


# Majestic Combi GHIDINI

*User and  
Maintenance  
Manual*



**ENGLISH**



<i>Manufacturer</i>	GHIDINI BENVENUTO s.r.l.
<i>Product</i>	Form finisher <b>Majestic Combi</b>
<i>Year</i>	2007
<i>Certification</i>	

## CONTENTS

1	INTRODUCTION	10	HAZARDOUS USE
2	GENERAL DESCRIPTION	11	OVERALL DIMENSIONS AND DRAWINGS
3	MACHINE IDENTIFICATION	12	MAINTENANCE PROCEDURES
4	TECHNICAL FEATURES	13	DISPOSAL
5	MACHINE COMPONENTS	14	HOW TO ORDER SPARE PARTS
6	MACHINE UNPACKING AND INSTALLATION	15	HANDLING AND TRANSPORT
7	INSTRUCTIONS FOR USE	16	WARRANTY
8	TROUBLESHOOTING AND SOLVING	17	CONFORMITY DECLARATION
9	PRECAUTIONS		

## 1 INTRODUCTION

The present user's and maintenance manual refers to the form finisher "Majestic Combi".

It is possible to receive the latest release from our Technical Commercial Department or by visiting our website [www.ghidini-gb.it](http://www.ghidini-gb.it). The present user's and maintenance manual contains important information for the operator's health safeguard and safety.

This manual has to be read and kept carefully, in order to be always at the operator's disposal in case of need.

Ghidini s.r.l. cannot be held liable for any damage to things or injury to persons caused by improper use of the machine in contrast with these instructions.

Any possible modifications effected on the components of the machine or its different use without prior written authorization by Ghidini s.r.l., relieve the latter of injury to persons and / or damages to things, voiding any warranty bindings, as well.

## 2 GENERAL DESCRIPTION

The form finisher Majestic Combi is the ideal machine for the ironing of any kind of shirts, jackets, blousons and overalls, requiring for its operation an external power, steam, and compressed air supply.

The machine features a built-in fan and an electronic circuit card for the programming of 19 different ironing cycles.

Thanks to the operation controlled by pedals situated on the front side of the machine, the form finisher is very user-friendly and efficient. It features furthermore an air superheater inside the dummy for a reduced drying time.

On the side panel it is possible to regulate the pressure of the sleeve fastening pliers.

## 3 MACHINE IDENTIFICATION

A tag placed on one side of the machine indicates type, serial number, year of construction, the voltage, and feeding pressures of the machine.

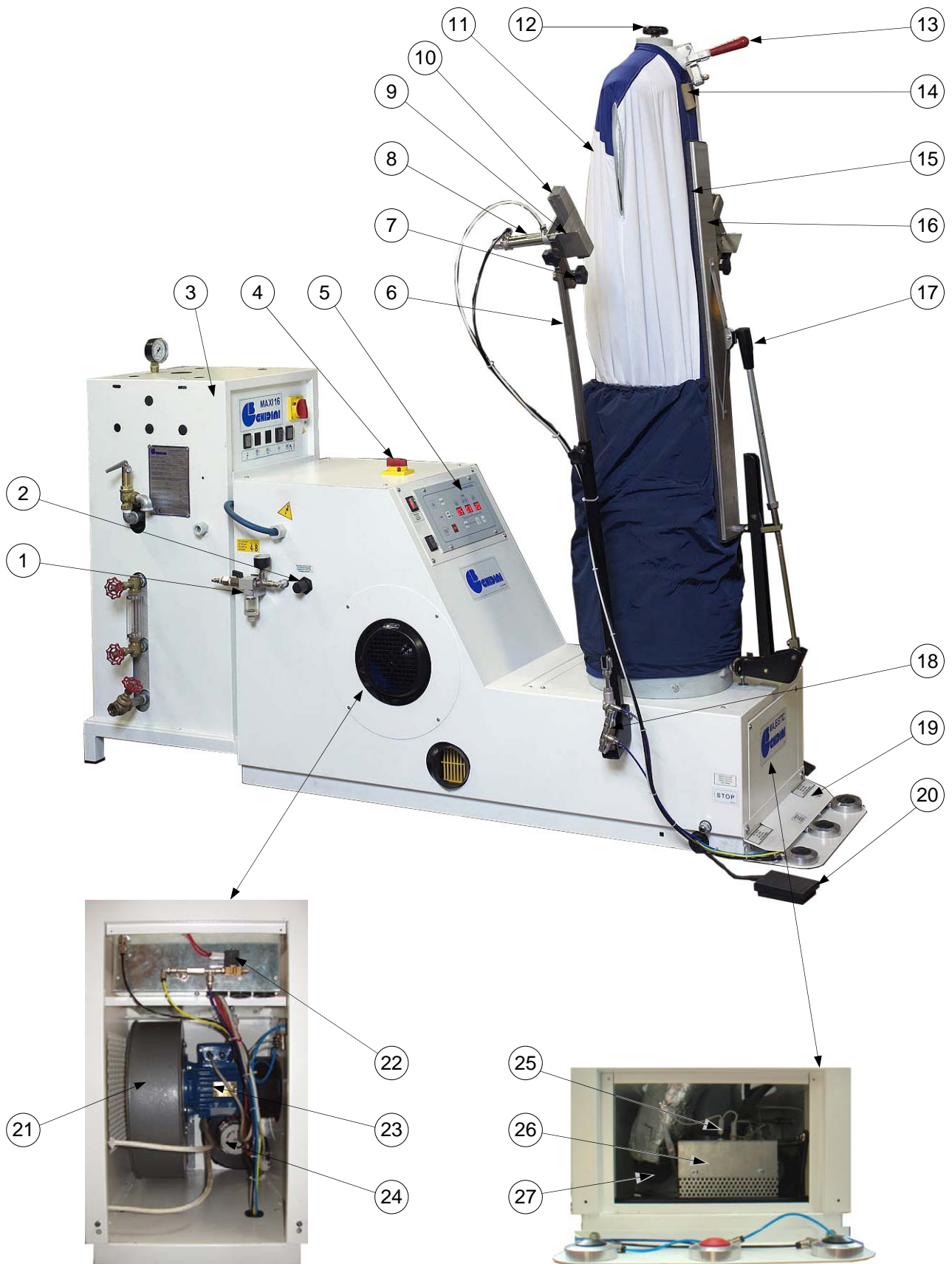
## 4 TECHNICAL FEATURES

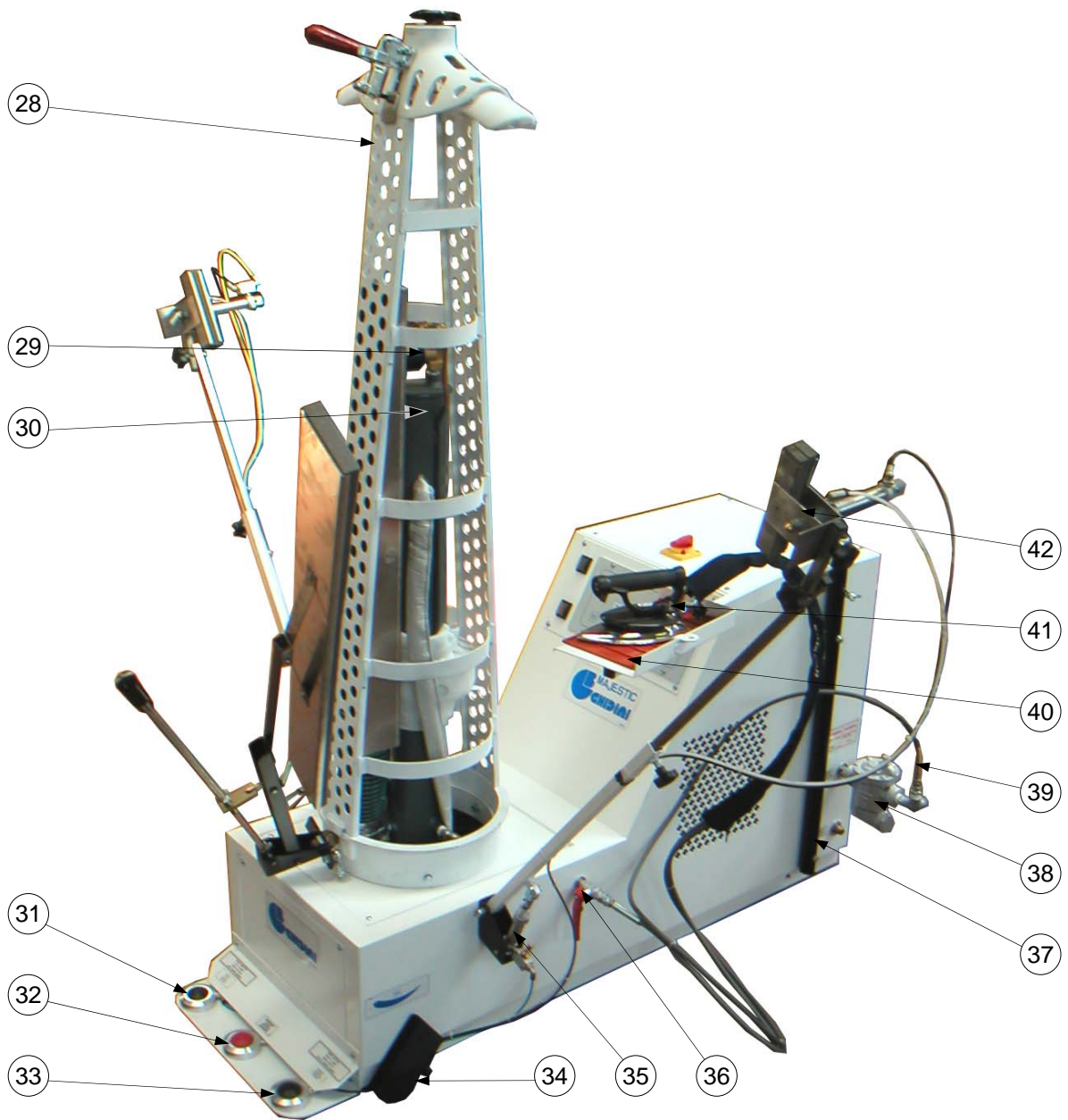
TECHNICAL FEATURES	
Power supply	400V – 3Ph – 50 Hz
Air superheater	2 Kw
Fan motor power	3 Hp
Air working pressure	6 bar
Air consumption	10 NI/min.
Steam supply	min. 3 bar - max. 6 bar
Steam working pressure	4 ÷ 5 bar
Steam consumption	10 ÷ 15 Kg/h
Sound intensity level	< 70 dB(A)
Working temperature	+5 ÷ +80 °C
Working humidity	90 % max.
Storing temperature	-20 ÷ +50 °C
Net dimension	1760 x 2000 x 1780 mm.
Net weight	190 Kg
Overall dimensions (packaging included)	1740 x 720 x 2000 mm
Gross weight (packaging included)	240 Kg

**WARNING:** The machine must not be supplied with different voltages than those indicated on the table.

## 5 MACHINE COMPONENTS

The machine features the following main components:





Pos.	CODE	DESCRIPTION	Pos.	CODE	DESCRIPTION
1	35B019	Separating filter for compressed air	23	42C017	Fan motor
2	35B003	Pressure reducer for pliers	24	42D006	Vacuum unit
3	G07518	Steam generator Maxi 16 (option)	25	45B002	Double thermostat
4	43A038	Main switch		45B004	
5	25L041	Control board	26	213005	Air superheater
6	173113	Sleeve regulating rod	27	06D022	Vacuum hose
7	53A012	Regulating knob	28	170007	Dummy
8	35C013	Pneumatic cylinder for pliers	29	39A009	Steam solenoid valve
9	173000	Left-hand pliers	30	201083	Boiler condensation separator tank
10	234422	Sponges for sleeve pliers	31	38A048	Pedal for left-hand pliers and cycle start
11	273229	Dummy cover	32	38A052	Vacuum pedal
12	52A001	Regulating knob for shoulder width	33	38A048	Pedal for right-hand pliers and release
13	173116	Collar fastener	34	172016	Air regulating pedal
14	274227	Collar sponge	35	35C016	Pneumatic cylinder for right-hand rod
15	234026	Panel sponge	36	37A010	Steam exhaust valve for iron (option)
16	172013	Front panel with spring	37	172005	Complete iron support (option)
	173033			173112	
17	183264	Fastening rod for front panel	38	38F004	Steam trap (option)
18	35C012	Pneumatic cylinder for left-hand rod	39	07A014	Condensation exhaust hose (option)
19	173111	Pedal cover		07A015	
20	43B009	STOP-Pedal	40	25A001	Silicone iron rest (option)
21	42C017	Blowing fan	41	Z01B04	Steam iron mod. V (option)
22	39B042	Solenoid valve	42	173000	Right-hand pliers



## 6 MACHINE UNPACKING AND INSTALLATION

---

**WARNING:** The unit must be installed, opened and repaired by fully qualified technicians only.

### 6.1 UNPACKING

Find the most suitable place where to put the machine, and then remove the packaging. Make sure that the machine has not been damaged during the transport and the storage.

The packaging material does not require any special precautions for its disposal, for it is not dangerous or polluting at all. Please refer to the local regulations for its disposal.

### 6.2 MACHINE INSTALLATION

The machine has not to be anchored to the floor, except for the installation on means of transport. Use the specially designed holes on the bedplate for its correct fixing.

For a correct use and operation, as well as for an easy maintenance, leave enough free space around the machine.

Do not place the machine in dangerous and/or explosive/inflammable areas.

### 6.3 ELECTRICAL WIRING

The electrical wiring must be carried out as indicated on the drawing. Check that the supply voltage and the frequency correspond to those indicated on the rating plate.

The dimensions of the supply cable must suit the machine absorption and comply with the current regulations.

It is advisable to install a switch with fuses or a circuit breaker on the line. Put the cable into the cable holder, and then tighten. Connect the cable to the feeder line terminals on the control panel, as shown on the drawing of the present manual.

### 6.4 COMPRESSED AIR CONNECTION

The connection to the central compressed air supply must be carried out by means of a G 1/4" threading placed on the side of the machine. Use a pipe having an internal Ø of at least 6 mm and with a network pressure of maximum 8 bar (otherwise mount a pressure reducer). Install an on-off valve allowing the disconnection of the supply.

The machine features a filter, and a condensation separator (low-boy) with an exhaust valve placed underneath the bucket. The valve discharges the condensation automatically in case of lack of pressure, please be reminded therefore to shut off the air supply at the end of your work. In case of high work pace, check periodically the condensation level inside the filter bucket. If necessary, carry out the discharge manually, by opening the valve placed underneath the same.

### 6.5 STEAM SUPPLY CONNECTION

Connect the machine to a central steam supply as follows:

Connect a pipe with a G 3/8" threading to the top part of the steam outlet of the central unit and place an on-off-valve close to the machine. Afterwards, connect a pipe with an internal diameter of at least 10 mm to the steam intake (Ø3/8" Gas) of the machine. For the condensation return, provide a pipe with exactly the same features of the steam pipe, and install a condensation trap with filter close to the machine, followed by an on-off valve and a check valve. For the connection to the check valve, use a pipe with an internal diameter of at least 10 mm. The steam network pressure must be of max. 5 bar.

Do not bend the pipes at right angles, but at least with a 50 mm radius. Make sure that the pipes have an even incline, especially the one for the condensation return.

Do not use traps, fittings or gate valves with a smaller diameter than the pipe, itself. The piping must not exceed 2.5 meters. The hole of the condensation return has to be at least 150 mm higher than the water level inside the boiler.

**WARNING:** After having carried out all the connections, make sure that pipes and cables are protected against any possible hits and are suitably fixed and isolated.

## 7 INSTRUCTIONS FOR USE

---

### 7.1 PUTTING INTO OPERATION

- The whole unit can be used, opened and repaired by qualified technicians only
- It is forbidden to use the machine if flooded by liquids or in particularly aggressive or explosive/inflammable places.
- Do not ignore the dangers for the operator's health and follow the hygienic and safety regulations.
- Make sure to use suitable pipes for the corresponding working pressures.
- Check that the electrical wiring is carried out correctly according to the current regulations, and that the fuse blocks are closed and complete of fuses.

## 7.2 PRELIMINARY STEPS TO CARRY OUT BEFORE EACH STARTING

- Check if the machine is intact.
- Check if the machine is connected to the central steam and compressed air supply.
- Once the machine is connected and turned on, you just have to set the working parameters (see relevant paragraph). Make always sure the compressed air and steam cocks are open before you start working.
- If necessary, switch on the heating element of the superheater.
- Wait a few minutes until the machine has reached the required working temperature.
- Check, if the steam circuit is running regularly, by pressing and releasing several times the steam button.
- Some condensation may come out at the beginning. Pressing the steam button repeatedly will facilitate a quicker steam discharge.
- **Pay attention to the danger of burns during these operations.**
- If the machine is new or has not been used for a long time, it is advisable to carry out some ironing cycles without any garment.

## 7.3 CYCLE PROGRAMMING

Upon switching on, the program version will appear, by flashing on the left-hand display for about 4 seconds  
The front panel features 8 push buttons:



### Manual steam:

If pressed, you activate the steam control.



### Manual blowing:

If pressed, the machines changes over to the blowing control (FLIP/FLOP).  
The function is displayed by the relevant LED.



### Start:

This button starts the working cycle.



### Stop:

If pressed, you interrupt the working cycle



### Manual / Automatic:

If pressed, you interchange the two functions, displayed by the relevant LEDs.

- The manual function activates the working cycle only by pressing the START button on the front panel.
- The automatic working cycle can be activated by a remote control or by an automatic starting device.



### Programming:

If pressed briefly, the display shows the current program number for about 1 second. During its display, it is possible to modify it by the relevant +/- buttons.

- If pressed for more than 3 seconds, it allows to change the operational settings.
- Upon each pressing, the program function moves one step forward, until the end of the programming is reached.
- The programming steps are as follows:
  - Program number (1 ÷ 19)
  - Steaming time expressed in seconds (0 ÷ 99)
  - Steaming and blowing time expressed in seconds (0 ÷ 99)
  - Blowing time expressed in seconds (0 ÷ 99)



Upon programming, this plus-button allows to modify the displayed, flashing number (seconds) by increasing

- Outside the programming phase, it can display the count of the effected operations for about 1 second (stroke-counter).
- If you press this button for more than 3 seconds while the stroke-counter is displayed, the same will be reset.



Upon programming, this minus button allows to modify the displayed, flashing number (seconds) by decreasing

- If you press this button for more than 3 seconds while the stroke-counter is displayed, the same will be reset.

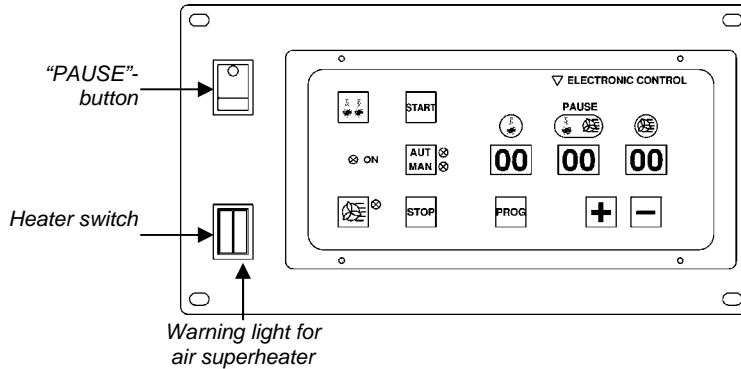
The working cycle features 3 different times in sequence:

- Steaming time
- Steaming and blowing time together (or of pause, if you press the relevant button)
- Blowing time

The flashing LED “ON” signals, that the working cycle has started, activating at the same time the relevant output, whereas the displays show the decreasing time of the different steps.  
 In case you select the PAUSE option, the central display unit will be flashing during the working cycle.  
 At the end of the working cycle, the machine up-dates the cycle count, resets the timers of the different cycle steps, and is ready for a new cycle **START**.

The remote STOP-pedal features two different functions:

- If you press on the pedal for more than 2 seconds, it activates the manual blowing.
- If you press the same from 0.1 to 2 seconds, it deactivates the manual blowing, if previously set off, or it stops the working cycle of the machine, if running.



**7.4 USE**

- Set the desired program.
- Close the air-regulating valve completely by means of the external right-hand pedal, by pressing it backwards.
- Reduce as much as possible the shoulder width of the dummy by means of the relevant knob.
- Place the garment to be ironed onto the dummy.
- Align the bottom part of the dummy cover according to the length of the garment to be ironed.
- For garments with long sleeves, open the side zips of the dummy cover.
- Set off the vacuum by pressing on the central pedal, so that the button-facing of the garment clings better to the dummy, whereas the sleeve stretchers shift to the basic position.
- Regulate the shoulder width of the dummy according to the garment.
- Close the front panel by means of the relevant rod (fixing the front part of the garment without having to button it up). To release the front panel, pull the rod towards yourself. The handgrip on the rod enables to regulate the pressure of the front panel on the garment: by turning it clockwise, the pressure is reduced. A correct regulation of the panel pressure makes sure that the garment tail will not slip off during the ironing cycle and will not leave any marks.
- Fix the collar by means of the relevant knob.
- Regulate the fastening pressure of the pliers by means of the knob placed on the left side of the machine.
- Find the most suitable position according to the garment by means of the handles placed on the sleeve stretchers, and on the pliers.
- Standing in front of the machine, put the right-hand sleeve into the right-hand pliers and press on the pedal to the right for their closing.
- Put the left-hand sleeve into the left-hand pliers and press on the pedal to the left for its closing. As soon as you will take off the foot from the pedal, the preset ironing cycle starts.
- Open now gradually the air-regulating valve until the garment is well inflated without being pulled out of shape.
- Wait until the ironing cycle is finished.
- Press on the right-hand pedal in order to release the sleeves, unfasten the collar, as well as the front panel.
- Take off the ironed garment.
- The machine is now ready for a new cycle start.
- In case of a malfunctioning or a standstill of the cycle program, press on the external left-hand “STOP”-pedal. The machine stops and gets ready for a new ironing cycle. If you press on this pedal at the end of the cycle for more than 2 seconds, another drying cycle is set off.

**8 TROUBLESHOOTING AND SOLVING**

The following diagnostic table indicates the main irregularities which can occur, their probable causes and possible solutions

In case of doubts and/or of problems which can't be solved, do not attempt to disassemble parts of the machine for the troubleshooting, but contact our Technical Department or the Ghidini-reseller, instead.

DIAGNOSTIC TABLE		
PROBLEMS	POSSIBLE CAUSES	SOLUTIONS
The machine doesn't turn on	Main switch turned off	Make sure that the main switch is turned on
	Blown fuses	Check the fuses
No steaming	Steam intake cock closed	Open the cock of the steam intake
No pneumatic movement	No air supply	Check the air pressure on the pressure gauge placed on the reducer

## 9 PRECAUTIONS

Read carefully the instructions and the risks related to the use of a form finisher. The operator has to know its working functions and must clearly understand its dangers with the help of the manual.

### **Main electrical supply**

Prior to carrying out any inspection or service on the machine, it is necessary to disconnect it from the main electrical supply. Make sure, that nobody can reconnect it during the technical service.

Every installed electrical and electronic equipment or basic structure must be earthed.

### **Inflammability**

Adopt all the necessary precautions to avoid any direct contact of the machine with hot materials or flames. Put fire extinguishers near the machine for an immediate intervention in event of fire.

### **Pressure / Steam**

Prior to any intervention, switch off the boiler first, wait until all the pipes are cooled down and check that there are no residual pressures inside the boiler or in any branch of the hydraulic and pneumatic circuit, as they could cause steam spurts, in case of disassembly of fittings or other components.

### **Noise**

The machine's noise level is not very high, as it remains under 70dB (A).

## 10 HAZARDOUS USE

The conformity verification according to the essential safety rules and to the provisions of the machine directive has already been carried out by filling out the specially provided checking lists, included in the technical file.

The checking lists are of two kinds:

- List of dangers (drawn from EN 1050 referring to EN 292)
- Application of the main safety features (Machine Directive– appendix. 1, part 1)

**The dangers described in the following have not been completely removed, but they have been deemed to be acceptable:**

- During the maintenance operation there could be some steam jets at low pressure, (maintenance operation must therefore be carried out by using suitable protection devices)
- The user must provide for a protection against direct and indirect contacts.

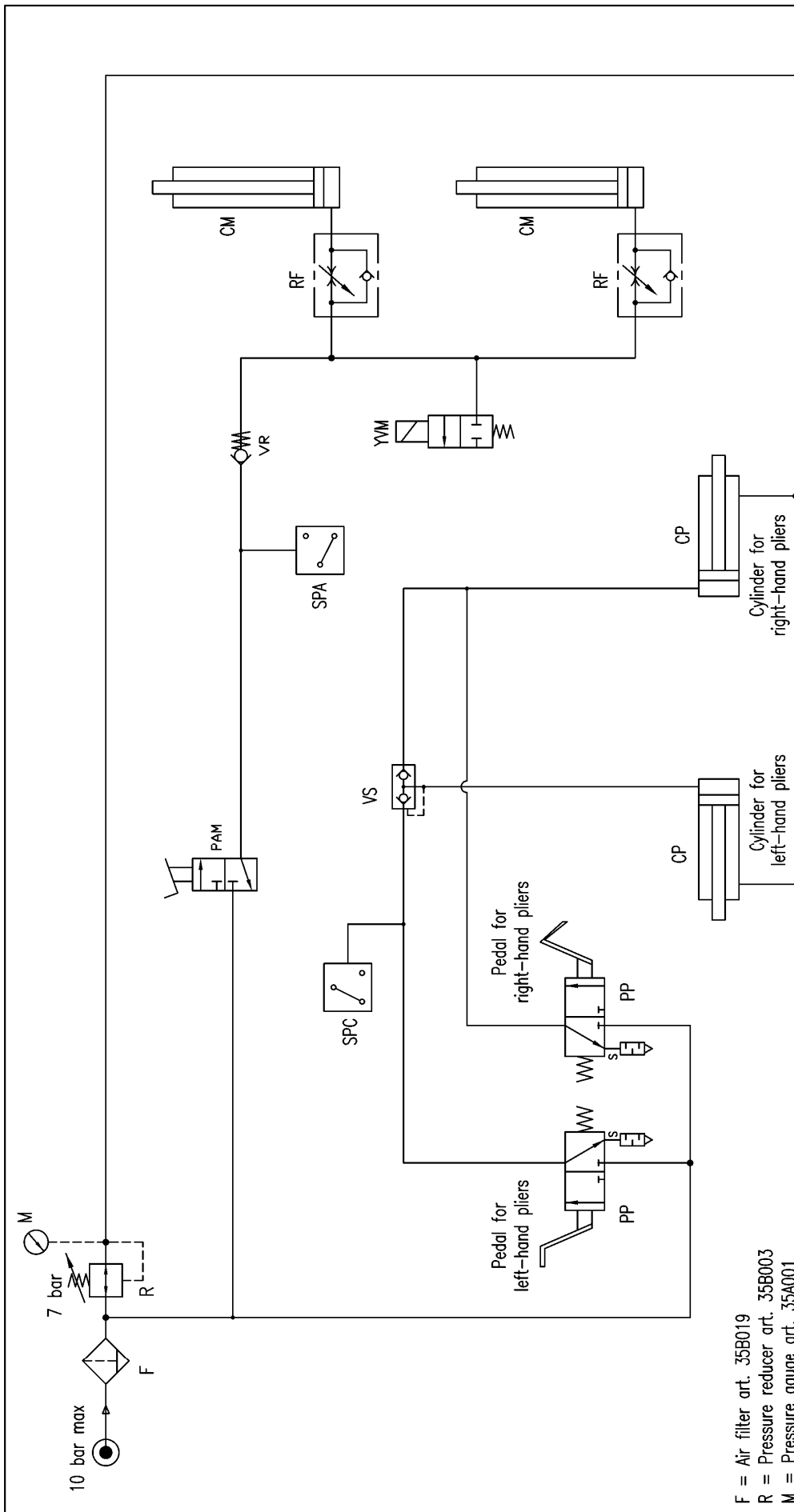
## 11 OVERALL DIMENSIONS AND DRAWINGS

1. Power supply  
3. Steam intake

2. Steam trap  
4. Compressed air intake



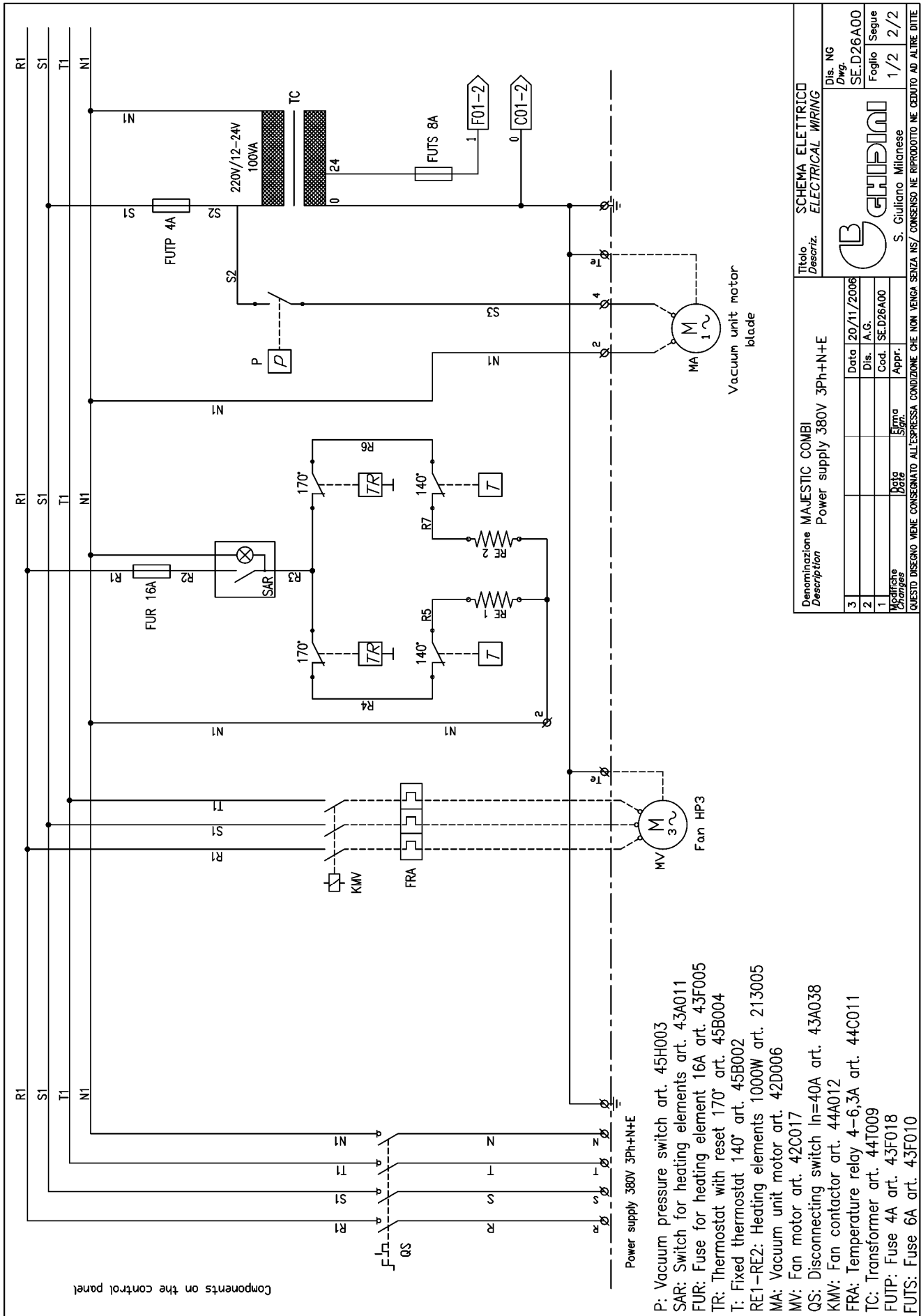




- F = Air filter art. 35B019
- R = Pressure reducer art. 35B003
- M = Pressure gauge art. 35A001
- PAM = Pedal for vacuum and sleeve stretchers art. 38A048
- SPA = Vacuum pressure switch art. 45H003
- VR = Gate valve 1/8" art. 24C001
- RF = Flow regulator art. 38A017
- CM = Cylinder for sleeve stretchers art. 35C012
- YVM = Solenoid valve for sleeve stretchers art. 39B044
- VS = OR -switch art. 38A049
- SPC = Pressure switch for automatic cycle start art. 45H003
- PP = Pedal for pliers art. 38048
- S = Silencer
- CP = Cylinder for pliers art. 35C013


Denominazione Description		TITOLO Title	
MAJESTIC COMBI		SCHEMA PNEUMATICO PNEUMATIC DIAGRAM	
3	Data	04/12/06	Dis. NG
2	Dis. A.V.G.		Dwg. SP.D26A00
1	Cod.	SP.D26A00	Foglio Segue 1/1
Modifiche Changes		Disegnato Date	Disegnato Date
		Appr.	Appr.
QUESTO DISEGNO VIENE CONSEGNATO ALL'ESPRESSIONE CONDIZIONE CHE NON VENGA SENZA NS/ CONSENSO NE RIPRODOTTO NE CEDUTO AD ALTRE DITTE			

S. Giuliano Milanese



Components on the control panel

- P: Vacuum pressure switch art. 45H003
- SAR: Switch for heating elements art. 43A011
- FUR: Fuse for heating element 16A art. 43F005
- TR: Thermostat with reset 170° art. 45B004
- T: Fixed thermostat 140° art. 45B002
- RE1-RE2: Heating elements 1000W art. 213005
- MA: Vacuum unit motor art. 42D006
- MV: Fan motor art. 42C017
- QS: Disconnecting switch In=40A art. 43A038
- KMW: Fan contactor art. 44A012
- FRA: Temperature relay 4-6,3A art. 44C011
- TC: Transformer art. 44T009
- FUIP: Fuse 4A art. 43F018
- FUTS: Fuse 6A art. 43F010

Denominazione Description		MAJESTIC COMBI Power supply 380V 3Ph+N+E	
TITOLO Descriz.		SCHEMA ELETTRICO ELECTRICAL WIRING	
Dis. NG		SE.D26A00	
Foglio		1/2	
Segue		2/2	
 S. Giuliano Milanese			
Data	20/11/2008	Dis. A.G.	
Cod.	SE.D26A00	Appr.	
Verifica		Disegn.	
Approv.		Disegn.	



## 12 MAINTENANCE PROCEDURES

---

The machine doesn't require any routine maintenance. In case of irregularities or malfunctioning, please contact the service technician for the relevant checks.

**Periodically, it is necessary to carry out the following operations:**

OPERATION	WORKING HOURS
Cleaning or replacement of the dummy cover	1500
Cleaning of the condensation return filter	500
Lubrication of pedal rods and of all moving parts subject to friction	2500

This machine does not require special equipment for check and/or maintenance operations. It is however advisable to use suitable tools and personal protections in compliance with the Italian law by decree 626/94, which have to be in good conditions (Presidential Decree 547/55), in order to avoid any damages to persons or machine components.

**Make sure that the power supply and the hydraulic system are disconnected prior to any servicing.**

## 13 DISPOSAL

---

During the maintenance on the machine, or in case of its scrapping, please dispose carefully and correctly of any polluting components, according to the local regulations. In case of scrapping, the identification rating plate and any other document have to be destroyed.

## 14 HOW TO ORDER SPARE PARTS

---

Upon the spare parts request, please quote always:

Machine type, serial number, quantity of the requested spare parts, article number (these data can be read on the rating plate or supplied by the technical information of the machine and by the user's and maintenance manual).

For electrical components with a different voltage and frequency than V 220-380/50Hz (data available on the rating plate of the faulty component), specify the right voltage and frequency after having mentioned the article number.

The technical data, the descriptions, and pictures included in this manual are not binding.

The manufacturer reserves the right to make any necessary modification without prior notice or having to up-date the present manual.

## 15 HANDLING AND TRANSPORT

---

Before its shipment, the machine is carefully packed in a wooden crate. During the shipment and storing of the machine, pay particular attention to the upside indication on the packaging (wooden crate or pressed cardboard).

Upon receipt, please check that the packing is intact and store the machine in a dry place.

## 16 WARRANTY

---

All Ghidini products are guaranteed for a maximum period of 12 months from delivery date as far as material and construction defects are concerned.

**The warranty is extended as follows:**

In case of malfunction of the equipment, please contact your Ghidini reseller, specifying the noticed defect, type, serial number and furthermore the operating conditions of the machine. After having received the equipment or component and after an accurate analysis, Ghidini reserve the right, whether to repair or to replace the product. If the machine is still under guarantee, the Ghidini reseller will carry out the service or replacement at Ghidini's charge. In case the returned goods are not defective, Ghidini reserve the right to charge the customer with the met expenses (shipment, etc.). The present warranty will be declared void, if the machine has been damaged due to improper use, negligence, normal wear, chemical corrosion, installation not according to the provided instructions and to the manufacturer's warnings.

Any modification, tampering and alteration on the machine or its components, carried out without prior written authorization by Ghidini, relieve the latter of any responsibility and annuls any warranty obligation. The components subject to normal wear and the perishable ones are not under warranty, as well as everything which has not been previously explicitly indicated, or damages or expenses arising from defects of the same product.

The validity conditions of the guarantee provided by Ghidini are considered implicitly accepted upon purchase of the machine. Any possible changes to or derogations from the present guarantee are only valid prior written authorization by Ghidini.

## 17 CONFORMITY DECLARATION

---

**Manufacturer:**

GHIDINI  
Company

Via Tolstoj, 24 – 20098 S. Giuliano Milanese (MI)  
Address

+39 -02 -98.24.06.00  
Phone number

**Declares that:**

**The machine:**

**Form finisher Majestic Combi**

- \* has been designed in compliance with the DIRECTIVES OF THE EUROPEAN COMMUNITY COUNCIL referring to machines (98/37/EC) and to low voltage (BT 73/23/CEE).
- \* has been designed, as far as enforceable, in compliance with the following harmonized regulations and technical specifications:  
EN 292-1/2, EN 1050, EN 982, EN 11200, EN 60947, EN 894-1/2.

---

Managing director  
Product manager

Roland Fleischmann  
Name

GHIDINI S.R.L.  
Company



September 2007  
Date

Signature



Web site: <http://www.ghidini-gb.it> - E-mail: [sales@ghidini-gb.it](mailto:sales@ghidini-gb.it)