ROLLER IRONERS

INSTRUCTIONS FOR USE MAINTENANCE AND INSTALLATION

TRANSLATION OF THE ORIGINAL INSTRUCTIONS
KEEP FOR FUTURE REFERENCE

SERVICE INDEX:03
- FI

The manufacturer's data are shown on the envelope that contains the documentation of the machine. The envelope is an integral part of documentation

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1. CONTENTS OF THE MANUAL

This manual is dedicated to the description of the use, maintenance and installation of industrial ironing machines called trough ironers. It is drawn up in consideration of the Community directives in force. The information is addressed to the installer and the user, who must be sure that they have fully understood it before working on the machine. The user manual must always be available for reference. In case of loss or damage, ask the manufacturer for a new manual. The manufacturer is not responsible for the consequences deriving from careless use of the machine due to a failure to read or incomplete reading of this manual. The manufacturer reserves the right to modify the specifications mentioned in this manual or the characteristics of each machine. Some figures in this manual may show parts that are partially different from those assembled on the machines. Drawings and technical data may be modified without notice.
This manual is supplemented by the following annexes: EU declaration of conformity, technical data sheet and wiring diagram. All documents are contained in an envelope that accompanies the machine. The wiring diagram, depending on the versions of the machine, is contained inside the electrical panel
The manual and its attachments are an integral part of the appliance: therefore they must be kept and accompany the appliance, even in the event of transfer to another user.
The manual, the same attachments and the exploded view with the relative spare parts, can be found in the technical area of the manufacturer's website. Before accessing the site, it is essential to have the serial number of the machine available.


ATTENTION!

The manufacturer declines all responsibility for possible inaccuracies contained in this manual due to printing or transcription or translation errors. It reserves the right to make any changes to its products that it deems necessary or useful, without affecting their essential characteristics. It is forbidden to reproduce, even partially, texts or images of this manual, without the prior authorization of the manufacturer.

This manual is also available in electronic format on the manufacturer's website (technical area).

2. SAFETY RULES


ATTENTION!

Risk of suffocation, permanent injury or disability!

Failure to comply with the following safety regulations may result in damage to people, property and animals.

The installation and maintenance of the machines described in this manual must be carried out by authorized personnel who are familiar with the product and compliance with the European standards of the sector.
Repairs carried out incorrectly may seriously endanger the safety of the user.

Before using the machine, read these instructions carefully: make the instructions accessible to all persons in charge of operating the dryer.

The intended use of the ironers described here is the professional ironing of clothing and linen: any other intended use is therefore prohibited unless it has been previously authorized in writing by the manufacturer.

Never put your hands between the lower chute and the roller with the machine on or when the machine is still hot.

Objects other than ironing must not be placed in the machine.
It is forbidden to iron garments that are soaked in substances that are manifestly harmful to the health of operators, poisons or carcinogenic products.

Do not approach or iron fabrics soaked in combustibles or flammable substances, including oils and greases, with this machine to avoid the risk of fire and explosion.

Always follow the ironing instructions on each item of laundry with great care.

It is forbidden to use the car for children under 16 years of age.

Do not allow children to play with the equipment.

Keep packaging materials out of the reach of children.

Keep detergents or ironing chemicals out of the reach of children.

Keep children and pets away from the appliance door when it is open and the machine is running.

Additional connections to the machine from the outside, not carried out in a workmanlike manner, relieve the manufacturer of any liability.

IMPORTANT WARNINGS



DANGER OF CRUSHING

It is forbidden to work with the side doors open or with the machine guards removed!

It is forbidden to insert your hands under the roller, even when the machine is stationary!

In order to avoid burns or crushing of the limbs, it is absolutely forbidden to remove the protective panels and safety systems, even temporarily!

Always check that the safety devices are working correctly every time the machine is started! At each start-up, carry out the control procedure indicated in the relevant paragraph.

It is mandatory to know the operation of the machine and its emergency systems!

The operator, when introducing the fabric into the machine, must not accompany it under the hand protection bar. The fabric must be flattened on the entrance board, where any wrinkles or folds must be removed. Then the fabric must be accompanied on the roller that will drag it into the heating bed.
It is strictly forbidden to iron fabrics folded in several layers or several layers of overlapping fabric.

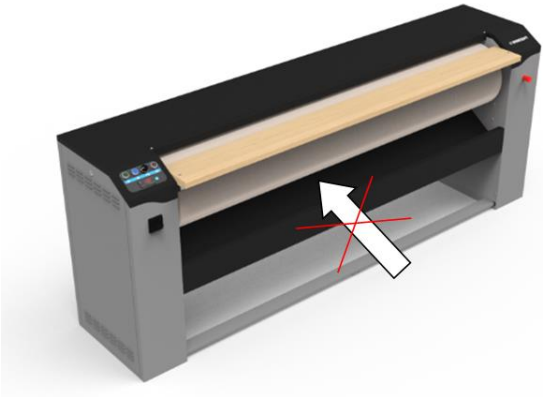
It is forbidden to introduce bars, splints or metal objects between the ironing trough and the roller. In case of emergency, always carry out the procedures described below.

BURN HAZARD

The machine, by the very nature of the activity for which it is intended, presents the risk of burns.
Any burns can be caused:
- From contact with the fabric coming out of the machine;
- From contact with the upper edge of the conch during tissue insertion;
- From contact with the chest following its opening;
- From contact with the trough during maintenance operations carried out "hot";
- From contact with the extracted tissues after being trapped between the cylinder and the heating bed;

ATTENTION

To avoid possible burns, never insert your hands under the roller!



The machine must only be used by suitably trained personnel at all times and in the presence of at least one other operator!

CAREFULLY READ AND INFORM ALL OPERATORS ABOUT THE INTERVENTION SYSTEMS IN THE EVENT OF A SUDDEN POWER FAILURE OR IN THE EVENT OF ENTRAPMENT: CHECK THE POSITION OF THE RELEASE SYSTEMS

ELECTROCUTION HAZARD

Any work on the electrical parts of the machine must only be carried out by qualified personnel and after the power supply to the machine has been removed.
The power and control circuits may only be tampered with by the manufacturer's personnel, otherwise the warranty conditions will be voided.

On the electrical panel there is the following monitor plate which must be replaced with an identical one if it has been damaged or removed.



ATTENTION

Even when the position of the main switch is "0", the cables upstream of the switch are live!

PSYCHOPHYSICAL CONDITIONS OF THE OPERATOR

The operator in charge of the machine must be in perfect psychophysical condition; During work, the vertical posture in front of the machine must be assumed. Sudden movements or uncontrolled gestures, for example when picking up and inserting the fabrics to be ironed, must be avoided in order to avoid dangerous collisions with the machine frame.
If other operators or other personnel are present, they must not be a source of distraction for the operator in charge of the machine.
When operating the machine, the operator should not be distracted by televisions, radios, etc., or be subject to any other source of distraction.

LIGHTING

In the room where the machine is installed, there must be uniform illumination of 300-500 lux intensity, and disturbing glare must be avoided.


ATTENTION!

These warnings do not cover all possible risks. The user must therefore proceed with the utmost caution in compliance with the regulations.

3. MANUFACTURER'S LIABILITY

The instructions in this manual do not replace but supplement the obligations for compliance with current legislation on safety and accident prevention regulations. With reference to what is reported in this manual, the manufacturer declines all responsibility in the event of:

- use of the machine contrary to the laws in force on safety and accident prevention.
- incorrect installation of the machine.
- Lack of periodic and scheduled maintenance.
- failure or incorrect observance of the instructions provided by the manual.
- voltage and mains power supply defects.
- unauthorized modifications to the machine.
- use of the machine by unauthorized personnel.

4. TRANSPORT AND UNPACKING

During transport, and any storage, the equipment must remain within the following environmental conditions:

- Temperature: -25°C÷55°C
- Humidity: 0%÷90% (non-condensing)

It is recommended to check the machine upon receipt, taking care to report to the carrier any damage caused, during transport, both to the internal components and to the external bodywork.


ATTENTION!

During the handling phase, use a forklift with forks that are as open as possible.


ATTENTION!

During the handling phase, the machine must remain in a horizontal position. The machine must never be placed in an upright position!

The machine must be completely unpacked near the installation site.
The straps must be cut, and the cover wrap removed.
The packaging materials must not be dispersed in the environment and must be placed in the appropriate collection spaces according to current regulations.
Open both side doors with the wrench provided.
Use a wrench to remove the pallet fastening bolts, which are visible at the base of the right and left shoulder of the machine.


ATTENTION!

Check the net and gross weight on the technical data sheet, attached to the machine documentation: check compatibility with the available lifting equipment.
To get the ironer off the pallet, pass the forks of the forklift under the chute of the machine (taking care to avoid scratching the paint).
Lift the machine with the forklift: remove the pallet from underneath and position the machine.


ATTENTION!

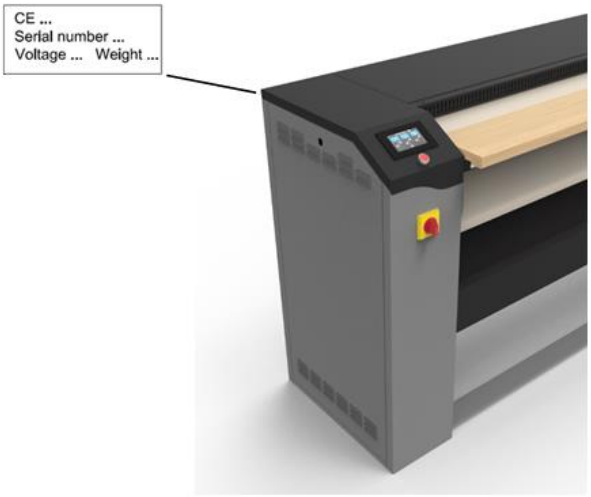
The pallet must not be used as a normal machine stand! The machine must always be taken off the pallet and positioned as described in the relevant paragraph.

ATTENTION!

The machine must be moved only when it is fixed to its pallet: handling and lifting by forklift must be carried out only by qualified and competent personnel.

5. MACHINE IDENTIFICATION

The equipment can be identified by an adhesive plate bearing the serial number, model, power and technical characteristics. Spare parts and/or interventions presuppose the exact identification of the model for which they are intended.



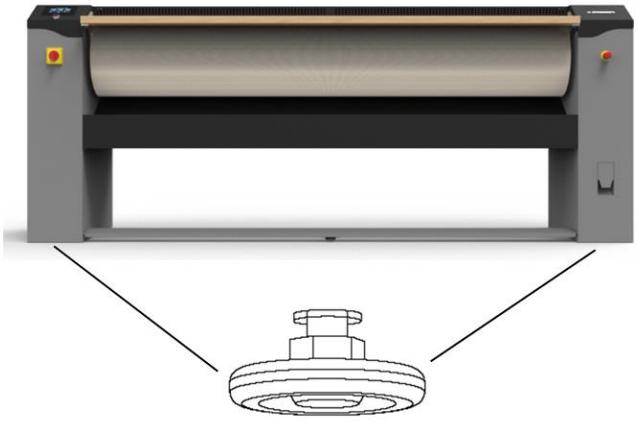
Tampering, removal, lack of identification plates or anything else that does not allow the safe identification of the machine, makes any installation and maintenance operation difficult and automatically voids the warranty.

Ironers are intended exclusively for ironing fabrics and are intended for the professional and industrial sector.

MODELS AND MAXIMUM INPUT CAPACITY (single-ply flat linen, 20-15% wet		
IRONERS IN CONCA (FI)	MAXIMUM FABRIC WIDTH (mm)	HOURLY PRODUCTIVITY (Kg/h)
1000/25	1000	25
1200/25	1200	30
1500/25	1500	35
1600/33	1600	40
1800/33	1800	50
2000/33	2000	60

6. INSTALLATION AND PLACEMENT

All installation operations must be carried out by professionally qualified personnel. Place the machine on a flat surface in a stable and horizontal manner using the adjustable feet located at the base of the hips. The feet are adjusted from the outside, screwing or unscrewing them until they reach level positioning.



Check that the floor capacity is compatible with the weight of the machine which can be detected from the attached data sheet. The load of the machine can be considered totally static. Make sure the floor is clean and heat-resistant.

For proper use, operation, and maintenance, leave a clearance of at least 500 mm around the machine.
The ambient temperature should be between +5°C and +40°C and the relative humidity should be 50%.
The environment in which the machine is installed must have sufficient air exchange.

The degree of protection is IP24.

Do not install or operate the machine if it is damaged.

Correct operation is guaranteed up to altitudes of 1000 m above sea level.

ATTENTION!

Ensure the supply of clean air to the machine and not air contaminated with chlorine, fluorine or other solvent vapors.

Do not use or store petrol, petroleum or other flammable materials in the vicinity of the machine. This may cause fire or explosion.

Provide a fire extinguisher near the machine chosen and maintained according to current regulations.

ATTENTION!

The machine MUST NOT be installed outdoors, but in a CLOSED environment specifically built and used as a laundry.

7. INFORMATION ON NOISE EMISSION

Airborne noise produced by the machine produces a continuous A-weighted sound pressure level of less than 70 dB.

8. ELECTRICAL CONNECTION

ATTENTION!

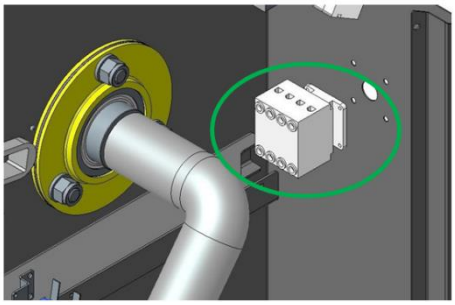
The electrical connection must be carried out by professionally qualified personnel and must meet the requirements of current local and national rules and/or regulations. Check that the supply voltage corresponds to that indicated on the rating plate (voltage tolerance ±10%, frequency tolerance ±1Hz).
The license plate data is visible on the rear of the machine. For the connection, use a cable of the type H05 VV – F or higher, sized according to the data on the nameplate. Insert upstream of the appliance an omnipolar disconnection device interlocked with a padlock (e.g. a residual current circuit breaker) with an opening between

the contacts that allows complete disconnection in the conditions of overvoltage category III, and in compliance with the regulations in force on the subject.
The breaking capacity of the circuit breaker must be at least 10 kA.

ATTENTION!

Provide electrical protection by means of a type B RCD interrupting device (sensitive to the average current value).

Make sure that the main switch of the system is in the "0" (OFF) position when connecting the machine.
Open the left side door using the key that is delivered with the machine documentation.
Remove the door by rotating it at the base.
Pass the power cable through the cable gland located inside the left shoulder of the machine and lay it on the channel so that it can reach the disconnector.
The power supply must in fact be carried out on a marked disconnector and earth terminal (already present in the appliance).



Depending on the type of power supply provided on the machine's rating plate, connect the wires, with the help of the tip of a screwdriver, to the disconnector and the earth terminal marked as follows:

PE : Ground Clamp

L1, L2, L3: Phase connections

N: Neutral connection

When installing or replacing the power cable, the earth conductor must be at least 5 cm longer than the others.

ATTENTION!

In machines equipped with a microprocessor or manual, but with the roller speed control (presence of the inverter in the electrical panel) it is not necessary to check the direction of rotation of the motor, since the suction fans are single-phase, and that the roller motor is driven by an inverter.

In machines NOT equipped with inverters, it is instead necessary to check that, during ironing, the roller rotates in the direction in which the fabrics are introduced: if this is not the case, disconnect the power supply and reverse two phases of the power supply.

The appliance must be connected to an effective earthing system: the manufacturer declines all responsibility in the event that this connection is not made in accordance with the provisions of the regulations in force on the subject.
Before carrying out any maintenance operation, disconnect the power supply: for maintenance, refer to the machine's wiring diagram, inserted in the left side door or available on the manufacturer's website.
The cross-sections for power cables expressed in mm2 are as follows:

	1ph230V	3ph230V	3PH400V
Mod. 1000 Mod. 1200	6 mm2	4 mm2	2.5 mm2
Mod. 1500 Mod. 1600 Mod. 1800	10 mm2	6 mm2	4 mm2
Mod. 2000	16 mm2	10 mm2	6 mm2

ATTENTION!

The minimum cross-sections shown may vary depending on the length of the connection. For lengths longer than 5 meters, increase the section proportionally to the additional length.

ATTENTION!

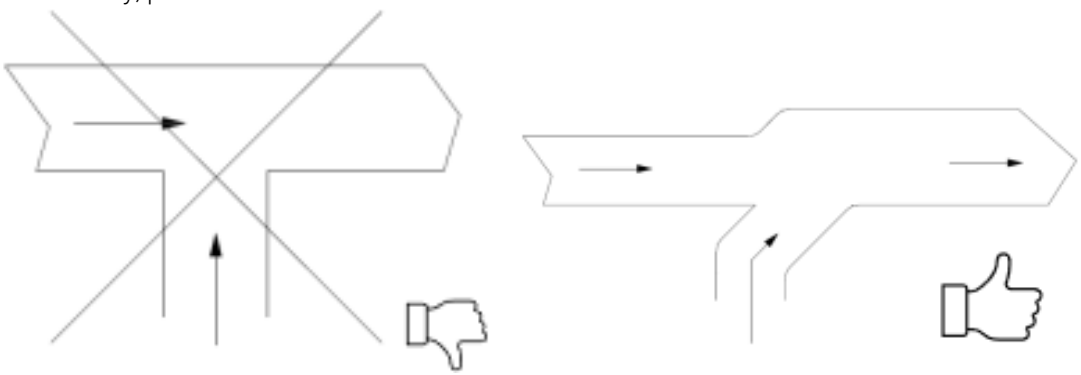
Even when the position of the main switch is "0", the cables upstream of the switch are live!

ATTENTION!

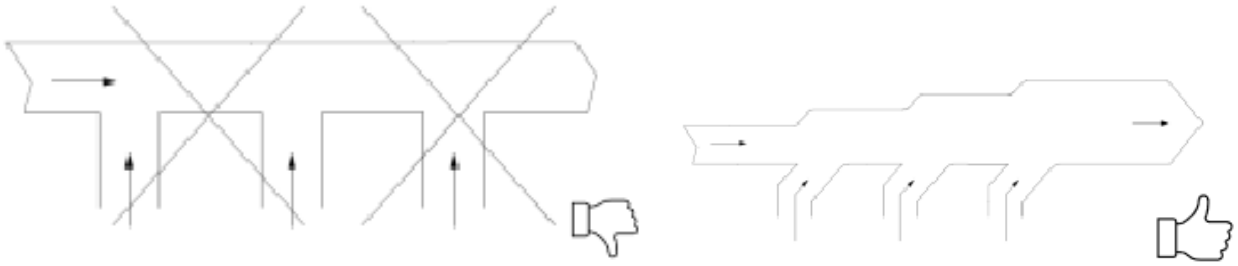
The machine must always be connected according to the serial number data (power, supply voltage, frequency). For supply voltages other than those provided, ask the manufacturer for information.

9. HUMID AIR EXHAUST DUCT

The humid air exhaust duct (for machines with an extraction system) must be made in accordance with current regulations.
The drain duct can have a maximum linear length of 15 meters and must be equipped with a condensate collection system, in order to prevent water from returning to the vacuum cleaner.
To avoid spillage of humid air and noise, the exhaust joints from the machine to the outside must be made hermetic, with materials (grouts, mastics, silicone preparations) resistant to high temperatures.
To avoid pressure drops, avoid the use of spiral ducts: therefore use smooth and rigid metal pipes. The material used must be compatible with the discharge temperatures of the machine.
To reduce pressure drops, avoid 90° bends, preferring two 45° bends.
A steam trap shall be provided at the lowest point and the diversion of this trap shall comply with local regulations for the connection to the water drain.
The duct must resist crushing.
In the case of entering a manifold, do not make "T" connections and consider the correct value of the collector section. If necessary, provide for an increase in the collector section.



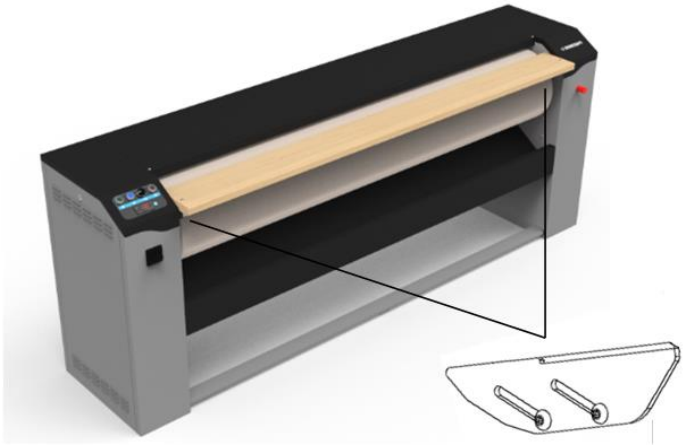
The exhaust manifold for several ironers cannot be shared with other types of machinery, even more so it cannot be shared with machinery equipped with gas heating.



The outlet of the drain pipe must not flow at eye level and/or be directed towards residential units.

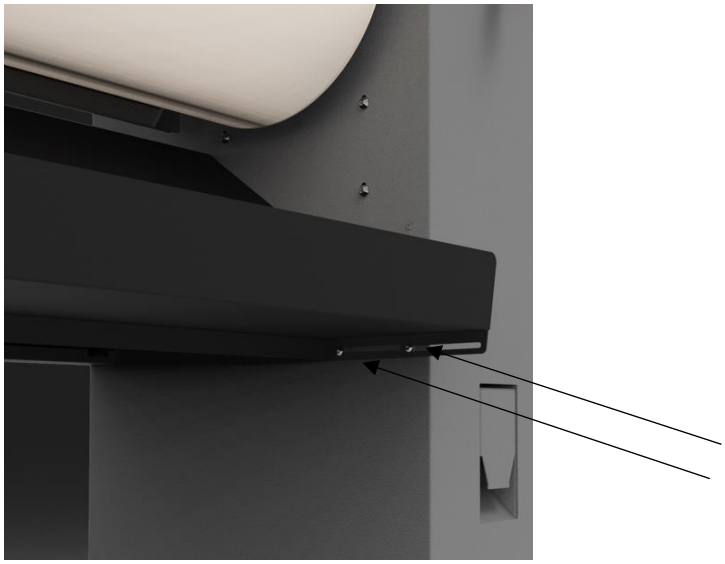
10. THE INPUT TABLE AND THE DRIP TRAY

The fixing system of the introduction table allows you to customize its position.
During installation, adjust its position according to the user's requests.



Loosen the screws on both sides of the machines, position the table at the desired angle, and finally close the screws on both sides of the machine.

For ironed fabrics and fabrics coming out from under the roller, the output tray can be positioned as desired by pulling it out of the machine body. Simply unscrew the 4 locking screws (two on each side), slide the chute to the desired position, and tighten the 4 screws again.:



11. GETTING TO KNOW THE IRONER

The ironer is characterized by some elements that you need to know immediately, before starting to use the

machine.



1. Access door to the ironer electrical panel. The flap can be opened using the plastic key that is delivered with the machine documentation. Access to the electrical panel must only be allowed to specialized and competent personnel.
2. Main switch: When you operate it to the "I" (ON) position, you power the machine electrically.
3. Ironer command area.
4. Hand protection bar: when lifted, the machine stops.
5. Pedal Set: The home trainer turns in the direction of introduction after the pedal is pressed. The roller stops when the pedal is pressed again.
6. Emergency release: if pulled it causes the immediate lifting of the chest.
7. Emergency button that must be pressed whenever it is necessary to stop the ironer quickly for emergency reasons.

ATTENTION!

The air openings on the backrest of the machine must always remain clear. The passage of air through the louvers must not be restricted in any way.

12. USING THE EMERGENCY BUTTON

In case of emergency and need to stop the machine quickly, press the emergency mushroom on the side of the machine.
When the emergency mushroom is pressed, the ironing roller stops, at the same time the trough is raised.
When the emergency has been resolved, reset the emergency mushroom by rotating it according to the instructions on the mushroom itself.
Press the SAFETY RESET button to re-enable the operation of the machine.
Stop Cathegory 1: Controlled stop with power available to the actuators to achieve shutdown and then removal of power when shutdown is reached.

13. USING THE IRONER RELEASE LEVER

In case of an emergency, such as entrapment or blackout, you can use the panic bar.
Lifting the release lever causes the trough to open immediately and the machine to switch off automatically.
The release lever must in any case be used in the event of a blackout, to lift the trough from the roller and avoid burning the roller cover or trapped linen.



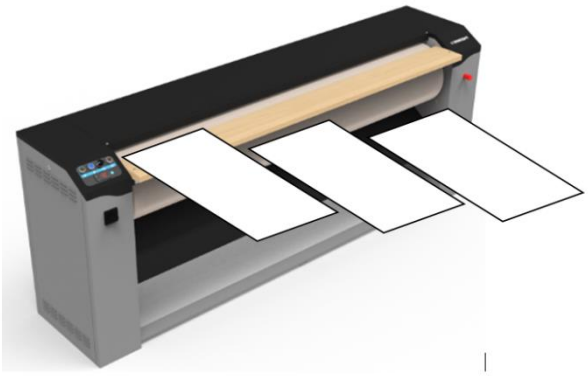
When the emergency is resolved, push the release lever back to the standard position.
Then press the SAFETY RESET button to re-enable the operation of the machine.

14. IRONING

During operation, remember to use the entire length of the roller, in order to keep the temperature uniform over the entire length of the machine.
Therefore, regardless of the size of the linen, insert it as shown in the figure.

ATTENTION!

These machines should not be used to perform bending.



The temperature to be used must comply with the temperatures allowed by the labels characteristic of the linen to be ironed.
The maximum set point temperature is 180°C.
Remember that at the end of the work, the machine cannot be stopped, at least until the temperature has dropped below 80°C.
It should also be remembered that the humidity conditions of the fabrics must be no more than 20% for ironers.
Roller ironers should be used on fabrics that have been previously treated by a dryer. Its purpose is therefore only to iron flat ends, and not to dry them.
At the end of the ironing cycle and the cooling phase, turn off the machine and turn the main switch to position "0".

ATTENTION!

The formation of yellow stains on ironed fabrics indicates the presence of detergent that has not been thoroughly removed during rinsing or a temperature of use of the machine higher than that required for the fabric!


ATTENTION!

The formation of creases on ironed fabrics can be generated on fabrics that have too low residual moisture when introduced into the machine.


ATTENTION!

Significant differences in the thickness of the fabrics to be ironed (due for example to seams or hems), can give rise to the formation of wrinkles, creases and low ironing quality.
Even the passage of a double-ply or folded fabric can be the source of creases or puckering and sometimes the introduction is not possible or easy.


ATTENTION!

The formation of horizontal pleats can be generated by a poor sliding of the fabric on the ironing chest. Always keep the trough clean and clean it with paraffin if necessary. Make sure that the ironing temperature is in accordance with the type of fabric to be ironed: excessive temperatures will cause the fabric to slip away from the dragging action of the roller and the inevitable formation of wrinkles. Excessive temperatures can still lead to melting or deterioration of the fiber.


ATTENTION!

Carefully avoid ironing fabrics that have buttons inserted or fabrics that have nylon seams. The high temperature could cause it to melt and the consequent soiling of the ironing chest. It is advisable to avoid exposing the care label of the fabrics in direct contact with the trough: it could burn and smear the ironing trough: iron the garments with the care label facing downwards. Also avoid ironing fabrics with metal parts such as zips: they could cause the surface of the roller or the ironing chest to be affected.


ATTENTION!

The side filters located on the ventilation passages must always be free: avoid occluding the passage of air and keep them clean from fluff by cleaning them every day.

15. CASE OF LIMB ENTRAPMENT

In the event of entrapment of a limb, it is necessary to be able to manually open the hollow.
There are several procedures that can be used for unlocking:

- pressure of the pedal with one foot, while the roller is turning in the direction of introduction: in normal operation this operation opens the trough.
- Pressure of the hand-saving shaft with your hands: immediately opens the trough.
- Pressure of the emergency mushroom with the hands: immediately open the conch.
- Lifting of the release lever: immediately opens the trough.


ATTENTION!

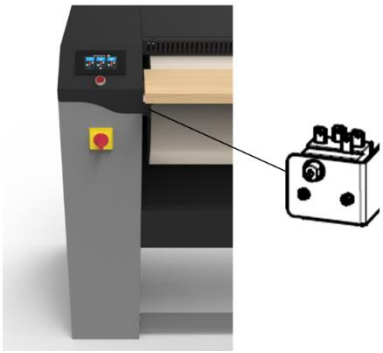
It is important that the Laundry Manager is aware of the unlocking procedures listed above and that he or she ensures that the personnel who will use the machine are aware of the dangers of the machine and are familiar with the emergency procedures.
Periodic tests should be carried out on the personnel using the machine to ensure that the procedures have been correctly understood.

16. WHAT TO DO IN CASE OF POWER FAILURE

In the event of a power failure, it is possible that one or more garments get stuck between the roller and the trough and risk burning.
In this case, lift the release lever: the trough opens automatically, freeing the garment and avoiding burning the fabric covering the roller.

17. TRIPPING THE SAFETY THERMOSTAT

The safety thermostat intervenes when the temperature of the trough exceeds 230°C, switching off the heating of the machine and without forwarding any alarm on the display. When the thermostat has tripped, the machine does not heat up. In this case, it is necessary to rearm it.
The safety thermostat is reset by pressing the button that can be reached by unscrewing the small black cap located under the introduction table, on the left side of the machine.



18. USING THE MACHINE

When switching on, during use of the machine, and when switching off, strictly observe the following instructions:

ATTENTION!
The garments to be treated with the ironer must be taken from a rotary dryer with a residual humidity of 10-20%, to allow correct ironing.

ATTENTION!
Before stopping ironing, make sure that the roller temperature is below 80°C. By suspending work at a higher temperature, the ironing cloth may burn itself.

ATTENTION!
In the event of a fault or malfunction, switch off the appliance immediately and call an authorised service centre!

ATTENTION!
At the end of the program, do not leave the garments inside the machine stationary or above the collection compartment: this could cause self-combustion!

19_S SMART VERSION: START AND STOP

Switch on the machine by turning the main switch, described in the previous paragraph, to the "I" (ON) position.
Make sure that the emergency button is in the home position, and that it has not been activated during transport or before the machine was last switched off.
Before starting the machine, always carry out the safety check procedure (check the relevant paragraph).
When you turn on the machine, the display shows for a few moments the software version of the installed

microprocessor and its release date.
Then display the selection menu:

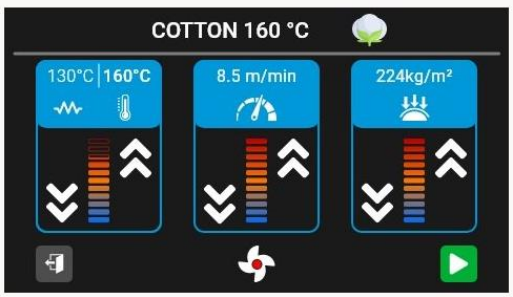


Press on the "PROGRAMS" icon to view and select the programs in memory:



To select a program, simply tap on the desired icon.
To view additional programs in memory, scroll the screen, or tap one of the two arrows.

When a program is selected, its name (editable: see the relevant paragraph), its numerical storage and its characteristics appear on the display.
For example,:



Below is a detailed description of the programming parameters that may appear in the preview phase:

HEATING (symbols "blue and red thermometers")
This is the temperature set for the ironing cycle.
Please note that the choice of temperature must be made with reference to the specific characteristics of the fabric.
The definition of the temperature is also related to the choice of the roller speed.

ROLLER SPEED ("speedometer" symbol)
This is the rotation speed of the roller set for the ironing cycle.
Please note that the choice of speed must be made with reference to the specific characteristics of the fabric.
The definition of the speed is also related to the choice of the temperature of the stretching chest.

CONCH PRESSURE ("pressure" symbol)
This is the pressure that the trough exerts on the roller during the ironing cycle.

The lower the pressure chosen and:

- the gentler the treatment of the fabric

The higher the pressure chosen and:

- the less delicate the treatment of the fabric

SUCTION (only for machines equipped with it, symbol of a 4-blade fan)
When ON, activates the humid air extractor; when in OFF, the vacuum is off. In the case of roller ironers (calenders), the vacuum cleaner is always present and always ON, during the ironing cycle.

PLEASE NOTE

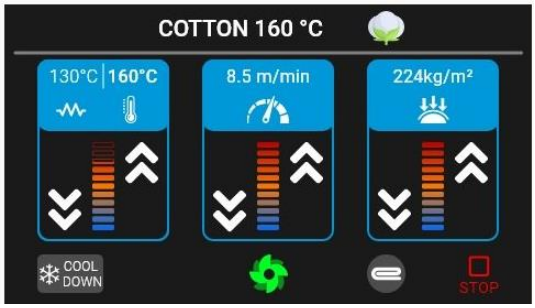
After the cycle has started, all the parameters described so far can be modified using the relative icons on the display: these changes, however, will not remain in the program's memory.

When the desired program is shown on the display, simply press the START button to start it.

Pressing the START button starts the heating system.
To start the rotation you need to press the pedal set.
The ironing roller continues to turn in the direction of introduction and turns until the pedal is pressed again

While the machine is running, it is possible to adjust the temperature, speed and ironing pressure (see the relevant paragraphs).
When the set temperature value is first reached (after switching on), the buzzer emits a few beeps, to warn the user that the ironing temperature has been reached and that ironing can now begin.
In any case, do not start ironing until the minimum temperature of 80°C is reached.
At the end of the ironing cycle, the machine can be stopped by pressing the *STOP button*.

To prolong the life of the cover, make sure that at the end of the cycle there is no residual moisture on the roller: it is advisable to leave the roller to rotate in contact with the trough for another two/three minutes, without introducing additional fabrics at a temperature below 80°C.
The machine can also be stopped by pressing the *COOL DOWN* button (see the relevant paragraph).



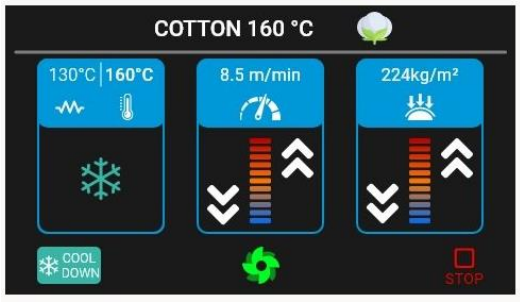
ATTENTION!

The machine is equipped with an automatic switch-off time. If the machine therefore waits for the pedal activation command for too long, the microprocessor automatically puts it in *the OFF* condition.

20_S. HOW TO USE THE COOL DOWN (SMART VERSION)

Cooling down is a function that saves and optimizes the thermal energy stored in the machine. When you are at the end of your shift, or when you need to stop ironing, you can use this function. Cooling is activated and deactivated by pressing the *COOL DOWN button*.

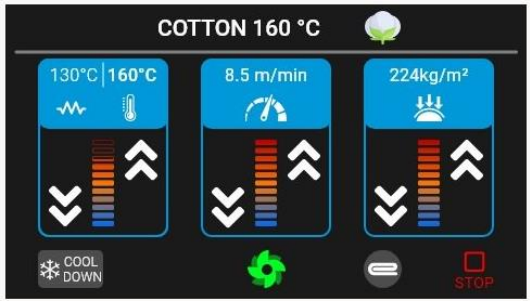
When the function is activated, the temperature control is interrupted: the display shows that cooling has been activated.



The roller continues to spin until the temperature drops below 80°C. When this temperature is reached, the machine comes to a complete stop.
If it is necessary to reactivate the temperature control, the cool down function can be deactivated before reaching 80°C by pressing the *COOL DOWN* button again.By doing so, the set point temperature is restored and the work cycle can be resumed. Once the cooldown is finished, the main switch can be set to "0" (OFF).

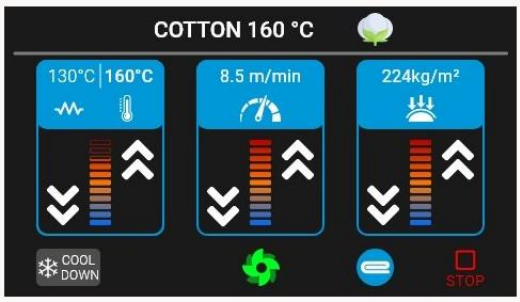
21_S. THE "VACUUM" BUTTON

If equipped with suction, the user can decide whether or not to activate the suction by means of the appropriate *FAN button* .
The suction allows the moisture that settles on the windings of the ironing roller to be taken and carried outside through the exhaust duct.
The extraction is activated and deactivated by pressing the *FAN button* on the display.
When the function is activated, a fan icon rotates in the display.
To deactivate the extraction, press the *FAN button again*.



22_S. "THICK" FUNCTION

For suitably configured machines, it is possible to use the "THICK" function which allows you to treat thick fabrics or with large seams. By pressing the relative icon , this function is activated which allows you to start ironing by pressing the pedal and starting to rotate the roller without immediately closing the trough: the fabric is thus easily inserted under the trough without receiving direct pressure.
After a few moments, the roller begins to rotate again and the conch begins to close on the fabric, pressing the entering edge of the fabric precisely and evenly.
When the icon is pressed and the functionality is activated, whenever the foot pedal is operated the ironer can be used in this mode.
This function eliminates unwanted creases on the entering edge of the fabric and makes it easier to eliminate creases on the ironed fabric.



23_S. HOUR METER MANAGEMENT

During the operation of the machine, a working hours counter is incremented and stored in memory between a shutdown and the next restart. The Installer is able to view the number of working hours by accessing a reserved area of the microprocessor.

24_S. SPEED TEMPERATURE COMPENSATION

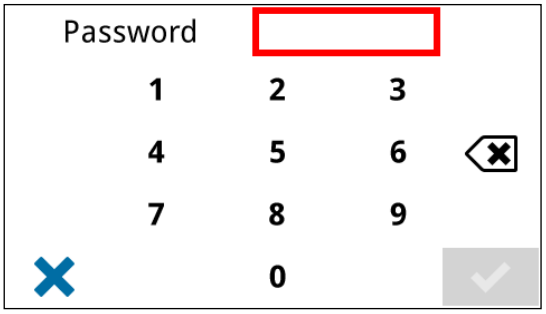
You can control the ironer so that the speed changes automatically as the temperature changes. The variation changes the velocity value within a range of 1% to 20% from the set point value.
Based on the percentage difference between the current temperature value and the set value, the speed of the roller is also varied in direct proportion and by the same percentage amount compared to its set point value.
This management is optional: if you want to apply or remove it, request it from the Installer, who will reconfigure the microprocessor.

25_S. PROGRAMMING

It is possible to perform a series of changes to the default data by entering the user menu or in the PROGRAM EDITOR.
To access, while the machine is stationary, press the relative icon:



The screen appears on the display:



Enter the 6-digit code for access to the user area (default password) "123456".
Once the sequence is completed, the screen with the list of menus appears on the display.
This screen is the gateway to the user programming area.
By browsing it you can access the configuration of:

- PROGRAMS
- SETTINGS
- RECORDINGS

By entering PROGRAMS you can change the default settings of a program by choosing the following functions:

- Select the program number to be modified;
- NAME: The name of the program will appear above the program icon.
- CYCLE TEMPERATURE: the temperature of the program.
- ROLLER SPEED: the speed of the program.
- CONCH PRESSURE: the pressure of the conch.
- SUCTION: (if available) possibility to activate the suction

By entering SETTINGS you can choose the following functions:

- CHANGE LANGUAGE: to define the communication language of the touch screen.
- SET DATE: To adjust the local date.
- SET TIME: To adjust the local time.
- TEMPERATURE °C/°F: To decide whether to display the temperature in °C or °F.
- DISABLE TOUCH: to decide that, while using the machine, the only active button on the keyboard remains the STOP button (it is therefore impossible to change the parameters of the program in progress).
- USER PASSWORD: to customize the user password (the current one will be requested)
- UPLOAD/DOWNLOAD PROGRAMS: to manage and copy sets of programs from one machine to another.
- BEEP KEYBOARD: to enable a beep with each type or selection.
- PANEL MANAGEMENT: to move program icons, delete programs, select program icons
- LOAD ICONS FROM USB: allows you to load custom program icons via a special USB interface.
- LOAD SYSTEM ICONS FROM USB: allows you to load new custom system icons via a special USB interface.
- MACHINE ON: allows you to manage the warning when the machine is not on when no ironing activity is in progress. The message "ARE YOU IRONING?" appears on the display when the temperature of the machine does not undergo changes typically caused by the ironing process and is designed to avoid periods of unattended heating that can lead to premature aging of the upholstery or ironing bands. The behavior of this parameter is related to the values of T1, T2, HYSTERESIS available and configurable within this parameter. The message "ARE YOU IRONING?" appears if within time T1, the machine does not return to the setpoint temperature subtracted by the HYSTERESIS value. If the user does not respond to the message within a time T2, the machine will start the COOLDOWN procedure autonomously, reaching the shutdown.
Example: A program with a set point temperature of 160°C is started. T1=10 min, T2=10 min, HYSTERESIS = 2°C. If after 10 minutes (T1) from reaching 160°C, the temperature has not fallen below 158°C (Tsetpoint - HYSTERESIS), then the message "ARE YOU IRONING?" appears. If no one

responds to the message within 10 minutes of the message (T2) appearing, the machine will enter COOLDOWN.

- FOOTPEG: allows you to manage the operating mode of the pedal set. It is possible to set the machine to turn on and off by means of snapshot presses of the pedal board (stepper mode), or the continuous press function of the pedal (button mode).

- TEMP./SPEED COMPENSATION: allows you to activate or deactivate the speed reduction/increase according to the actual temperature of the machine.

- MAX COMPENSATION %: defines the TEMP./SPEED compensation as a % value. As the actual temperature of the machine changes, the speed will be lowered or increased by a % value. The function has the purpose of slowing down the roller when the temperature of the machine drops significantly compared to the set point temperature of the program, vice versa to increase it when the temperature rises due to inertia phenomena.

- CONCH PRESSURE: unit of measurement Kg/m2 or lb/ft2.

By entering REGISTRATIONS you can check the machine diagnostics:

- WORKING HOURS: the total working hours of the machine can be verified.

- PROGRAM STATISTICS: you can check the total number of programs performed and the repetitions of each individual program.

- DOWNLOAD RECORDINGS: you can download the entire contents of the recordings menu on USB.

- ENERGY STATISTICS: It is possible to consult the electricity consumption referred to the last ironing cycle, referring to the entire working day and referring to the total.

26_E. START AND STOP (EASY version)

Switch on the machine by turning the main switch, described in the previous paragraph, to the "I" (ON) position.
Make sure that the emergency button is in the home position, and that it has not been activated during transport or before the machine was last switched off.
Before starting the machine, always carry out the safety check procedure (check the relevant paragraph).



When switched on, the display shows the ambient temperature.
To activate the ironing cycle, press the green START button and select the temperature on the digital thermostat: press the SET button.
For a few moments, the word "SP" appears: then set the desired ironing temperature using the "UP" and "DOWN" arrows. This activates the heating system.
To start ironing, press the pedal and the roller will start to rotate.
The machine can be equipped with the following optional features:

- Speed control: In this case, you can use the adjustment wheel ("Speedometer" icon) to adjust the

rotation speed of the ironing roller
- Extraction system: In this case, you can activate or deactivate the extraction ("Fan" icon) by pressing the corresponding blue button
- To stop the roller from rotating, press the pedal back in.

To permanently stop the cycle, and therefore also the heating, press the red STOP button.

27_S. MALFUNCTION REPORTS (SMART version)

In the event of malfunctions, the microprocessor provides complete diagnostics. The list of alarms is followed. In any case, the user is invited to contact an authorized service center for the solution of the problem occurred. Please note that the activation of each of the following alarms is accompanied by the intermittent and continuous sound of the buzzer.

- OVERTEMPERATURE

The temperature of the roller has exceeded the safe limit. In the event that this alarm occurs, the trough opens automatically and the suction (if any) is engaged. The alarm is automatically removed when the temperature drops below the full scale.
While the alarm is active, you cannot start the roller. Call Technical Assistance to check for the fault.

- FAULTY PROBE

There is a failure of the temperature probe, The behavior of the machine is the same as in the case of overtemperature seen above. Call the Technical Assistance service.

- ENGINE THERMAL

There is a signal from the thermal motor saving device when there is a fault in the inverter that powers the motor that drives the roller. The machine activates the cool down and turns on the vacuum cleaner (if present).
When the cool-down temperature is reached, the machine switches off: the alarm remains on the display and can be reset by turning off the machine. Call the Technical Assistance service.

- WDT CHEST

If the rest position of the trough is not reached within the time limit of the ascent command, the machine is in *the OFF position.*


ATTENTION!

In the event that this alarm occurs, immediately suspend the use of the machine and call the Technical Assistance service immediately.

- ACTIVATING THE SAFETY RESET BUTTON

Below the touch screen is the SAFETY RESET button of the safety system. This system intervenes, illuminating the button, when one of the following events occurs:
  - intervention of the hand-saving bar;
  - activation of the panic release;
  - emergency mushroom pressure;

Safety is restored by pressing the SAFETY RESET button.
If the light does not go out, the alarm has not retracted.
It means that at least one of the elements listed above has not yet been restored, and that the machine is still in standby, waiting to return to safe conditions.

27_E. MALFUNCTION REPORTS (EASY version)

In the event that malfunctions occur, the display provides some diagnostic information. The list of alarms is followed. In any case, the user is invited to contact an authorized service center for the solution of the problem occurred.

- Pr1

It is an alarm related to the temperature regulation probe: in this case, check the integrity of the probe and the goodness of its electrical connection

- RED LED ON, ALARM NOT RESETTABLE

It means that one of the safety contacts is open and the safety control unit is blocked: using the wiring diagram, check the continuity of the electrical chain:

- Safety thermostat
- Hand Saver Bar
- Panic release
- Emergency Mushroom
- engine thermal
- Contact of the STOP button

Safety is reset by pressing the green START/RESET button.
If the light does not go out, the alarm has not retracted.
It means that at least one of the elements listed above has not yet been restored, and that the machine is still in standby, waiting to return to safe conditions.

28. MAINTENANCE OF THE IRONER


ATTENTION!

There is a risk of injury or damage to the equipment.
Any ordinary or extraordinary maintenance work must be carried out by professionally qualified personnel.
Make sure that all power supplies are disconnected before performing any maintenance.


ATTENTION!

Perform any type of maintenance only when the machine has completed cooling and has reached, in all its parts, the room temperature.

Padlock the interlocked switch.
Do not spray water or steam for cleaning.
Ordinary and extraordinary maintenance is reported with the scheduled cadences.
Do not allow lint to accumulate around the machine.
For daily cleaning, use a soft, damp cloth. Do not use abrasive products, scouring pads, solvents or metal objects.

- EVERY DAY:


ATTENTION!

Cleaning the machine is extremely important. The accumulation of fluff could generate the risk of developing a fire!
At the end of each working day, clean the side filters of the machine of any accumulated fluff.

- EVERY THREE MONTHS:

Check the cleanliness of the vacuum cleaner (for machines equipped with it). Open the left side door, unscrew the auger closing screws, and check the cleanliness of the auger. Check the tightness of the mechanical connecting screws and the impeller tightening screw on the shaft.

- EVERY SIX MONTHS

Check the goodness of the cloth and the peg that cover the ironing roller. The replacement of the cloth and the clothespin is necessary when the first burns form on the ironing fabric. Please note that the machine must be used along its entire length, in order to avoid burns concentrated in certain areas (classically on the sides of the roller), and that the machine must be switched off only after the temperature of the chest has dropped below 80°C.

Check the diameter of the ironing roller with a tape measure at different points on the roller: near the right and left shoulders and in the middle.
The replacement of the steel wool roller cover is necessary when the diameters of the rollers, complete with fabric and clip, fall below the following values:

- 785 mm circumference for ironers with a diameter of 25 cm
- 1005 mm circumference for ironers with a diameter of 33 cm

When the steel wool cover is replaced, the fabric and the clip must also be replaced. Please note that the machine must be used along the entire length, in order to avoid the formation of depressions in the padding (classically in the center of the roller).

Once the second part of the coating with sheet and clip has been completed, the final dimensions of the roller are:

- 780±5 mm circumference for ironers whose roller has a diameter of 25 cm
- 1027±5 mm circumference for ironers whose roller has a diameter of 33 cm

- EVERY TWELVE MONTHS

Verification of the efficiency of the gas springs.
The replacement of the gas springs is necessary when the trough can no longer get close to the roller to perform ironing or its pressure is no longer sufficient (case of gas leaks and relative inefficiency of the spring)

29. IRONING PROBLEMS

In case there are poor results in the stretched fabrics, check the following trouble shooting.

PROBLEM detected	Probable SOLUTION
The fabric struggles to slip between the chest and the roller with the formation of puckering at the exit.	a) Proceed to clean the chest. The cleaning of the conch must be carried out by passing a thin fabric folded once, covering the entire length of the roller, and containing powdered paraffin inside. By stretching the folded fabric, the paraffin melts and is spread over the chest. b) Check the selected ironing pressure: it may be too high
The fabric tends to get stuck between the conch and the roller.	a) Check that there are no solid residues on the trough. In this case, the trough must be dismantled and cleaned with a brush equipped with brass bristles. The brush should be used in the direction of the passage of the fabrics. Do not brush horizontally (from right to left!). b) Check the selected ironing pressure: it may be too high
The fabrics come out with yellowish spots.	a) Check that the rinses performed with the washing machine are accurate and completely eliminate detergent residues. PH must be between 5 and 6 b) Check the selected temperature: it may be too high
The fabrics come out yellowed.	a) Check that the ironing temperature is compatible with the temperatures provided for the fabric: it is possible that the ironing temperature is too high b) Check that the ironing speed is not too low
Black lines form on the cloth along one or more circumferences.	a) Check that there are no punctual residues on the trough due to the melting of buttons or nylon seams. b) Check that the chrome plating has not been affected by zips or metal elements.

PROBLEM detected	Probable SOLUTION
The tissues come out with irregular folds, neither parallel nor perpendicular to the concha.	a) Check the degree of residual moisture when inserted. Fabric that is too dry may not be ironed properly
The fabrics come out still wet.	a) Check the degree of residual humidity at introduction, which must not exceed 20%. b) Check the ironing speed: too high a speed may prevent complete drying. c) Check the selected temperature: it may be too low. d) Check the humid air extractor: a clog could limit its efficiency. e) Check the selected pressure: it may be too low.
The fabrics come out with horizontal "pleats"	a) Check the degree of residual humidity at introduction, which must not exceed 20%. b) Check the selected temperature: it may be too high

30. PROCEDURE FOR CHECKING SAFETY DEVICES

After turning on the machine, before starting the ironing cycle, it is always necessary to check that the safety devices are working perfectly, The user must always scrupulously carry out the following procedure:

Sequence of ACTIONS	CONSEQUENT REACTIONS
Press the ON/OFF button on the digital keypad ...	… the cylinder MUST NOT start rotating
Operate the foot control without inserting any fabric to be ironed ...	… the cylinder MUST start to rotate and the trough MUST close.
Raise the hand-saving bar ...	… the roller MUST stop. The chest MUST reopen
As long as the hand-saving bar remains raised ...	… the machine MUST NOT be able to be restarted
During normal operation, operate the emergency mushroom ...	… the roller MUST stop and the trough MUST rise.
As long as the emergency mushroom is inserted ...	… the machine MUST NOT be able to be restarted
Rearm the emergency mushroom: restart the machine and press the foot pedal ...	… the cylinder MUST start to rotate and the trough MUST close.
Lift the release lever ...	… the chest must open instantly.

Sequence of ACTIONS	CONSEQUENT REACTIONS
After any alarm situation, which involves the turning on of the red light ...	… The machine remains stuck and not working. The machine returns to operation only AFTER the RESET button has been pressed

ATTENTION!

After switching on the machine and before starting work, it is always necessary to check that ALL safety devices are working perfectly.

31. SCRAPPING

When the life cycle of the machine is completed, proceed with scrapping according to current regulations, separating the metal parts from the plastic parts, glass parts, electrical/electronic parts.

Pursuant to Article 13 of Legislative Decree no. 151 of 25 July 2005 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relating to the reduction of the use of hazardous substances in electrical and electronic equipment, as well as to the disposal of waste"



The crossed-out wheeled bin symbol on the appliance or its packaging indicates that the product at the end of its useful life must be collected separately from other waste.
The separate collection of this equipment at the end of its life is organized and managed by the manufacturer. The user who wants to get rid of this equipment must therefore contact the manufacturer and follow the system that the latter has adopted to allow the separate collection of the equipment that has reached the end of its life. Adequate separate collection for the subsequent recycling, treatment and environmentally compatible disposal of the discarded equipment helps to avoid possible negative effects on the environment and health and promotes the reuse and/or recycling of the materials of which the equipment is composed.
The illegal disposal of the product by the holder involves the application of the penalties provided for by current legislation.

32. WARRANTY CONDITIONS

For warranty conditions, please refer to the manufacturer's price list.

ATTENTION!

In order to take advantage of the manufacturer's warranty, the instructions contained in the manual itself must be scrupulously observed, and in particular

- always operate within the limits of use of the machine;
- always carry out constant and diligent maintenance;
- use the machine to use suitably trained personnel;
- Use only original spare parts specified by the manufacturer