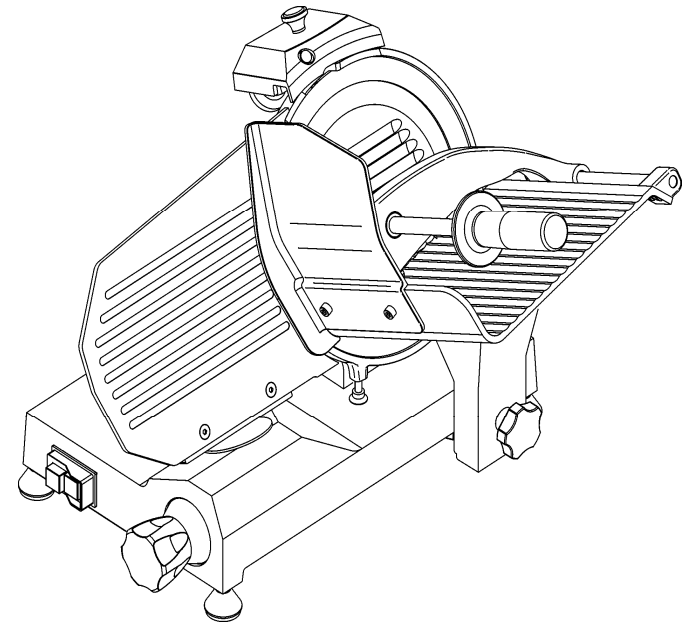


Professional slicer USA: **MIRRA** 220 - 250 - 275 - 300C - 300

OPERATING AND MAINTENANCE MANUAL



***SERVICE CENTRE
AUTHORISED DEALER***

Ed. 02/2014

INTRODUCTION

- *This manual is meant to provide customers with information on the slicer and its specifications and the necessary operating and maintenance instructions in order to guarantee the best possible use of the machine and preserve its efficiency in the long term.*
- *This manual is to be used by qualified and skilled people well informed about the use of the slicer and its periodical maintenance.*

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7.6 - GRINDING MOLES

Check that the grinding moles retain their abrasive property during sharpening operations. If they must be replaced not to damage the blade; therefore call the "SERVICE CENTRE".

7.7 - LUBRICATION OF SLIDING GUIDES

From time to time pour some oil drops (from the oil phial provided with the slicer) onto the round bar along which the carriage slides back and forth; this operation can be carried out through the hole (OIL) next to the dial knob.

7.8 - LABEL OF THE PUSH-BUTTON PANEL

If the label of the push-button panel has been damaged, call the "SERVICE CENTRE" to substitute it.

CHAP. 8 - DISMANTLING

8.1 - OUT OF SERVICE

If for some reasons it is decided to put the machine out of service, make sure that it cannot be used by anyone: **detach or cut the electrical connections.**

8.2 - DISPOSAL

Once the machine is put out of service it can be easily disposed of. To correctly dispose of the slicer, ask any company assigned to such a service carefully observing the materials used for the various components (**see chap. 4 par. 4.1**).

6.2.3 - cleaning of the sharpener

The sharpener cleaning operation is carried out by rubbing the grinding moles with a brush; the moles must be placed in the safety position which means that they must be turned towards the side opposite to the blade.

6.2.4 - cleaning of the deflector

The two screws (a) locking the deflector must be unscrewed to remove it (see FIG. n°16).

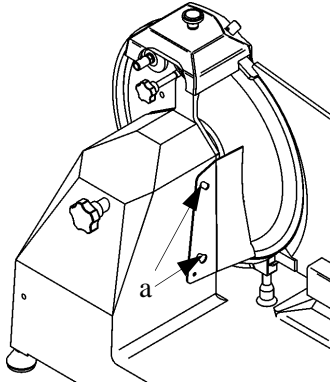


FIG. n.°16 - view of the

At this stage clean the deflector with hot water and neutral detergent.

CHAP. 7 - MAINTENANCE

7.1 - GENERAL FEATURES

Before starting maintenance it is necessary to:

- a) disconnect the power supply cord plug from the socket to isolate the slicer from the electric circuit completely.
- b) place the dial knob adjusting the thickness plate in the "0" position.

7.2 - BELT

The belt is not to be adjusted. Generally it must be replaced after 3/4 years; in this case please call your authorized "SERVICE CENTRE".

7.3 - FEET

Feet may deteriorate and lose elasticity thus reducing the stability of the slicer. In this case they must be replaced.

7.4 - POWER SUPPLY CORD

Periodically check whether the power supply cord is worn-out and, if this is the case, please call the "SERVICE CENTRE" to have it replaced.

7.5 - BLADE

Check that the blade does not lose more than 10mm of its original diameter. To have it replaced call the "SERVICE CENTRE".

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- 7.1 - GENERAL FEATURES
- 7.2 - belt
- 7.3 - feet
- 7.4 - power supply cord
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- 7.6 - grinding mole
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CHAP. 1 - INFORMATION ON THE SLICER

1.1 - GENERAL PRECAUTIONS

- The slicer must be operated only by highly qualified people who are fully aware of the safety measures described in this manual.
- In case of a personnel turn over, training is to be provided in advance.
- Although the slicer is equipped with safety devices in the dangerous points, it is recommended not to touch the blade and the moving components.
- Before starting cleaning and maintenance, disconnect the slicer plug from the supply socket.
- Assess the residual risks carefully when protection devices are removed to carry out cleaning and maintenance.
- Cleaning and maintenance require great concentration.
- A regular control of the electric supply cords is absolutely necessary; a worn-out or damaged cord can expose users to great electric shock hazard.
- If the slicer shows malfunctions, it is recommended not to use it and to abstain from trying to repair it; please call the "SERVICE CENTRE".
- Do not use the slicer for frozen products, meat and fish with bones and any products other than foodstuffs.
- **Do not use the slicer without the help of the meat pusher, when the meat is nearly finished.**
- **Do not place yourself in a dangerous position, the blade may cause injuries.**
- The manufacturer is not liable in the following cases:
 - ⇒ if the slicer has been tampered by non-authorized personnel;
 - ⇒ if some parts have been substituted by non original spare parts;
 - ⇒ if the instructions contained in this manual are not followed **accurately**;
 - ⇒ if the slicer is not cleaned and oiled with the right products.

1.2 - SAFETY SYSTEMS INSTALLED IN THE SLICER

1.2.1 - MECHANICAL SAFETY SYSTEM

The mechanical safety system of the slicer described in this manual complies with **UL 763** norms and **CSA 22.2** regulations.

The safety system includes (see 1.3.3):

- blade guard;
- ring;
- cover;
- meat pusher;
- meat pusher knob with ring nut and spacer;
- hand cover on the meat hopper;
- carriage only removable when the thickness gauge is set in the "0" position, at the end of its travel and towards the operating side.

1.2.2 - ELECTRICAL SAFETY SYSTEM

The safety system installed to protect users against electrical risks is in compliance with **UL 763** and **CSA 22.2** norms.

The slicer is equipped with:

6.2.2 - blade, blade guard and ring cleaning

Unscrew the knob of the tie screw (1) (see FIG. n°14) to release the blade guard (2).

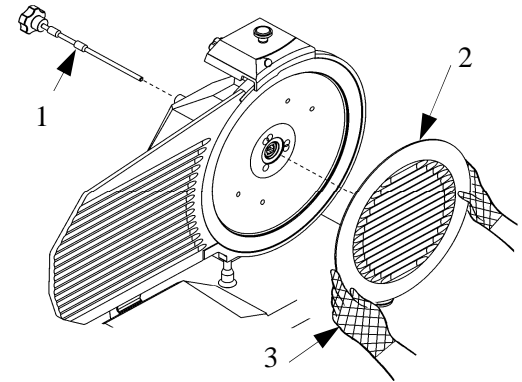


FIG. n°14 - Release of blade guard

WARNING: the blade cleaning must be carried out with metal gloves (3) and a wet cloth. To clean the blade on the opposite surface, it is necessary to remove the blade (see FIG. n°15).

The blade is to be removed as follows:

- 1) disassemble the blade cover (see FIG. n°14);
- 2) remove (a) the sharpener and open the thickness plate with the dial knob to make the blade removal tool (b) adhere to the blade;
- 3) loosen the 3 or 4 screws (f) (according to the model) that fix the blade;
- 4) lean the plexiglas blade removal tool on the blade to obtain the coupling of the blade holes with the two screws (e), turn the blade until it reaches the correct position;
- 5) tighten the screws (e) not excessively.

N.B. the blade guard must be cleaned with hot water and neutral detergent.

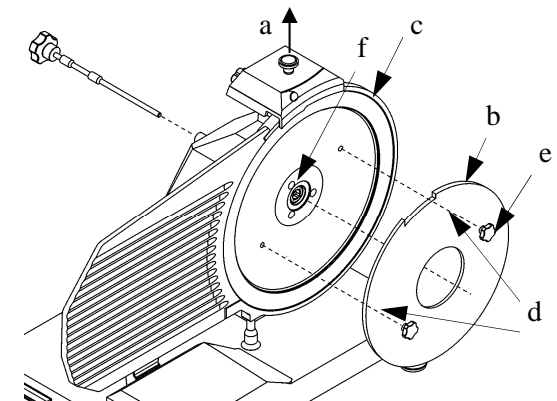


FIG. n°15 - Placing the mask in order to remove the blade

CHAP. 6 - ORDINARY CLEANING

6.1 - GENERAL FEATURES

- The slicer cleaning must be carried out at least once a day or more frequently, if necessary.
- Cleaning must be extremely accurate for those parts of the slicer which are directly or indirectly in contact with foodstuffs.
- The slicer must not be cleaned with water-cleaners and high pressure jets of water, but use water and neutral detergent. **Do not use other detergents.** Tools, brushes and other devices likely to damage the slicer's surface must not be used.

Before carrying out any cleaning operation it is necessary to:

- 1) disconnect the power supply plug from the socket to isolate the slicer from the rest of the electric circuit completely;
- 2) set the dial knob adjusting the plate to the "0" position.

WARNING: Pay attention to residual risks due to cutting and/or sharp edges.

6.2 - SLICER CLEANING PROCEDURE

6.2.1 - meat hopper cleaning (see FIG. n°13)

The carriage (meat hopper + arm + stem) is easily removable:

- with the dial knob set in the "0" position (1);
- the carriage (2) at the end of its run (a) near the controls;
- unscrew the handwheel (3), slide the carriage upwards (b);
- after having removed the carriage, it is possible to clean accurately the meat hopper with hot water and neutral detergent (PH 7).

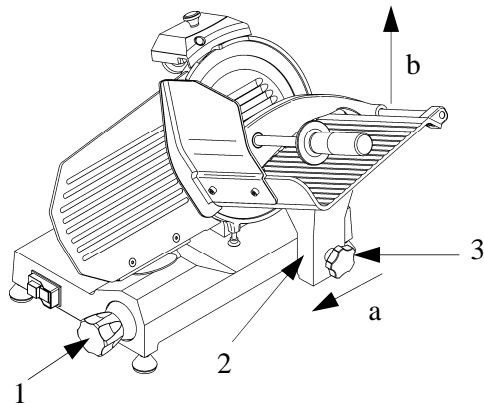


FIG. n°13 - Release of the carriage

- a micro-switch which stops the slicer in case the tie rod for blade guard is removed (see FIG. n°1); the micro-switch prevents from restarting the slicer if the guard has not been set in the switch-off position.
 - a relay in the control box which requires the restarting of the slicer when a power cut occurs.
- Even though professional slicers are provided with electrical and mechanical protections (when the slicer is working and for maintenance and cleaning operations), there are still **RESIDUAL RISKS** that cannot be eliminated completely; these risks are mentioned in this manual under **WARNING**. The blade and other parts of the machine can cause cuts and injuries.

1.3 - SPECIFICATIONS OF THE SLICER

1.3.1 - general description

Our firm has designed and manufactured the UL line of professional slicers to cut foodstuffs (as salami and meat) in order to guarantee:

- the highest degree of safety in functioning, cleaning and maintenance;
- the highest hygienic standards due to an accurate choice of materials and a smooth design of the slicer components which come into contact with products so as to obtain easy and total cleaning and easy disassembly;
- the greatest accuracy in cutting foodstuffs thanks to a cam mechanism;
- solidity and stability of components;
- the highest degree of noiselessness due to belt drive;
- great handiness.

1.3.2 - construction features

The professional slicers UL are made of an aluminium alloy (Peraluman Mg5) treated by anodic oxidation. This procedure guarantees high hygienic standards of the parts interested by the cut and resistance to acids, salts and oxidation processes.

The blade is made of chromium plated steel 100Cr6; it is grinded and hardened to guarantee an accurate and sharp cut of products also after it has been resharpened. The other components of the slicer are made of ABS, LEXAN, PLEXIGLASS and stainless steel AISI 430 or 304.

1.3.3 - Slicer components

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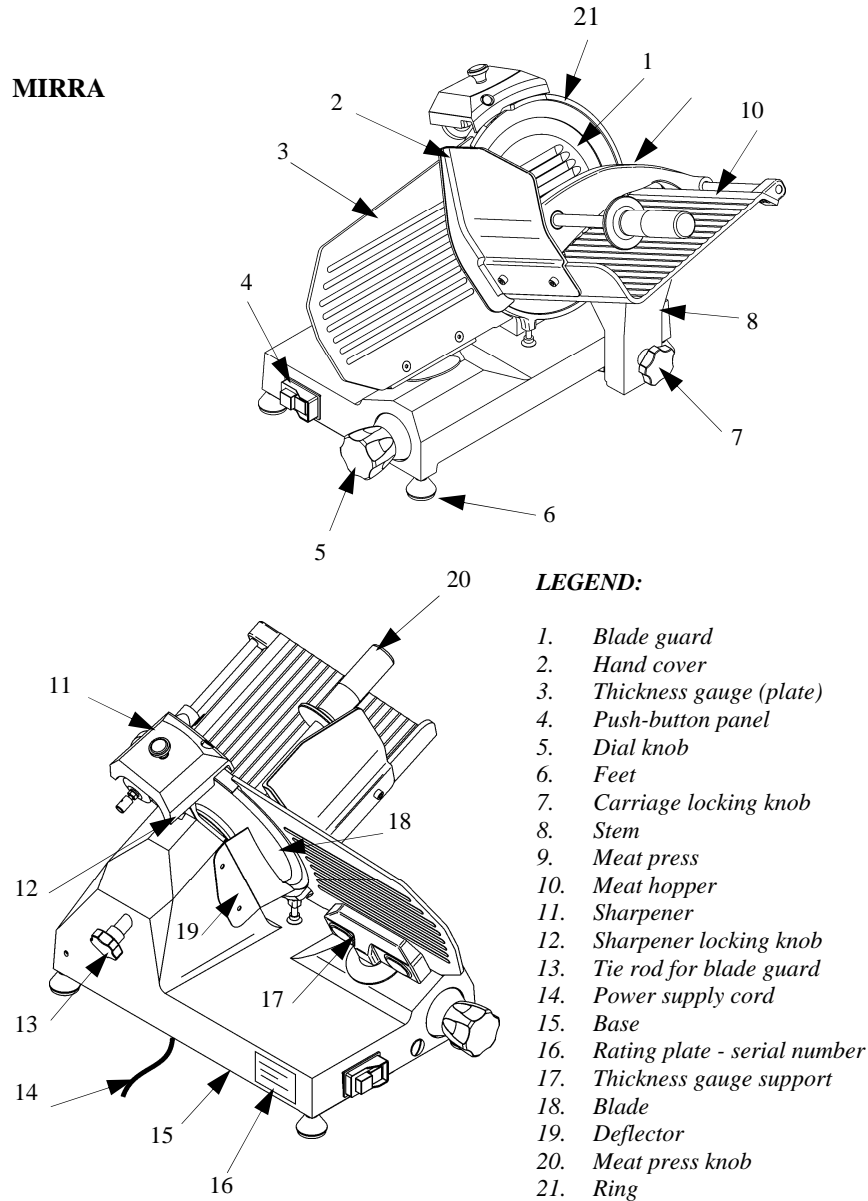


FIG. n°1 - General view of the slicer Mirra.

5.3 - SHARPENING OF BLADE (see FIG. n°12 a-b-c)

WARNING: Before proceeding with blade sharpening, remain alert to the **RESIDUAL RISKS** (see §1.2.2) that refer to the hazard of injury if the instructions below are not followed.

The blade must be sharpened periodically and as soon as it becomes blunt; the following detailed instructions are to be carried out:

- 1 clean the blade accurately with denaturated alcohol to remove grease after the plug has been disconnected from the socket;
- 2 unscrew the knob (1), lift (a) the sharpener (2) up to the locking position and rotate it 180° (b) (see FIG. n°12a). Then let it move to the end (c) so that the blade is positioned between the two grinding moles. Lock the knob;
- 3 switch-on the slicer by pushing the button "I" (ON);
- 4 push the small button (3) (see FIG. n°12b), let the blade rotate against the grinding mole for 30/40 sec. to produce burr on the blade edge;
- 5 push buttons simultaneously for 3/4 seconds (3 and 4) and then leave them simultaneously (see FIG. n°12c);
- 6 it is recommended to clean the grinding moles by following the sharpening (see 6.2.3);
- 7 once sharpening has been completed, return the slicer to its original setting with the reverse procedure.

NOTE: Do not prolong the burring operation beyond 3/4 sec. in order to prevent the dangerous twisting of the blade cutting edge.

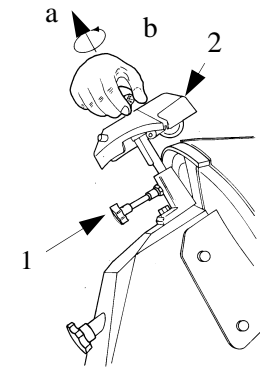


FIG. n°12a

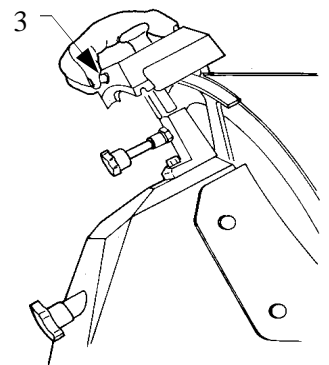


FIG. n°12b

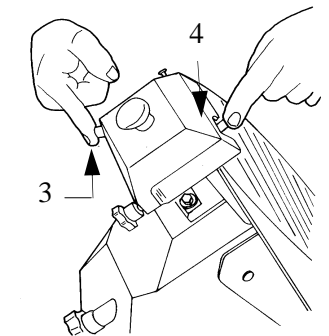


FIG. n°12c

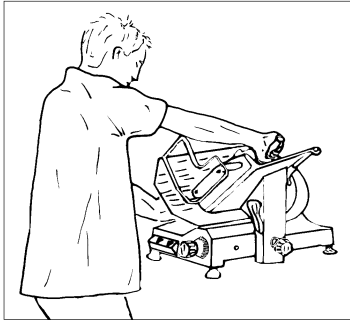


FIG. n°10a - Right position



FIG. n°10b - Bad position

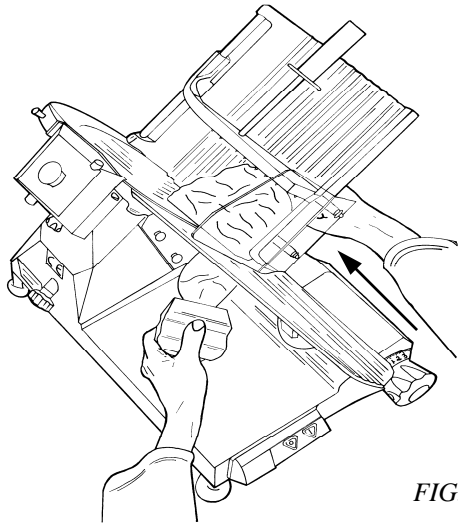


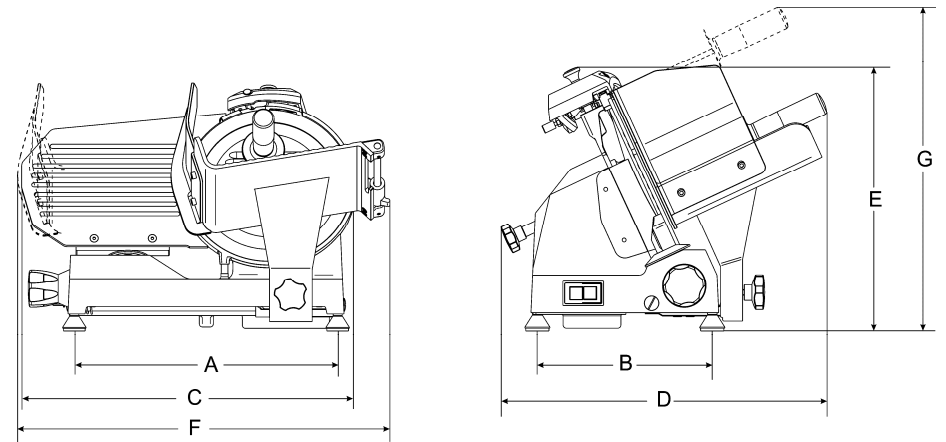
FIG. n°11 - Meat cut

CHAP. 2 - TECHNICAL DATA

2.1 - OVERALL DIMENSIONS, WEIGHT, CHARACTERISTICS ...

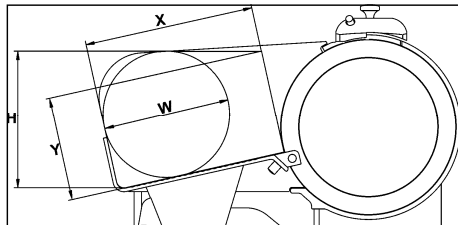
FIG. n°2 - Drawings of the overall dimensions

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TAB. n°1 - OVERALL DIMENSIONS AND TECHNICAL CHARACTERISTICS.

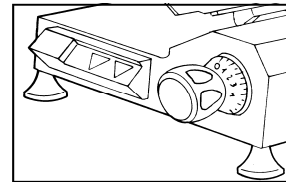
MODEL	U.m.	M 220	M 250	M 300C	M 275	M 300
∅ Blade	mm	220	250	300	275	300
Motor	W	147	147	147	210	210
	Hp	0,20	0,20	0,20	0,29	0,29
Power Supply	1Ph	110V / 60Hz				
Cut thickness	mm	13	13	13	13	13
Run of carriage	mm	245	245	245	285	285
Hopper size	mm	230x230	230x230	230x230	250x275	250x275
A x B	mm	395x245	395x245	395x245	435x295	435x295
C x D x E	mm	480x560x370	500x560x370	550x560x370	580x610x400	600x610x420
F x D x G	mm	570x560x475	570x560x475	570x560x475	640x610x510	640x610x510
X	mm	210	215	220	245	250
		Y	135	145	175	175
H	mm	170	180	205	210	225
		W	160	170	195	200
Net weight	Kg	15	16	18	20	20,5
Noise level	dB	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60



CHAP. 5 - OPERATING OF THE SLICER

5.1 - CONTROLS

Controls are placed on the left hand side of the base as shown in the picture above.



- 1 Dial knob to adjust the cutting thickness.
- 2 Switch-on button "I".
- 3 Switch-off button "0".

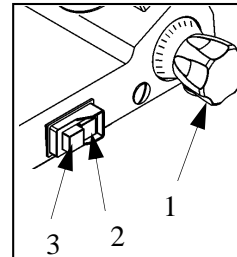


FIG. n°9 - Position of controls

5.2 - LOADING AND SLICING OF FOODSTUFFS

WARNING: Products to be cut must be loaded on the meat hopper only when the dial knob is set to the "0" position and pay attention to the blade and the sharp edges.

The procedure is as follows:

- 1 once the product has been loaded onto the meat hopper and placed against the plate, stop it with the arm provided with gripping points;
- 2 adjust the dial knob so as to obtain the desired cutting thickness;
- 3 to avoid accidents, the person who is cutting has to face the machine and stand correctly: put the right hand on the meat pusher, and then the left one beside the deflector (**do not touch the blade**); the body must be perpendicular to the working surface (see FIG. n° 10a). **WARNING: Pay the maximum attention: no members of your body should enter in contact with the blade** (see FIG. n°10b);
- 4 push the switch-on button "I";
- 5 smoothly push the carriage (meat hopper + meat pusher + stem) towards the blade without exerting pressure on foodstuffs with the meat pusher since they have their own force of gravity which exerts pressure on the thickness gauge. The blade will easily cut foodstuffs and slices will be guided by the deflector onto the collecting plate (see FIG. n°11);
- 6 do not operate the slicer without foodstuffs;
- 7 once foodstuffs have been cut, set the dial knob in the "0" position and switch off the machine by setting the switch to the "0" position;
- 8 sharpen the blade as soon as slices show a rough or frayed surface and the cutting becomes difficult (see 5.3).

4.3.3 - arrangement of the single-phase electric circuit - Schalter Profi

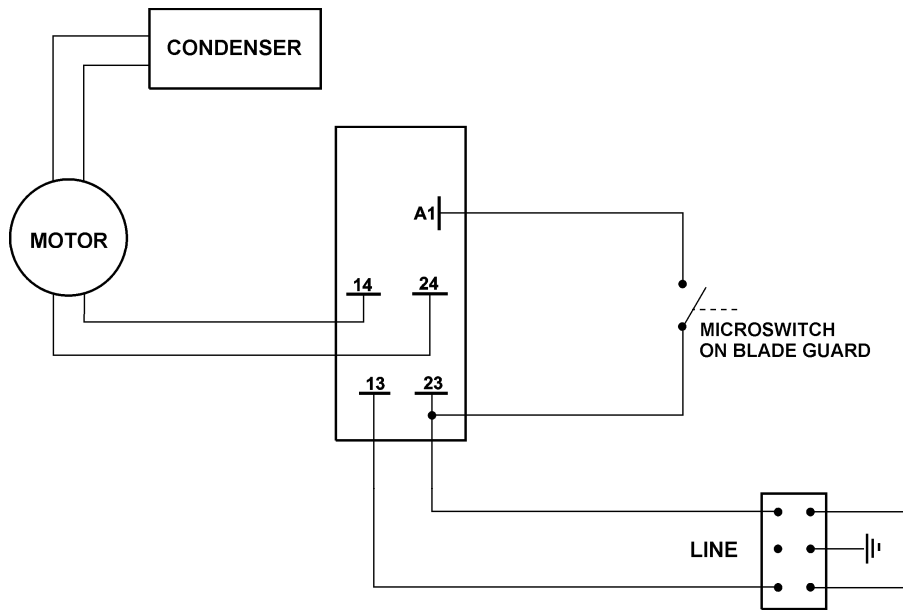
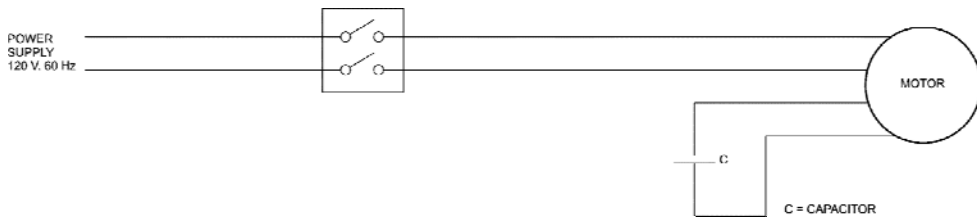


FIG. n°8 - Single-phase electric system arrangement - Schalter Profi



4.4 - FUNCTIONING CHECK

Before testing the slicer check that the meat hopper is blocked and then try the functioning according to the following procedure:

- 1 push the switch-on button "I" (ON) and the switch-off button "0" (OFF);
- 2 check the sliding of the meat hopper and meat pusher;
- 3 check the functioning and adjustment of the plate through the dial knob;
- 4 check the functioning of the sharper (see § 5.3, FIG. n°11 a-b-c);
- 5 check that the meat hopper can be disassembled only with the dial knob set in the "0" position and that, after disassembling the machine, the knob remains in this position;
- 6 check that the slicer stops functioning by unscrewing the tie rod for blade guard.

WARNING: Electrical features of the slicer are shown in the rating plate placed on the back side of the machine; before connecting the slicer to the electric system see § 4.2. **Electric connections.**

CHAP. 3 - SUPPLY OF THE SLICER

3.1 - DISPATCH OF THE SLICER (see FIG. n° 3)

Slicers are accurately packed and then dispatched from our warehouses; the package includes:

- a) a strong cardboard box;
- b) the slicer;
- c) two cardboard filling grafts to keep the slicer stable;
- d) this manual;
- e) an oil phial;

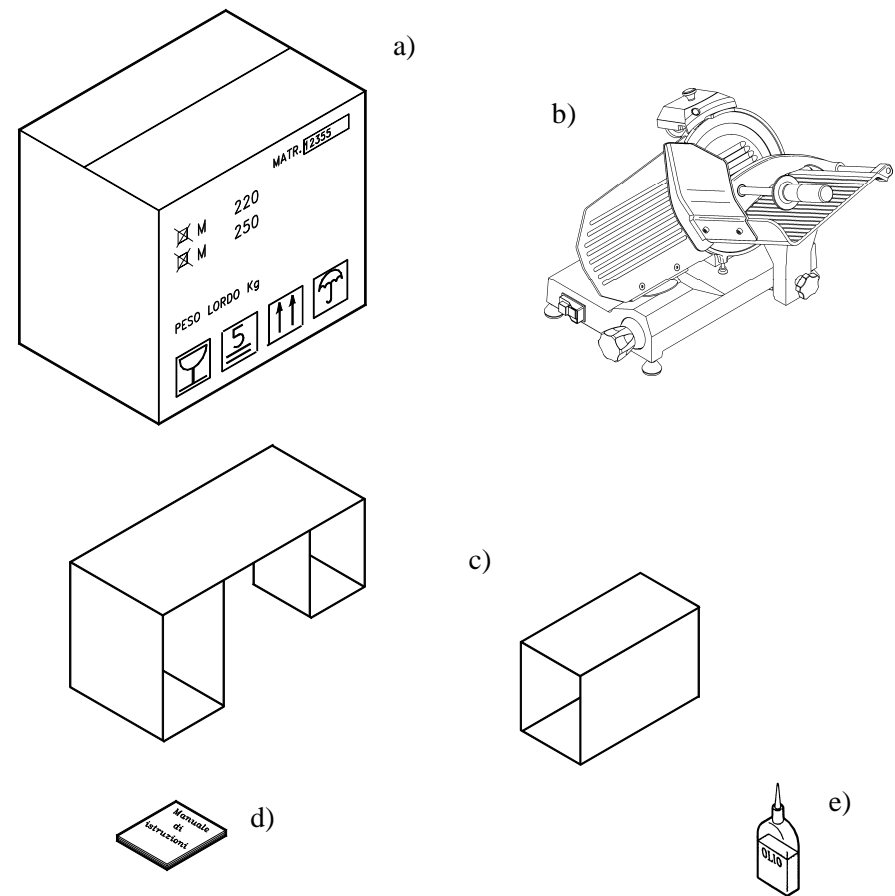


FIG. n°3 - Description of the package

3.2 - PACKAGE CHECK UPON ARRIVAL

If no external damage is evident on the package upon its arrival, open it and check that all the components are inside (see FIG. n°3). If the package has suffered from rough handling, bumps or crashes, the carrier must be informed about any damage; moreover a detailed report on the extent of the damage caused to the machine must be filled within three days from the delivery date shown in the shipping documents. **Do not overturn the package!!** When the package is transported, make sure, the box is lifted by the 4 corners (parallel to the ground).

3.3 - PACKAGING DISPOSAL

The components of the packaging (cardboard box, pallets, plastic straps and polyurethane) are urban solid waste; therefore they can be easily disposed.

If the slicer is to be installed in countries where specific regulations are in force, packaging must be disposed in compliance with them.

CHAP. 4 - INSTALLATION

4.1 - SETTING UP OF THE SLICER

The slicer must be installed upon a working table suitable for the slicer's overall dimensions shown in Table 1-2-3 (according to the model); therefore it must be adequately large, well levelled, dry, smooth, resistant, stable and placed at a height of 80 cm from the ground.

Moreover the machine must be installed in a room with max. 75% not saline humidity at a temperature between +5°C and 35°C; that is to say in a place that does not provoke the slicer failure.

4.2 - ELECTRIC CONNECTION

4.2.1 - slicer equipped with a single-phase motor

The slicer is equipped with a UL listing power supply cord and a plug.

Connect the slicer with a 110 Volt - 60 Herz electric circuit.

Moreover check that features on the rating plate - serial number (FIG. n°4) correspond to the features shown in the consignment and delivery note.

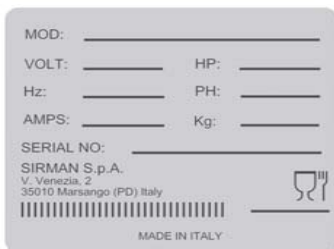


FIG. n°4 - Rating plate - serial number

4.3 - 110 V ELECTRICAL DIAGRAM "SIDNEY UL" PUSH-BUTTON PANEL

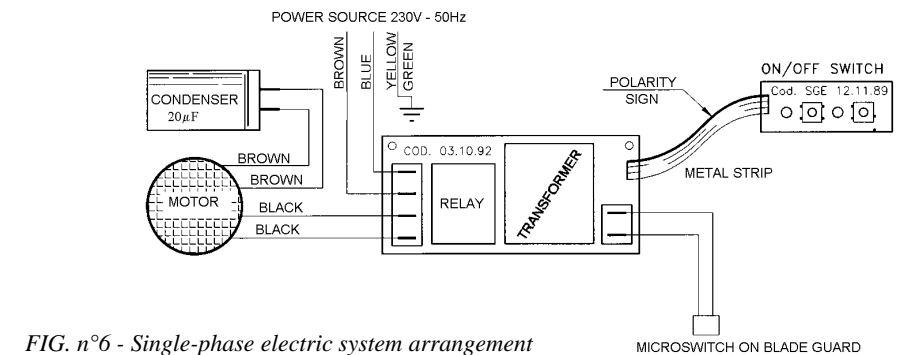
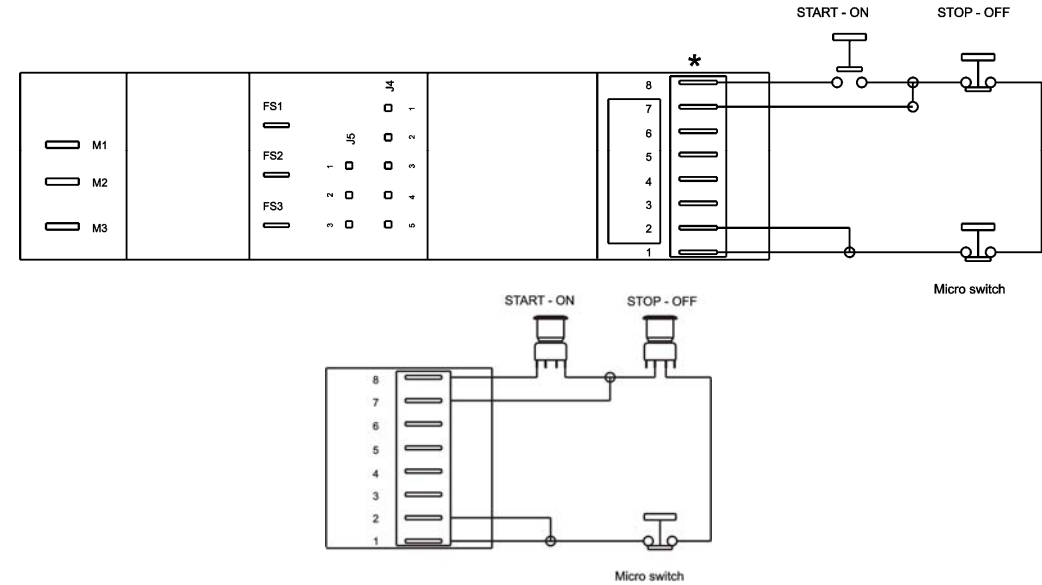


FIG. n°6 - Single-phase electric system arrangement