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Mod: TS8

Production code: FTSM101



Diamond
catering equipment

Serie Mignon

Manuale delle istruzioni per l'uso



MODELLO	TS 8	TI 8	TG 8	TGI 8	GM
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GB	SERIE MIGNON	OPERATING MANUAL
E	SERIE MIGNON	MANUAL DE INSTRUCCION
F	SERIE MIGNON	MANUEL D'UTILIZATION
D	SERIE MIGNON	BEDIENUNGSANLEITUNG
RUS	СЕРИЯ МИНЬОН	РУКОВОДСТВО ПО ИСПОЛЬЗОВАНИЮ



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GUARANTEE

The machine is guaranteed 12 (twelve) months from the sale date.

The guarantee covers the machines reparations acquired c/o the authorized sale points, if it is demonstrated that they are faulty in the materials or in the assembly, to the conditions here follow described:

1. For guarantee gets on the free change of all parts that are resulted manufacturing defect. The guarantee decades if not coupled from fiscal ticket or invoice certifying the purchase and for the following cases:
 - a. Machine tampering or damaging due to negligence;
 - b. Machine use with non conformance modalities to the warnings described in the instructions handbook;
 - c. Damages caused from the non environment suitability in which the device works and from phenomenon not dependent from the machine normal functioning (voltage values irregularities and frequency in the net plant);
 - d. Reparations interventions performed from people or centers not authorized from the manufacturer;
2. The intervention request in guarantee will have to be performed only in the sale points or authorized laboratories;
3. The machine will have to be free port returned to the manufacturer for the reparation and the transportation expenses are always charged to the receiver,
4. It is excluded the machine change nor the guarantee prolongation following the intervention for damage;
5. The manufacturer doesn't answer for direct or indirect damages of any nature to people or things for the improper use of the machine or for lacked use during the time occurring for the reparations.

MODEL	TS 8 / TI 8 / TG 8 / TGI 8 / GM
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Use instructions manual	
Issue	November 2014

CHAP. 1. CONTENT ORGANIZATION AND CONSULTATION MODALITY

MANUAL PURPOSE

MANUAL IMPORTANCE

The present instruction manual for the use is to be considered as **integral part of the machine**:

1. Must be kept for all the machine life.
2. Must be coupled with the machine in case of its ceasing.
3. Besides to show all useful notices for the operators, contains (collected in specific chapters) the electric diagrams that will be used for the possible maintenance interventions and reparation.

Besides the present manual has been written with the purpose to supply **indications and warnings** to know the supplied machine, to understand its principles and functioning limits. For possible doubts you can call the Authorized Assistance Center.

RESPONSABILITY

- If the present manual endures damages or is lost, it is possible to request a copy to the Authorized Assistance Center.
- The present manual reflects the technical state during the machine manufacturing; the manufacturer reserves the right to update the production and of consequence other manual issues, without the obligation to update productions or previous manuals, if not in particular cases regarding the health and the people safety.
- Pay particularly attention to the residual risks content present on the machine and the prescriptions to which the operators must keep.
- The manufacturer is the responsible for the machine in its original configuration.
- The manufacturer isn't the responsible for damages caused from the improper use or not correct of the machine and documentation or for damages caused from the imperative standards violation, negligence, lack of experience, imprudence and the not respect of regulation standards on behalf of the employer, of the operator or the maintenance man and for every possible damage, caused from an irrational, improper and/or wrong use.
- The manufacturer isn't the responsible for the consequences caused from the not original spare parts use or of equal characteristics.
- The manufacturer is the responsible only for the information showed in the manual original version in Italian language.
- The prescriptions non-fulfillment contained in this manual will cause the guarantee immediate decay.

The factory responsibles, that supervision to the working activities, in the field of the foreseen respective attributions and competence, must:

- Carry out the foreseen safety measures;
- Make informed the operators about the specific risks whom are exposed and bring to their knowledge the prevention essential standards;
- Prepare and require that the single operators observe the safety standards and use the protection means put at their disposal;
- Work an operator, contemporary, on this product.

CHAP. 2. GENERAL INFORMATION AND CHARACTERISTICS

GENERAL INFORMATION AND CHARACTERISTICS

Meat mincer designed to be used with plate holes diameter smaller or equal to 8mm.

The mincer – grater, here follow is called “machine”, è designed for:

1. With the grinding group placed from a side, to mince, reduce of size **fresh meat not frozen, through cutting tools** to obtain meat sauce, hamburgers, meatballs and sausages. The meat must be without bones, or other parts of different consistency from the meat.
2. With the grater group placed on the opposite side of the machine, to **grate tough cheese, bread and biscuits**.

In the grinding group, the machine is constituted from an electric motor inserted in a unique merger (basic machine body). In some versions the merger can be recovered from a bonnet (hulled machine body).

The meat to grind, is loaded manually in the load hopper, placed in the superior zone of the machine and always manually and with the pestle help is introduced in the grinding neck towards the Archimedean screw.

The hopper is blocked to the machine neck. The pestle is of plastic material suitable for the contact with food products.

The grinding group is of Enterprise type it comes with 6mm plate holes diameter.

The plate in turn is pressed against the cutter from the wheel inserted on the grinding group mouth.

The grinding group is dismantleable; all direct contact materials with the food material are in conformance with the actual hygienic standards for food.

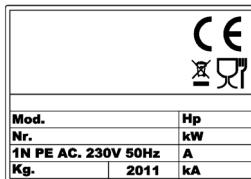
In the grinding group, the motor used for the grater rotation is the same used in the grinding group.

The product to grate is loaded manually inside the grater mouth placed in the machine superior zone, and always manually, acting the pressure with its handle, the product is driven against the **grater roll**.

The product load must happen in moderate quantity to avoid that lowing the pressure the machine doesn't start, due to the safety micro switch placed in the pressure block.

The grater roll, which can be milled, cannot be removed from the machine.

The machine is supplied with the identification plate on which the following data are showed:

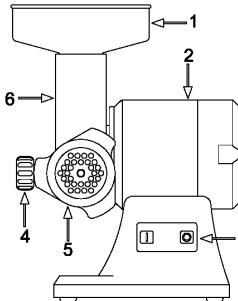
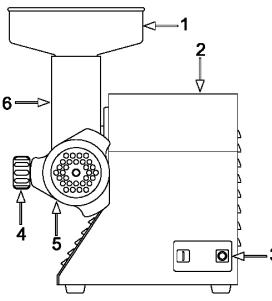
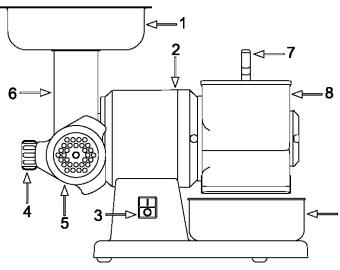
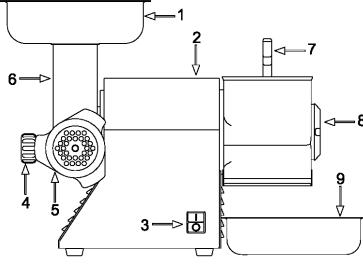
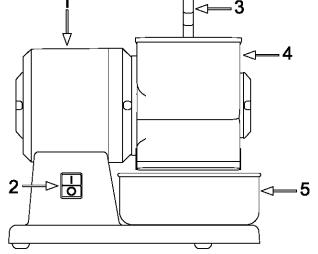
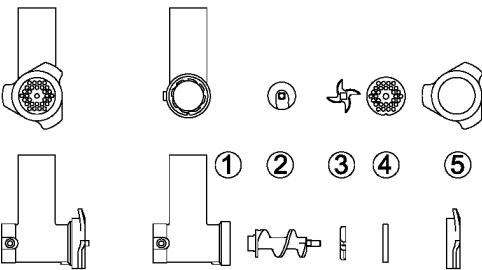


[fac simile]

TECHNICAL AND MANUFACTURING DATA

TECHNICAL DATA	MODEL				
	TS 8	TI 8	TG 8	TGI 8	GM
Motor power (kW) / (Hp)	0.38/ 0.5	0.38/ 0.5	0.38/ 0.5	0.38/ 0.5	0.38/ 0.5
Grinding mouth internal size (mm)	60	60	60	60	---
Grater mouth internal size (mm)	---	---	110 x 65	110 x 65	110 x 65
Mincer timetable production (kg/h)	20	20	20	20	---
Grater timetable production (kg/h)	---	---	30	30	30
Mass (kg)	9	10	10	12	8
Maximum sizes: A x B x C (mm)	270 x 260 x 360	270 x 280 x 350	380 x 260 x 360	400 x 280 x 360	280 x 170 x 310
Continue acoustic power level considered equal to A				Minor of 70dBA	
Current nature – Frequency				Machine plate	
Full charge current				Machine plate	
Use nominal voltage				Machine plate	
Auxiliary circuits voltage				AC 24V – DC 24V	
Mass and neutral				TT e TN	
Protection degree				IP X3	
Use place				Inside	
Machine positioning	Working ground used in the food field of height included between 900/1100mm from the trampling level of adequate capacity, with a free circulation space of at least 800mm				
Environment air max. temperature				+40°C	
Requested minimum illumination				500 lux	
Product directive conformance	2006/42/CE, 2006/95/CE and successive modifications and integration, Reg. 1935/2004				

GROUP	MODEL				
	TS 8	TI 8	TG 8	TGI 8	GM
Basic machine body	●		●		●
Hulled machine body (I)		●		●	
Grinding group	●	●	●	●	
Milled grater roll			●	●	●

GROUP	EXAMPLE	
1. Load hopper 2. Machine body 3. Control switch ON / OFF 4. Mouth block knob 5. Blockage wheel 6. Machine neck	 <p>Mincer: basic machine body</p>	 <p>Mincer: hulled machine body (I)</p>
1. Load hopper 2. Machine body 3. Control switch ON / OFF 4. Mouth block knob 5. Blockage wheel 6. Machine neck 7. Pressure handle 8. Grater mouth 9. Collect container	 <p>Mincer/Grater: basic machine body</p>	 <p>Mincer/grater: hulled machine body (I)</p>
1. Machine body 2. Control switch ON / OFF 3. Pressure handle 4. Grater mouth 5. Collect container	 <p>Grater: basic machine body</p>	
Grinding group 1. Grinding mouth 2. Archimedean screw 3. Cutting knife 4. Drilled plate 5. Blockage wheel		

NORMAL USE, IMPROPER USE, NOT CORRECT USE OR FORBIDDEN

The machine described in the present instructions manual for the use is foreseen to be driven from an only operator skilled and prepared on residual risks, but with the competence, in safety matter, of maintenance employees.

In its **NORMAL USE**, and **reasonably** foreseeable, the machine can be used only for:

1. **With the grinding group**, to mince, reduce of size **fresh meat not frozen, through cutting tools** to obtain stew, hamburgers, meatballs and sausages. The meat must be without bones or other parts of consistency different from the meat.
2. **With the grater group**, to grate tough cheese, bread and biscuits.

The machine must not be used **IN IMPROPER WAY**; in particular:

1. It must not be used for domestic uses,
2. It must not functioned with parameters different from those showed in the technical characteristics table,
3. For every use of the machine with modalities different from those showed in the present manual, the manufacturer declines every responsibility,
4. The user is responsible of the damages resulting from the lacked exercise conditions observance in accordance with the greed technical specifications and order confirmation,
5. **The grinding group must not functioned in vain; when the grater group is used, disassembly the grinding group**,
6. Not tamper or damage intentionally nor remove or hide the labels.

The machine must not be used **IN NOT CORRECT WAY** or **FORBIDDEN** so some damages or injuries could be caused for the operator; in particular:

1. It is forbidden **to move the machine** when it is connected to the electric feeding;
2. It is forbidden **to draw the electric feeding cable or the machine** to disconnect the feeding plug,
3. It is forbidden **to put weights** on the machine or on the electric feeding cable,
4. It is forbidden **to put the electric feeding cable** on sharp parts or with burn danger,
5. It is forbidden the machine use with the damaged and not integer **electric feeding cable or with the control devices**,
6. It is forbidden to **leave the machine off** with the electric feeding cable connected with the feeding plug,
7. It is forbidden **to leave the loaded machine unguarded**;
8. It is forbidden to **insert any type of object** inside the motor ventilation cap;
9. It is forbidden to **put the machine above different objects from the working ground** used in the food field of height included between 900 - 1100mm from the **trampling level**,
10. It is forbidden to **insert any kind of object** under the machine base or put clothes or other between the machine support pressure feet and the working ground,
11. It is forbidden **the use of inflammable substances, corrosive or harmful for the cleaning**,
12. It is forbidden **to plunge the machine** in water or in other liquids;
13. It is forbidden **the not authorized personnel use** and with clothes different from that showed for the use,
14. It is forbidden to **introduce in the grinding neck and in the grater mouth, products or objects having characteristics** different from those showed in the normal use, such as for example bones, frozen meat, not food products, or other objects as scarves, etc....,
15. It is forbidden **to introduce in the exit zone of the grated product, any object**, as for example knifes blades, etc....,
16. It is forbidden to **remove the hopper** during the machine working or however when some food product has been left to work,
17. It is forbidden to **slacken the mouth block knob or the blockage wheel** both during the working and however **before of 5 sec** from the machine stop control,
18. It is forbidden the functioning **with the protection shelters and fixes not blocked correctly or removed**;
19. It is forbidden **the partial removal** of the protections and of the danger signals.
20. It is forbidden the functioning without that all the **precautions about the residual risks elimination** have been adopted on behalf of the user,
21. It is forbidden to **smoke or use free flame devices** and manipulate incandescent materials, unless some suitable safety measures aren't adopted,
22. It is forbidden to work or **regulate the control and blockage devices as knobs or similar** both during the machine functioning, both if you aren't authorized
23. **the use of plates with holes diameter bigger than 8mm is forbidden**.

The user is however responsible of the damages resulting from the lacked observance of the specified normal use conditions. For possible doubts you can enquire at the Authorized Assistance Center.

CHAP. 3. SAFETY INSTRUCTIONS

WARNINGS ON THE RESIDUAL RISKS

RESIDUAL RISK DUE TO THE FIXED PROTECTIONS REMOVAL, INTERVENTIONS ON BROKEN/WORN PARTS

For any occasion the operator must not try to open or remove a fixed protection or tamper a safety device.

In the phase of **equipment, maintenance and cleaning**, and **during all further manual operations** that happens introducing the hands or other body parts in the machine dangerous areas, a residual risk remains due above all to:

1. Knocks with machine manufacturing parts,
2. Grazing and/or abrasion with machine rough parts,
3. Sharp pain with the sharpened parts,
4. Cut with tools sharpened parts.

Besides, the operator and the maintenance man **must be skilled for the intervention connected to the manual operations with open protections**, must be trained on the joined consequent risks and must be authorized from a responsible person.

PROTECTION DEVICES ON THE MACHINE

The machine protections and safety devices must not be removed.

If they must be removed for extraordinary maintenance requirements **some measures will have to be immediately adopted ready to put in evidence and to reduce at the possible minimum limit the danger**.

The **putting back in its place** of the protection or of the safety device must happen as soon as the reasons, that have made necessary their temporary removal, are stopped.

The machine transmission parts are completely isolated by means of fixed protections which don't allow the access for none kinematical chain.

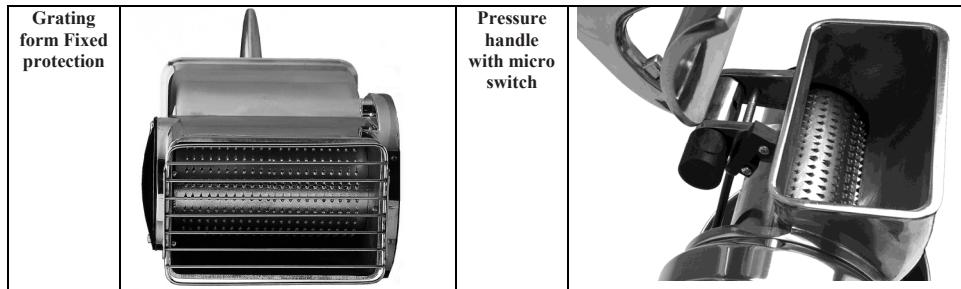
For all **safety functions** including the control and check systems parts joined to the safety, some well-tested components and safety principles have been used.

Grinding group:

1. Taking into account of the machine use modality and its use destination, the moving elements aren't isolated from fixed protections, moving protections or other safety devices.
2. The grinding group parts result placed at some distances from the access points such for which some dangerous points aren't reachable.

Grater group:

1. Taking into account of the machine use modality and its use destination, the moving elements aren't isolated from fixed protections, moving protections or other safety devices.
2. On handle and pressure group a micro switch is placed, which stops the grater roll rotation when it is possible to access through the grater mouth;
3. In the inferior zone of the grater group in correspondence of the grated product exile a grating form fixed protection is present, which prevent the fingers access towards the grater roll.



CHAP. 4. TRANSPORTATION, PUT ON SERVICE AND USE

The machine management is allowed only to the authorized personnel and opportunely educated and endowed of a sufficient technical experience.

Before to switch on the machine perform the following operations:

- Read with attention the technical documentation,
- Know what protections and emergency devices are available on the machine, their location and functioning.

The **not authorized use** of commercial parts and accessories making part of the protections and safety devices can cause some malfunctions and the ranger situation beginning for the operators. **The operator must besides** have received an adequate training.

PACKING REMOVAL – OPENING MODALITY

The machines are packed so that the infiltration / entering of liquids, organic matters or beings alive is avoided: this is performed from a covering in polyethylene around the machine, and inserted in a cardboard box of adequate size. The empty spaces inside the box are occupied from the filling material.

Don't waste the packing in the environment, but restore it for possible transportation or address it to the recycling agencies. The evaluation and the management with the aim of the products biological compatibility used in the packing are of the user competence and responsibility.

It is an employer obligation to be acquainted of the actual laws in own country and work so that to observe these legislations.

It is forbidden and besides liable to fines, leave the machine and the electric equipment in the environment.

PREPARATION PRELIMINARY OPERATIONS

ELECTRIC FEEDING

The electric feeding connection must be in conformance with the country legislation in which is used.

The **electric feeding** must be always of the type and have an intensity corresponding to the specifications indicated in the machine number plate.

GRINDING GROUP ASSEMBLY / DISASSEMBLY

The assembly / disassembly operations of any machine part are performed with the stop machine and with the plug disconnected from the socket, or with the sectioning device in OFF.

The grinding group assembly on the machine takes place in two phases (in exemplifying way it is showed the grater mincer with basic machine).

<p>The phase n. 1 for the grinding group is performed on a working ground following the under reported order:</p> <ol style="list-style-type: none"> 1. Insert in the pipe union (1) in the order: Archimedean screw (2), cutting knife oriented as in figure and inserted in the dragging pivot (3), drilled plate (4) inserted in the pipe union place (1); 2. Screw down and tighten the blockage wheel (5). 	
<p>The phase 2 is performed on the machine:</p> <ol style="list-style-type: none"> 1. Insert up to the blow the complete grinding group (B) on the machine (A); 2. Tighten the mouth stop knob (C) up to when the grinding group (B) is blocked on the machine (A); 3. Insert the hopper (D) in the machine neck 4. In these conditions the machine is ready to work. 	

The disassembly activities of the grinding group from the machine are performed following in the backwards way the assembly phases previously described, starting from the phase n. 2 passing to the phase n. 1.

For a plate and knife better improvement and duration it is advised **to keep them always coupled**.

FUNCTIONING DESCRIPTION

The control devices are designed and manufactured so as much sure and reliable and resistant to the service normal stresses, to the foreseeable strains and to the external agents. Besides they are clearly visible, locatable and marked from a suitable marking. Here follow the main control devices are showed:

TYPE / COLOR	REFERENCE / DESCRIPTION
button / black	"0" / button for the machine stop control
Button / white	"I" / button for the machine start control

STARTING

The machine starting is possible only with a voluntary action on the **control device foreseen for this aim**: white button "I" for the machine starting control.

STOP

For the stop control push the black button "0". In case of **momentary or extended stop**, before to get in function the machine, all food products must be removed within the machine: follow the indications relative to the grinding group disassembly.

FUNCTIONING SAFETY

If the machine is **under stress**, or is submitted to too long functioning times or submitted at overloaded, the same stops immediately for the thermal protection functioning. In this case wait that it is completely cooled before proceeding to the starting function.

VOLTAGE LACKING

In case of electric feeding breaking or if the machine is disconnected from the electric net, this last one will be able to be restarted only following the starting function, **after the electric feeding back or the reconnection to the electric net**.

PRESSURE OPENING

Lifting for the handle the pressure of the grater group, the machine stops immediately for the safety micro switch functioning. The machine can be restarted only lowering the pressure up to the height that doesn't allow the fingers introduction towards the grater roll and following successively the starting function.

CONTROLS AND VERIFICATIONS BEFORE STARTING

VERIFICATION / CONTROL	MODALITY AND CHECKS
<u>Check that:</u> ➤ Extraneous objects aren't on the machine, inside the hopper, inside the machine neck, inside the grater mouth and in correspondence of the exile zone of the grated product	Sight control of the indicated parts, to check of objects or extraneous bodies lacking as for example different tools, clothes, etc... and that there isn't however the food product. In case of presence, provide with their removal.
<u>Check the cleaning:</u> ➤ Of the machine neck internal parts and of the grinding group ➤ Of the pusher ➤ of the grater mouth, of the pressure and the grater roll ➤ of the machine external surface	All indicated parts surfaces, before the machine use must be checked visually to verify their cleaning. For the sight check of the grinding group internal parts, provide with its disassembly. In case of molds presence or other type of dirtiness, provide with the cleaning procedure in accordance with the chapter 5 indications
<u>Check the integrity:</u> ➤ of the fixed protections, ➤ of the loading hopper, ➤ of the machine neck, ➤ of the grater mouth, the pressure and the grater roll ➤ of the machine body	All fixed protections, etc..., must perform the function for which have been foreseen. Indicated parts sight check to verify their integrity in their surface external part. The parts must be however changed at the first erosion signals or breaking.
<u>Check the functionality:</u> ➤ of the control system parts / safety control; ➤ Of the control devices.	All devices must perform the function for which have been foreseen. Control directly the devices so that these ones determine the waiting function. The actuators and all parts must be however changed to the first erosion signals or breaking.
<u>Check the absence:</u> ➤ Of strange noises after the starting	During the functionality checking of the control devices, if there are strange noises, due for example to a seizing or mechanical breaks stop immediately the machine and activate the maintenance service.
<u>Check the absence:</u> ➤ Of oil trails both on the machine support ground both in the Archimedean screw	Both during the working, both at the end of every work, both in the assembly moment of the grinding group; check the oil trails absence in the indicated parts. If there are some fluid drops stop immediately the machine and activate the maintenance service.

For any intervention type or for the parts change that are damaged, **activate the maintenance service**. The possible change must happen with manufacturer original products or at least of quality, safety and equivalent characteristics. For analysis contact the Authorized Assistance Center.

PUT IN FUNCTION

The machine operator can put in function the machine following in order the under reported indications:

1. Controls positive result for the preparation preliminary operations,
2. Controls positive result for the electric feeding,
3. Plug connection in opportune current socket,
4. For the functioning of the **GRINDING GROUP**:
 - a. Checks positive result for the grinding group assembly,
 - b. Checks positive result for the Archimedean screw correct rotation,
 - c. Checks positive result / verifications before starting,
 - d. Finalized checks positive result and verify the all safety conditions respect,
 - e. Lower in its lowest position the pressure handle of the grater group,
 - f. Place a gathering basin in the machine anterior zone in correspondence of the ground meat exit zone,
 - g. Put in the machine left side and start the machine acting the control device of start "I",
 - h. Introduce manually the food product within the machine neck and drive it towards the Archimedean screw using the pestle in equipment,
 - i. At the end of the food product introduction, or when from the drilled plate doesn't come out more the product, stop the machine acting the control device of stop "0".
5. For the functioning of the **GRATER GROUP**:
 - a. Grinding group disassembly,
 - b. Checks positive result for the grater roll correct rotation,
 - c. Checks positive result / verifications before the starting,
 - d. Finalized checks positive result and verify the all safety conditions respect,
 - e. Place a gathering basin in the machine anterior zone in correspondence of the grated product exit zone,
 - f. Put in the machine left side and start the machine acting the control device of start "I",
 - g. Introduce manually the food product within the grater mouth and drive it towards the grater roll lowering the pressure roll,
 - h. At the end of the food product introduction, or when in the basins the product is not more left, stop the machine acting the control device of stop "0".

It is recommended to make not work the machine in vain, without the food product.

It is recommended to make not work the grater group, with the assembled grinding group.

SWITCHING OFF

In succession, the switching off must follow what here under indicated:

1. Before the switching off wait the food product exile conclusion from the drilled plate or in the grater roll inferior zone,
2. Stop the machine acting the control device of stop "0",
3. Disconnect the machine plug from the feeding socket,
4. Perform the cleaning interventions.

UNBLOCK IN CASE OF OBSTACLE

During the working, or during the Archimedean screw rotation or of the grater group, due to:

1. The introduction of food products with not homogeneous parts, as for example bones, or other,
2. The introduction of products excessively hard and dry, the machine could block, the machine could block.

The same situation can determine after an electric feeding break, or when the machine is stopped with inside the food product.

To be able to resume normally the working:

1. If the block is happened in the grinding group, this must be disassembled: the disassembly must not happen slackening the blockage wheel, but slackening the grinding mouth block knob,
2. If the block is happened in the grater roll, the blocked food product must be removed manually.

CHAP. 5. DAMGES RESEARCH AND CLEANING

BREAKS OR DAMAGES RESEARCH AND MOVING ELEMENTS UNBLOCKING

Here follow are indicate the interventions for the breaks or damages research and moving elements unblocking which can be performed from maintenance men.

TYPE	POTENTIAL CAUSE/S	MODALITY AND COMPARISONS
Net voltage lacking	General Black out Fuses or magneto thermals intervention place upstream of the machine feeding line	Contact the electric energy distributor After having eliminated the causes that have determined the protection device intervention, restore it. In case of problem persistency contact an electrician technician.
Functioning intervention	Protection device intervention inside the machine	Contact an electrician technician: after having eliminated the causes that have determined the protection device intervention, restore it. In case of fuses intervention , change them with types of the same model, calibration and intervention curve.
	Grater group handle lifting	Lifting the grater group pressure handle, the machine stops immediately for the entry in function of the safety micro switch. Lower the pressure up to the height that doesn't allow the fingers introduction towards the grater roll and start the machine.
	Cause/s not identifiable	Contact directly the <u>Authorized Assistance Center</u>
The machine doesn't function: the Archimedean screw or the grater roll don't rotate	Feeding voltage lacking.	Check and restore the electric energy.
	Sectioning devices set on "OFF".	Turn the sectioning devices in the position "ON"
	Intervened fuses or not functioning magneto thermals.	Change the intervened fuses, check the magneto thermal switches state.
	Lacked running button functioning	Check the START button efficiency and eventually contact directly the <u>Authorized Assistance Center</u> .
	Thermal intervention due to the overheating	Wait the complete cooling before the machine restarting
	Damaged micro switch	contact directly the <u>Authorized Assistance Center</u>

CLEANING

It is forbidden to clean by hand the organs and the elements in motion.

All cleaning interventions must be started only and exclusively, after having unloaded the machine with the food product in working and having insulated from the electric feeding source and from external energy.

The machine, the electric equipment and the machine board components **must not be ever washed utilizing water, and not in any kind of jets form and quantity; so, without "bucket" nor "rubber" nor "towel"**. Don't put ever directly the machine in the sink or under the tap.

The machine hygiene level classification and the associated equipment, for the foreseen use, is 2 (two): machine that, after an hygiene risk evaluation, is in conformance with applicable international standards requirements, but requests a programmed disassembly for the cleaning.

FREQUENCY	PERSONNEL	MODALITY
At the end of every shift work and however before the daily use	Operator	<p>All the surface and the machine parts destined to come in contact with the food product or with the food zones (hopper internal surface, machine neck and the grinding group, the pestle, the pressure, the grater mouth and the grater roll) and the jets zones (machine external surface) must be cleaned and disinfected with the under reported modalities. For the grinding group disassembly activities see the previous descriptions.</p> <ul style="list-style-type: none"> ➢ Scrape the surfaces from the possible food product residuals (for example with plastic scrapers); ➢ Clean all the food zone surfaces and jets zone with a morbid dampened clothes (not draining) with detergent diluted in hot water (also common soap for dishes is good). Don't soak them. With a towel clean inside the grinding mouth. Use specific products for steel or for the aluminum: which must be liquids (not in cream or pastries however abrasive) and above all must not contain chlorine. Against the fat substances the denatured alcohol. ➢ Rinse with cleaned hot water and successively dry all food zone surfaces and jets zone with soft clothes that don't lose coats. ➢ Only the STAINLESS steel parts of the mincer group can be washed also in dishwasher, while the aluminum ones or in cast iron showed in the following table, cannot be washed in dishwasher. ➢ The grinding group reassembly must happen only after a working requirement, leave the pieces wrapped in a dry soft clothes that don't lose coats

		<p>DISINFECTION</p> <ul style="list-style-type: none"> ➢ Use detergents with PH neutral not oxidizing ➢ If the hot water is used ($> 60^{\circ}\text{C}$) use exclusively demineralised water. ➢ If other products are used, these ones must be adequate to the material type. <p>For the machines with aluminium parts or in cast iron (see following table) it is possible to use peracetic acid products.</p> <p>PERIODS OF LONG INACTIVITY</p> <ul style="list-style-type: none"> ➢ During the machine long inactivity periods provide to pass vigorously on all steel surfaces (especially if stainless) a clothes soaked of Vaseline oil so that to spread a protective veil. <p>THINGS DA NON FARE BEFORE OR DURING THE CLEANING:</p> <ul style="list-style-type: none"> ➢ Enter towards the moving elements without <u>to be previously checked of their stop</u>: ➢ Enter towards the moving elements without have stopped it <u>in safety stop</u> (blockage in zero position of the electric feeding sectioning devices) <p>PRODUCTS NOT TO USE:</p> <ul style="list-style-type: none"> ➢ <u>Compressed air with jets towards the zones with flour warehouses</u> and in general towards the machine; ➢ <u>Vapor equipment</u>: ➢ Detergent that contains CLORO (also if diluted) or its compounds as: the bleach, the muriatic acid, products to clear the drain caustic soda, products for the marble cleaning, in general decalcifying, etc ... can attack the steel composition, staining and oxidizing it unavoidable. The only above described products fumes can oxidize and in any case corrode the steel; ➢ Steel wool, brushes or abrasive discs produced with other metals or alloys (ex. Common steel, aluminum, brass, etc...) or tools that have previously cleaned other metals or alloys, that except to scratch the surface. ➢ Detergents in abrasive dust; ➢ Fuel, solvents or inflammable and/or corrosive fluids; ➢ Substances used to clean the silver.
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PRODUCTS IDENTIFICATION TABLE WITH MINCER GROUP IN ALUMINUM

MOD	ALUMINUM (Codes)
TS8	FTSMI101
TI8	FTSMI101
TG8	FTGMI102
TGI8	FTGMI102



The crossed container symbol on the machine shows that the product at the end of its useful life must be collected separately from other refusals



If we decide to not use ever the machine because it is obsolete, damaged or worn, its out of service must be entrusted to specialized and trained personnel. At the end of the dismantling activities all identification plates and other document must be destroyed. The machine can be sold without the possibility to reduce it in small pieces; it is sufficient to disconnect the main groups that compose it and to send them for the scrapping.

Don't sell the machine like mixed urban refusal, perform the waste separation.

The machine collection or harvest systems are:

- Collection through distributor consortium
- Delivery possibility to the machine distributor equivalent to the purchasing certificate of a new machine.

In the machine there aren't dangerous substances with potentially negative effects on the ambient and on the human health. It is fundamental that the purchasers contribute to the reuse, to the recycling and to the other forms of machine restoring. It is the employer obligation to be aware of the actual laws of own country and work so to be comply with these legislations.



It is forbidden and besides liable of penalties to leave the machine and the electric equipment in the ambient.

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CHAP. 7. MANUFACTURING MATERIALS

In accordance with the functioning and production requirements, the machine can be constituted with different typology of manufacturing materials.

GROUP	MATERIALS TYPOLOGY				
	Stainless Steel 18/8	Stainless steel AISI 304	Stainless steel AISI 440	Aluminum for foods	Treated steel for foods
Machine body and hopper	●			●	
Knives and drilled plate			●		
Grinding group		●		●	
Milled grater roll		●			●
Pressure, handle, grater mouth				●	

**SCHEDA ELETTRONICA
ELECTRONIC CARD
FICHAS ELECTRÓNICAS
FICHES ÉLECTRONIQUES
LEITERPLATTEN
ЭЛЕКТРОННЫЕ СХЕМЫ**

TG 8 / TGI 8 / GM (1 N PE AC 230V 50Hz)	
<p>PDC = protezione termica SQ1 = micro interruttore C = condensatore 12,5 µF 7-8-11 = motore 5-6 = 2 AC 230V 50Hz L1-N1 = motore L-N = 2 AC 230V 50Hz</p> <p>PDC = thermal protection SQ1 = micro switch C = condenser 12,5 µF 7-8-11 = motor 5-6 = 2 AC 230V 50Hz L1-N1 = motor L-N = 2 AC 230V 50Hz</p> <p>PDC = protección térmica SQ1 = micro interruptor C = condensador 12,5 µF 7-8-11 = motor 5-6 = 2 AC 230V 50Hz L1-N1 = motor L-N = 2 AC 230V 50Hz</p> <p>PDC = protection thermique SQ1 = micro-interrupteur C = condensateur 12,5 µF 7-8-11 = moteur 5-6 = 2 AC 230V 50Hz L1-N1 = moteur L-N = 2 AC 230V 50Hz</p> <p>PDC = Thermoschutzschalter SQ1 = Mikroschalter C = Kondensator 12,5 µF 7-8-11 = Motor 5-6 = 2 AC 230V 50Hz L1-N1 = Motor L-N = 2 AC 230V 50Hz</p> <p>PDC = термическая защита SQ1 = микровыключатель C = конденсатор 12,5 µF 7-8-11 = мотор 5-6 = 2 AC 230V 50Hz L1-N1 = мотор L-N = 2 AC 230V 50Hz</p>	TCGR2 <p>The diagram shows a motor connection. On the left, there is a thermal protection switch (PDC) in series with the power lines. A microswitch (SQ1) is connected in parallel with the PDC. The motor is connected in series with the power lines. A capacitor (C) is connected across the motor terminals. The neutral line (N) is connected to ground. The power lines are labeled NERO (Black), ROSSO (Red), and BIANCO (White). The neutral line is labeled NERO (Black) and ROSSO (Red). The ground connection is labeled BIANCO (White). A condenser (CONDENSATORE) is also connected across the motor terminals.</p> <p>CN1 = PULSANTIERA</p>
	FGM113-N <p>The diagram shows a motor connection. On the left, there is a thermal protection switch (PDC) in series with the power lines. A microswitch (SQ1) is connected in parallel with the PDC. The motor is connected in series with the power lines. A capacitor (CONDENSATORE) is connected across the motor terminals. The neutral line (N) is connected to ground. The power lines are labeled LINEA (Line), ROSSO (Red), and NERO (Black). The ground connection is labeled BIANCO (White). A condenser (CONDENSATORE) is also connected across the motor terminals.</p>

	TS 8/ TI 8 (1 N PE AC 230V 50Hz)
<p>PDC = protezione termica C = condensatore 12,5 µF L1-N1 = motore L-N = 2 AC 230V 50Hz</p> <p>PDC = thermal protection C = condenser 12,5 µF L1-N1 = motor L-N = 2 AC 230V 50Hz</p> <p>PDC = protección térmica C = condensador 12,5 µF L1-N1 = motor L-N = 2 AC 230V 50Hz</p> <p>PDC = protection thermique C = condensateur 12,5 µF L1-N1 = moteur L-N = 2 AC 230V 50Hz</p> <p>PDC = Thermoschutzschalter C = Kondensator 12,5 µF L1-N1 = Motor L-N = 2 AC 230V 50Hz</p> <p>PDC = термическая защита C = конденсатор 12,5 µF L1-N1 = мотор L-N = 2 AC 230V 50Hz</p>	TCGR2 <p>CN1 = PULSANTIERA</p> <p>CONDENSATORE µF12,5 V400</p>