

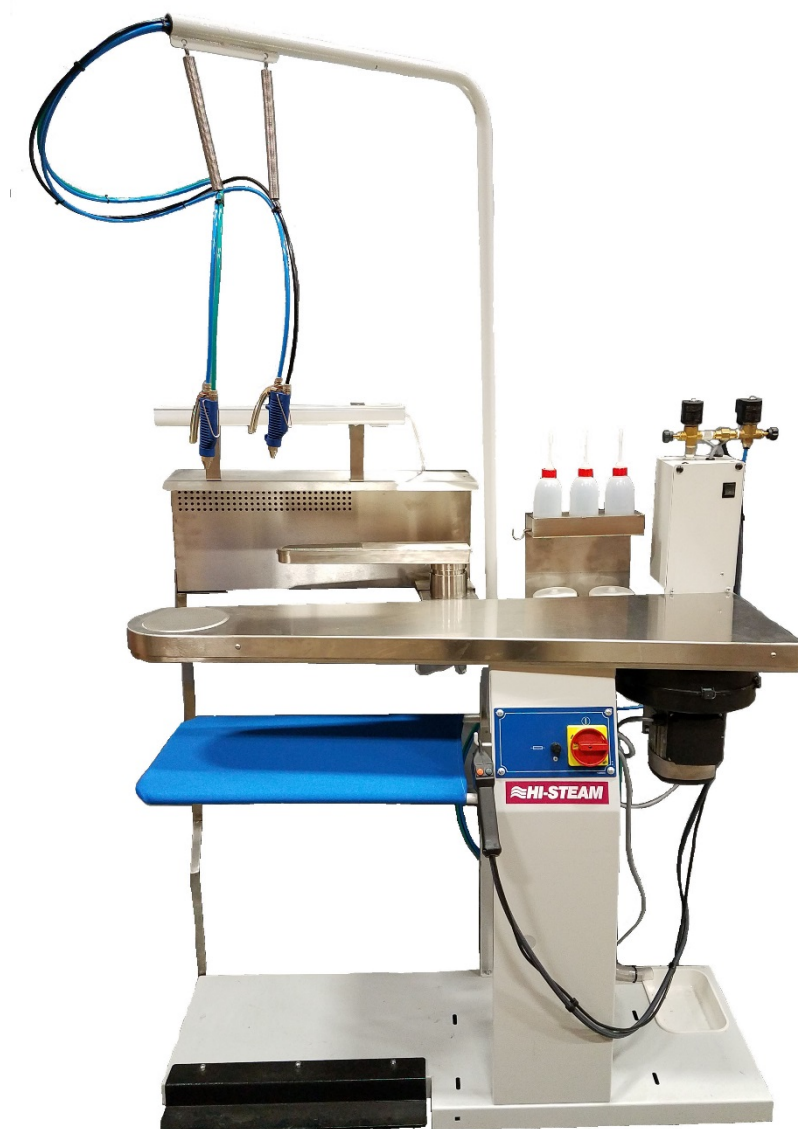


***European Finishing Equipment***

Ironing and finishing equipment

# Maintenance and Operating Manual

Edition 7  
Version 01/2017



## ES-2000AR

# Spotting Board

# STAIN REMOVAL TABLE

**MODEL:** \_\_\_\_\_

ES-2000AR

**SERIALNUMBER:** \_\_\_\_\_

**YEAR OF CONSTRUCTION:** \_\_\_\_\_

## Main warnings

**MAIN WARNINGS**

- IN THE PARAGRAPHS, RELEVANT TO THE TECHNICAL DESCRIPTION, THE LOCATION OF THE ACCESSORIES AND THE VARIOUS MACHINE PARTS IS ALWAYS GIVEN REGARDING 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 ANY CASE OF DOUBT.
- THE INSTALLATION MUST BE CARRIED OUT BY SKILLED OPERATORS, PER THE MANUFACTURER'S INSTRUCTIONS. MAKE SURE THAT THE RATING CORRESPONDS TO THE FACTORY POWER LINE BEFORE ENERGIZING THE MACHINE. THE MACHINE IS ELECTRICALLY SAFE ONLY WHEN PROPERLY GROUNDED. IN ANY CASE OF DOUBT, CONTACT A SKILLED OPERATOR 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 AUTHORIZED BY THE MANUFACTURER.
- 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 ON THE MACHINE FRONT AND SIDE PARTS.

**IN ADDITION:**

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

- 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-ENERGIZED.
- NEVER PULL THE POWER CABLE TO DISCONNECT THE PLUG FROM THE SOCKET.

## Main warnings

**FOR FIRE-PREVENTION PURPOSES:**

- KEEP ALL FLAMMABLE 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 MUST BE CAUTIOUS.**

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

**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.**

## 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
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
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 necessary, a (ampere rating of the appliance) ampere rated cord should be used. Cords rated for less amperage may overheat. Care should be taken to arrange the cord so that the cord cannot be pulled or tripped over

## SAVE THESE INSTRUCTIONS

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## General information about the operating handbook

## 1.1 Introduction

This manual has been created to help the user understand and learn to use the machine correctly. For this reason, it is recommended that the manual be read **completely and with care** before using the machine.

This manual instruction was written by the **Manufacturer** and is considered as **an integral part of the machine**.

Every machine is supplied with its own instruction manual. The user is responsible for the safekeeping this manual for the total period of the machine working life, and the manual must be kept in a safe place and destroyed only when the machine has been demolished.

**The Manufacturer** will not be held responsible for any modifications not included in this manual, or for any tampering with this manual, or with the machine, after the machine has been delivered to the customer. The manufacturer reserves all rights to the contents of this manual and all reproduction, whether total or partial is strictly prohibited under any form (printing, photocopying, microfilming, or other means) as well as computer processing or diffusion by electronic means to any physical or legal parties without authorization and registration.

## 1.2 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 the machine use per the project and technical features, for handling, 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. 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.

**SAVE THESE INSTRUCTIONS**

## Information for the User

- The manufacturer will not be held responsible for any damage or injury because 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 unauthorized changes or interventions (changes without written authorization 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.
- The general sales guarantee is not valid in the following cases:
  - bad maintenance;
  - problems because 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).

### 1.3 Request for additional copies of the manual

Eventual requests for other copies of this document must be ordered from **European Finishing Equipment Corp.** 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 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 maneuvers;
- 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.



## Machine description

Stain removal table with work surface and vacuum chamber in stainless steel.

**Series ES-2000AR**

Machine for removing stains equipped with two spraying guns featuring independent loading containers for diversified use. The positioning of the spray guns allows the operator greater facility during the stain removal phase. Silent, efficient, and reliable, this stain removal machine allows for environmentally safe stain removing. Machines for removing stains that can be ideally inserted in a modern ironing line. Carefully studied design specifications allow the operator to be consistently in the ideal position, thus reducing fatigue and increasing productivity. The dual function of the spray gun, steam-hot air, allows for the delicate elimination of stains, preventing the appearance of halos or shiny spots. Simple and compact characteristics allow for easy installation, even on pre-existing ironing lines.

Picture chap. 2

Series  
ES-2000AR

## Machine description

## 2.1 Safety devices

The following safety devices have been assembled on the machine, 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 A chapter 2.1

Series  
ES-2000AR



1



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

**2.2 Warning about the additional risks**

*The following warning plates are applied to the machine:*



Danger: electrical current



Danger of injury to hands and arms



Danger: tank under pressure



Danger: heated surfaces



It is forbidden to use water to put out fires



It is forbidden to touch live powered equipment



Obligation: check the status of all guards



Obligation: consult the manual

Picture chapter 2.2

**Warning**

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

## Technical features of the machine

**TECHNICAL SPECIFICATIONS FOR STAIN REMOVAL TABLE ES-2000AR**

| PARAMETER                    |                       | DESCRIPTION         |
|------------------------------|-----------------------|---------------------|
| Supply Voltage               | <b>V</b><br><b>Hz</b> | 120<br>60           |
| Vacuum unit power            | <b>kW</b>             | 0,37                |
| Steam inlet                  | <b>ø</b>              | 3/8"                |
| Air inlet                    | <b>ø</b>              | 1/4"                |
| Condensation discharge       | <b>ø</b>              | 3/8"                |
| Air discharge                | <b>ø</b>              | 100                 |
| Steam pressure               | <b>bar</b>            | 5                   |
| Air pressure                 | <b>bar</b>            | 8                   |
| Net weight                   | <b>lbs.</b>           | 130                 |
| Gross weight                 | <b>lbs.</b>           | 160                 |
| <b>MACHINE DIMENSIONS</b>    |                       |                     |
| Machine dimensions L X W X H | <b>in</b>             | 46.5" X 21.5" X 70" |
| Packing dimensions L X W X H | <b>in</b>             | 49" X 19" X 45"     |

## Allowed and forbidden use

Stain removal table with work surface and vacuum chamber in stainless steel.

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.

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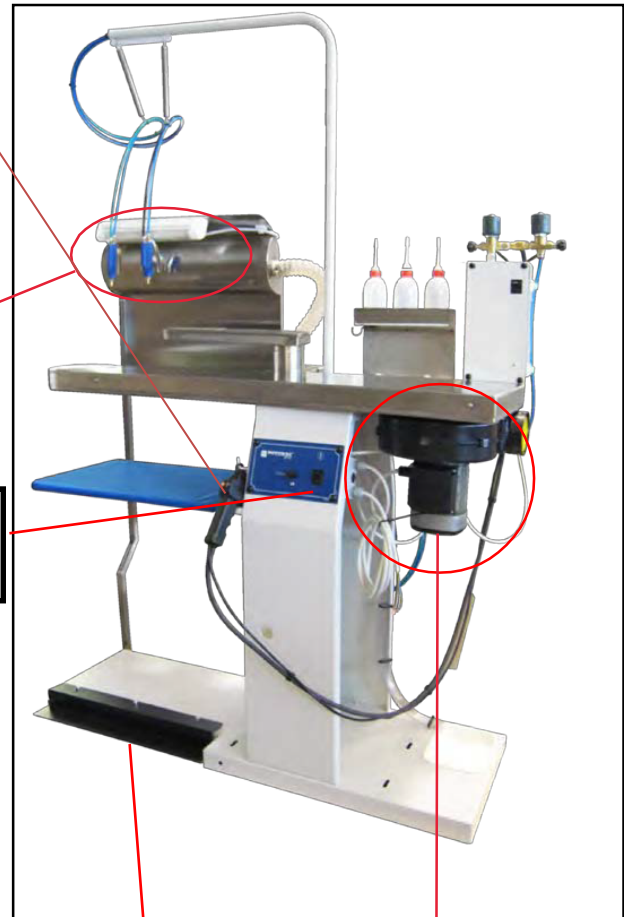
**4.1 Counter-indications and dangers deriving from a forbidden use**

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- 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.**
- **Don't spray steam and liquids on eyes and mouth.**

## Machine Installation

## 5.1 Front of machine with main reference points

Air - steam  
gunStain removal  
gunsMain  
SwitchSeries  
ES-2000ARVacuum  
control pedal

Vacuum unit

## Machine installation

**5.2 Machine base structure**

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

Picture chapter 5.2





## Assembly and preparation of the machine

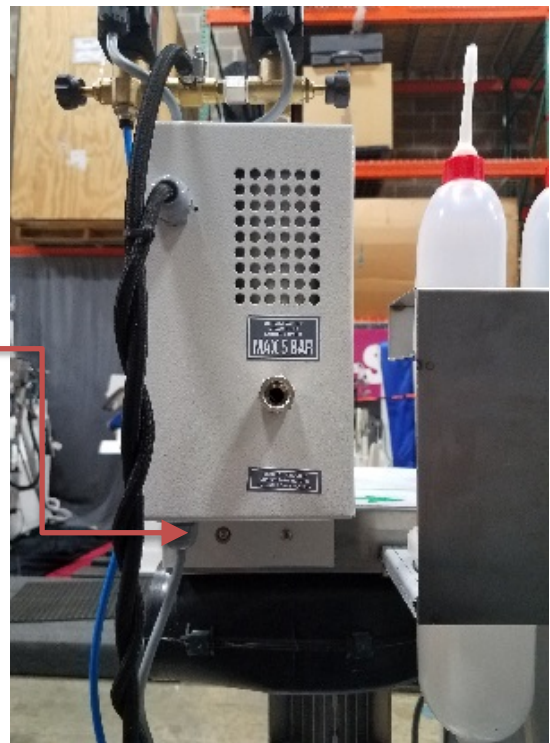
**6.1 Preparation of the machine for its use**

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.
- Install the machine in the desired place.

**6.2 Assembly of the machine accessories**

- Open box carefully by removing restraint straps and removing top of box
- Remove accessories and carefully remove pallet from under machine
- Install rubber clips on the corners of the base
- Remove hex screws from back of main surface to install air regulator mount
- Secure air regulator mount with hex screws
- Remove 3 #10 bolts to right of air regulator to install liquid container mount
- Bolt and secure solution bottle mount to back of main surface board

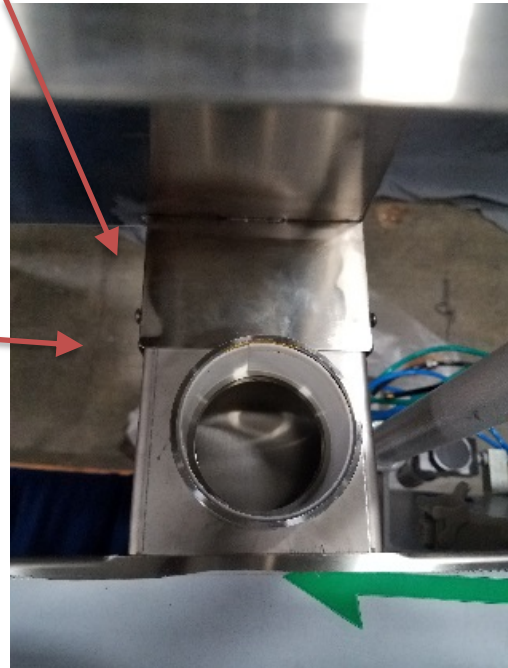




## Assembly and preparation of the machine

**6.2 Assembly of the machine accessories**

- Remove 2 hex screws from hood mounting assembly
- Remove 4 #8 bolts from base corner of machine
- Bolt and secure support bracket for hood to corner of base
- Slide hood onto sleeve buck mount and secure



- Remove light cover and bulb from light fixture
- Install light fixture on top of hood with small ends down as shown
- Install light bulb and cover back onto light fixture
- Plug in light bulb and lock



## Assembly and preparation of the machine

**6.2 Assembly of the machine accessories**

- Loosen tightening nuts on hose assembly mounting tube
- Feed air hoses through mounting tube
- Tighten bolts to secure air hose assembly



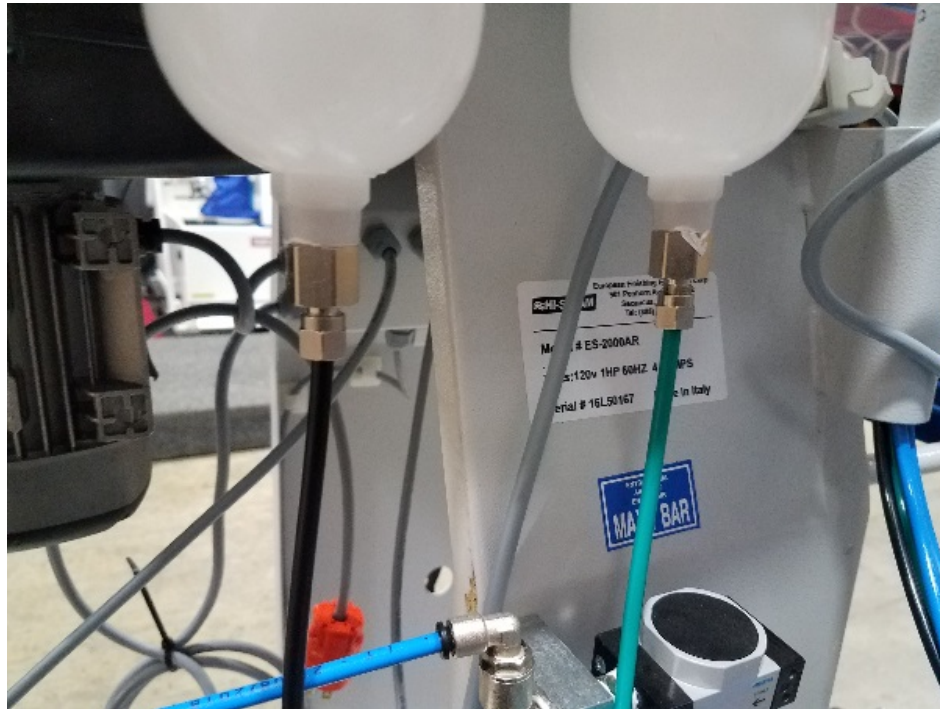
- Insert blue hoses into fittings as shown



## Assembly and preparation of the machine

**6.2 Assembly of the machine accessories**

- Insert green and black hoses into bottom of liquid containers, tighten with nuts to secure and prevent any leaks



- Slide on garment catch tray cover



- Install steam inlet and outlet...see section 6.5.1 Steam Connection
- Remove protective covering from main surface and sleeve buck before using

## 6.3 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.

### 6.3.1 Check of the damages caused to the machine during its transportation

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:

- 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.

## 6.4 Cleaning and lubrication of the machine

Carefully clean the machine upon its arrival at the User's factory and remove the dust and foreign 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

## Assembly and preparation of the machine

**6.5 Compressed air connection**

To carry out the compressed air connection it is necessary to connect the pneumatic power line to inlet located at the rear of the machine (with 1/4" filter). The pressure for the pneumatic system must be set at 100 psi.

**ES-2000AR**

Air Filter 1/4"

## Assembly and preparation of the machine

**6.5.1 Steam connection**

To carry out the steam connection it is necessary to connect the two 3/8" input/output tubes from the generator to the connections situated at the rear of the machine. The steam operating pressure must be set at 5bar.

Picture chapter 6.5.1



Series  
ES-2000AR



Steam inlet

Condensate  
return

## Assembly and preparation of the machine

**6.5.2 Air discharge**

For the air discharge, it is necessary to connect a  $\varnothing$  100mm fitting (see figure chap. 6.5.2). 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 6.5.2

Series  
ES-2000AR



Air exhaust

## Machine start

**7.1 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 7.1

Series  
ES-2000AR

**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

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**7.2 Main switch**

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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-energized.

Picture chapter 7.2



Main  
switch

Machine start

### 7.3 Command pedals

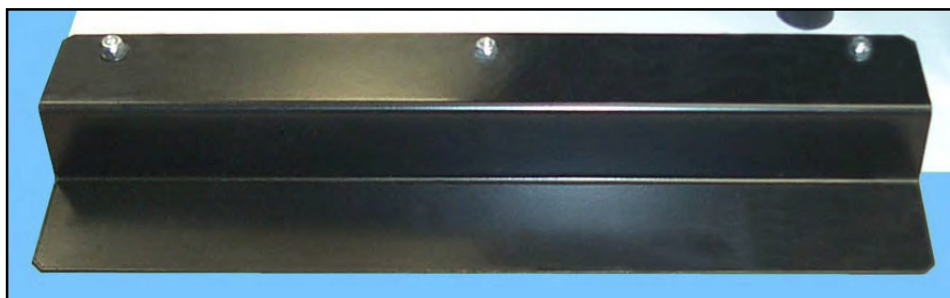
The following is a description of the command pedal situated at the lower front end of the

machine: **ES-2000AR / MACHINE WITH 1 PEDAL**

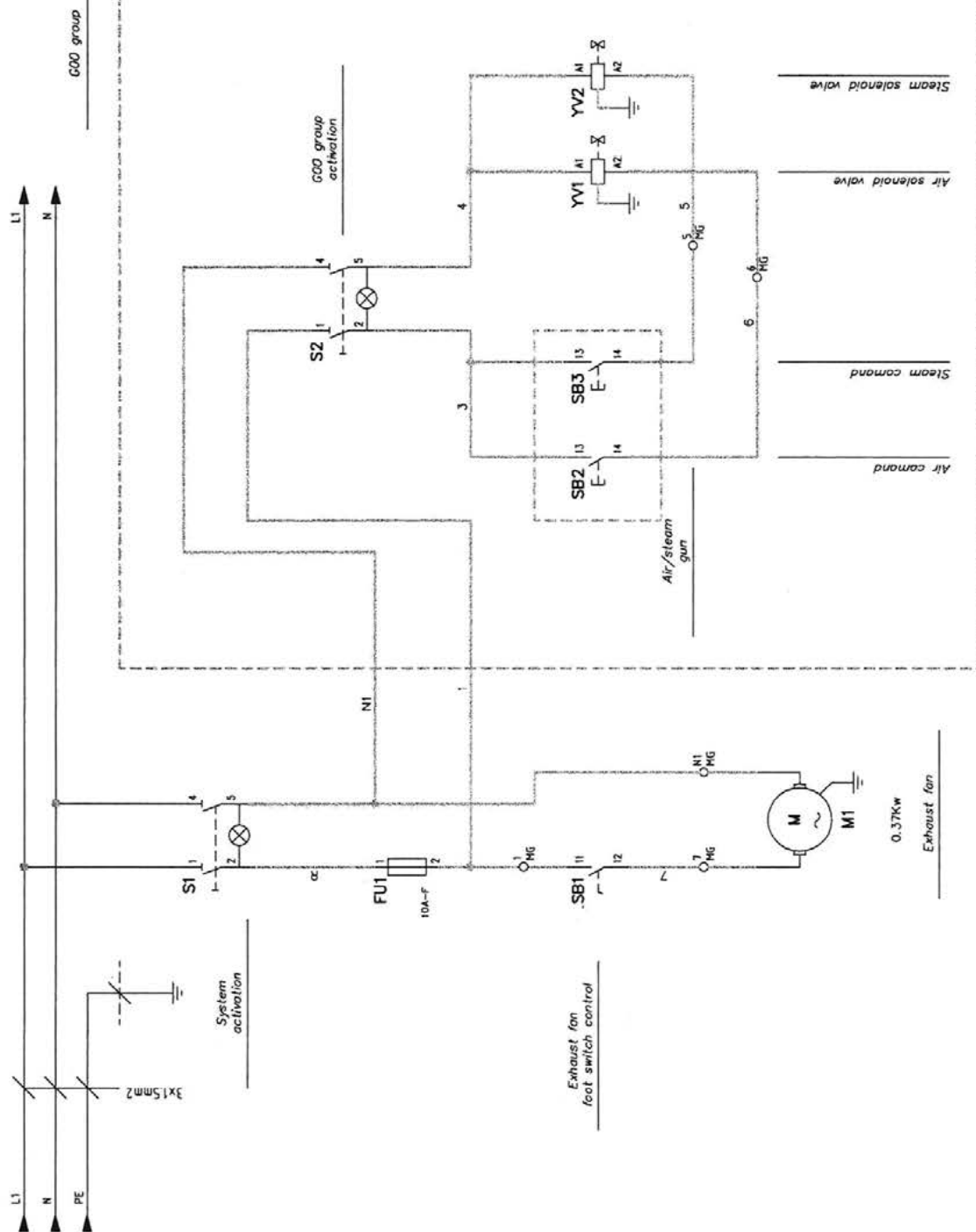
**REFERENCE****DESCRIPTION**

**VACUUM pedal:** press and hold down this pedal to activate the vacuum on the stain removal surface, from the arm and hood.

Picture A chapter 7.3



Vacuum  
pedal

25/37

## 8.1 Description of start-up sequence

After having made certain that all connections have been properly carried out, including the preventive control checks and settings described in the preceding chapters, start up the machine by proceeding as follows:

- 1) Turn the main switch to the ON position.
- 2) Press the machine's power switch, situated on the control panel at the front.
- 3) To operate the command pedals, refer to par. 7.3 "Command pedals."
- 4) To operate the dispenser guns, refer to par. 8.3 "Using the dispenser guns."
- 5) To operate the steam/air gun, refer to par. 8.4 "Using the steam/air stain removal gun."
- 6) Refer also to par. 8.5 "Norms for stain removal".

Having carried out these operations, stain removal can begin.

## 8.2 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.

## Machine use

### 8.3 Using the dispenser guns

This machine is equipped with two dispenser guns, situated at the front end of the machine. These guns are connected to two small loading containers containing the liquids for removing stains. Fill the containers by unscrewing the cover of each container. The machine is also equipped with 3 bottle containers for stain removal, to be used with the nozzle unit.

**WATER SOAP DISPENSER GUN (1):**

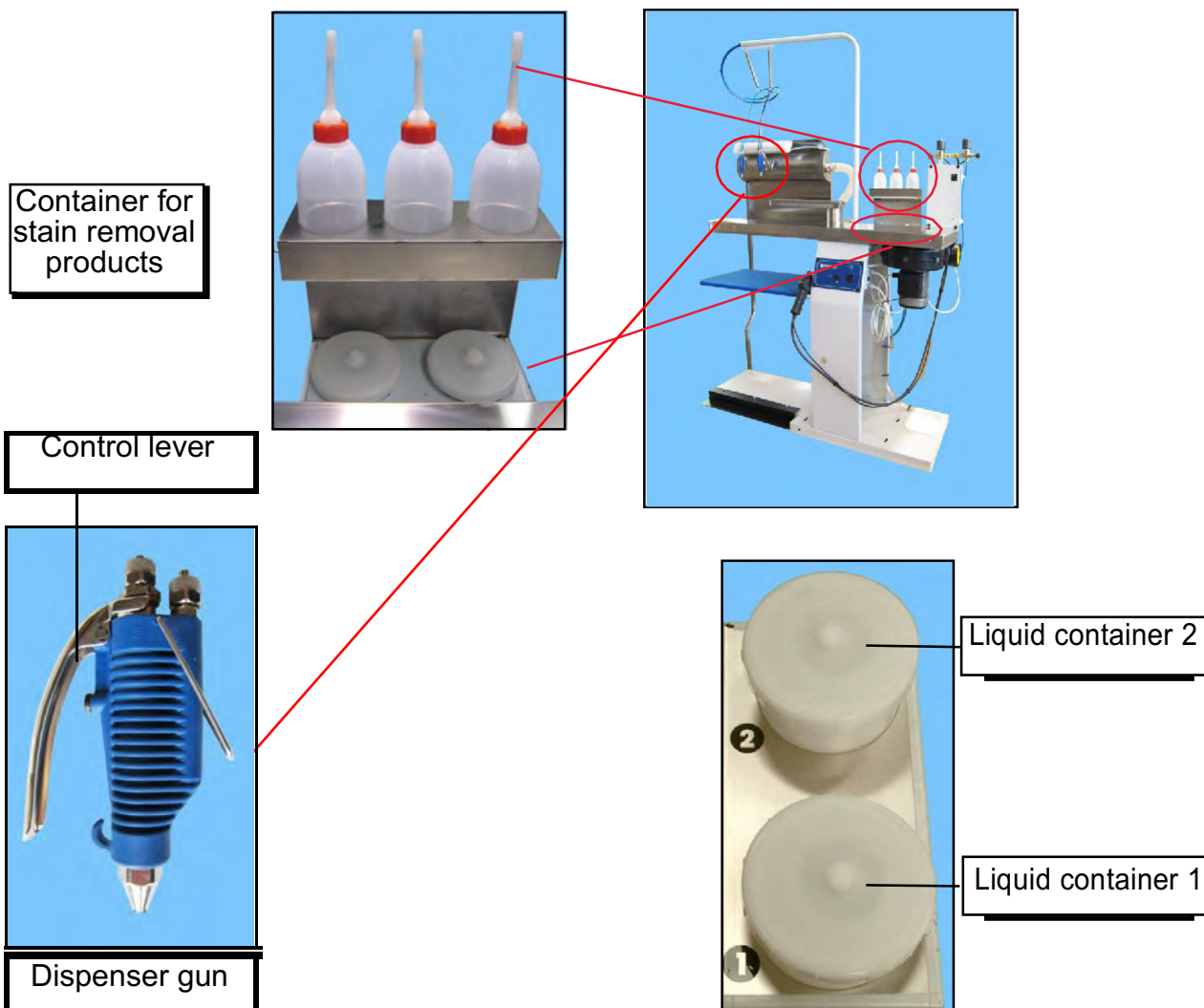
This dispenser gun is used to eliminate non-greasy stains. It is connected to the dispenser cup n°1 (see figure chap. 8.3); use the command lever to firstly dispense only compressed air, followed by sprayed water.

**SOLVENT DISPENSER GUN (2):**

This dispenser gun is used to eliminate greasy stains. It is connected to the dispenser cup n°2 (see figure chap. 8.3); use the command lever to dispense the solvent.

*\*Don't spray steam and liquids on eyes and mouth. \**

Picture chapter 8.3

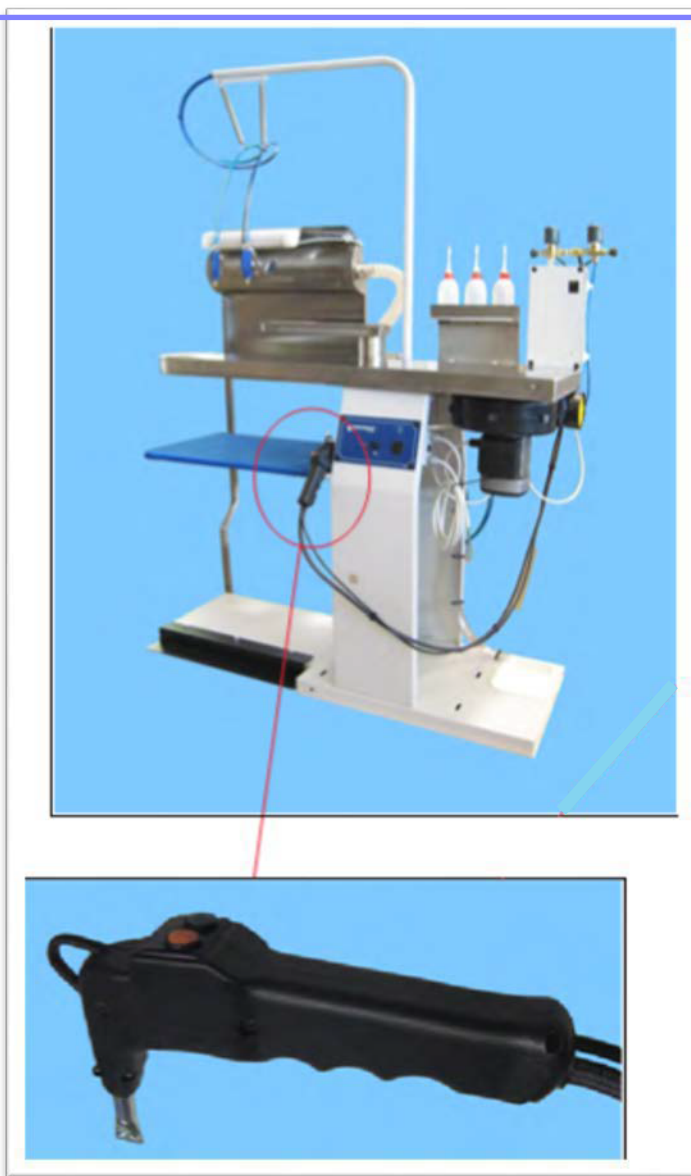


## Machine use

**8.4 Using the steam / air stain removal gun**

The steam / air gun is used for stain removal operations using heat. It dispenses compressed air or steam. In addition, it is equipped with two buttons instead of a mechanical lever.

Picture chapters 8.4 -8.5



Steam/Air Gun

## Machine use

**8.5 Norms for stain removal**

- 1) COLD STAIN REMOVAL:** the dispenser guns (see par. 8.3) are used for this type of stain removal operation. Cover the stain with sprayed liquid (water) from approx. 5 mm. Spray over the stain using a rotary movement, starting from the sides, and converging towards the center of the stain. Special stains are treated with specific stain removing products (specific containers) and rinsed with water. To facilitate the drying process, it is recommended to use the least possible quantity of solvent.
- 2) HOT STAIN REMOVAL:** this type of stain removal operation requires specific knowledge on the effects of steam on the fabric. This operation is to be carried out by specialized personnel only, and only in cases in which the cold stain removal system proves to be inefficient. In these cases, the steam / air gun is employed (see par.8.4).
- 3) DRYING THE CLEANED AREA:** once the stain has been removed, proceed immediately with drying it, dispensing compressed air using the steam/air gun while maintaining the nozzle in contact with the fabric to be dried. Move the gun over the wet area from one end to the other.
- 4) VACUUM:** the vacuum over the stain removal area, in addition to eliminating the bits of material (water, solvent specific stain removal products, disintegrated components from the stain, etc.), also serves to anchor and lay out the fabric to be treated over the machine's work surface. The vacuum is controlled by the control pedal, situated at the lower front end of the machine (see par. 7.3).

## Maintenance and servicing



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

### 9.1 Precautions for the machine maintenance

Before any maintenance activity, it is necessary to:

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

### 9.2 Maintenance interventions

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

## ROUTINE MAINTENANCE TABLE

| OPERATION      | MACHINE PART   | MAINTENANCE INTERVAL |
|----------------|----------------|----------------------|
| Visual Control | Machinery      | Every Week           |
|                | Electric Parts | Every Week           |
| Cleaning       | Internal       | Daily                |
|                | General        | Weekly               |
| Lubrication    | Moving Parts   | Daily                |



## Maintenance and servicing

### 9.3 Trouble shooting

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

| PROBLEMS |   | CAUSES                           | SOLUTIONS                  |
|----------|---|----------------------------------|----------------------------|
| 1        | NO VACUUM   | - Microswitch malfunction        | - Check pedal Microswitch  |
|          |   |                                  |                            |
|          |   | - Motor malfunction              | - Check the motor          |
| 2        | THE STAIN REMOVAL GUN DOES NOT DISPENSE STAIN REMOVING LIQUID | - Dispensing cup 1 or 2 empty    | - Fill the dispensing cups |
|          |   |                                  |                            |
|          |   | - Stain Removal gun filter dirty | - Clean the filter         |
|          |   |                                  |                            |
|          |   | - Spray gun malfunction          | - Replace the spray gun    |

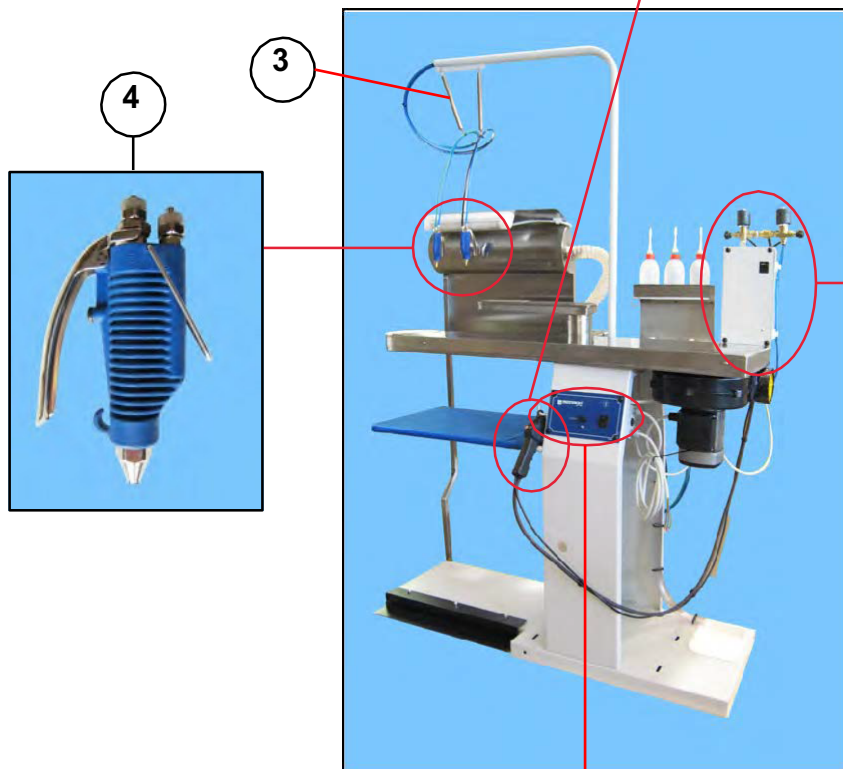
Machine spare parts ES-2000AR



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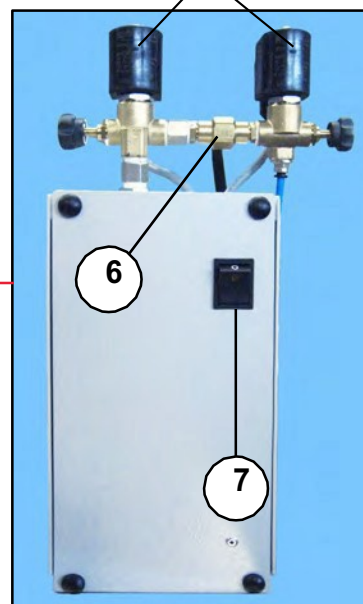
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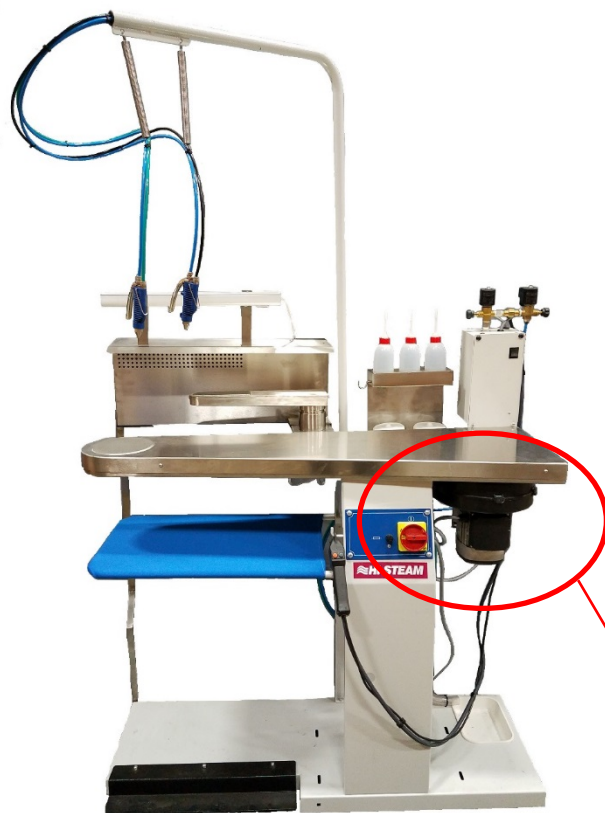


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## Machine spare parts ES-2000AR

| POS. | DESCRIPTION                              | QTY | CODE                   |
|------|--|-----|------------------------|
| 1    | CONTAINER FOR STAIN REMOVAL PRODUCTS     | 3   | 3043065                |
| 2    | AIR / STEAM GUN                          | 1   | 3001005                |
| 3    | STAINLESS STEEL SPRING                   | 2   | 1070280                |
| 4    | SPOTTING GUN                             | 2   | 3001011                |
| 5    | ADJUSTABLE STEAM SOLENOID VALVE 110/1/60 | 2   | 3003125                |
| 6    | CHECK VALVE                              | 1   | 3024031                |
| 7    | SWITCH                                   | 1   | 3009020                |
| 8    | FUSE 4A                                  | 1   | 3008022                |
| 9    | FUSE HOLDER                              | 1   | 3008003                |
| 10   | SWITCH                                   | 1   | 3009020                |
| 11   | MAIN SWITCH - 400 (110V)                 | 1   | 3009028/9              |
| 12   | AIR FILTER 1/4"                          | 1   | 3124160                |
| 13   | VACUUM MOTOR WITH HOUSING                | 1   | 3019009/<br>MOTOR3000A |

## Machine spare parts ES-2000AR



## Machine spare parts ES-2000AR



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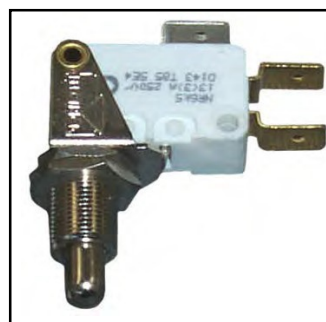
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## Machine spare parts ES-2000AR

|    |                                    |   |          |
|----|------------------------------------|---|----------|
| 14 | STAIN REMOVAL NET<br>(MAIN BUCK)   | 1 | 1175828  |
| 15 | STAIN REMOVAL NET<br>(SLEEVE BUCK) | 1 | 1051362  |
| 16 | STAIN REMOVAL FORM<br>SLEEVE BUCK  | 1 | RA7      |
| 17 | VACUUM PEDAL                       | 1 | N/A      |
| 18 | SPRING                             | 1 | 1030150  |
| 19 | PEDAL MICROSWITCH                  | 1 | PND-2052 |



## LIMITED WARRANTY for

### SPOTTING BOARDS

Hi-Steam Spotting Boards are warranted by European Finishing Equipment Corp. ("European Finishing") only to the original purchaser against defects in workmanship and material, for a period of (a) 12 months for motors, and (b) 90 days for all other parts, in either case from the date of original purchase, with the following limitations:

1. This warranty is contingent upon compliance with the installation, operation and maintenance instructions contained in the equipment's instruction manual. The equipment is intended solely for industrial use.
2. This warranty is limited to repair or replacement of defective parts, and does not cover the cost of labor to remove, repair or replace the part, nor any shipping cost or other incidental costs.
3. This warranty is void for parts that are, in the sole judgment of European Finishing:
  - damaged from mishandling, faulty installation or adjustments, improper use or maintenance, corrosion, accident, negligence, not operating within the specifications provided, failure to follow instructions, use of improper voltage, etc.
  - damaged by causes beyond the control of European Finishing, such as fire, flood, earthquake, lightning, power surge, damage in shipping, etc.
  - altered or repaired in any way that changes the original design, construction, specifications, or performance, or by replacing parts with unauthorized components.
  - expendable in the normal course of operation.
  - for those models that utilize compressed air, damage by failure to use an air system providing clean, dry air (such as a refrigerated air dryer).

The warranty period on each repaired or replacement part in fulfillment of this warranty shall be for the unexpired portion of the original warranty.

Defective parts covered by this warranty must be returned, freight prepaid, to European Finishing, for repair or for replacement with new or refurbished parts. Repair or replacement will be done at European Finishing's discretion.

Replacement or repair of parts is the sole and exclusive remedy available under this warranty. EXCEPT AS STATED IN THIS LIMITED WARRANTY, THERE IS NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

In no event, shall European Finishing be liable for any direct, indirect, consequential, or incidental damages arising out of the use of or inability to use the equipment or parts, even if it could foresee or has been advised of the possibility of such damage.

For warranty service, please contact:

European Finishing Equipment Corp.  
1 County Road, Unit A-10  
Secaucus, N.J. 07094  
(888) 460-9292