

Maintenance and Operating Manual

3000

IRONING TABLE



 **ROTONDI**[®]
group

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IRONING TABLE

MODEL: _____

SERIAL NUMBER: _____

YEAR OF CONSTRUCTION: _____

MARKING: CE



ROTONDI GROUP S.R.L. supplies the following documentation:

- **Maintenance and Operating Manual**
- **Machine diagrams**
- **Declaration of CE compliance**

Main warnings



- IN THE PARAGRAPHS RELEVANT TO THE TECHNICAL DESCRIPTION, THE LOCATION OF THE ACCESSORIES AND THE VARIOUS MACHINE PARTS IS ALWAYS GIVEN WITH REFERENCE TO THE OPERATOR'S POSITION.
- ALL THE MAINTENANCE AND ADJUSTMENT ACTIVITIES DESCRIBED IN THIS HANDBOOK MUST BE CARRIED OUT ONLY AFTER STOPPING THE MACHINE (MAIN SWITCH TURNED TO OFF) AND DISCONNECTING THE POWER CABLE IF NOT CLEARLY INDICATED THAT THE OPERATION MUST BE CARRIED OUT WHEN THE MACHINE IS ON.
- ALL THE ADJUSTMENT AND REPLACEMENT ACTIVITIES THAT ARE NOT DESCRIBED IN THIS HANDBOOK MUST BE CARRIED OUT BY QUALIFIED AND SKILLED OPERATORS TO AVOID ANY ACCIDENT OR DAMAGE TO THE MACHINE AND TO THE OPERATOR.

CAREFULLY READ THIS OPERATING HANDBOOK BEFORE USE.

IT PROVIDES IMPORTANT INFORMATION ABOUT SAFE INSTALLATION, USE AND MAINTENANCE OF THE MACHINE.

- DISREGARDING SAFETY INSTRUCTIONS MAY ENTAIL BOTH SERIOUS INJURIES TO THE OPERATOR AND DAMAGES TO THE MACHINE.
- CAREFULLY KEEP THIS HANDBOOK FOR CONSULTATION PURPOSES UP TO THE MACHINE FINAL DISMANTLING.
- USE AND MAINTENANCE PROCEDURES MUST BE CORRECTLY CARRIED OUT; OTHERWISE, THE BUILDER CANNOT BE HELD RESPONSIBLE FOR DAMAGES TO PEOPLE, ANIMALS OR THINGS DERIVING FROM THE NON-OBSERVANCE OF THE FOLLOWING INSTRUCTIONS.**
- CHECK THAT BOTH THE MACHINE AND ITS COMPONENTS ARE UNDAMAGED WHEN UNPACKING. CONTACT YOUR DEALER IN CASE OF DOUBTS.
- THE INSTALLATION MUST BE CARRIED OUT BY SKILLED OPERATORS, ACCORDING TO THE BUILDER'S INSTRUCTIONS. MAKE SURE THAT THE RATING CORRESPONDS TO THE FACTORY POWER LINE BEFORE ENERGISING THE MACHINE. THE MACHINE IS ELECTRICALLY-SAFE ONLY WHEN PROPERLY GROUNDED. IN CASE OF DOUBTS, CONTACT SKILLED OPERATORS FOR A THOROUGH INSPECTION.
- DISCONNECT THE MACHINE FROM THE POWER LINE BEFORE ANY CLEANING OR MAINTENANCE ACTIVITY.
- NEVER LEAVE THE MACHINE CONNECTED TO THE POWER LINE IF THIS IS NOT NECESSARY. TURN OFF THE MAIN SWITCH WHEN THE MACHINE IS NOT BEING USED.
- IN CASE OF TROUBLE AND/OR BAD FUNCTIONING DISCONNECT THE MACHINE FROM THE POWER LINE, CLOSE THE WATER, STEAM AND COMPRESSED AIR COCK WITHOUT TAMPERING WITH THE CONTROLS AND THE EQUIPMENT. CONTACT ONLY A QUALIFIED AFTER-SALES TECHNICAL SERVICE AUTHORISED BY THE BUILDER.
- DRAIN AND LOAD PIPES, SAFETY SHEATHS AND SOLENOID VALVES MUST NOT BE CUT AND TAMPERED WITH. DISCONNECT THE MACHINE FROM THE POWER LINE IN CASE OF DAMAGE.
- ANY USE OF THE MACHINE OTHER THAN THE ONE IT HAS BEEN BUILT FOR REPRESENTS AN ANOMALOUS CONDITION, CAN CAUSE SERIOUS DAMAGES TO THE OPERATING MEANS AND ENTAIL A SERIOUS RISK FOR THE OPERATOR USING IT.
- NEVER REMOVE OR HIDE THE WARNING LABELS AFFIXED IN THE MACHINE FRONT AND SIDE PARTS.

IN ADDITION:

A FEW FUNDAMENTAL RULES COMMON TO ALL ELECTRIC POWERED MACHINES MUST ALSO BE OBSERVED.

IN PARTICULAR:

- NEVER TOUCH OR START THE MACHINE WITH WET HANDS OR BARE FEET.
- REMOVE THE CASINGS AND THE DOORS OF THE ELECTRIC BOARDS ONLY ONCE THE MACHINE HAS BEEN STOPPED AND DE-ENERGISED;
- NEVER PULL THE POWER CABLE TO DISCONNECT THE PLUG FROM THE SOCKET.

FOR FIRE-PREVENTION PURPOSES:

- KEEP ALL INFLAMMABLE OR COMBUSTIBLE PRODUCTS AWAY FROM THE EQUIPMENT AREA.
- CAREFULLY READ THE INSTRUCTIONS ON THE LABELS OF THE SUITS.

OF COURSE, THE ABOVE-MENTIONED INSTRUCTIONS ARE NOT SUFFICIENT TO PREVENT ALL SORTS OF ACCIDENTS; THEREFORE, THE USER WILL HAVE TO BE CAUTIOUS.

THE MACHINE MUST NOT BE MODIFIED OR CHANGED IN ANY WAY WITHOUT THE BUILDER'S WRITTEN AUTHORISATION.

- **THE MANUFACTURER'S RESPONSIBILITY CEASES IN THE EVENT OF INTERVENTIONS RESULTING IN MODIFICATIONS, MISHANDLING OR ANY OPERATIONS WHICH PROVE DETRIMENTAL TO THE MACHINE'S SAFETY AND STABILITY, PRACTICED AFTER FINAL TESTING AND THE ISSUING OF THE CE DECLARATION OF CONFORMITY.**

Main warnings

IMPORTANT SAFETY INSTRUCTIONS

When using your appliance, basic precautions should always be followed, including the following:

1. Read all instructions
2. To reduce the risk of contact with hot water emitting from steam vents, check appliance before each use by holding it away from body and operating steam button
Exception. This instruction may be omitted for an appliance that will not produce water droplets as determined by the test specified in 32.1.4
3. Use appliance only for its intended use
4. To reduce the risk of electric shock, do not immerse the appliance in water or other liquids
5. Never yank cord to disconnect from outlet; instead grasp plug and pull to disconnect
6. Do not allow cord to touch hot surfaces. Let appliance cool completely before putting away. Loop cord loosely around appliance when storing
7. Always disconnect appliance from electrical outlet when filling with water or emptying and when not in use
8. Do not operate appliance with a damaged cord, or if the appliance has been dropped or damaged. To reduce the risk of electric shock do not disassemble or attempt to repair the appliance, take it to a qualified service person for examination and repair incorrect reassembly or repair could cause a risk of fire, electric shock or injury to persons when the appliance is used
9. Close supervision is necessary for any appliance being used by or near children. Do not leave appliance unattended while connected
10. Burns could occur from touching hot metal parts, hot water or steam. Use care when you turn a steam appliance upside down - there may be hot water in the reservoir

SAVE THESE INSTRUCTIONS

45.4 As applicable, the following instructions or the equivalent shall be included in addition to the instructions n.45.3

a) For appliances rated more than 7 amperes

11. To reduce the likelihood of circuit overload, do not operate another high wattage appliance on the same circuit
12. If an extension cord is absolutely necessary a (ampere rating of the appliance) ampere rated cord should be used. Cords rated for less ampereage may overheat. Care should be taken to arrange the cord so that the cord cannot be pulled or tripped over

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General information about the operating handbook

1.4 Manual use and safekeeping

This manual has been written for the machine user, and for all the personnel in charge of transport and handling, installation, use, supervision, maintenance and demolition.

This manual provides all instructions on machine use according to the project and technical features, for handling, adequate and safe installation, assembly setting, tuning and use. It also provides all instructions for maintenance operations, how to order spare parts, and provides warning advice on possible additional danger risks.

In particular, the manual must be readily available for the following information:

- working conditions for machine use;
- the operator's work control position;
- as well as instructions concerning:
 - setting up;
 - use;
 - transport;
 - installation;
 - assembly and disassembly;
 - setting and tuning interventions;
 - repairs and maintenance;
 - possible training instructions.

Respecting current legislation

As well as the rules included in this manual, all current specific safety standards against danger in the work area must be correctly observed.

Safekeeping of the manual.

This manual is considered as being part of the machine and must be kept safely and in good condition for the whole period the machine is used.

It must be kept in a safe dry place out of sunlight, readily available and accessible for reference near the machine at all times.

Information for the user.

1. This manual describes the current technical level of the machine and cannot be considered incomplete if the machine is upgraded as a result of new know-how.
2. The manufacturer reserves the right to update the machine and this manual without the necessity to update previous models and manuals.
3. The materials used on this machine can be modified at any time as a result of technical evolution without prior notice.
4. In the case where the machine supplied to the customer is not equipped with electrical controls and protection (electrical control panel on the machine), the manufacturer assumes no responsibility concerning safety protection from electrical parts which are not in compliance with instructions provided and recommended in this manual. In all cases the current safety standards concerning electrical parts for accessory machine equipment are the sole responsibility of the customer who must provide for their correct standard and suitability for the use in question.

General information about the operating handbook

5. The manufacturer will not be held responsible for any damage or injury as a result of:
- incorrect use.
 - incorrect machine use
 - use by untrained personnel
 - inappropriate use not included in these instructions
 - use contrary to current legislation and safety standards
 - use with faulty main line supply
 - use in the case of serious lack of maintenance
 - use after unauthorised changes or interventions (changes without written authorisation from manufacturer)
 - use with non original spare parts or parts not specifically recommended for the machine
 - use after disregarding either totally or partially specific instructions provided in this manual.
6. The general sales guarantee is not valid in the following cases:
- bad maintenance;
 - problems as a result of incorrect use;
 - use by inexperienced personnel;
 - excessive use over machine performance limits;
 - excessive mechanical, electrical or pneumatic strain;
 - use when the machine is not in good performing condition (point 5).

1.5 Request for additional copies of the manual

Eventual requests for other copies of this document must be ordered from the **ROTONDI GROUP S.r.l.** as well as:

- any instructions concerning tools which can be mounted on the machine;
- essential safety requisites in compliance with machine standards and enclosures.



WARNING!

The Manufacturer reserves the right to modify the machine, for any reason of a technical or commercial nature, without the obligation of prior warning to its customers.

The Manufacturer shall not be held responsible for any inconveniences, damages and breakage, injuries resulting from:

- total or partial knowledge of the machine and its operation;
- incomplete application of norms on usage and safety established in the present catalogue;
- erroneous manoeuvres;
- lack of maintenance;
- maintenance interventions carried out by non qualified personnel;
- natural disasters.



IMPORTANT!

The operator, or whoever is responsible for the machine's use and maintenance, is severely cautioned against bring about any modifications or variations to the machine and the present maintenance and operating manual without the manufacturer's prior consent.

NOTE!

ROTONDI GROUP S.r.l warns its customers that any reference to objects or products of a specific brand are not binding, and that discrepancies may exist with what is effectively adopted on the machine. The graphic documentation employed is therefore utilized purely for indicative purposes.

Machine description

The series 3000 ironing table is specially designed for professional ironing, with a suction and steam work table, particularly well suited for heavy work clothes or difficult to iron garments.

Available with or without a boiler unit, the table can be accessorized with: ironing unit, arm unit for the application of various forms, sleeve-ironing form, waist-ironing form and stainless steel spot removing unit, steam guns, steam-air and water sprinkling unit, lighting installation and scrolling swing wheel for the use of "suspended iron" or trolley system.

Picture chapter 2



Machine description

2.1 Additional risks

In order to work in the maximum safety conditions and to avoid any dangerous situation and accident, the operator must follow the operating instructions and regulations listed below.

Additional risks relevant to Chapter 5 "Machine handling and transport".



- Machine transport and handling operations must be carried out with personnel wearing proper safety footwear.



- Machine transport and handling operations must be carried out with personnel wearing proper safety gloves.



- Machine transport and handling operations must be carried out with personnel wearing proper safety helmets.

- Lift the machine only by means of a crane or a forklift truck.

- Only skilled operators can lift the machine.

- Make sure that the machine weight is well balanced on the forklift truck or transpallet to avoid any sort of dangerous oscillations.

- If a crane is used to lift the case, no foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance not to be intercepted by the machine.

- Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.

Additional risks relevant to Chapter 9 "MACHINE USE".

- If the machine must be disarmed immediately for any reason whatsoever, **turn the main switch to the OFF position.**

- During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder on the machine in order to protect the operator while performing his tasks.

- Only skilled and qualified operators can use the machine.

- Never leave the machine unattended.

Machine description

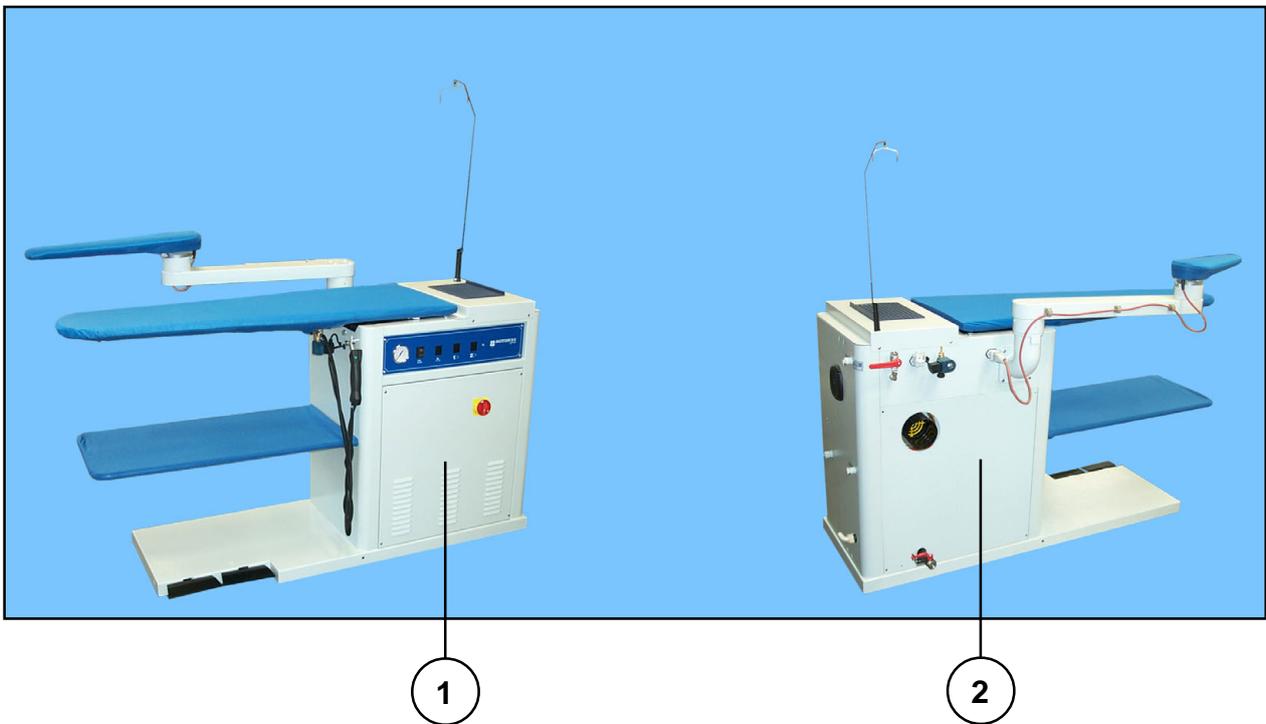
2.2 Safety devices

The following safety devices have been assembled on the machine, in order to protect the operator from any possible accident caused by the contact with moving mechanical parts, machine hot parts and components or electric wires:

REFERENCE:**DESCRIPTION:**

- | | |
|---|---|
| 1 | Fixed safety panel at the front of the machine. |
| 2 | Fixed safety panel at the rear of the machine. |

Picture chapter 2.2



⚠ Warning ⚠

- The builder has provided the machine with safety devices to protect the operator while performing his tasks. During the machine functioning, the safety devices must never be removed for any reason at all. The operators, although skilled, must comply with the instructions and the warnings contained in this handbook.

Machine description

2.3 Warning about the additional risks

The following warning plates are applied to the machine:



- a warning label obligating the operator to consult the operating manual before using the machine;



- a warning label relative to the risk of electrocution;



- a warning label prohibiting personnel from touching equipment under voltage;



- a warning label prohibiting personnel from using water to put out fires on electrical equipment;



- a warning label relative to the danger of heat - steam emissions;



- a warning label relative to the danger of the tank under pressure;



- a warning label obligating the operator to check the efficiency of the safety protection measures before starting up the machine;



- one warning label relative to the fork lift truck's impaling points.

Picture chapter 2.3



Warning

- The warning labels relating to residual risks must not be removed or damaged for any reason.

Technical features of the machine

TECHNICAL FEATURES

PARAMETER		3000	3008 (Boiler 8 Lt.)	3032 (Boiler 16,5 Lt.)	3016 (Boiler 16,5 Lt.)
Supply voltage	-	230 V / 1 / 50 Hz	400 V / 3 / 50 Hz		
Ironing unit resistance	Kw	0,8			
Boiler resistance	Kw	-	6,5	6 + 9 Double switch	7,5
Vacuum unit motor	Kw	0,35			
Pump motor	Kw	-	0,5		
Water intake	Ø	-	12mm		
Boiler discharge	Ø	-	1/2"		
Air discharge	Ø	100 mm			
Steam pressure	bar	4,5			
Net weight	Kg	120	140	150	147
Gross weight	Kg	135	155	165	162

SIZE OF THE MACHINE

Width	mm	1700
Depth	mm	650
Height	mm	900

Different voltage and frequency specifications on request

Technical features of the machine

3.1 Machine EC plate

A metal plate indicating the name and address of **ROTONDI GROUP s.r.l** company, the machine model, serial number and the EC mark is applied to the machine.

Picture chapter 3.1



Allowed and forbidden use

The series 3000 ironing table is specially designed for professional ironing, with a suction and steam work table, particularly well suited for heavy work clothes or difficult to iron garments.
Any use of the machine other than the one for which it has been built represents an anomalous condition that can damage the working means and injure the operator.

4.1 Counter-indications and dangers deriving from a forbidden use

- The machine has not been built to work in a place with deflagration risks. **It is therefore absolutely forbidden to use the machine in an atmosphere with explosion risks.**
- For any forbidden use of the machine, **the User must contact the Builder about any possible counter- indications or dangers deriving from the machine misuse.**
- For any modification to be made to the machine once it has left its building site, **the User must contact the Builder about any risks the modifications could entail and about their compliance with the Legislation in force.**
- **Any modification brought to the machine by the buyer or user will immediately void the certification of conformity.**

Handling and transport of the machine

⚠ Warnings ⚠



- Machine transport and handling operations must be carried out with personnel wearing proper safety footwear.



- Machine transport and handling operations must be carried out with personnel wearing proper safety gloves.



- Machine transport and handling operations must be carried out with personnel wearing proper safety helmets.

When delivered, the machine is usually packed in cartons on pallets. After unpacking it, check that the machine is undamaged and that it corresponds to the one you had ordered. Make sure that no loosen parts have been left in the packing and inspect the machine for possible damages suffered during the shipment. In case damages are found, immediately contact both the forwarding agent and the Builder.

Do not leave the packing components (cardboard, wood, staples, plastic bags, polyethylene sheets, etc..) in the environment. They must be collected and delivered to the competent organs.

Lifting and handling operations on the machine while in its packing can be carried out using a fork lift truck or crane.

The machine can be lifted and handled by means of a crane or forklift truck. The machine must be moved inside the industrial area by means of a forklift truck.

This entails the presence of two skilled operators, one of them checking that the way is free from any obstacles.

Picture A chapter 5



Transport by means of a forklift truck



Lifting by means of a crane

Handling and transport of the machine

Picture B chapter 5

**⚠ Warnings ⚠**

- Use only a crane to lift the machine, since it is not perfectly balanced.
- Lift the machine only by means of steel cables or bands duly dimensioned according to the machine weight.
- Lift the machine by means of safety hooks.
- **No foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance to avoid being intercepted by the machine.**
- Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.
- An operator staying outside the handling area will have to follow all the handling activities and signal any possible obstacle the crane operator cannot see.
- The Manufacturer recommends, especially for transport by sea, protecting the machine's various parts with antirust lubricants, and inserting packets of hygroscopic salts in the packing, so as to protect the machine from humidity.
- Once positioned on the truck (or any transport mean) the machine must be braced by ropes, steel cables or wooden wedged duly dimensioned according to the machine weight.

Machine installation

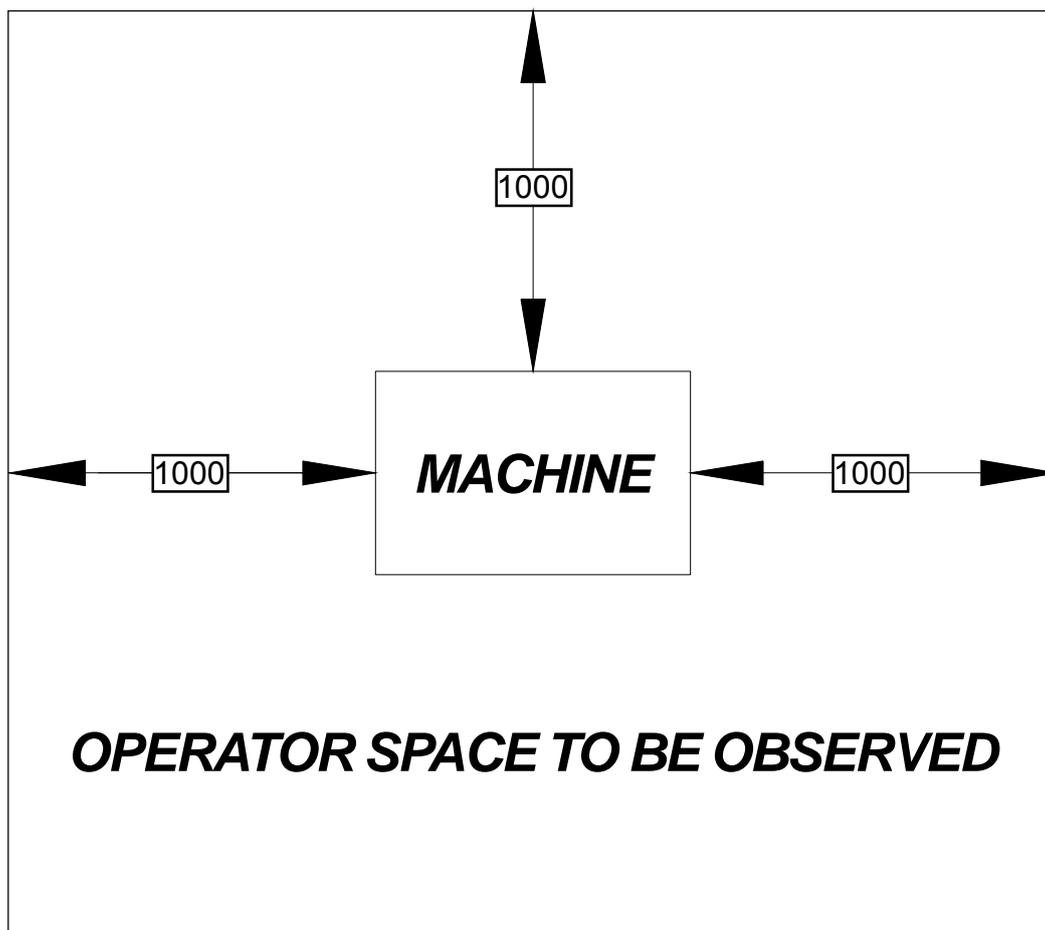
⚠ Warnings ⚠

- *The machine must be installed in a place where the best hygrothermometrical conditions are observed for the safety of the operator in order to reduce the possibility of fatigue to the minimum and to allow the operator to work in the maximum safety conditions.*
- *The machine installation area will have to be well ventilated and free from explosive gases.*
- *The temperature of the machine installation area will have to range between 10 and 35°C.*

6.1 Free spaces to be observed

For a safe and correct use and an easy maintenance of the machine, it is advisable to install it in such a position that observes the minimum distances, expressed in millimetres, from the walls or big obstacles shown in the picture below.

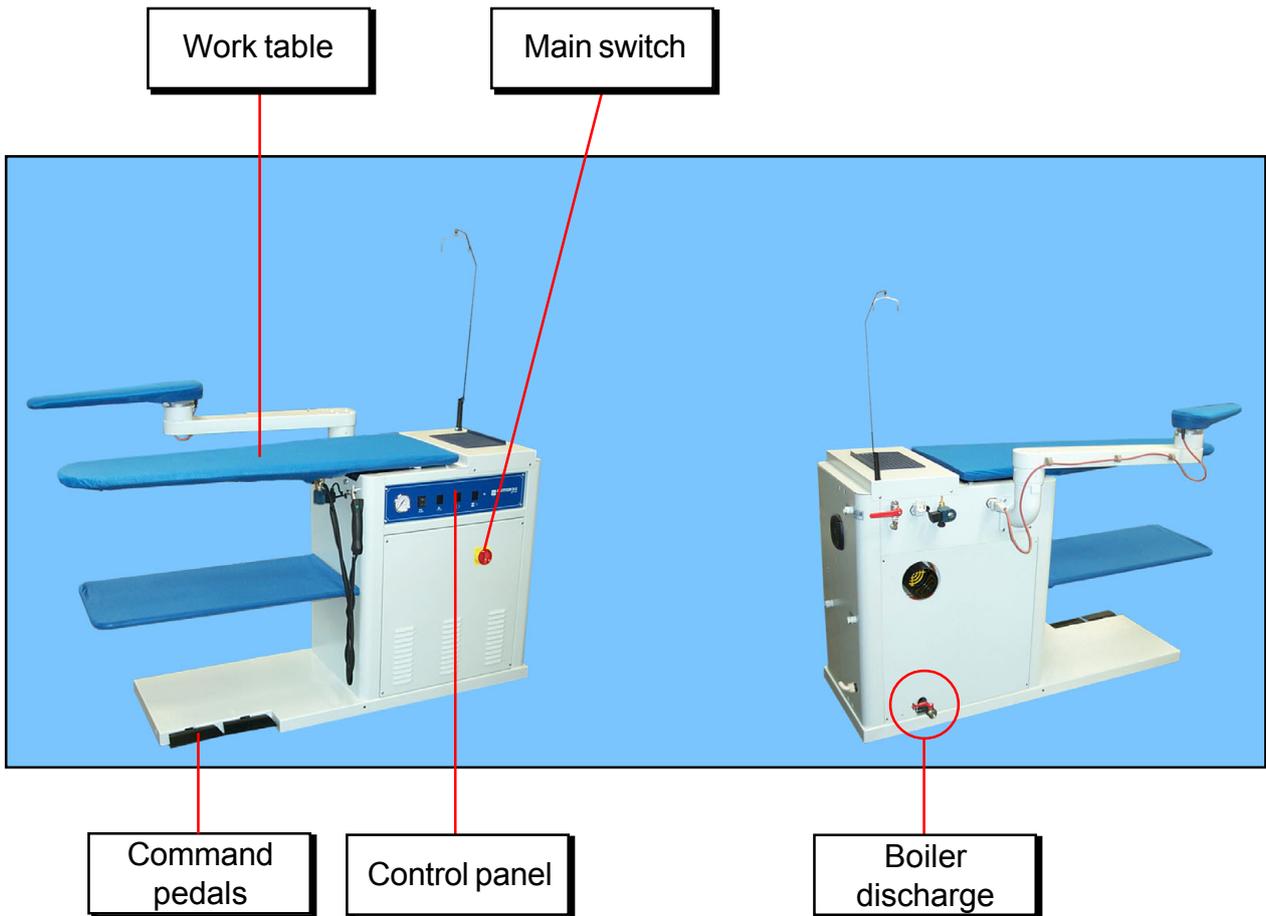
Picture chapter 6.1



Machine installation

6.2 View with the machine main references

Picture chapter 6.2

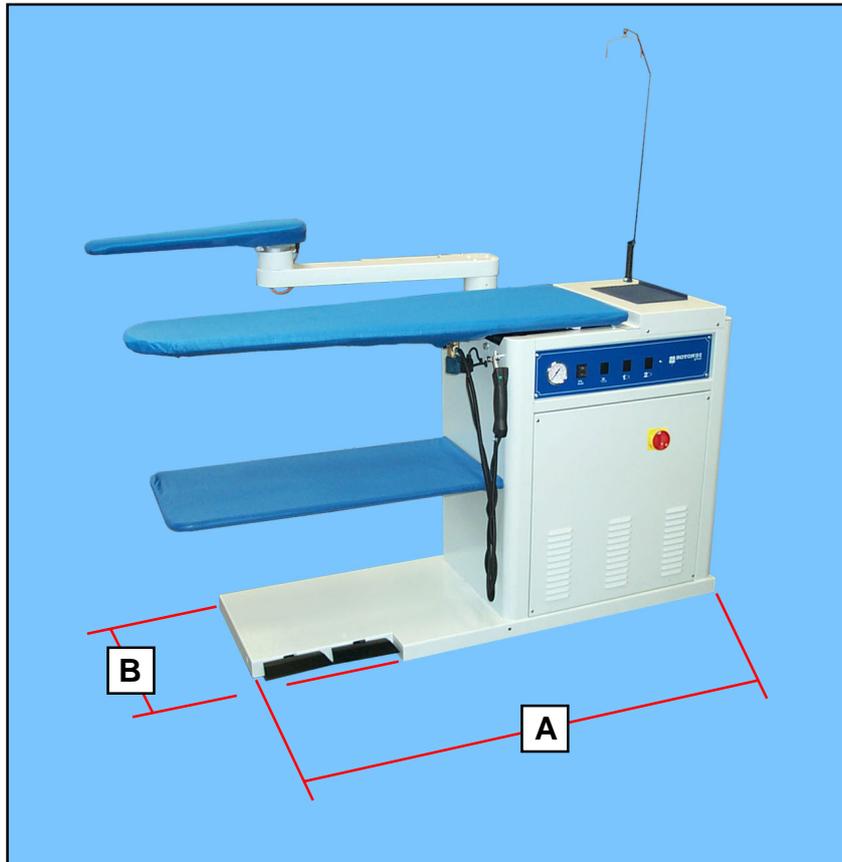


Machine installation

6.3 Machine base structure

The machine's base structure, expressed in millimeters, is indicated in the figure.

Picture chapter 6.3



PARAMETER		3000
Width -A-	mm	1400
Depth -B-	mm	500

Assembly and preparation of the machine

7.1 Preparation of the machine for its use

Upon receipt of the machine in the user's factory, follow the instructions described below for its correct positioning:

- Unpack the machine and remove its protection wrapping.
- Lift the machine according to the instructions and warnings described in Chapter 5 "Handling and transport of the machine".
- Install the machine in the desired place.

7.2 Assembly of the machine accessories

The machine is completely assembled in the User's factory.

7.3 Preventive checks and controls

Upon receipt of the machine, it is advisable to:

- Check if all the parts composing the machine have been delivered to the User's factory,
- carry out a series of preventive checks and controls as described below.

7.3.1 Check of the damages caused to the machine during its transportation

In order to exactly evaluate the possible damages caused to the machine during its transportation, it is advisable to check the integrity of the following machine parts. In particular:

- check that the electrical controls on board the machine have not suffered any damage;
- check that the main switch is undamaged.

Carefully check if the protective wrapping is visibly torn.

7.4 Cleaning and lubrication of the machine

Carefully clean the machine upon its arrival at the User's factory and remove the dust, the foreign and dirtying substances that may have deposited on the machine during its transportation. Grease all the mechanical parts exposed to dust, especially in case of sea transport.



Warning



- *Once the machine reaches the User's factory, it must be cleaned wearing special protective gloves.*

Assembly and preparation of the machine

7.5 Connection to the external power sources**Warning**

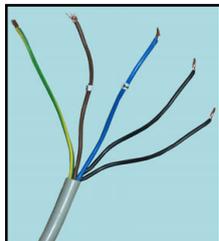
- Only skilled operators can carry out the machine connection to the external power sources.

7.5.1 Power connection

The power cable supplied with the machine is not plugged by the Builder. It must be connected to the main supply line after checking that the voltage and the power supply frequency of the motors and electric components correspond to the voltage and power supply frequency available in the User's factory. The machine has been built to work at a voltage of 230/400V - 50Hz.

Picture chapter 7.5.1

Unplugged
cable

**Warnings**

- Check that the User power supply voltage corresponds to the one indicated on the machine rating. On the contrary, contact the Builder.
- In compliance with the regulations in force, the User will have to provide the machine with safety devices, to avoid short-circuits, and overloads, in order to protect the machine power supply line.
- Only qualified engineers can connect the machine to the power sources according to the regulations in force.

Assembly and preparation of the machine

7.5.2 Water connection

For the water connection, (if the machine is equipped with a boiler unit) it is necessary to connect the machine to the user plant's water line using a tube that is adequate for the installation pressure, with a minimum internal diameter equal to **12 mm**, blocking it rigidly in place with an appropriate tube fastening clamp and inserting a stop valve and filter. Before the connection, allow a quantity of water to discharge in order to eliminate any eventual impurities present in the tubes, such as shards, slivers, calcium deposits, etc.

Picture chapter 7.5.2

Water
connection**7.5.3 Air discharge**

For the air discharge, it is necessary to connect a \varnothing 100mm fitting (see figure chap. 7.5.3). If the discharge proves to be troublesome, it can be routed outside by means of a rigid or flexible \varnothing 100mm plastic tubing.

Picture chapter 7.5.3



Air discharge

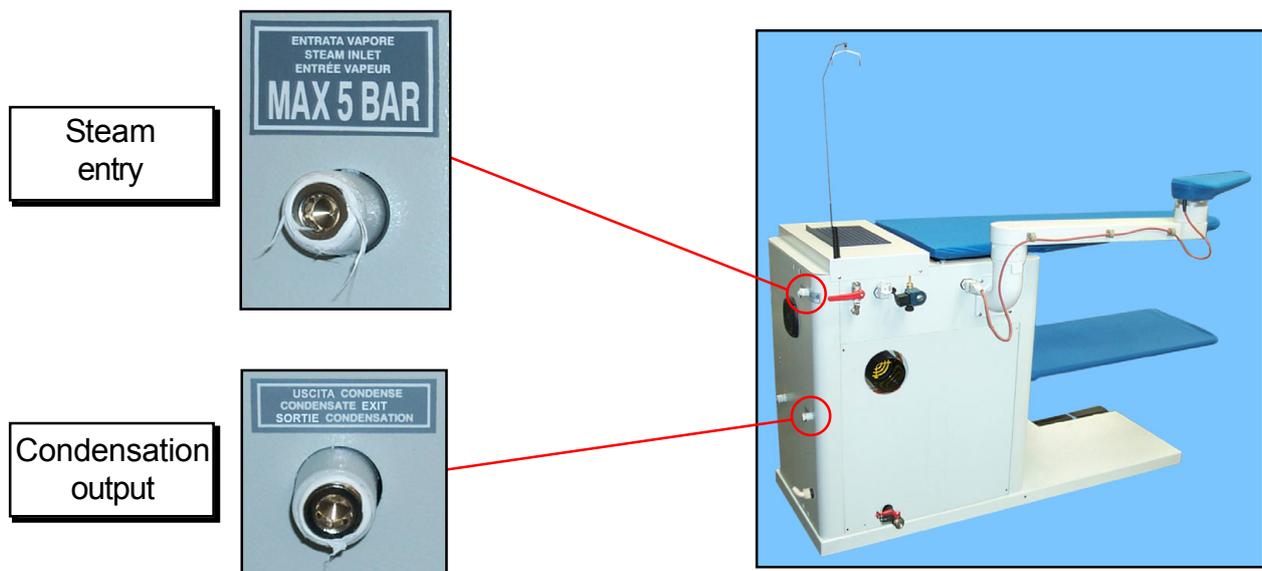


Assembly and preparation of the machine

7.5.4 Steam connection (Mod. 3000)

To carry out the steam connection (in cases in which the machine is not equipped with a boiler unit), it is necessary to connect two 3/8" tubes for entry and output, originating from the generator, to the connections situated at the right side of the machine. The steam operating pressure must be set at 4.5 bar.

Picture chapter 7.5.4



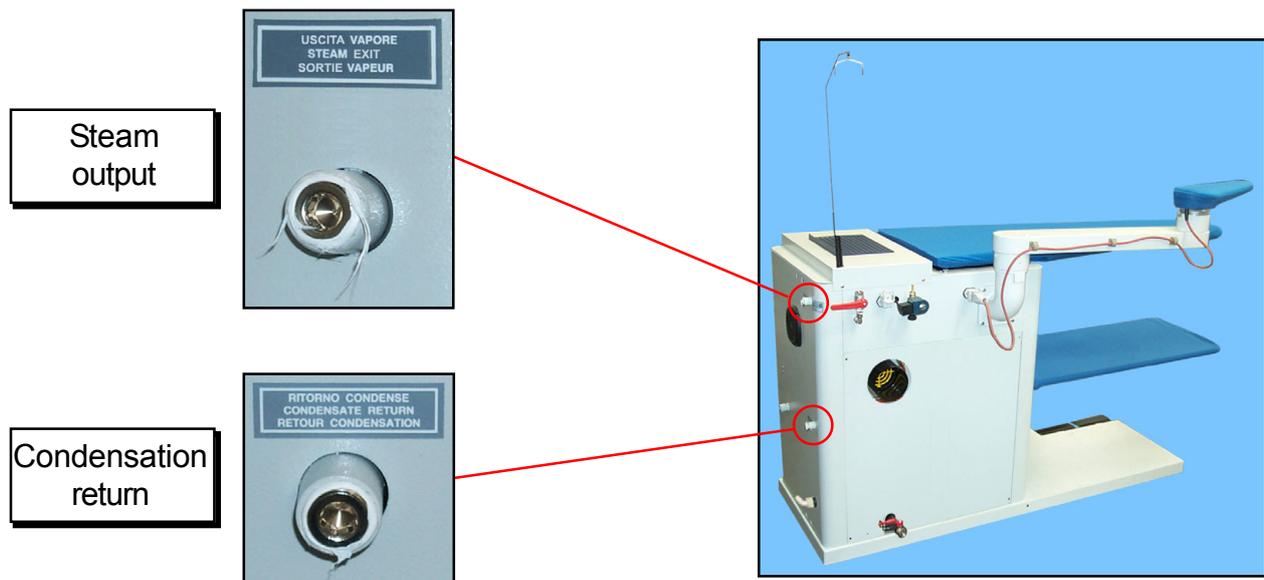
- The steam working pressure must be 4,5 bar.

Assembly and preparation of the machine

7.5.5 Steam connection (Mod. 3008 - 3032 - 3016)

To carry out the steam connection (in cases in which the machine is equipped with a boiler unit), it is necessary to connect two 3/8" tubes for entry and output to the connections situated at the right side of the machine. The steam operating pressure must be set at 4.5 bar.

Picture chapter 7.5.5



- The steam working pressure must be 4,5 bar.

Assembly and preparation of the machine

7.6 Checks and adjustments**⚠ Warnings ⚠**

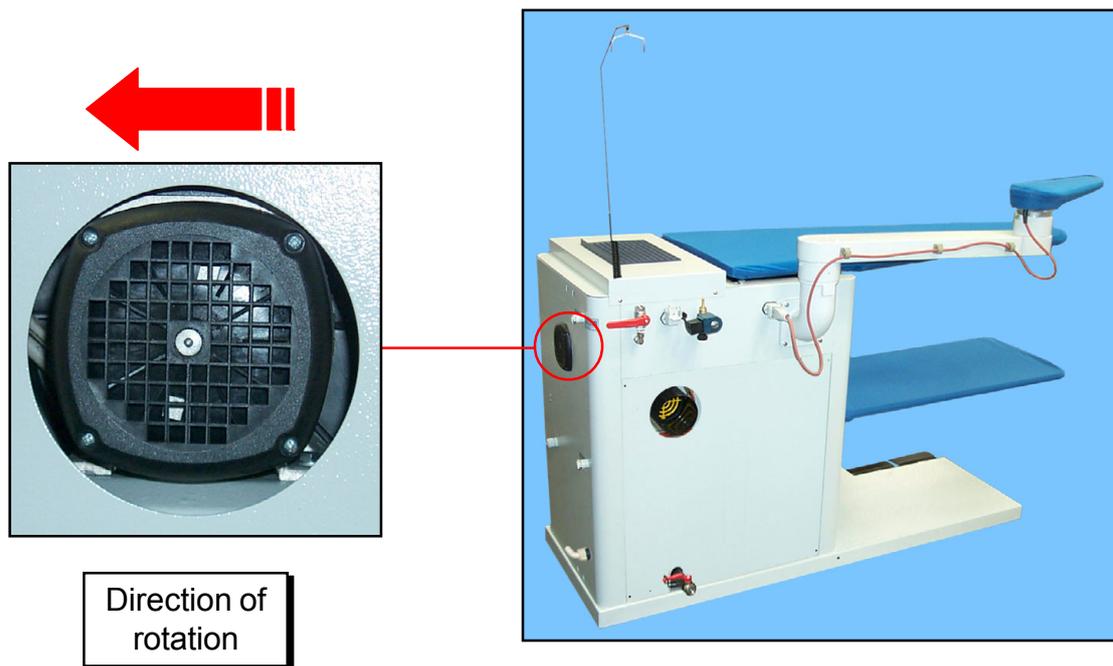
- For any adjustment, timing or replacement intervention not described in this handbook, contact the Builder or the Dealer qualified personnel.
- It is possible to make various adjustments to adapt the machine to the various production needs.

7.6.1 Checking the direction of rotation of the vacuum unit

When starting up the machine for the first time, check the direction of rotation of the vacuum unit, as shown in the figure below.

If the direction of rotation do not correspond to the direction indicated by the arrow, consult the manufacturer.

Picture chapter 7.6.1

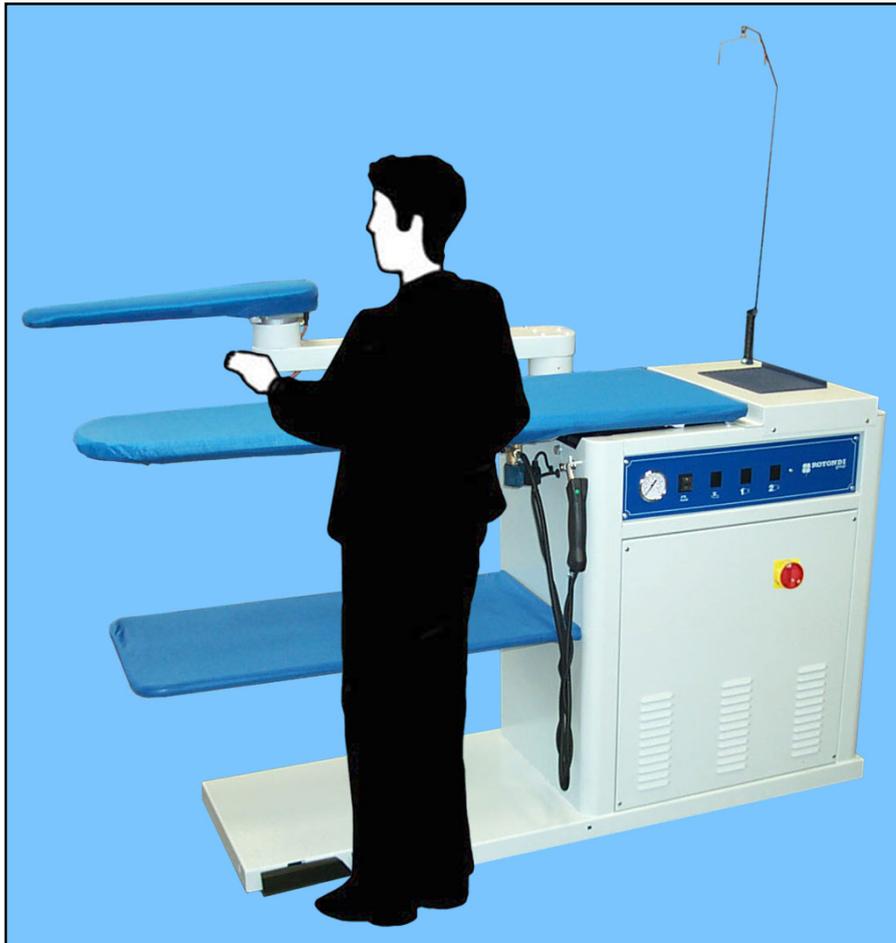


Machine start

8.1 Operator work and control station

The machine's work and control station is situated next to the control pedals, and is to be occupied by just one operator.

Picture chapter 8.1



⚠ Warning ⚠

- To work, the machine requires only one operator. During its functioning no one except for the operator responsible for the machine use can stay near the machine or use it.

Machine start

8.2 Main switch

The main switch, a 2-position selector located at the front side of the machine, powers on the machine when turned to the ON position.
Vice versa, if turned to OFF, the machine is de-energised.

Picture chapter 8.2



Main
switch

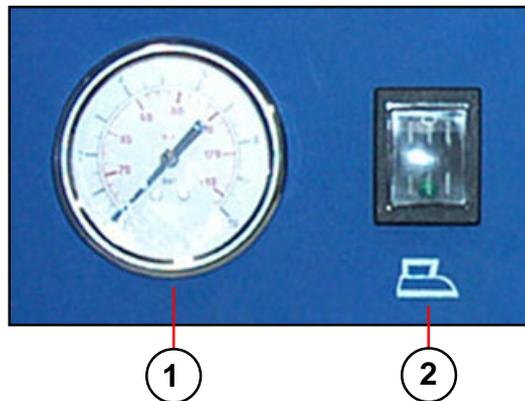
Machine start

8.3 Electric controls**8.3.1 Electric control panel board (Mod. 3000)**

The following is a description of the various controls on the machine's control panel:

REFERENCE:	DESCRIPTION:
1	Pressure gauge: indicates the steam pressure in the boiler.
2	IRONING UNIT ON/OFF switch: press to operate the iron (if present).

Picture chapter 8.3.1



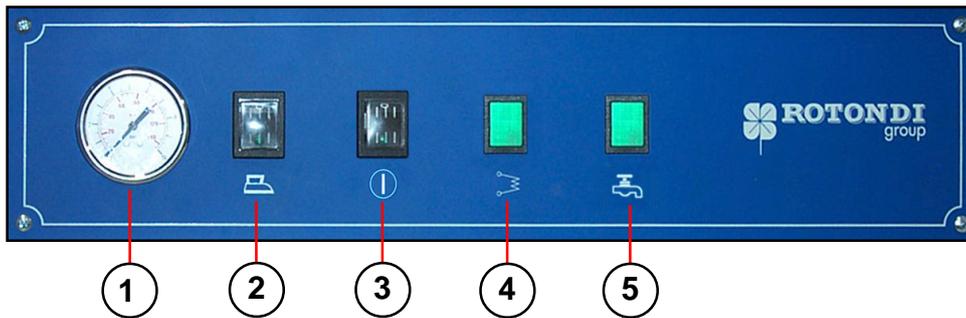
Machine start

8.3.2 Electric control panel board (Mod. 3008 - 3016)

The following is a description of the various controls on the machine's control panel:

REFERENCE	DESCRIPTION
1	Gauge: indicates the steam pressure in the boiler.
2	IRONING UNIT ON/OFF switch: press to operate the iron (if present).
3	ON / OFF switch: press to position 1 to start up the machine.
4	Green pilot light: lights up when the resistances are heated.
5	Green pilot light: lights up when the boiler has loaded up water.

Picture chapter 8.3.2



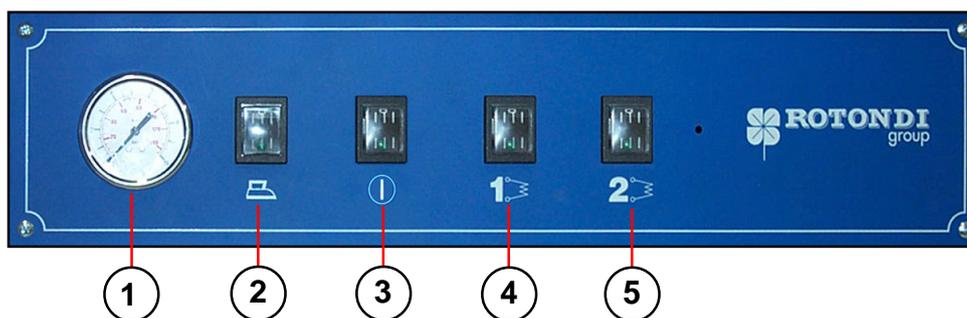
Machine start

8.3.3 Electric control panel board (Mod. 3032)

The following is a description of the various controls on the machine's control panel:

REFERENCE	DESCRIPTION
1	Gauge: indicates the steam pressure in the boiler.
2	IRONING UNIT ON/OFF switch: press to operate the iron (if present).
3	ON / OFF switch: press to position 1 to start up the machine.
4	ON / OFF switch for 1st RESISTANCES GROUP : press to position 1 to activate the first group of resistances (kW 6).
5	ON / OFF switch for 2nd RESISTANCES GROUP : press to position 1 to activate the second group of resistances (kW 9).

Picture chapter 8.3.3



Machine start

8.4 Command pedals

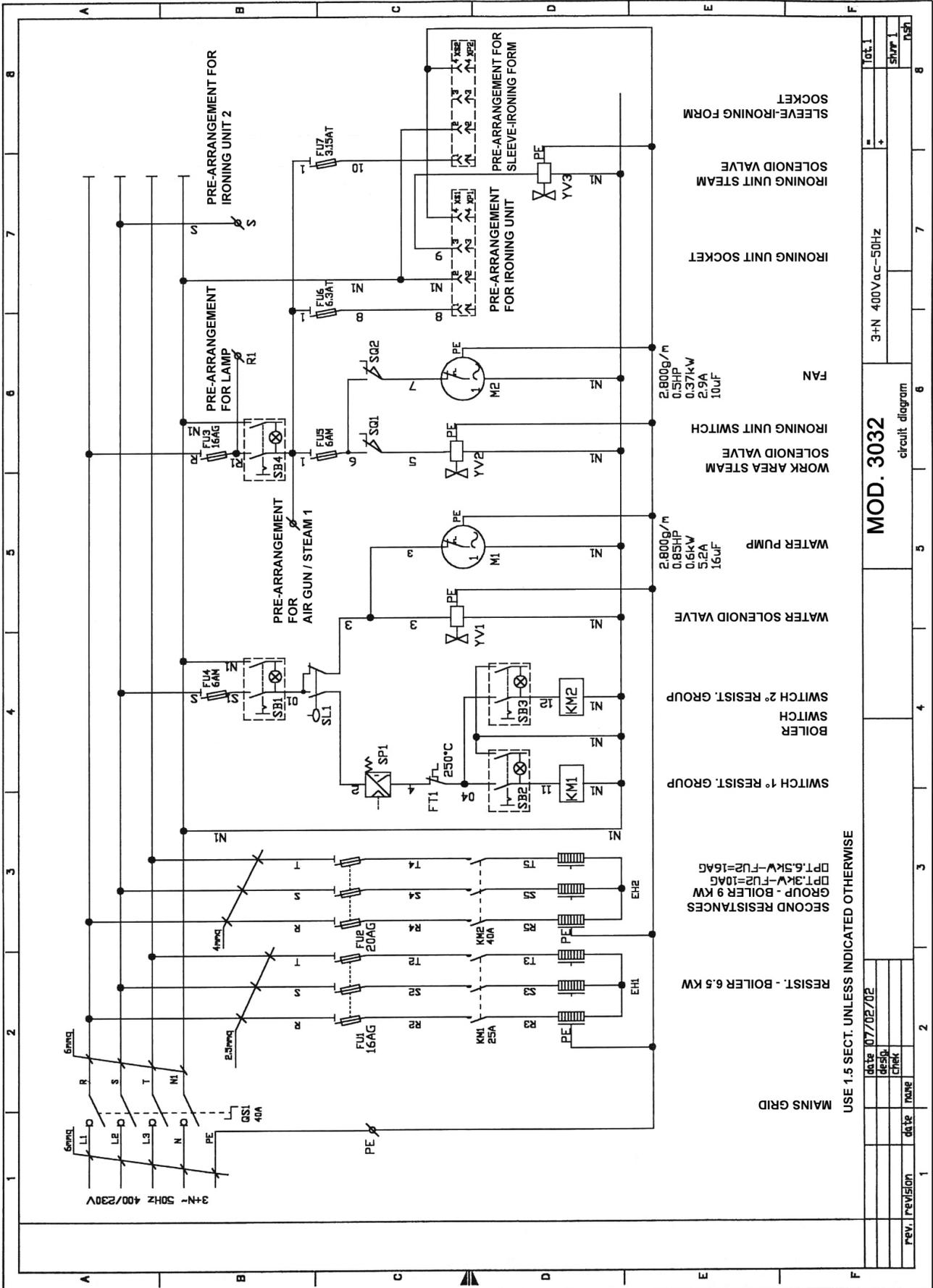
The following is a description of the various command pedals situated at the lower front end of the machine:

REFERENCE	DESCRIPTION
1	SUCTION pedal: press and hold this pedal to suck the garment onto the ironing table.
2	STEAM pedal: press and hold this pedal to emit a jet of steam from the ironing table.

Picture chapter 8.4



Machine start



MOD. 3032

3+N 400V_{ac}-50Hz

REV. 1	date	10/7/02/02
REV. 2	date	
REV. 3	date	
REV. 4	date	
REV. 5	date	
REV. 6	date	
REV. 7	date	
REV. 8	date	
REV. 9	date	
REV. 10	date	

Machine use

 **Warnings** 

- *In order to suddenly stop the machine, **turn the main switch to OFF.***
- *During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder in order to protect the operator while performing his tasks.*
- **Only skilled and qualified operators must use the machine.**
- *Never leave the machine unattended.*

9.1 Description of start-up sequence

After having made certain that all the connections, preliminary checks and settings described in the previous chapters have been properly carried out, start up the machine proceeding as follows:

- 1) Turn the main switch to the ON position.
- 2) Press the start-up switch, situated at the front of the machine.
If the machine is fitted with a boiler with a double resistance group (Mod. 3032), select the desired power using the buttons **4** (6 kW) and **5** (9 kW) (See chap. 8.3.3).
Wait approx. 15-20 minutes: then check that the guage, at the front side of the machine, has reached a setting of 4,5 bar.
- 3) Press the ironing unit start-up switch, located on the front control panel.
- 4) For the STEAM on the ironing surface, press the pedal **2** (see par. 8.4).
- 5) For the SUCTION on the ironing surface, press the pedal **1** (see par. 8.4).

Having carried out these operations, the operator can begin ironing.

9.2 Machine stop

At the end of the work shift, stop the machine in the following way:

- 1) Turn the main switch to OFF.
- 2) Disconnect the machine.

Maintenance and servicing

 **Warnings** 

- *A good maintenance is a determining factor for a longer life of the machine in the best functioning and performance conditions in order to assure the safety conditions provided by the builder.*
- *Before any maintenance or replacement activity, remember to:*
 - **stop the machine (MAIN SWITCH turned to OFF);**
 - **unplug it.**
- **Only skilled operators, familiar with the technology used on the machine can carry out all the maintenance, replacement or servicing activities described in this handbook.**

10.1 Precautions for the machine maintenance

Before any maintenance activity, it is necessary to:

- De-energise the machine and disconnect it.
- Apply a panel warning that the machine maintenance is underway.

10.2 Maintenance interventions

A good maintenance is a determining factor for a longer life of the machine in the best functioning and performance conditions in order to assure the safety conditions provided by the Builder.

ROUTINE MAINTENANCE TABLE		
OPERATION	MACHINE PART	PERIODICITY
Boiler discharge	-	Every 2 days
Visual control	Machinery	Every week
	Electric parts	
Cleaning	Internal	Daily
	General	Weekly
	Boiler (removal of limescale deposits from resistances)	Yearly
Lubrication	Moving parts	Daily

N.B: in addition, it is recommended performing a visual inspection of the inside of the boiler at least once a year, to check the conditions of the internal walls and the presence of any corrosion.

Maintenance and servicing

10.2.1 Discharging the boiler

This operation allows for the discharging, using water, of the large part of the limestone sediments accumulated at the bottom of the boiler. It is preferable to carry out this operation at the end of the work shift, proceeding as follows:

- Switch off the boiler (**BOILER 0-1 switch at position 0**).
- Use the steam until the gauge indicates a pressure of about 0,1 bar.
- Position a container for collecting the water underneath the discharge tap.
- Discharge the water contained in the boiler from the rear side of the machine.
- Once the boiler has been emptied, power it on again (**BOILER 0-1 switch at position 1**) and wait for the pump to fill up the boiler.

**WARNING!**

- **SLOWLY OPEN THE DISCHARGE FAUCET, SINCE THE WATER CONTAINED IN THE BOILER IS AT 100° C.**

**IMPORTANT!**

- **CONNECT THE DISCHARGE TO THE CENTRAL DISCHARGE INSTALLATION, OR EMPTY OUT INTO A COLLECTION TANK USING A RUBBER TUBING.**

Picture chapter 10.2.1



Discharge
tap

**10.2.2 Machine visual inspection**

In order to assure a correct functioning and prevent troubles, periodical visual inspections of the machine and its moving parts are recommended.

Such inspections must be carried out after de-energising the machine.

Particularly make sure that there are no anomalous contacts between the elements and that the fasteners are not loosened.

Maintenance and servicing

10.2.3 Machine general cleaning

Once a week, remove all the dust from the machine using compressed air.
Clean the machine body externally using suitable detergents.



- Always wear protective gloves when cleaning the machine.

10.3 Machine shutdown

In case of prolonged shutdown:

- Carefully clean the machine;
- replace the damaged parts.

10.3.1 Machine restart after a prolonged shutdown

Before restarting the machine after a prolonged shutdown:

- Let the machine idle for a while and make sure it runs correctly.

10.4 Interventions to be carried out by the builder operators

Please find below a list of the maintenance operations to be performed with a precise technical skill and therefore by the builder qualified operators.

The user must never carry out:

- any intervention on the machine's electric installation;
- any intervention on the machine mechanical parts;
- replace electrical components.



- For any adjustment, timing or replacement interventions that are not described in this handbook and that turn out to be necessary, please contact the technical staff of the machine reseller or builder.

Maintenance and servicing

10.5 Troubleshooting

Please find below a list of all the possible troubles that may occur on the machine:

	PROBLEMS	CAUSES	SOLUTIONS
1	THE PUMP IS NOT OPERATING		
	<p>2.1 Does not load water</p> <ul style="list-style-type: none"> - Water solenoid valve - No water <p>2.2 Not operating</p> <ul style="list-style-type: none"> - Pump - Water solenoid valve - No water - Pump - Boiler level 	<ul style="list-style-type: none"> - Check or replace - Open intercepting valve on installation - Check or replace - Check or replace - Open intercepting valve on installation - Check or replace - Check or replace 	
2	EXCESSIVE WATER LEVEL IN BOILER (Without intervention of feed pump)	Malfunctioning feed unit solenoid valve, due to non-hermetic seal unit.	After having closed the central tap, proceed with disassembling and cleaning the water intake valve.
3	EXCESSIVE WATER LEVEL IN BOILER (With continuous operation of feed pump)	Puncture in ball floater, or blocking of level control rod movement due to limescale deposit.	Replace the ball floater or remove any limescale deposits from the rod.
4	CONTINUOUS DECREASE IN STEAM PRESSURE IN BOILER	<ul style="list-style-type: none"> - Resistances interrupted by fusion of resistor or malfunctions from electrical power units - Lack of water to water line or intake tap closed - Water entry filter clogged - Feed pump not operating 	<ul style="list-style-type: none"> - Check or replace - Check - Check or replace - See point 1
5	THE IRON DOES NOT RELEASE STEAM	<ul style="list-style-type: none"> - Microswitch situated on handle - Solenoid valve situated at the beginning of the ironing unit rubber tubing 	<ul style="list-style-type: none"> - Check or replace - Check or replace
6	THE IRONING UNIT DRIPS:		
	<p>6.1 If the iron is cold</p> <ul style="list-style-type: none"> - Resistance not powered or blown - Malfunctioning thermostat <p>6.2 If the iron is hot</p> <p>Because of damaged level control, the boiler does not maintain optimum level, or is completely full of water</p>	<ul style="list-style-type: none"> - Check or replace - Check or replace - See points 2 and 3 	
7	A LARGE AMOUNT OF FOAM IS RELEASED BY THE BOILER	The water contains large quantities of foaming agents (eg. softened water provokes more foam than hard water)	Check

Machine dismantling

In compliance with EC laws, or with the regulations in force in the User's Country, the User must arrange for the demolition, disposal and elimination of the different materials composing the machine. In case the machine - or any of its component- must be scrapped, it is necessary to adopt all the safety measures in order to avoid any risks deriving from the dismantling of industrial machinery.

A particular care must be taken during the following phases:

- Disassembling of the machine from the working area
- Transport and handling of the machine
- Dismantling of the machine
- Separation of the different materials composing the machine.

To demolish and dismantle the machine, it is necessary to observe some important rules for the safeguard of one's health and of environment where we live.



Eliminate any residue of oil and grease from the machine; the lubricating substances must not be dispersed in the environment, but regenerated or treated by a Company specialised in the dismantling or such products.

In case the materials used for the productive process or the lubricants and the condensation waters are not eliminated according to the Laws and Regulations in force, there can be other additional risks such as:



1) Environmental pollution



2) Intoxication of the people in charge of the dismantling operations.

Refer to the National or Regional Laws relevant to the elimination of industrial solid wastes and toxic and noxious wastes, when carrying out the separating, recycling or dismantling operations of the materials:

Sheaths, flexible pipes and plastic or non metallic components, must be disassembled and dismantled separately;

Pneumatic and electric components such as valves, solenoid valves, pressure regulators, switches, transformers, etc., must be disassembled to be used again, in case they are still in good conditions or, if possible, overhauled and recycled.

The housing and in any case all the metallic parts of the machine must be disassembled and grouped according to each type of material. The various parts, thus obtained, can be demolished and melted, in order to recycle the material composing the original machine.



Noxious-toxic products must be eliminated in compliance with the National or Regional Laws in force, through special draining channels belonging to the Consortium specialised in the elimination of used oils.

Machine resonant level

NOISE EMISSION LEVEL IN db (A)

Ironing table: 3000

Work cycles	Time constant	Leq. (A)
- Suction	Slow	71,5
- Steam	Slow	71
- Hot air pistol (optional)	Slow	85

Note: The maximum noise level is reached during the use of the hot air pistol when emitting steam onto the garment being ironed. Given the short time of the operation, this value is considered acceptable. The ironing machine sampled individually does not present counterindications to continued usage during an entire working day, and satisfies the indications stipulated by Art. 46 of Legal Decree no. 277.

Main warnings

- 1) - *In the paragraphs relevant to the technical description, the location of the accessories and of the various machine parts is always given with reference to the operator's position.*
- 2) - *All the maintenance and adjustment activities described in this handbook must be carried out only after stopping the machine (main switch turned to OFF) and disconnecting the power cord if not clearly indicated that the operation must be carried out when the machine is on.*
- 3) - *All the adjustment and replacement activities that are not described in this handbook must be carried out by qualified and skilled operators to avoid any accident or damage to the machine and to the operator.*
- 4) - *The builder has provided the machine with the safety devices in order to protect the operator while performing his tasks. During the machine functioning, the safety devices must not be removed for any reason at all.
The operators, although skilled, must comply with the instructions and the warnings contained in this handbook.*
- 5) - *Since the machine is not perfectly balanced, use only a crane to lift it.*
- 6) - *Lift the machine only by means of steel cables or bands duly dimensioned according to the machine weight.*
- 7) - *Lift the machine by means of safety hooks.*
- 8) - *No foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance to avoid being intercepted by the machine.*
- 9) - *Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.*
- 10) - *An operator staying outside the handling area will have to follow all the handling activities and signal any possible obstacle the crane operator cannot see.*
- 11) - *In case of sea transport, it is advisable to protect the various machine parts by covering them with antirust lubricating agents and to add some bags containing hygroscopic salts to the packaging.*
- 12) - *Once positioned on the truck (or any transport mean) the machine must be braced by ropes, steel cables or wooden wedged duly dimensioned according to the machine weight.*
- 13) - *The machine must be installed in a place where the best hygrothermometrical conditions are observed for the safety of the operator in order to reduce the possibility of fatigue to the minimum and to allow the operator to work in the maximum safety conditions.*
- 14) - *The machine installation area will have to be well-ventilated and free from explosive gases.*
- 15) - *The temperature of the machine installation area will have to range between 10°C and 35°C.*
- 16) - *Upon receipt in the user's factory, the machine must be cleaned wearing special protective gloves.*

Main warnings

- 17) - *Only skilled operators can connect the machine to the external power sources.*
- 18) - *Check that the User's power supply voltage corresponds to the one indicated on the machine rating. On the contrary, contact the Builder.*
- 19) - *In compliance with the regulations in force, the User will have to provide the machine with safety devices, to avoid short-circuits, and overloads, in order to protect the machine power supply line.*
- 20) - *Only qualified engineers can connect the machine to the power sources, in compliance with the regulations in force.*
- 21) - *For any adjustment, timing or replacement interventions that are not described in this handbook, please contact the Dealer or Builder personnel.*
- 22) - *It is possible to make various adjustments to adapt the machine to the various production needs.*
- 23) - *To work, the machine requires only one operator. During its functioning no one except for the operator responsible for the machine use can stay near the machine or use it.*
- 24) - *In order to suddenly stop the machine at any time, turn the main switch to OFF.*
- 25) - *During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder on the machine in order to protect the operator while performing his tasks.*
- 26) - *Only skilled and qualified operators must use the machine.*
- 27) - *Never leave the machine unattended.*
- 28) - *A good maintenance is a determining factor for a longer life of the machine in the best functioning and performing conditions in order to assure the safety conditions provided by the builder.*
- 29) - *Before any maintenance or replacement activity, remember to:*
 - *stop the machine (MAIN SWITCH turned to OFF)*
 - *disconnect the power cord.*
- 30) - *Skilled operators, familiar with the technology applied to the machine must carry out any type of maintenance, replacement or servicing described in this handbook.*
- 31) - *The manufacturer's responsibility ceases in the event of interventions resulting in modifications, mishandling or any operations which prove detrimental to the machine's safety and stability, practiced after final testing and the issuing of the CE Declaration of Conformity.*

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Machine spare parts

The builder guarantees the safety and reliability features of the machine only if original spare parts are used. The builder accepts no responsibility for the damages that may derive from the use of non-original spare parts.

A code number indicated in the legends referring to the electric and pneumatic diagrams or indicated in the tables under the pictures included in the section "**Machine spare parts**" corresponds to each spare part.

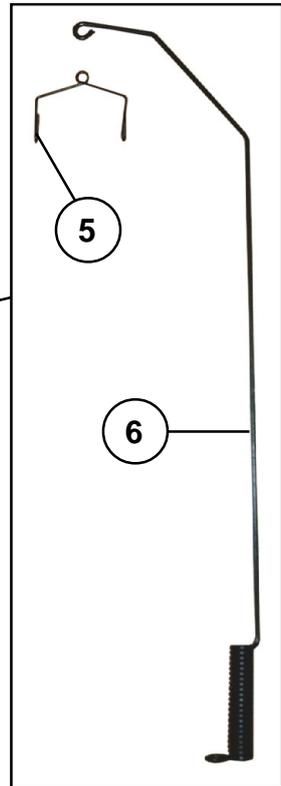
When ordering the machine spare parts, always remember to specify:

- the machine number
- the code number of the spare part
- the machine model.
- the voltage and frequency

Machine spare parts



4



5

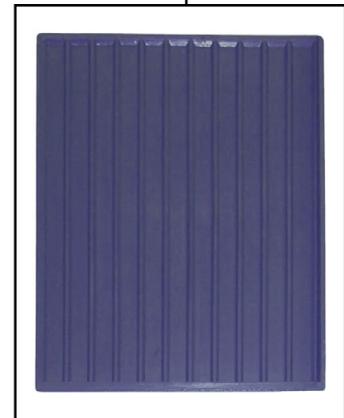


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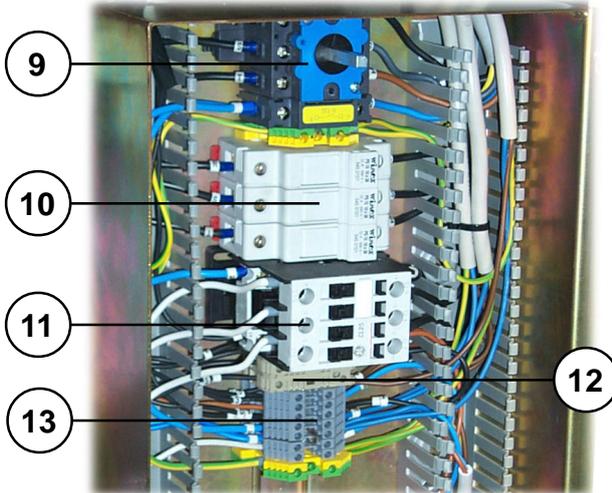
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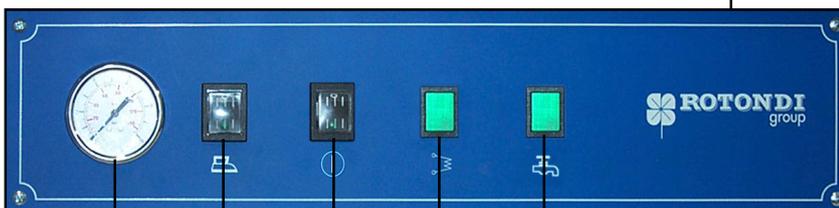
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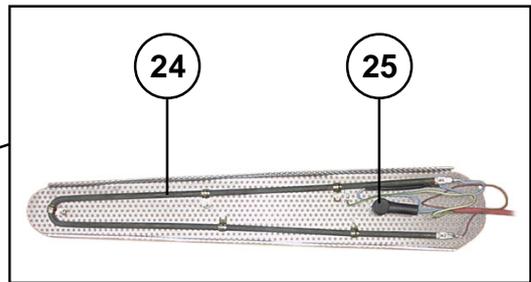
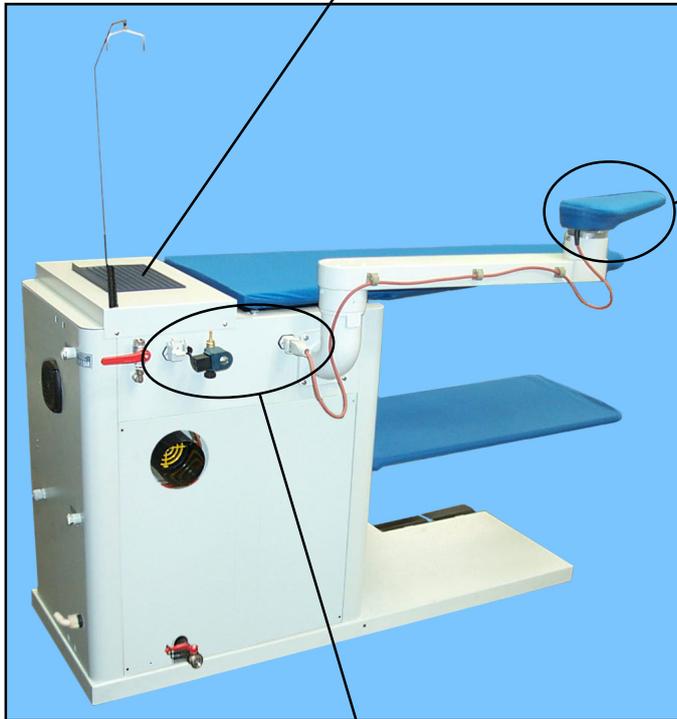
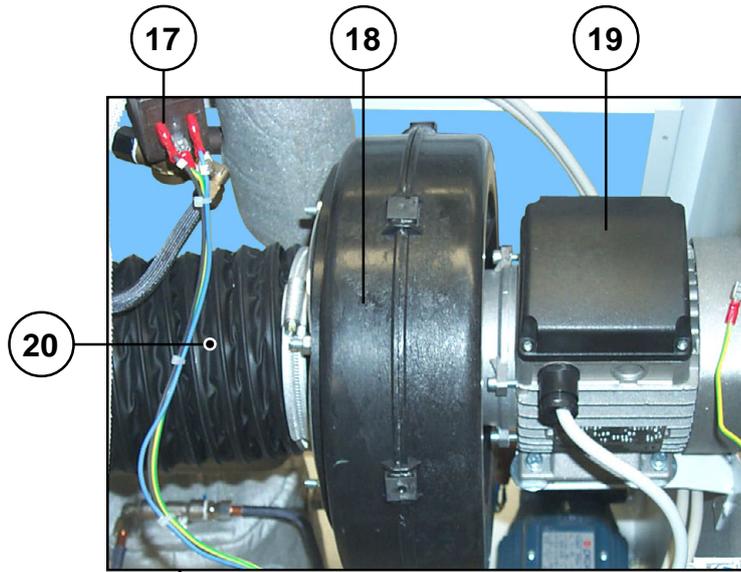
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Machine spare parts

POS.	DESCRIPTION	QTY.	CODE
1	PRONTOTOP ARM	1	1035870
2	COVER	1	13042009
	FOAM	1	13042018
	SILICON SP7	1	13042036
3	UNDERCOVER	1	13042017
4	IRONING TABLE INSULATION	1	13042005
5	CABLE-HOLDING ANTENNA HOOK	1	1020040
6	CABLE-HOLDING ANTENNA	1	1020030
7	SILICON IRON STAND	1	3002008
8	SPRING	1	1052840
9	MAIN SWITCH 40A B.P.	1	3009004
	MAIN SWITCH 25A B.P.	1	3009081
10	DIN GUIDE FUSE BOX 10x38	3	3008021
11	REMOTE SWITCH 25A	1	3013035
	REMOTE SWITCH 40A	1	3013044
12	DIN GUIDE FUSE BOX 5x20	1 ÷ 4	3005062
13	DIN GUIDE TERMINAL MMQ 2,5	1 ÷ 10	3005001
14	GAUGE	1	3025009
15	GREEN PILOT LIGHT SWITCH	-	3009020
16	LAMP HOLDER GREEN PILOT LIGHT	-	3009038

Machine spare parts



21

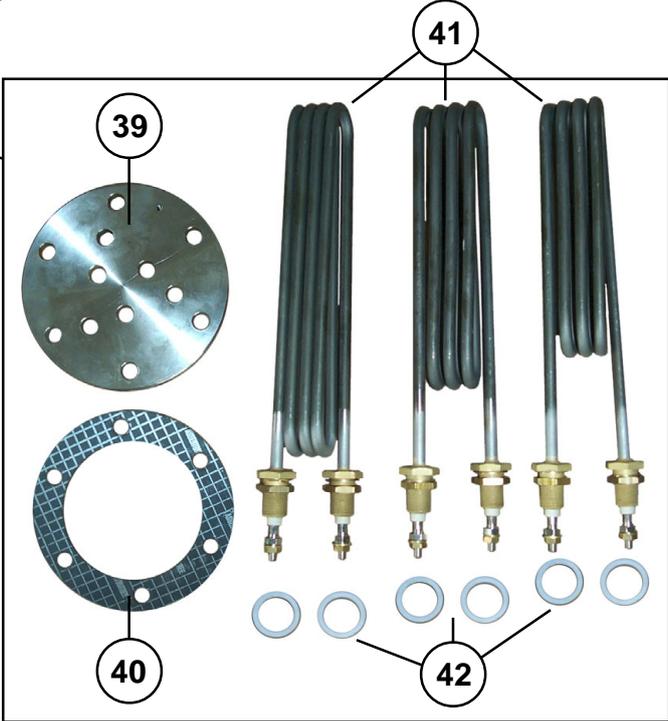
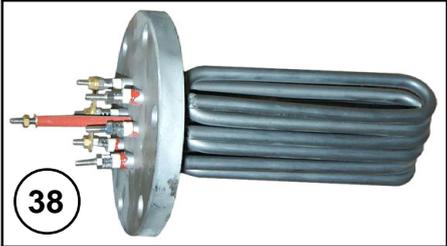
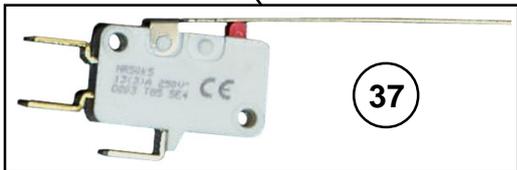
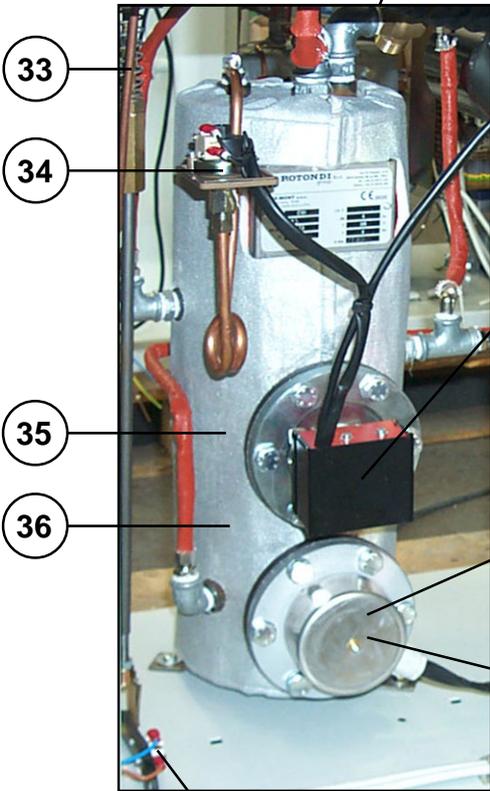
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Machine spare parts

POS.	DESCRIPTION	QTY.	CODE
17	IRONING TABLE SOLENOID VALVE Ø 5,5	1	3003058
18	FAN	1	3019034
19	SUCTION UNIT 230V - 50Hz	1	3019041
	SUCTION UNIT 220V - 60Hz	1	3019092
20	TUBE	mt. 0,5	3035056
21	IRONING UNIT SOCKET	1	3007001/3
22	IRONING UNIT SOLENOID VALVE	1	3003025
23	ARM SOCKET	1	3007001/3
24	ARM RESISTANCE	1	3017045
25	ARM THERMOSTAT	1	3012001

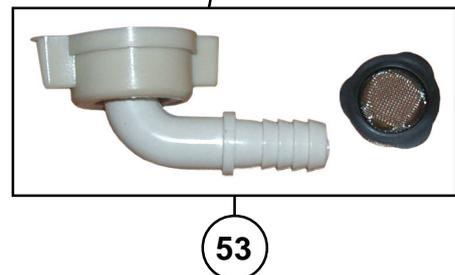
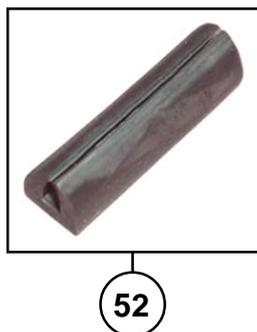
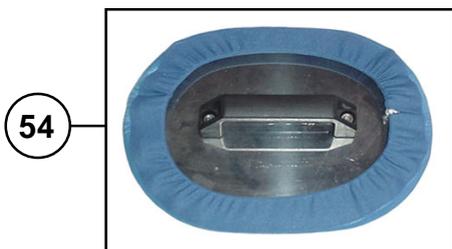
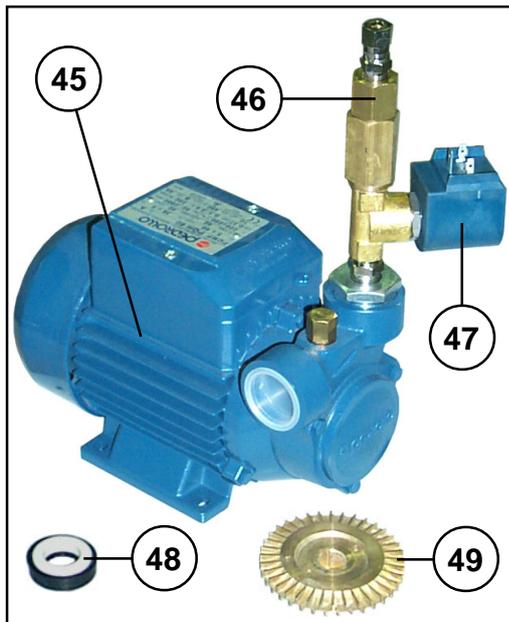
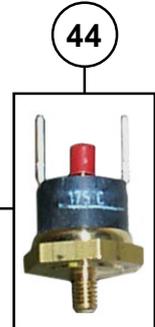
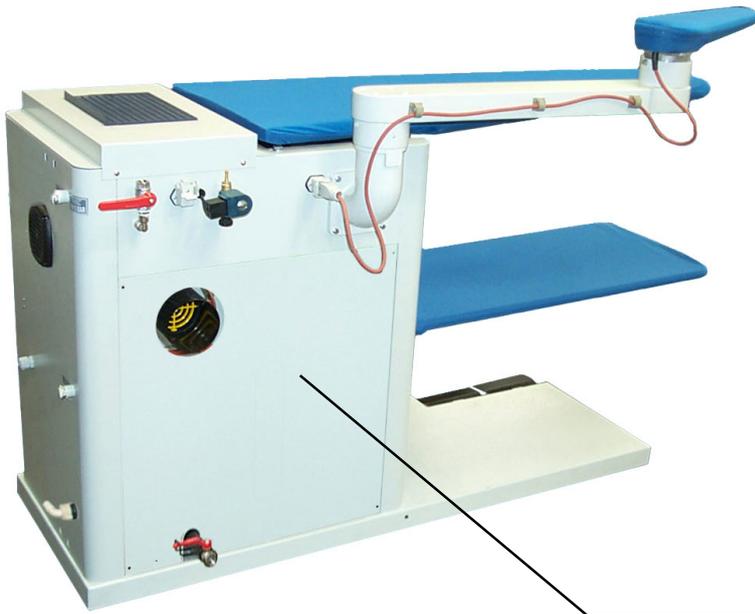
Machine spare parts



Machine spare parts

POS.	DESCRIPTION	QTY.	CODE
26	COMPLETE CONTROL LEVEL WITH MICROSWITCH	1	3010001
27	COMPLETE CONTROL LEVEL WITH MERCURY BULB	1	3010002
28	CONTROL MICROSWITCH	1	3010003
29	MERCURY BULB	1	3010008
30	STAINLESS STEEL SPHERE FLOATER	1	3010005
31	LEVEL FLANGE	1	1054740
32	GASKET	1	1040240
33	SUCTION PEDAL SPRING	1	1052360
34	PRESSURE SWITCH 4,5 BAR	1	3011003
35	BOILER 8 L.	1	110200002
	BOILER 16,6 L.	1	113000002
36	BOILER INSULATION	1	1056080
37	PEDAL MICRO	2	3014015
38	RESISTANCE 6500 W (MOD. 3008)	1	3017067
39	FLANGE - RESISTANCES MONOGROUP	1	1051900
	FLANGE - RESISTANCES DOUBLE GROUP	1	1051910
40	RESISTANCE GASKET	1	1051890
41	RESISTANCE 2000 W - 230 V	1	3017064
	RESISTANCE 2500 W - 230 V	1	3017035
	RESISTANCE 3000 W - 230 V	1	3017047
	RESISTANCE 4000 W - 230 V	1	3017016
	RESISTANCE 5000 W - 230 V	1	3017051
	RESISTANCE 6000 W - 230 V	1	3017007
42	TEFLON GASKET	6/12	3044001

Machine spare parts



Machine spare parts

POS.	DESCRIPTION	QTY.	CODE
43	SAFETY VALVE 1/2"	1	3018002
44	SAFETY THERMOSTAT	1	3012007
45	PUMP PQM 81 BS	1	3019001
46	WATER RETAINING VALVE 1/4"	1	3020008
47	SOLENOID VALVE	1	3003035
48	MECHCANICAL SEAL FOR PUMP	1	3019002
49	PUMP IMPELLER	1	3019003
50	STEAM GUN	1	3001004
51	AIR / STEAM GUN	1	3001005
52	NO-SUP BLOCK	1	1031780
53	RUBBER SUPPORT Ø3/4" + FILTER	1	3026074
54	HAND TRAY + LINING COVER	1	13042016