipped with an efficient earthing system in compliance with the electrical regulations in force in the country of use.

This is a specific responsibility of the User.

ATTENTION



In order to ensure proper operation of the entire electrical apparatus, the supply voltage values of the machines cannot deviate by ±5% from the nominal ones declared in the contract.



ATTENTION

Proceed to check the existing distribution board in the installation site that is to supply the machine. It must be equipped with fuses, a suitably dimensioned residual current circuit breaker and a disconnecting device.

The User must check that the power cable has a section suitable for the load absorbed (max current) by the machine and the distance between the socket located in the electrical panel of the machine and the distribution panel provided in the environment for the power supply of the machine.

DANGER



It is forbidden to connect the electrical system of the machine directly to the conductors of the distribution system, without fusing a properly sized residual current circuit breaker and a disconnecting device: a failure in the distribution system can cause serious injuries to the operator and irreparable damage to the electrical equipment of the machine.

DANGER

Whenever it is necessary to intervene on the electrical supply connections, it is mandatory to carry out the safe isolation of the electrical power sources by applying the LOCKOUT/TAGOUT procedure. Body parts come into contact with live parts of the machine can result in serious injury and even death.





ATTENTION



Check that no corrosive liquids, oil or other products that can be used to make the machine are leaking from the system in which the machine is inserted.

over time they may damage the machine itself.

6.2.1 Power supply data

Three-phase motor supply voltage	400 Volts/50 Hz
----------------------------------	-----------------

Power supply voltage data

Tab. 6

ATTENTION



In the event of a request, when ordering, for a power supply voltage different from the standard, it is the User's responsibility to check that the electrical voltage present in the place where the machine is installed is included in the technical specifications indicated in this use and maintenance manual. The manufacturer is not responsible for any damage caused by the power supply of the machine with voltages with characteristics not included in the specifications indicated in this use and maintenance manual.

6.2.2 Connection to the earthing system

The PORTIONING MACHINE is equipped with a point by means of which it can be connected to the earthing system of the User's work environment.

The dot is identified by the symbol:



ATTENTION



The User is responsible for the sizing of the earthing system, checks, maintenance and connection of the PORTIONING MACHINE. The manufacturer is not responsible for damage to persons, property, equipment, machines and/or to the PORTIONING MACHINE itself.

6.3 Unpacking, Positioning and Securing

If previously agreed, all unpacking, positioning and fixing operations at the User's premises are subject to carried out by personnel of the Manufacturer.

Otherwise, they are carried out directly by the User with their own staff or in any case by personnel chosen by him. If the manufacturer does not carry out unpacking, positioning and fixing operations, the manufacturer declines all responsibility for any accidents or damage to persons, animals, equipment, things and/or the machine itself.

6.3.1 Disposal of packaging materials

The User is responsible for the disposal of the materials constituting the packaging of the machine in accordance with the laws and regulations in force on environmental protection in the country of installation.

ATTENTION



It is mandatory that all operators employed in the disposal of the materials constituting the packaging of the machine use the personal protective equipment (PPE) provided for according to the risks related to the type of use and in compliance with the laws and regulations in force.

The materials making up the packaging can be all or only partially, they are:

Material	Identification	
	Abbreviation Numbering	
Bubble wrap type film	LDPE	4





Stretch film	LDPE	4
Gu Guari IIIII		•



Material	Identification	
Shrink film	LDPE	4
Cardboard	PAP	21
Corrugated cardboard	PAP	20
Adhesive tape	PP	5
Wood	FOR	50
Staples	FE	40
Nails	FE	40
Polypropylene strap	PP	5
Strap buckle	FE	40
Barrier bag		90

These materials must be separated by type and delivered to separate collection and recycling centres. disposal authorized by the legislation in force in the country where the machine is installed.

7 INSTALLATION

7.1 Links

7.1.1 Electrical connection

Machine status: Connected from the mains

Authorized personnel



Personal protective equipment







Before putting the machine into operation, it is MANDATORY to remove the protective film and wash the entire surface of the machine with warm soapy water.

ATTENTION



Before connecting the plug of the machine's power cable to the mains, check that the electrical voltage present at the place where the machine is installed is included in the technical specifications indicated in this use and maintenance manual.

Check for a disconnecting device for each power source of the machine that complies with the laws in force in the country where the machine is installed;

Check that the machine is connected to the earthing system.

Once the conditions described above have been met, connect the machine to the mains, turn on the power and check the correct direction of travel.

The correct direction of travel of the machine is determined by observing the output of the processed product, if the direction of travel is opposite, proceed to reverse the two poles in the connecting pin of the machine.

DANGER



Do not make any modifications or adaptations.



Any interventions may cause imbalances that could affect the functionality of the machine as well as dangerous for the operator himself.

The manufacturer declines all responsibility in the event of tampering with the electrical system. For any doubts , contact the manufacturer directly.

7.2 Pre-checks

Preliminary checks must be carried out both after the first installation of the machine, and after moving and repositioning, as well as after major maintenance work that has required the disassembly and reassembly of mechanical, electrical, etc. components.

Below is the list of necessary preliminary checks:

- Carry out a visual inspection to ensure that the machine has not been damaged during transport, assembly or storage.
- Remove any stops that have been in place for handling the machine.
- All fixed safety guards must be properly fitted in the intended position.
- All movable safety guards must be properly fitted in the intended position and closed.
- Check that the electrical voltage present at the place where the machine is installed is included in the specifications techniques indicated in this use and maintenance manual.
- · Check the correct direction of rotation.

7.3 Pre-cleaning

Machine status:

Off with main switch in position "O" Apply the lockout/tagout procedure.

Authorized personnel



Personal protective equipment







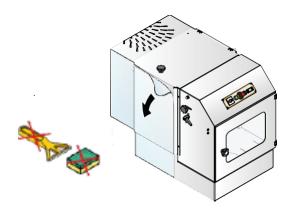


ATTENTION



Before starting the cleaning of the machine, it is mandatory to apply the "LOCKOUT/TAGOUT" procedure, therefore:

- remove the adhesive film placed to protect the surfaces as shown in Fig. 8
- Clean the machine of dirt accumulated during transport and handling with water and suitable degreasers and dry each part thoroughly using soft, clean and dry cloths.



Removing the protective film





Cleanliness Fig. 9

7.4 Verification of the direction of rotation

Pull out the cone as indicated in paragraph 8.4, start the machine in the correct counterclockwise direction of rotation, if the direction of travel is opposite, reverse the two poles in the machine connection pin.

If the direction is incorrect, see paragraph "7.1.1 Electrical connection".

8 UTILIZATION

ATTENTION



Before putting the machine into use, it is necessary to carefully check the efficiency and perfect functioning of the safety devices.

Check that there are no damaged elements and that all components are installed correctly. Safety devices or damaged parts must be repaired or replaced by qualified personnel or at a service centre authorised by the manufacturer, before putting the machine into service.

ATTENTION



If for any reason there are any doubts about the safety of the machine, check the cause, if any, of these doubts and contact the Manufacturer's assistance service.

ATTENTION



It is **MANDATORY** to carry out the adjustment and preparation operations for processing, after having carried out the safe isolation of the power supply sources by applying the **LOCKOUT/TAGOUT procedure**.



NOTE: the locking padlock for the disconnecting device located on the external power source of the machine and/or the locking device for the power plug of the machine are not supplied by the manufacturer, their purchase is at the expense of the User

ATTENTION

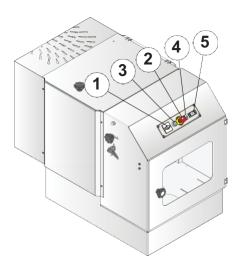


The machine and the area in which it is located must be constantly subjected to careful surveillance by the operator; in particular to prevent someone unauthorized from approaching.



8.1 Start I Stop

8.1.1 Commands



Control panel mod. BM2 MAXI Fig. 10

Ref.	Description
1	Main switch
2	Emergency stop
3	START button
4	Counting ON/OFF selector
5	Piece counter



ATTENTION



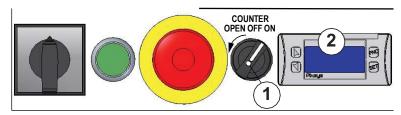
Before the machine is put into operation, the operator must:

- have read and understood all parts of this instruction and maintenance manual.
- verified that the entire set-up, and the PORTIONING MACHINE, are in order;
- verified that all parts subject to wear and deterioration are fully efficient.

Before turning on the machine, place the unleavened dough in the appropriate bowl, lifting the lid, then lowering it. Switch on the machine, turn the main switch (ref. 1 Fig. 10) and press the START button (ref. 3 Fig. 10) located on the control panel.

Check, with a scale, that the weight of the first portions of pasta corresponds to the desired weight. If the weight does not correspond to the desired one, use the portion adjustment lever (Fig. 14). Turning the portion adjustment lever clockwise increases the grammage, turning the portion adjustment lever counterclockwise decreases the grammage.

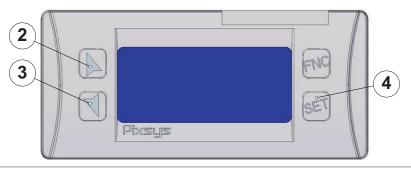
8.2 Programming number of portions



Programming number of portions

Fig. 1

- 1. Turn the selector switch ON (ref. 1 Fig. 11) to turn on the piece counter;
- 2. To set the number of pieces, press and hold "Set" (ref. 4 Fig. 12);
- 3. Press the "up arrow" (ref. 2 Fig. 12) or "down arrow" (ref. 3 Fig. 12) keys and set the number of pieces to be cut first that the tray is opened;
- 4. When the desired number has been reached, release the "Set" button (ref. 4 Fig. 12).



Number of pieces setting

Fig. 12



8.3 Portion adjustment



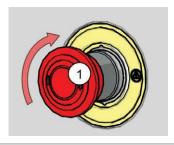
Portion adjustment lever

Fig. 13

Feed the bowl of the PORTIONING MACHINE with the subsequent unleavened doughs and collect the outgoing portions.

Model	Serving weight		
	Minimum	Maximum	
BM2 MAXI	50 g	900 g	

To stop the machine at the end of the job, press the emergency stop button (ref. 2 Fig. 10). To start the machine at a later date, the emergency stop button (ref. 1 Fig. 14) must be unlocked by turning it clockwise until it is released.



Emergency stop button release

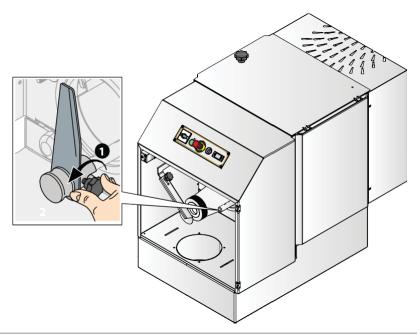
Fig. 14



8.4 Replacing the reduction bushings

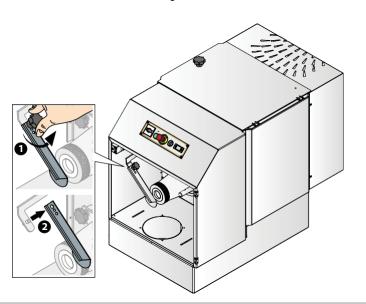
Disconnect the machine from the mains power supply and apply the **LOCKOUT/TAGOUT procedure.** Lift the front guard and remove the probe as shown in Fig. 16,

Loosen the two knobs (ref. 1 Fig. 17) that secure the cone. Turn the cone counterclockwise (ref. 2 Fig. 17) just enough to pull it out. Unscrew and remove the fastening ring nut (key 3 Fig. 17), remove the reduction bushing (key 4 Fig. 17).



Knife removal

Fig. 15



Probe removal

Fig. 16



Removal of funnel and reduction bushing

Fig. 17

8.4.1 Fixing the reduction bushings and reassembling the funnel

Insert the reduction bushing (key 1 Fig. 18) inside the funnel, attach the fixing ring nut (key 2 Fig. 18), position the funnel as shown (key 3 Fig. 18) turn the knobs (key 4 Fig. 18) clockwise until the funnel locks in its working position. Then continue with the assembly of the probe and the knife.



Fixing of the reduction bushing and reassembly of the funnel

Fig. 18



8.5 Using the machine in various environments

If it is intended to be used in cold, humid and dusty environments, frequently check the correct functioning of the electrical system and the gear motor unit.

Always keep the machine clean and tidy, refer to chapter "9 MAINTENANCE".

DANGER



The PORTIONING MACHINE is not suitable for use in environments where flammable or explosive substances in the state of gases, vapours, mists or combustibles may develop: it is ABSOLUTELY and EXPRESSLY FORBIDDEN to use the PORTIONING MACHINE in work environments where there are explosive atmospheres classified according to the ATEX Directive.

DANGER



The PORTIONING MACHINE is not suitable for use outdoors: it is ABSOLUTELY and EXPRESSLY IT IS FORBIDDEN to use the PORTIONING MACHINE OUTDOORS.

9 MAINTENANCE

9.1 Generality

Read this section carefully before performing maintenance operations on the machine; this will ensure greater safety conditions for the personnel in charge and greater reliability of the interventions carried out.

ATTENTION



It is **MANDATORY** to carry out maintenance operations, after having carried out the safe isolation of the sources of power supply by applying the **LOCKOUTOUT procedure**.



NOTE: the locking padlock for the disconnecting device located on the external power source of the machine and/or the locking device for the power plug of the machine are not supplied by the manufacturer, their purchase is at the expense of the User.

DANGER



Any maintenance and cleaning operation carried out with the electrical system live can cause serious accidents, even mortal, to people.

ATTENTION



When machine components are at operating temperature, some parts may be quite hot to cause serious burns. Let them cool before intervening.

ATTENTION



Maintenance operations must be carried out after checking that all moving parts are stopped.

ATTENTION



Follow the instructions on the safety signs on the machine.

ATTENTION



Always use personal protective equipment required by safety regulations; also follow the instructions in this instruction manual.

ATTENTION



The operator must not carry out operations or interventions on his own initiative that are not within his competence.

ATTENTION





To ensure perfect operation of the machine, it is necessary that any replacement of components of the are carried out exclusively with original spare parts.

ATTENTION



Once maintenance work has been carried out, before putting the machine into service, check that any replaced parts and/or tools used for repair/maintenance have been removed from the machine itself.

ATTENTION



During the maintenance phases, the machinery must be delimited and identified with signs bearing the words "DO NOT START".

ATTENTION



After the maintenance operations that have involved the removal of the safety devices, it is necessary to reset them and check their correct functioning with no-load tests of the machine.

DANGER

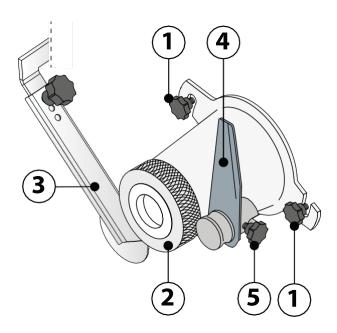


Neglecting maintenance can be a source of danger to people and property.

ATTENTION



Failure to comply with the instructions given in this paragraph relieves the Manufacturer of any liability, and excludes any form of warranty described above.



Dividing unit

Fig. 19

9.2 Routine maintenance

In the design and construction of the machine, an attempt was made to eliminate any type of maintenance. However, there are some operations that if carried out regularly will help to obtain maximum performance and the best operation of the machine. This instruction and maintenance manual does not include cleaning at the end of each use. Carry out cleaning at the end of each use in accordance with your HACCP self-monitoring system. For the disassembly and reassembly of the parts that contribute to the processing and that are in direct contact with the mixture, refer to the various chapters and paragraphs of this instruction and maintenance manual.



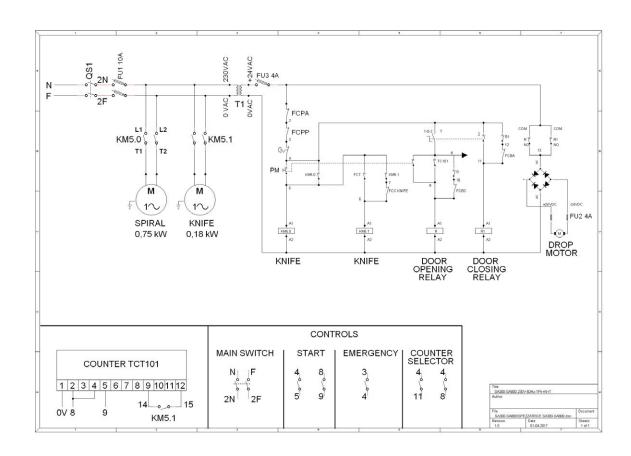
10 TROUBLESHOOTING GUIDE

ANOMALY	CAUSE	REMEDY
The PORTIONING MACHINE does not turn on	No power	Check the socket, plug and cable of power.
The PORTIONING MACHINE turns on but does not start	Security Micro Activated	Check the position of the spiral

Troubleshooting guide **Tab. 7**

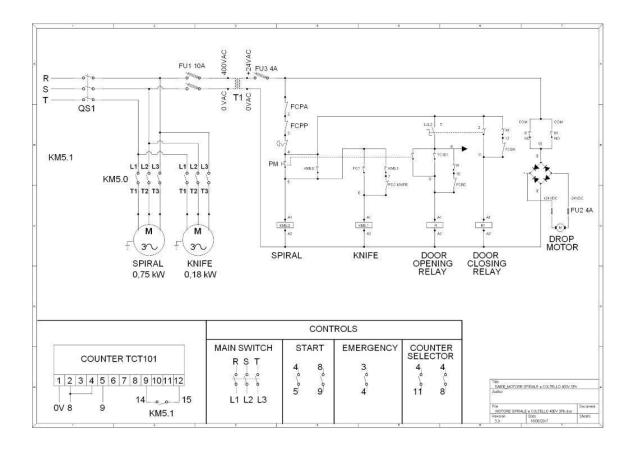
11 WIRING DIAGRAMS

11.1 BM2 MAXI single-phase divider





11.2 BM2 MAXI three-phase divider





12 STORAGE AND SET-ASIDE

In the case of an installed machine, disconnect the voltage that connects the machine by acting on the magnetothermic switch upstream of the machine itself. To ensure that the main switch cannot and is not re-engaged by unauthorised persons during the period of inactivity of the machine, lock the main switch in position "0" (OFF) by means of a padlock.



NOTE: the locking padlock for the disconnecting device located on the external power source of the machine and/or the locking device for the power plug of the machine are not supplied by the manufacturer, their purchase is at the expense of the User.

13 DISPOSAL

13.1 Dismantling and disposal methods

At the end of the technical life of the machine, it must be taken out of service and demolished by separating the individual parts and/or

materials in compliance with the laws and regulations in force on environmental protection.

In order to ensure the correct performance of the demolition and disposal of the machine, or parts of it, it is advisable to contact specialized and officially authorized companies.

ATTENTION



IT IS MANDATORY THAT ALL OPERATORS EMPLOYED IN THE DEMOLITION AND DISPOSAL USE THE PERSONAL PROTECTIVE EQUIPMENT (PPE) PROVIDED ACCORDING TO THE RISKS RELATED TO THE TYPE OF USE AND IN COMPLIANCE WITH THE LAWS AND REGULATIONS IN FORCE. THEY MUST PERFORM ANY TYPE OF OPERATION EXCLUSIVELY ON THE BASIS OF THEIR SPECIFIC PROFESSIONAL COMPETENCE AND WITH THE CONSENT OF THE COMPANY SECURITY MANAGER.

The manufacturer assumes no liability for damage to persons or property resulting from the reuse of individual parts of the machine taken out of service for assembly situations other than the original ones.



14 SPARE PARTS

14.1 How to request spare parts

Spare parts must be ordered directly from the manufacturer providing the following information:

- · machine model;
- machine serial number;
- · year of construction;
- · designation of the desired part;
- means of transport. If this item is not specified, the Manufacturer, while dedicating particular care to this service, is
 not responsible for any shipping delays due to force majeure. Shipping costs are always the responsibility of the
 recipient. The goods travel at the customer's risk even if sold free of charge.

Finally, please note that the Manufacturer is always available for any need for assistance and/or spare parts.









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DICHIARAZIONE UE DI CONFORMITA'

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Dichiara che il modello - It is hereby declared that model -Déclare que le modèle Erklärt, daß die Maschine Modell - Declara que el modelo

BM2 MAXI / ST ID / BM2AS MAXI

Tipo - Type - Typologie - Typ - Tipo

Porzionatrici / Arrotondatrici

Dough dividers / Rounders - Diviseuses / Bouleuses - Portionierer/ Abrunder - Porcionadoras / Redondeadoras

IT è conforme alle disposizioni legislative che traspongono le direttive e successivi emendamenti:
 EN complies with the law provisions that transpose the directives and relevant amendments:
 FR est conforme aux dispositions législatives qui transposent les directives et amendements successifs:
 DE den gesetzlichen Richtlinienbestimmungen und nachfolgenden Änderungen:
 ES es conforme a las disposiciones legislativas que transponen las directivas y sucesivas enmiendas:

2006/42/CE - 2014/35/UE - 2014/30/UE - 2011/65/UE - 2012/19/UE

IT e inoltre dichiara che sono state applicate le seguenti norme armonizzate

EN it is also hereby declared that the following harmonized provisions have been applied

FR et en plus elle déclare que les normes suivantes ont été appliquées

DE sowie folgenden harmonisierten Normen:

ES y declara además que han sido aplicadas las siguientes normas armonizadas

IEC 60335-1 / IEC 60335-2-64 / EN 61000-3-2 / EN 61000-3-3 / EN IEC 55014-1 / EN IEC 55014-2

Nome della persona autorizzata a fornire il fascicolo tecnico - Name of the person authorised to supply the technical manual

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Paolo Pescatori

Firma del legale rappresentante - Signature of the legal representative Signature du représentant légal - Unterschrift des Rechtsvertreters Firma del representante legal

Paulo Pescatzai

(Paolo Pescatori)

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