USER MANUAL

Heat presses Transmatic TS 2P/3 P / TS 5 P / TS 5 PA

Original Manual in Englisch !
To keep for future purpose !

Stand: 21/07/2016
Version: 01

DICHIARAZIONE DI CONFORMITA'
DECLARATION OF CONFORMITY
KONFORMITAETSERKLAERUNG
DECLARATION DE CONFORMITE
DECLARACION DE CONFORMIDAD

according to 2006/42/CE e successivi emendamenti

Nome del produttore: **TRANSMATIC SRL**
Manufacturer's name:
Name des Herstellers:
Nom du fabricant:
Nombre del fabricante:

Indirizzo del produttore: **VIA ENZO FERRARI**
Manufacturer's address: **LAZZATE (MB) ITALY**
Adresse des Herstellers:
Adresse du fabricant:
Direcci'on del fabricante:

dichiara che il prodotto: declares thet the product: erklaert, dass das Product:
déclare que ce produit: declara, que el material:

Nome del prodotto **Pressa pneumatica**
Product name **Pneumatic presse**
Nom du produit **Presse pneumatique**

MOD. TS	**N.**

é conforme alle seguenti specifiche: conform to the following product specif:
Folgenden Produktspezifikationen entspricht: est conforme aux specifications suiventes:
es conforme con las siguientes especificaciones:

Low Voltage Directive 2006/95 CEE
EMC Directive 89/336/EEC compatibilità elettromagnetica 2004/108 CE
CEE EN 60-204
EN 60898-1:2003+A1:2004+A11:2005+A12:2008+A13:2012
EN 61000-6-2:2005; EN 61000-6-3:2007
Direttiva 2006/42/CE e successivi emendamenti
Maschinenrichtlinie 2006/42/EG

Lazzate, MARZO 2017

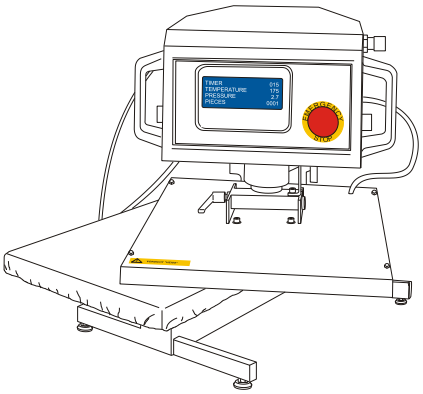
PIETRO ALBANESE
AMMINISTRATORE UNICO

il fascicolo tecnico, come previsto dalla direttiva 2006/42 è costituito e custodito presso
TRANSMATIC SRL - VIA ENZO FERRARI, 11 - 20824 LAZZATE (MB)

INTRODUCTION

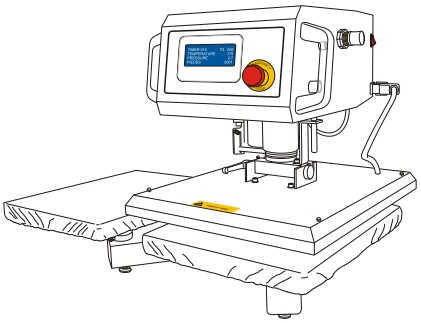
ARTICLE

This manual and instruction for use describes following articles :



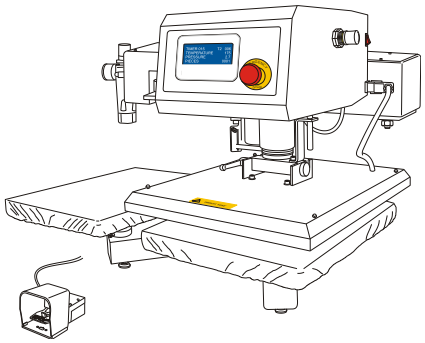
TS 3 P

1 Working table
Manual swing



TS 5 P

2 Working tables
Manual swing



TS 5 PA

2 Working tables
Automatic swing

ADVISE !

The starting graphic shows the model TS5 P.

GENERAL INFORMATION

This user manual must be at all times available to the operators and the service team of the machine.

The owner of this machine must make sure that the operators, service, and maintenance team have available the fault finding chart and that all work is carried out by competent staff. This manual will help you:

to understand the use of the machine

to use the machine properly

to extend the life time of the machine

The change of the power cable has to be effected by qualified or trained persons in order to avoid injury

Please read this manual carefully. It contains important information in order to use the machine safely and efficiently.

The operation of this machine in compliance of the manual will assure :

The safety of the operating personal and the avoidance of working accidents.

Transmatic Srl. assumes no liability of damage or malfunctions resulting from failure to observe this manual

Power cables and pneumatic pipes are to be connected properly in order to avoid tripping hazards.

The machine must be placed on a flat (No slope) surface with sufficient structural strength.

WARRANTY AND LIABILITY

The present operating and maintenance manual was written with utmost care. All information and instructions for operations and maintenance is written while taking into account our experience and knowledge in good faith. This operating and maintenance instruction corresponds with text and illustrations from recent technical information. The contents of the manual lay no claims by the purchaser. If you note any omissions and or errors, we ask you in your own interest to inform us about it, for correction.

The time of the warranty of this machine is one year for mechanic and electric parts, 3 years for electronic parts. Consumable parts as PTFE covers, felts and silicone rubber are excluded from the warranty.

Warranty and liability for personal injury are excluded in case of:

- Improper operation and/or maintenance of the machine
- Operation of the machine with defective or non-functioning safety and protective devices.

- Operation of the machine with broken or not fully functional parts and assemblies.
- Failure to follow the instructions in detail
- Unauthorized modifications or changes to the machine
- Improper repair
- Acts of God or vandalism
- Unauthorized changes and modifications on machines and machine systems, in particular to control, mechanical, hydraulic or pneumatic components.

The above will also lead to cancellation of our EG declaration of conformity and the loss of the CE mark.

SPECIAL WARNINGS AND SPECIAL INFORMATIONS

In the manual will be indicated the following designations :

DANGER !

Denotes an imminent hazard.

To disregard this warning may result in death or serious injury.

CAUTION !

Indicates a potentially hazardous situation.

To ignore this advice could result injury.

WARNING !

Indicates a potentially hazardous situation. To disregard this notice may result of minor injuries.

NOTE !

Special instructions and prohibitions to prevent damage

SECURITY – AVOIDING HAZARDS

PROPER USE

- The heat presses Transmatic TS3P / TS5P / TS5 PA are exclusivly designed to be used to print on textiles as well as subarticles as T-Shirts, Sweaters, Flag fabrics, Mousepad etc. Any other use is considerated improper ! The supplier will not be liable of damages resulting from improper use.The risk lies entirely by the user.

- Before using the heat presses Transmatic TS3P/ TS5P/ TS5PA outside the above range of application, the customer service is to be consulted. Anything to the contrary of this eliminates warranty.

- The intended use includes the oberservance of the operating and maintenance instructions and the regular service of the machine.

- The heat presses have to be used and maintained only by trained persons.

- The heat presses have to be used only with original accessories and spare parts.

NOTE !

Wrong use could cause injury or hinderence to:

- body and life

- objects

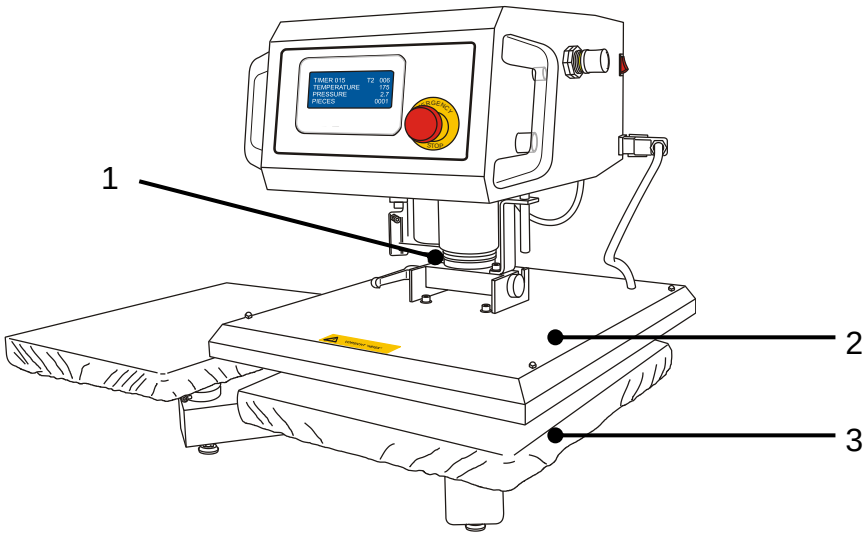
- efficient use of the machine

DANGER SOURCES ACCIDENT PREVENTION

SOURCES OF DANGER

The heat tranfer press of the type series TRANSMATIC TS3P /TS5P/TS5PA is built as a state of the art and the recognized safetly-related rules and regulations. Compliance with the relevant safety and accident prevention regulations is required.

Nevertheless, there are the following residual risks :



WARNING !

The temperature of the heating plate (2) ranges from 20°C to 250°C.Do not touch the hot plate.

WARNING! Risk of crushing by the movement of the heating plate.

Do not keep fingers and hands between the work top and the hot plate or between the area where the heat plate meets the cylinder as well near to the radius of the movement.

SAFETY DEVICES

CAUTION !

- Never remove or modify safety devices.
- Do not operate the machine if safety devices are not working correctly.

EMERGENCY STOP BUTTON

Pressing the emergency stop button only raises the hot plate. Voltage and compressed air supply is not interrupted. Risk of accident !

PERSONAL PROTECTIVE EQUIPMENT

Not required.

CE-MARK

The heat presses Transmatic TS3P / TS5P/TS5PA has been built in accordance with all relevant EU standards and is fitted with the CE mark.

CE

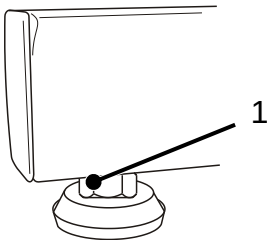
The attached declaration of conformity loses it‘s validity when the machines altered or changed without our consent.

TECHNICAL DATA

MOD.	TS 3 P	TS 5 P	TS 5 PA
Working surface	50 x 40 cm		
Voltage	230 V		
Consumption	2,2 kW	2,2 kW	
Consumption p/hour	0,1 kW / h	0,1 kW / h	
Recommanded fuses (main)	16 A		
Fuse (devise)	FF 16 A		
Regulable temperature	20 °C bis 250 °C		
Regulable Press time	0 bis 999,9 s		
Pressure	0 bis 800 g / cm^2		
Diameter of piston	min. 50 l		
Volume of the compressor	3bar =0,3 kg/cm^2 4 bar = 0,4 kg/cm^2 5 bar= 0,5 kg/cm^2 6 bar = 0,6 kg/cm^2		
Pressure kg/cm^2	6 bar (G 1/4“)		
Piston power	70 / 90 kg	116 / 140 kg	100 / 150 kg

INSTALLATION

WORKSTATION



Place the heat press on a sturdy work table.

Set up the press with the feet (1) Make sure that it is resting flat and not wobbling.

WARNING !

The working table has to be aligned and be strong enough to support the weight of the press. The movement of the head of the press may move the machine. It is recommanded to fasten the feet to the table.

INSTALLATION AND ASSEMBLY

Remove the packing.

Check the machine after unpacking and setting on the table. Check to be sure there are no obvious defects.

ELECTRICAL CONNECTION

Check, that the power switch of the machine is switched off.

Insert the plug into the socket (230 V)

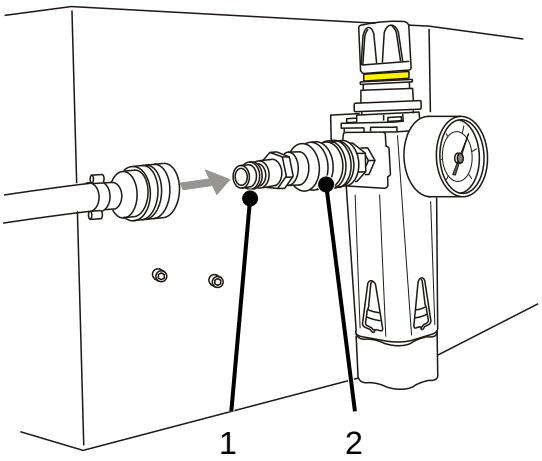
WARNIG!

Connect the cable in a manner to avoid tripping hazards

PNEUMATIC CONNECTION

DANGER!

Connection to the pneumatic hose will cause the heat plate to raise up immediately. Risk of Accident !



Connect the hose to the pneumatic air supply (1) Slide valve to " ON " Position

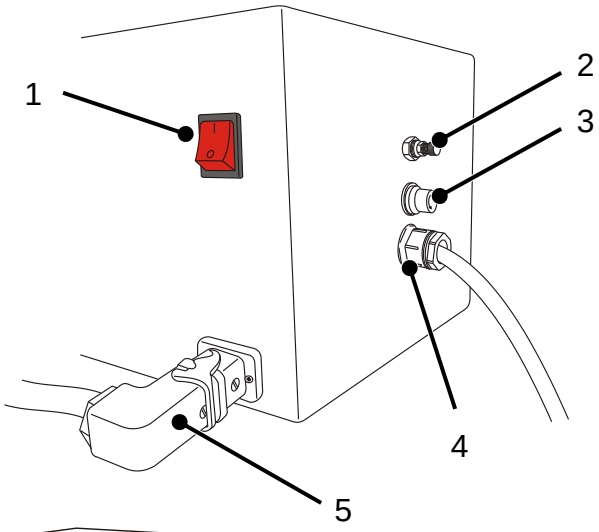
ADVISE:
Regulation of the air pressure see capt. 6.4.2

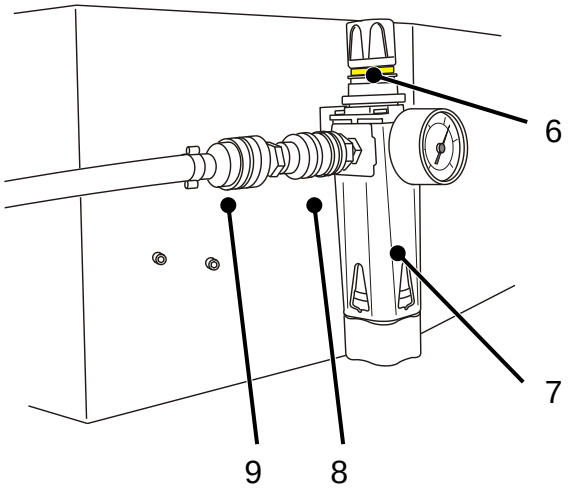
WARNING!

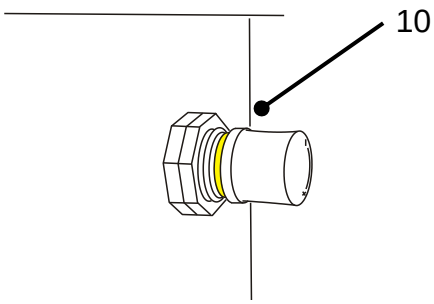
Connect the pneumatic hose and cables in a way to avoid tripping hazards

FEATURES OF THE MACHINE

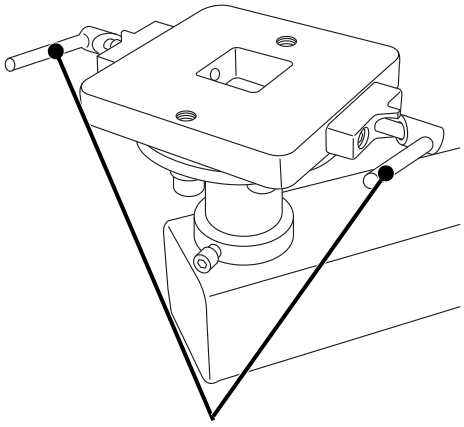
TS3P/TS5P/TS5PA



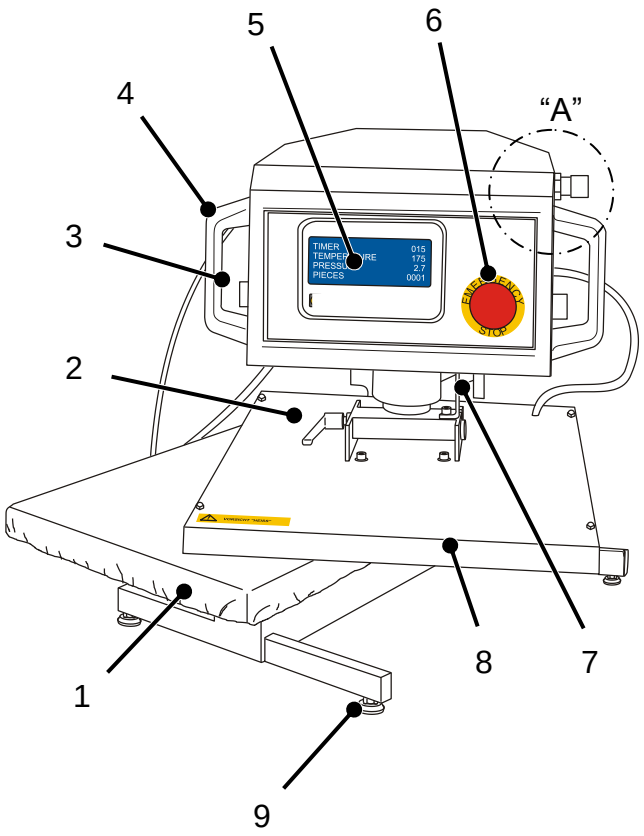




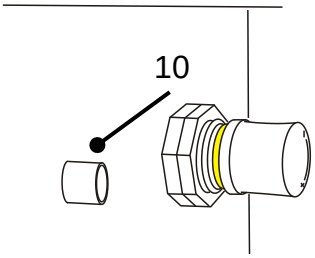
1. General Switch On/Off
2. Speed regulator (Regulates the speed of opening of the plate)
3. Fuse
4. Main Cable
5. Heat plate plug
6. Pressure regulation (In- coming pressure)
7. Maintenace unit
8. Slide valve
9. Compressed air supply
10. Pressure regulator (Working pressure)
11. Quick release lever of the working plate
    - Automatic opening
    - High productivity
    - Pre-press Funtion
    - Easy exchangeable underplates
    - Strong and rugged design for industrial use



TS 3 P

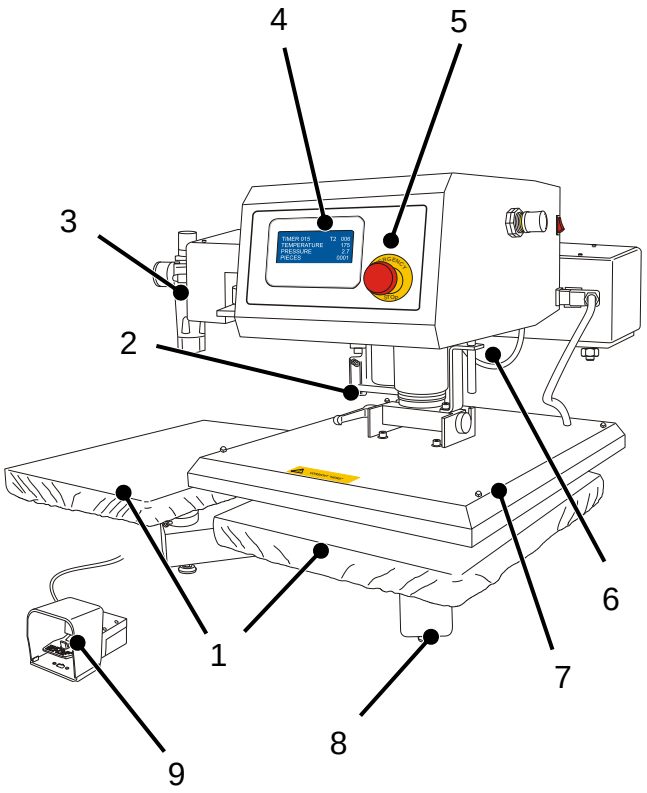


Detail "A"



1. Working plate with Nomex cover
2. Lever to change the top plate
3. Automatic Closing by pressing of 2 buttons
4. 2 Handles
5. Display
6. Emergency Stop
7. Guide
8. Heating plate with PTFE cover
9. Feet
10. Micro switch

TS 5 PA



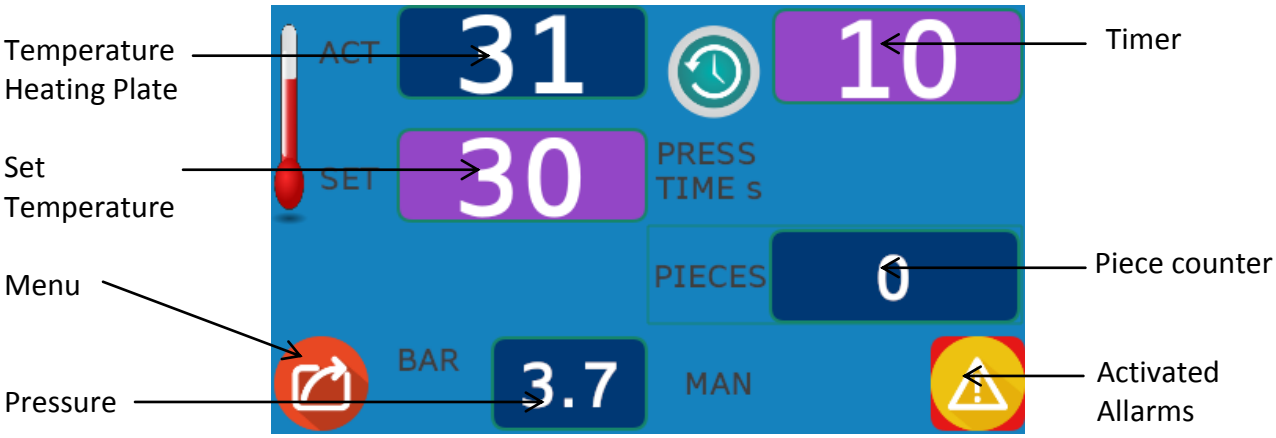
1. 2 working plates with nomex cover
2. easy release lever
3. filter assembly
4. display
5. emergency stop
6. guide
7. heating plate with PTFE cover
8. adjustable feet
9. foot pedal

START UP

NOTICE !

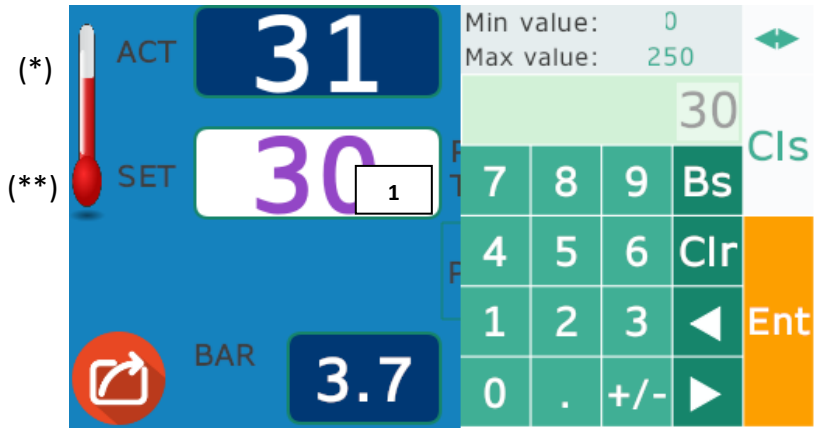
- Electrical Plug must be inserted
- Compressed air should be connected
- Press must stand firm and level
- Place main switcher to position 1.

INSTRUCTION TOUCH SCREEN



SETPOINT SETTINGS

Follow the indications of your transfer paper manufacturer. To change temperature setting ,touch box 1 digit the new value and press enter to store.
The first value on the display (*) shows you the real temperature on the heating plate, the second value (**) shows the set temperature.
The machine is ready to press when both values are the same.
Temperature alarm is activated until heating does not reach the set temperature.



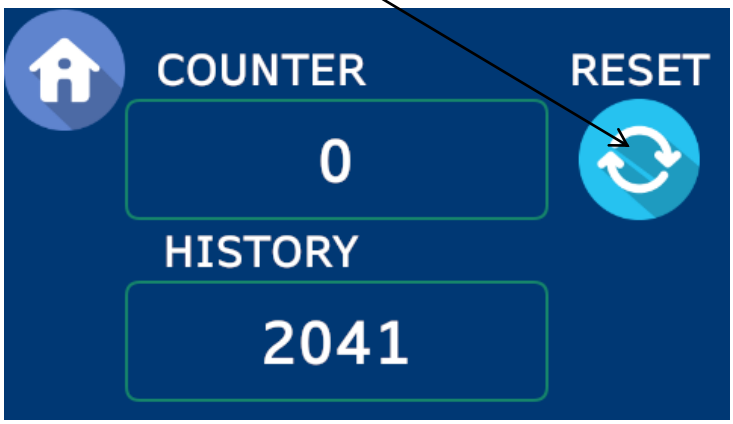
SETTING TIMER

To change timer settings press on box [2] , use fingerboard to write in the new value – press enter to store.

RESET PIECE COUNTER

on the main MENU touch this box

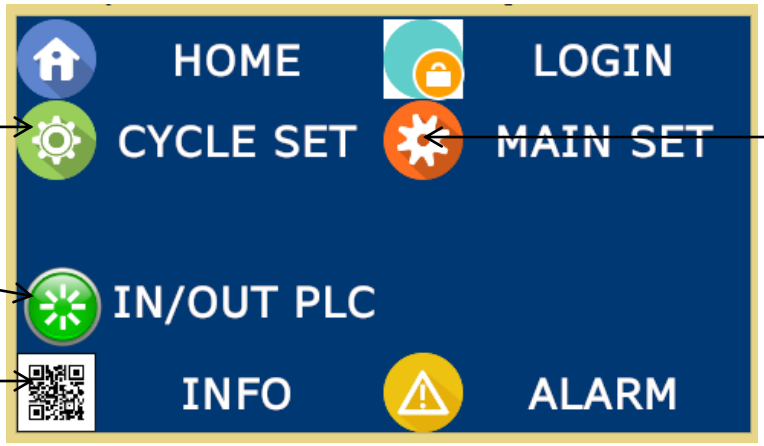
Touch here to reset the counter



PS: It is not possible to reset the historical value.

SUBMENU TOUCH SCREEN

Touching MENU  you login the submenu



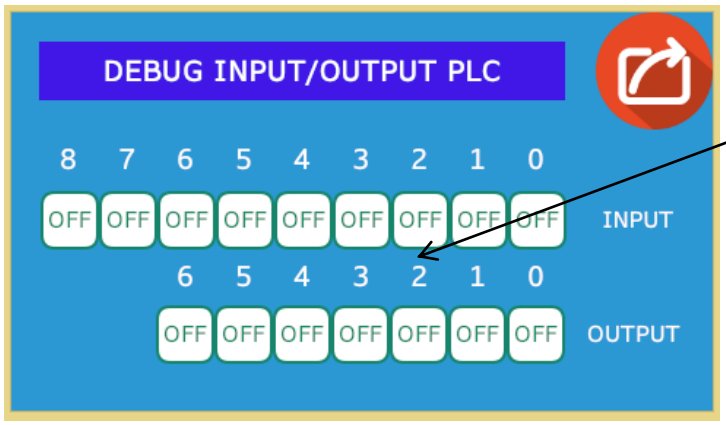
Setting and change of setpoints preset

In/out PLC

Manual pdf

Acustic signal on/off

INPUT/OUTPUT PLC

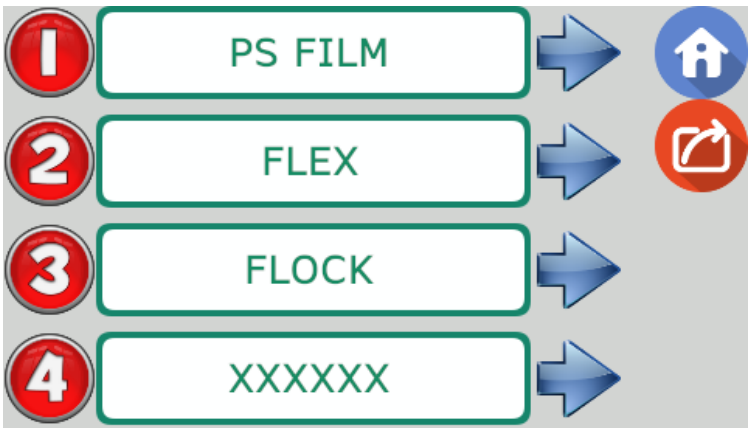


Allows the visual on the exits of the PLC and eventual faults.

In case of fault contact TRANSMATIC .

SETTING AND CHANGE OF SETPOINTS PRESET

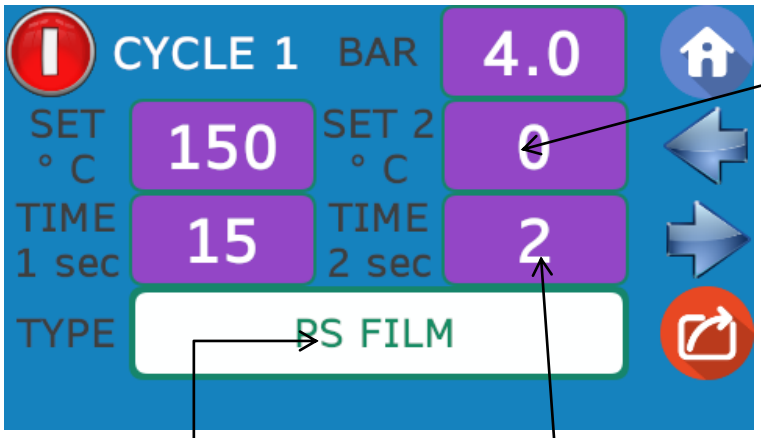
You may create 4 customized presetting's. Press " Cycle set "  to activate or change a preset.



1. **CHANGE PRESET**

- Touch arrow  to enter the menu

- Set requested setpoints



Set 2 °C: Underplaten Heating if machine with this option

Type: Name of Preset
Press here to change name of the preset.

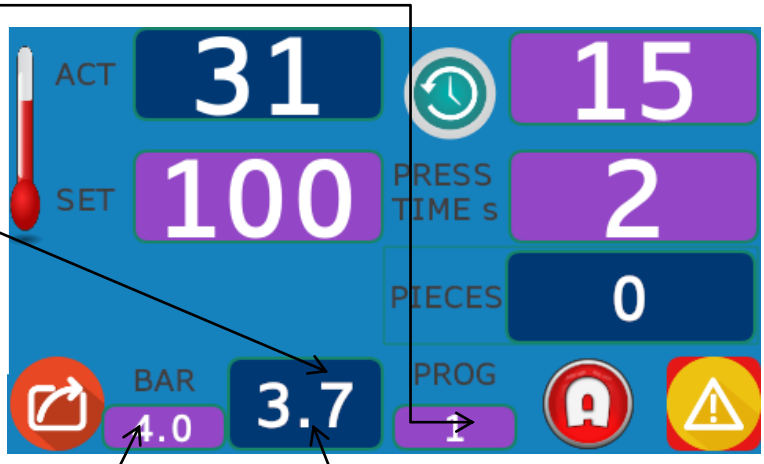
Preheating
Remember to activate Quantities of timers(see page 16)

2. **ACTIVATE PRESET**

To activate Preset press on the number of the program 

- Control on the main menu if the program is activated. 

- Control that the pressure is the same than The preset (If the box light yellow – the pressure is >< di 0,3 bar respect of the set value)(see page 19 for change pressure)



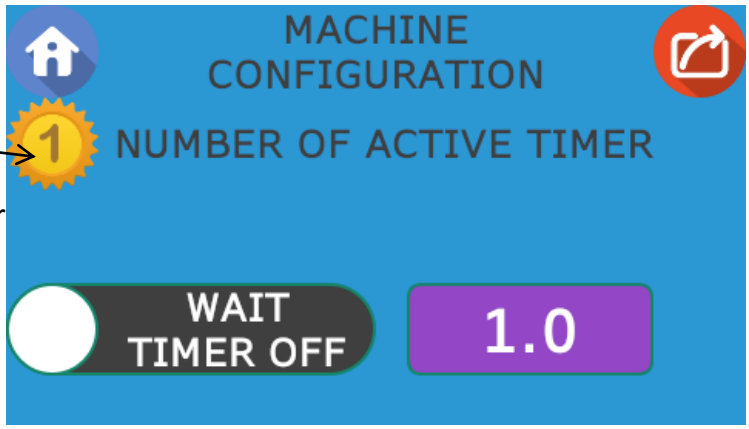
Preset pressure

Real pressure

SETTING QUANTITY OF TIMERS (ADD PREHEATING)

Touch " Main set " to increase quantities of the timers.

Touch symbol to activate :
1 : timer for the pressing time
2 : timer for the pressing time and timer for the preheating/ironing of the material before printing



OPTION : ACTIVATE AUTOMATIC START (ONLY TS5PA)

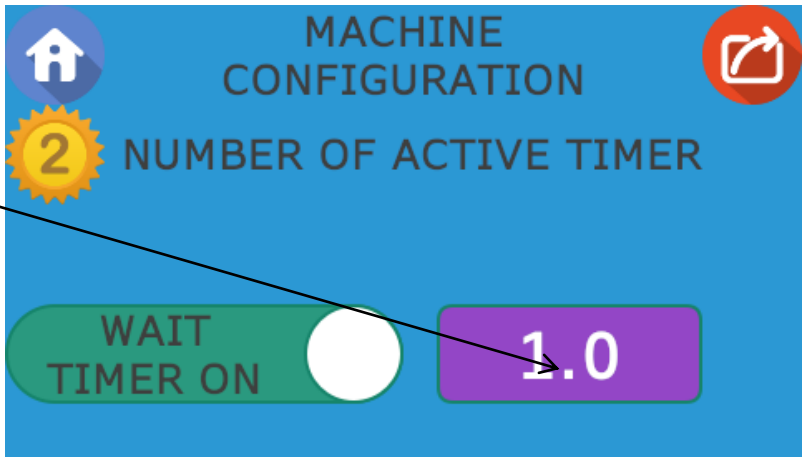
1)Attivate WAIT TIMER

2)Select waiting time between one and another print

3)Control , on the main menu If the program is active

4)Once the program is active – press the start pedal -

5)From this moment the machine works automatically

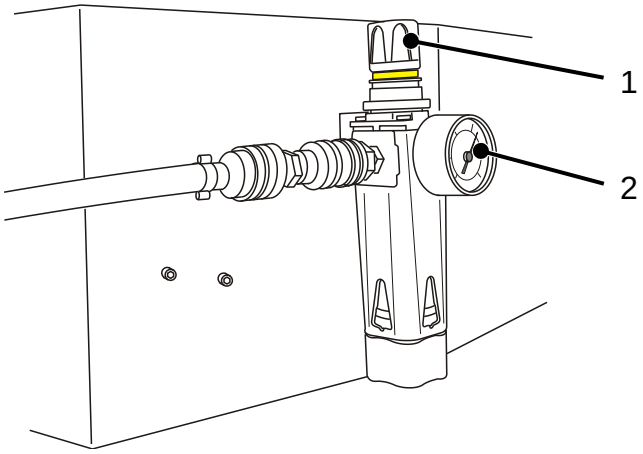


In case of emergency press the emergency stop

REGULATION OF THE PRESSURE

OPERATING PRESSURE

Set the operating pressure on the knob (1) of the maintenance unit. Pull the knob up until the yellow ring is visibile. Set the maximum Pressure. The display on the gauge (2) should show 5 to 8 bar. Press the knob again untill the yellow ring is no longer visible.



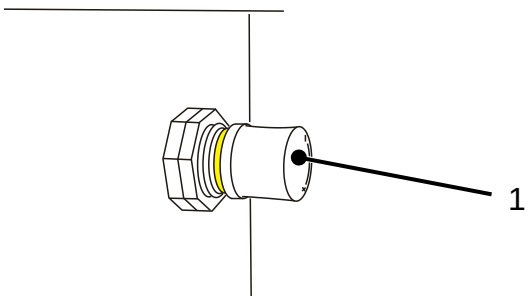
PRESSURE

Regulate the cylinder pressure with the regulator on the opposite side of the machine. Pull out the knob untill you can see the yellow ring.

- Turning to the + direction you increase the pressure
- Turning to the – direction you decrease the pressure

The pressure can be adjusted between min. 1.5 bar and a maximum of 6 Bar.

After the setting of the value you have to push the controller until the 'yellow ring is no longer visible.



ADVISE!

The regulated pressure is indicated on the display only when the heat plate is pressing. Change or correct the value until you reach the desired pressure.

The display reacts a little slow and can change sometimes if the machine stands still.

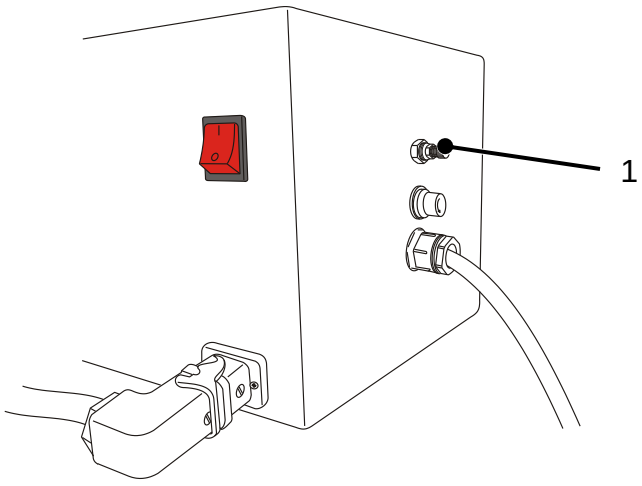
BACK PRESSURE OPTION

Machines equipped with back pressure: You have to set the desired pressure on the pressure gauge located on the right of the machine (we recommend a minimum pressure of 4 bar) Subsequently pressure has to be set on the pressure gauge on the left side of the machine back pressure (for example 2 bar). At this point the pressure setting on the plate is set on 2 bar effective

The back pressure must be inserted in the case you need to apply transfers on a very high flor or to prevent marks on the material to be printed. We suggest to put the pressure to 0 in the case of using transfers of common use.

SELECT THE SPEED OF THE PISTON

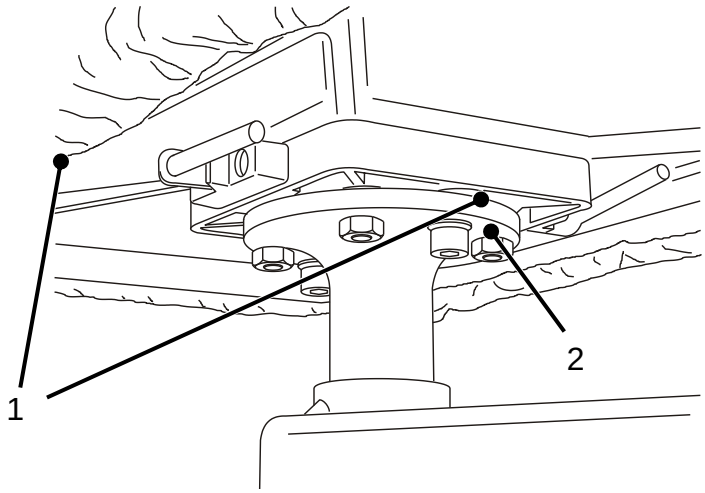
You can regulate the speed of piston on the speed regulator (1) on the back of the machine.



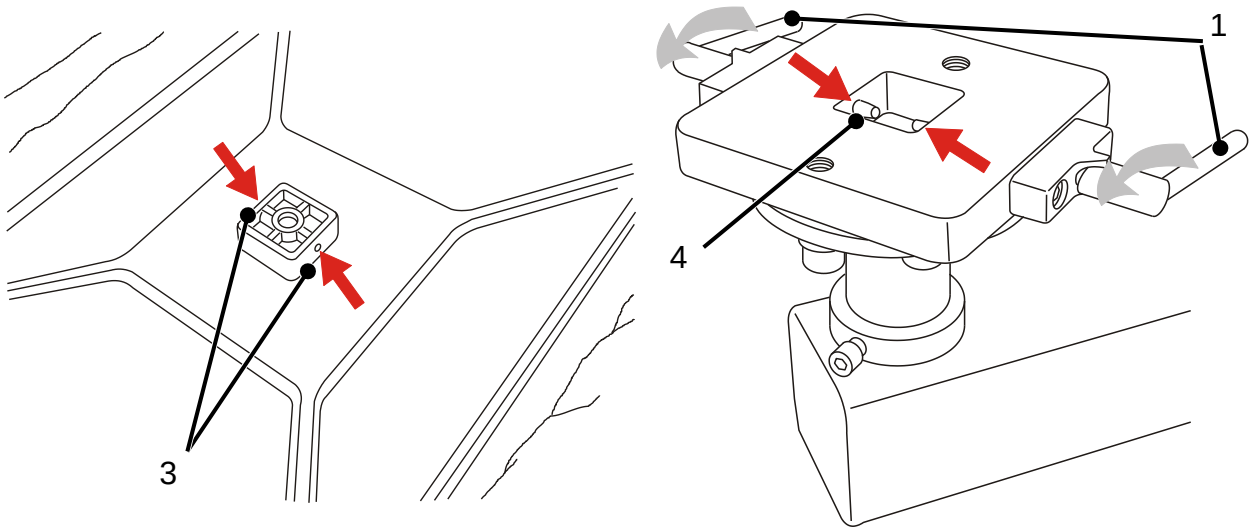
CAUTION !

Take care of the temperature of the working plate if you want to change it during the operation.

1. Swing both of the quick- relaese levers und the working plate (1) for 180°.
2. Withdraw the plate (if you want to change the silicon rubber for example)



1. When re-installing the countertop make sure the the mounting holes (3) of the working plate are placed correctly to the locking pins of the holder.
2. Swing the quick – release levers once again for 180 ° to the old position. The plate is locked.



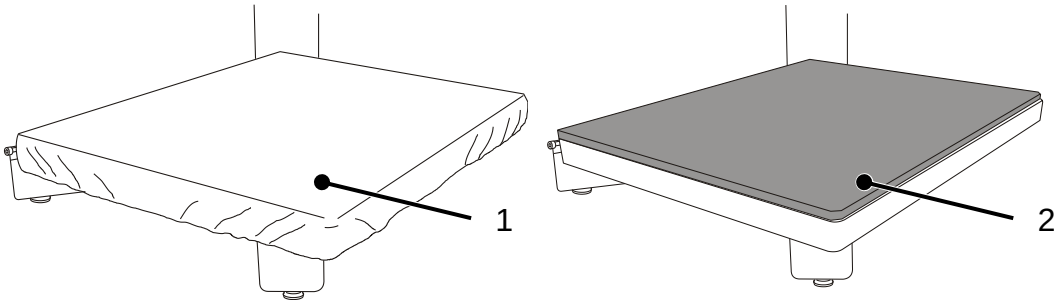
MAINTENANCE, CARE AND CLEANING

DAILY AND AS NEEDED

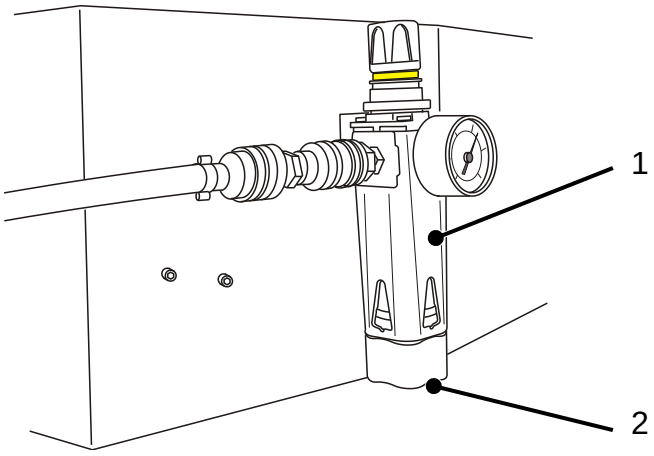
After work, clean the PTFE cover of possible adhesive residue, with a soft and clean cloth.

MONTHLY

- Check the PTFE covering the hot plate. If the PTFE cover is torn or damaged it must be replaced.
- Check the nomex cover and the silicon rubber on the bottom plate. Change the cover if it is damaged. If the silicon rubber has no indentations or high and low spots, it should also be replaced.



- After switching off the pressure and any collected moisture will drain out alone.

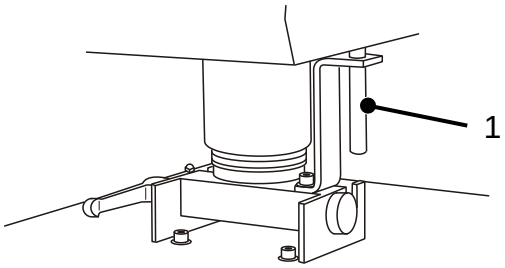


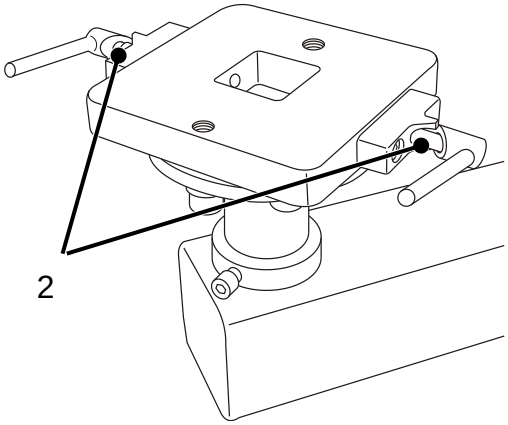
6 MONTHS

- Test the effective temperature on the plate using a temperature strip. If the real temperature is lower or higher please increase the temperature on the display accordingly.

YEARLY

- Electrical testing in accordance with accident prevention
- Check if joints are moving smoothly, oil or grease with ordinary bearing grease.
- Grease guide rod (1) and locking pins with normal grease.



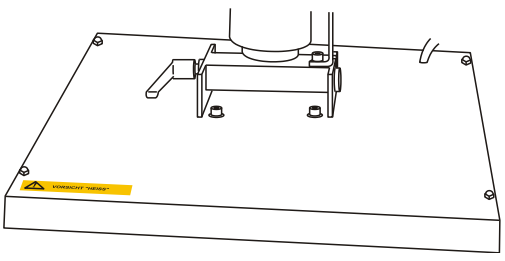


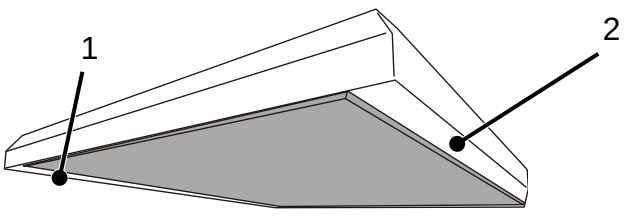
HOW TO CHANGE THE PTFE COVER

If the PTFE cover is damaged it has be be replaced. Switch off the machine and make sure that the heating plate is cold.Unscrew the 4 screws (1) and you loose the 2 rods holding the teflon sheet. Change the PTFE cover and punch 4 little holes in the PTFE textiles in order to fix again the teflon as before.

ADVICE!

On the 2 rods there are 2 threadend pins which fits into the screws.

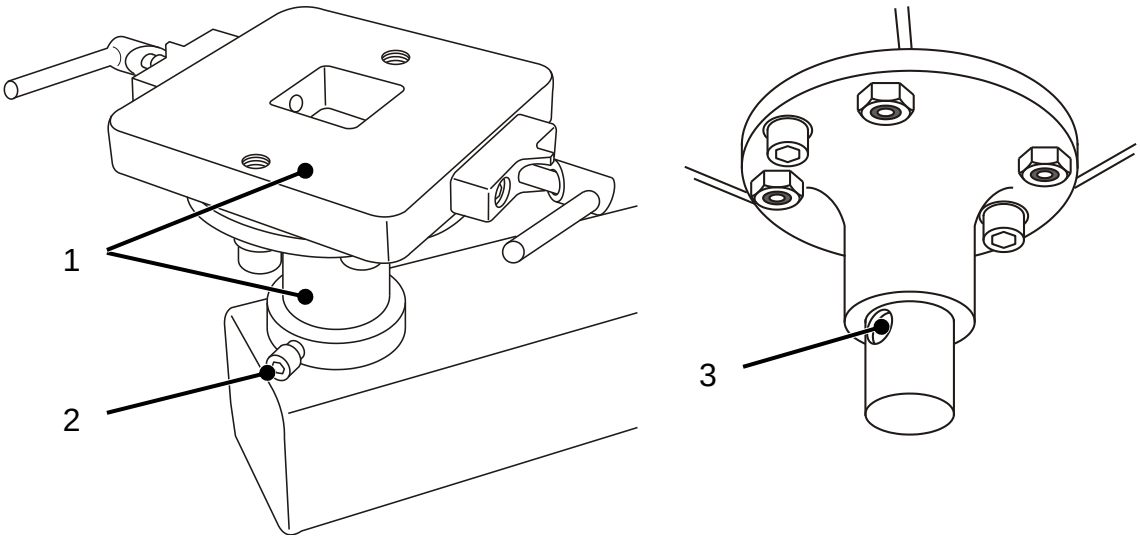




CHANGING THE ACCESSORY

To change out the flat working plate with an cap accessory:

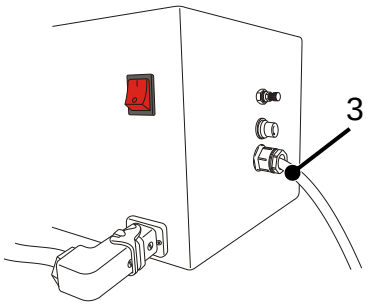
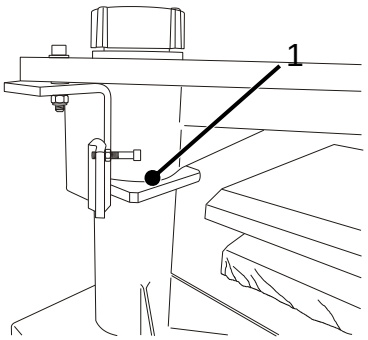
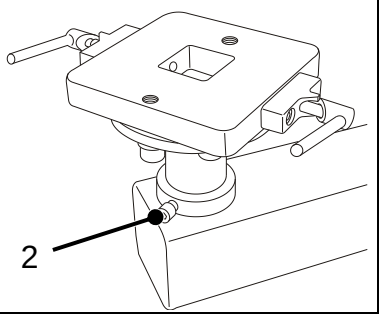
1. Unscrew the Allen screw. (2)
2. Change the plate together with its base.(1)
3. Align the hole oft he punch(3) to the bolt position.
4. Tighten the allen screw very firmly.



TROUBLE SHOOTING

If your press does not work as intended, the following table will help you in troubleshooting

ERROR	CAUSE	CORRECTION
Main switch light is not lit	• Bulb defect • Cable defect	Replace the defective part
Heat plate does not shut down	• Board defect • Valve defect • Start button defect • Hand security def.	Replace the defective part
TS5PA: Heat plate does not move and turn	• Relais defect • Valve defect • Bipolare Cable defect	Replace the defective part
Heating plate falls down by its own weight	• No air connection	Check the air connection
Heat plate opens during pressing	• Sensor defect • Sensor is moved	Replace the sensor Regulate position of the sensor
Alarm Temperatur	• Relay defect • Board defect	Replace the defective part
Alarm Sonda	• Heat Feeler defect	
Alarm Pressure	• No Air on the line	
Heat plate is not heating	• Fuse is burned • Relay defect • Heating element is burned	Change the fuse or replace the defective part
Air comes out of the piston	• Valve defect Piston defect	Replace the defective part
Piston comes down slowly	• Shock absorbers is dirty or blocked	Replace the defective part
Display is not lighting	• Error on the board • Cable between board and display defect	Replace the defective part
Hand security if not working	• Board defect	Replace the part
Main switch light is not lit	• Bulb defect • Cable defect	Replace the defective part

ERROR	CAUSE	CORRECTION
Switching on the Machine – machine not react	• The plug is not well in • There is no electricity on the line • Fuse broken	• Insert the plaug • Control the line • Change the fuse 
Heating plate is not parallel to the underplate	• The mechanic stop moved • The allen is unscrewed	1. Regolate the stop  2. Tighten the allen strongly 

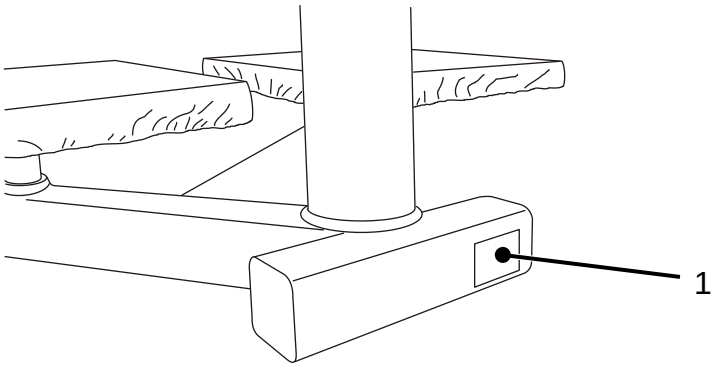
SPARE PARTS

Ordering spare parts or asking for a technical assistance.

ADVISE!

The machine number and the year of construction are always to be comunicated before asking for assistance.

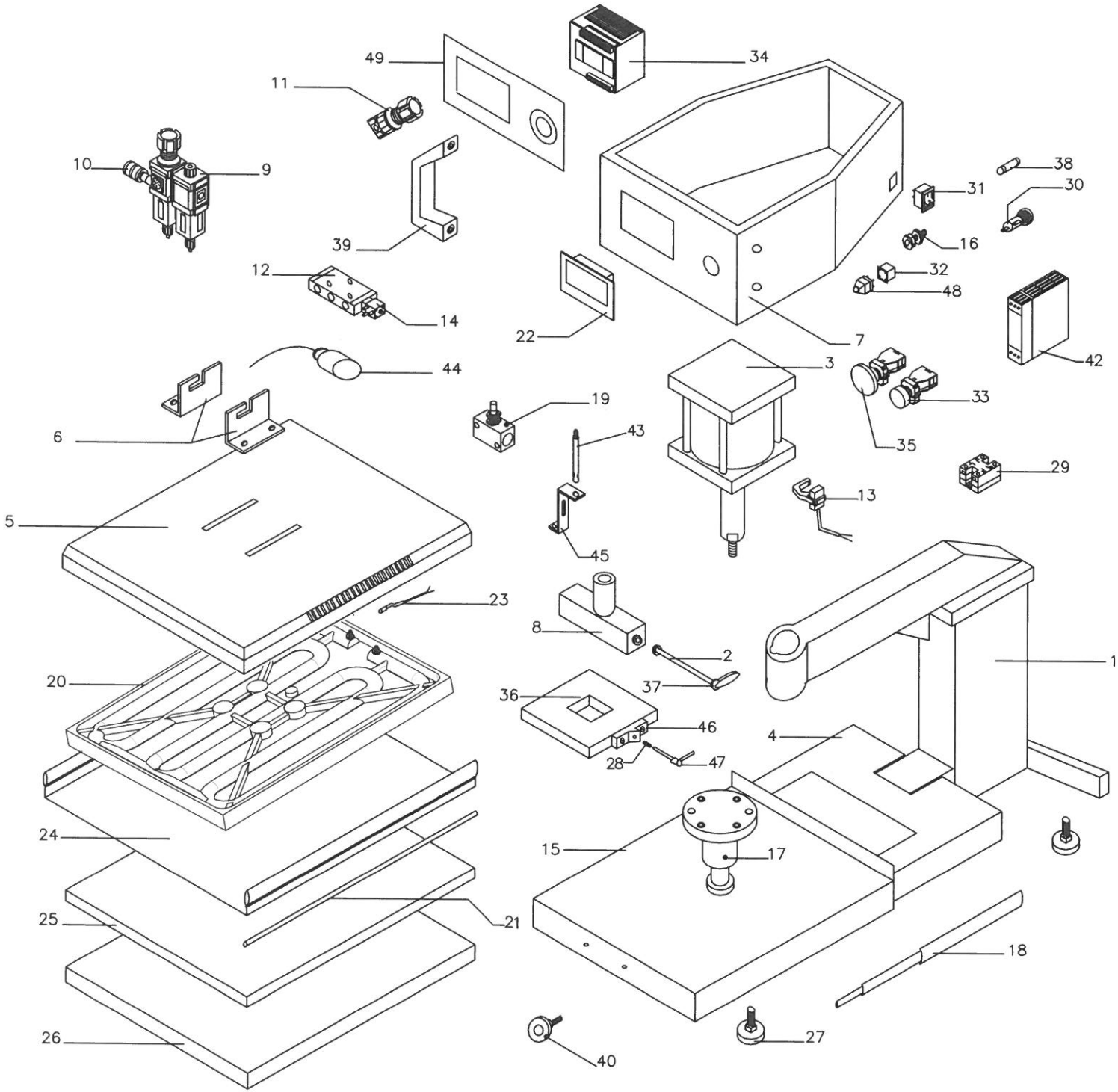
You find the serial number (1) on the back of the base.



DISPOSAL

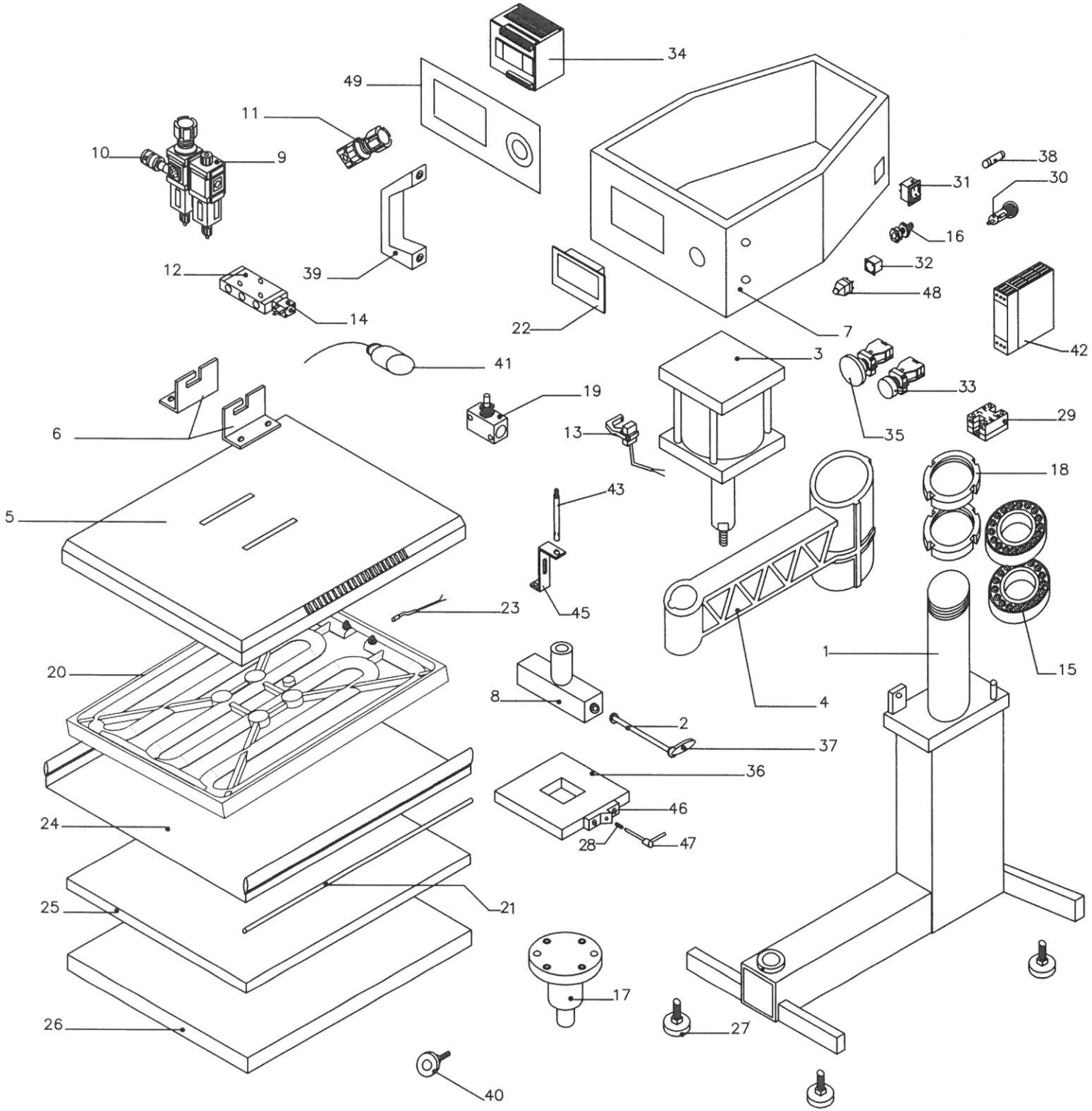
This product may not be released to the normal disposal at the end of it's life.

Transmatic Srl
Via E. Ferrari 9/11/13 20020 Lazzate (MI) Italy
Tel +39 02 96329816 / +39 02 96728422 fax
info@transmaticsrl.com



SPARE PARTS
MOD. TS2P

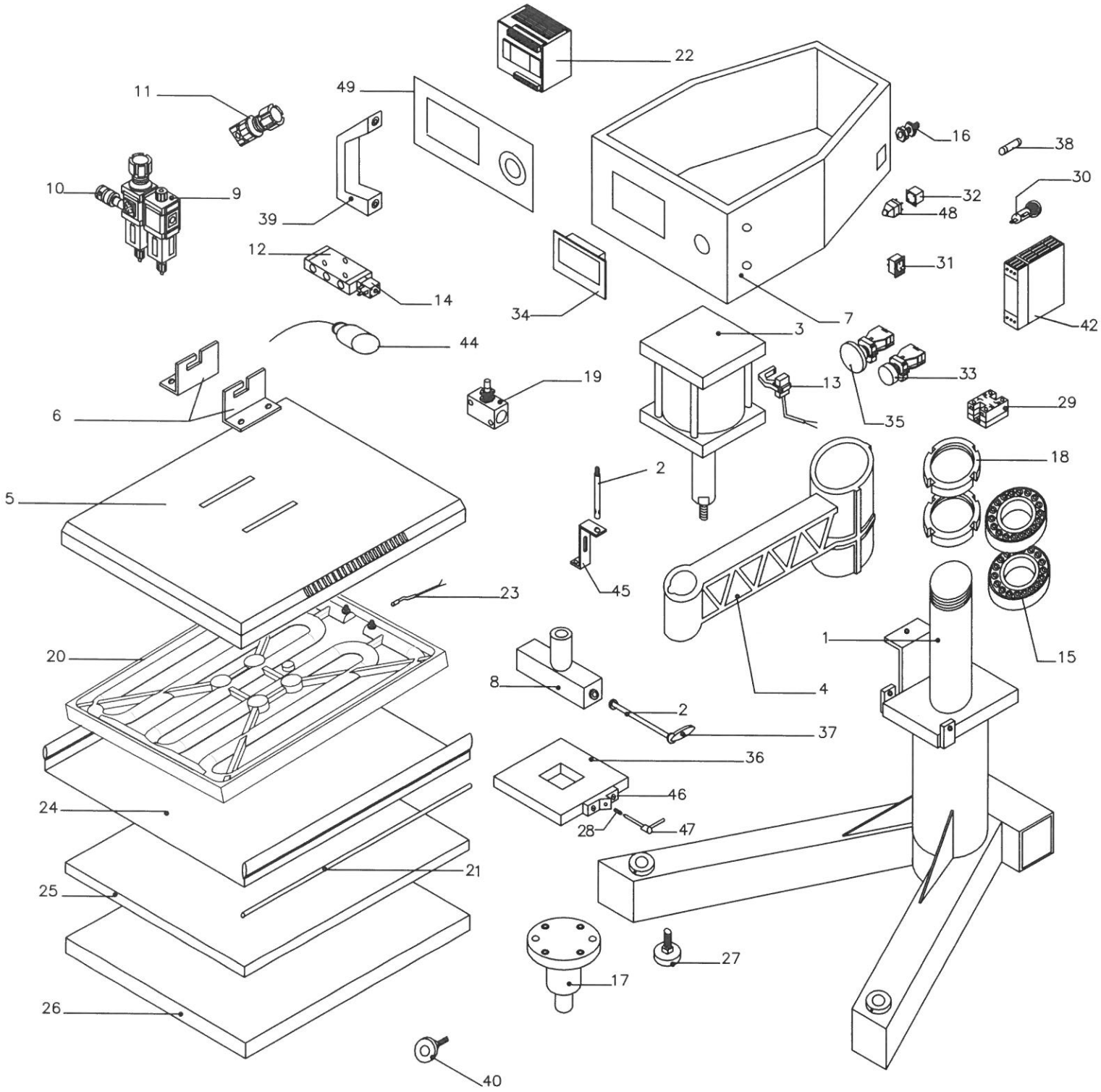
POS.	COD.	DESCRIZIONE
01	A 1051	BASAMENTO
02	A 510	PERNO CON DISCO
03	P 107	PISTONE
04	A 1052	CARTER COPRI GUIDE INF
05	A 405(36)	COPERTINA
05	A 505(50)	COPERTINA
06	A 508	STAFFE DX SX
07	A 205	CARTER STRUM.
08	C 807	PERNO PRESSIONE
09	P 133	GRUPPO F.R.L.
10	P 113	VAL. MANICOTTO
11	P 183	REG. PRESSIONE
12	P 185	ELET. VALVOLA
13	P 181	MICRO MAGNETICO
14	P 204	BOBINA 24V
15	A 1053	CARTER COPRIGUIDE SUP.
16	C 605	PRESSACAVO
17	A 544	SUPP. TAV. MOLL.
18	C 889	GUIDE TELESCOPICHE
19	P 125	REG. VELOCITA'
20	A 1039(38)	PIASTRA TERMICA
20	A 1040(50)	PIASTRA TERMICA
21	C 104	BACCHETTA TEFLON
22	B 992	TOUCHSCREEN MAGELIS
23	S 060	PT 100
24	C 102(36)	TEFLON
24	C 103(50)	TEFLON
25	C 201(36)	SILICONE
25	C 202(50)	SILICONE
26	A 101(36)	TAV. MOLL.
26	A 201(50)	TAV. MOLL.
27	C 116-05	PIEDINO
28	A 967	MOLLA LEVA7BLOCCO
29	S 194	RELE' STATICO 25A
30	C 647-05	PORTA FUSIBILE
31	B 113	INTERUTTORE
32	S 507	CONNETTORE FEMMINA
33	B 809	PULS. START
34	B 993	CPU SCH.TM221CE16T
35	B 810-05	STOP A FUNGO
36	A 245	SUPP. INTERCAMBIABILE
37	C 150-05	LEVA BLOCCO P.T.\ST.
38	C 648-16	FUSIBILE
39	C 576	MANIGLIA SPOSTAM.
40	A 546	VOLANTINO TAV. MOLL.
41	P 110	MANOMETRO
42	B 995	SWITCHING 2.5A 24V
43	C 766	SUPPORTO MICRO
44	S 318	PRESSOSTATO
45	C 768	SUPPORTO MAGNETE
46	A 965	SUPP. LEVA/BLOCCO
47	A 966	LEVA BLOCCO P.INT.
48	S 508	CONNETTORE MASCHIO
49	S 509	FRONT.LEXAN TOUCHSC.



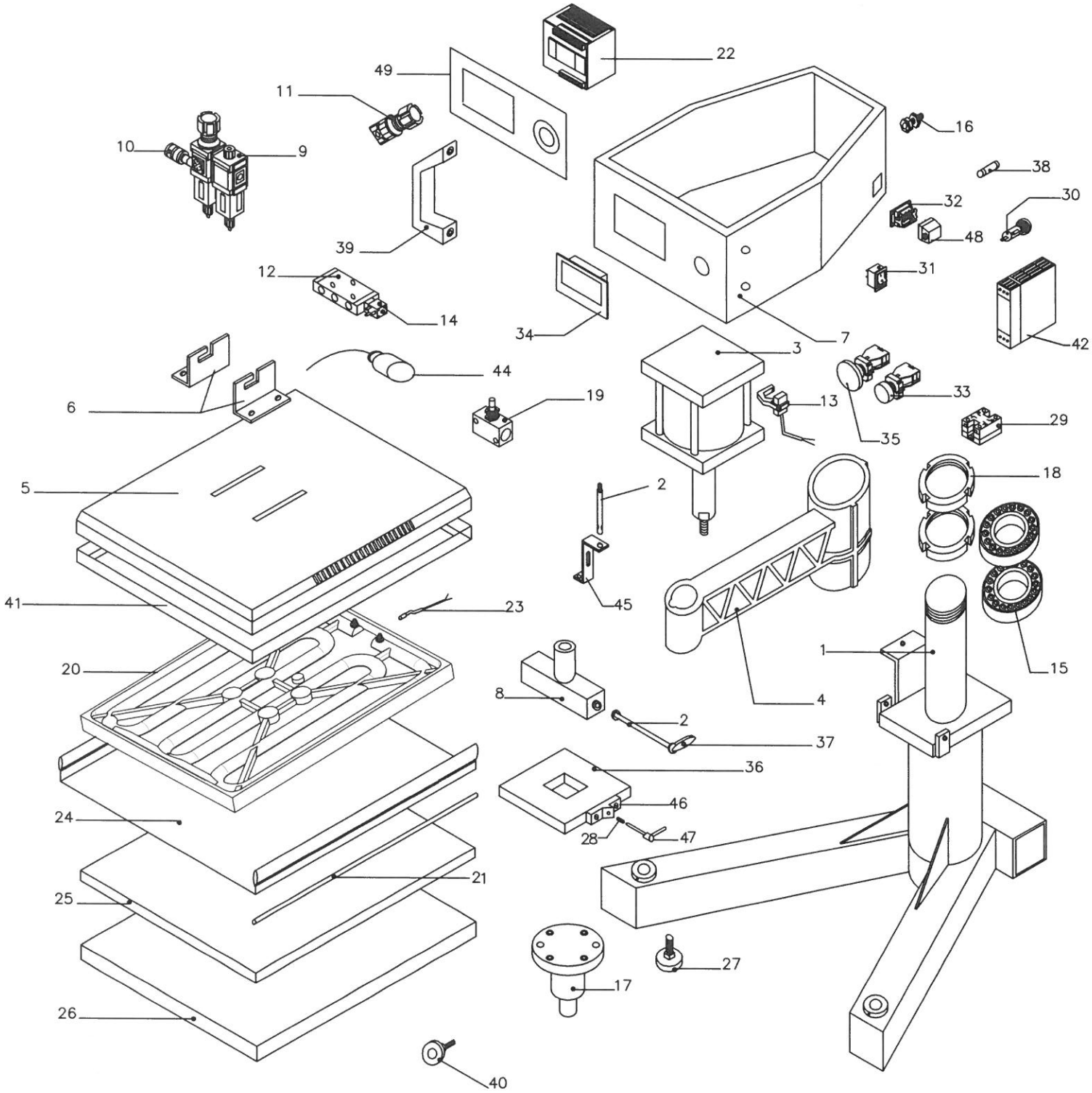
SPARE PARTS
MOD. TS3P

POS.	COD.	DESCRIZIONE
01	A 401	BASAMENTO
02	A 510	PERNO CON DISCO
03	P 107	PISTONE
04	C 106-05	BRACCIO
05	A 405(36)	COPERTINA
05	A 505(50)	COPERTINA
06	A 508	STAFFE DX SX
07	A 205	CARTER STRUM.
08	C 807	PERNO PRESSIONE
09	P 133	GRUPPO F.R.L.
10	P 113	VAL. MANICOTTO
11	P 183	REG. PRESSIONE
12	P 185	ELET. VALVOLA
13	P 181	MICRO MAGNETICO
14	P 204	BOBINA 24V
15	C 119-05	CUSCINETTI
16	C 605	PRESSACAVO
17	A 544	SUPP. TAV. MOLL.
18	C 120	GHIERE
19	P 125	REG. VELOCITA'
20	A 1039(38)	PIASTRA TERMICA
20	A 1040(50)	PIASTRA TERMICA
21	C 104	BACCHETTA TEFLON
22	B 992	TOUCHSCREEN MAGELIS
23	S 060	PT 100
24	C 102(36)	TEFLON
24	C 103(50)	TEFLON
25	C 201(36)	SILICONE
25	C 202(50)	SILICONE
26	A 101(36)	TAV. MOLL.
26	A 201(50)	TAV. MOLL.
27	C 116-05	PIEDINO
28	A 967	MOLLA LEVA7BLOCCO
29	S 194	RELE' STATICO 25A
30	C 647-05	PORTA FUSIBILE
31	B 113	INTERUTTORE
32	S 507	CONNETTORE FEMMINA
33	B 809	PULS. START
34	B 993	CPU SCH.TM221CE16T
35	B 810-05	STOP A FUNGO
36	A 245	SUPP. INTERCAMBIABILE
37	C 150	LEVA BLOCCO P.T.\ST.
38	C 648-16	FUSIBILE
39	C 576	MANIGLIA SPOSTAM.
40	A 546	VOLANTINO TAV. MOLL.
41	S 318	PRESSOSTATO
42	B 995	SWITCHING 2.5A 24V
43	C 766	SUPPORTO MICRO
44	C 767	MAGNETE
45	C 768	SUPPORTO MAGNETE
46	A 965	SUPP. LEVA/BLOCCO
47	A 966	LEVA BLOCCO P.INT.
48	S 508	CONNETTORE MASCHIO
49	S 509	FRONT.LEXAN TOUCHSCR.

SPARE PARTS
MOD. TS5P



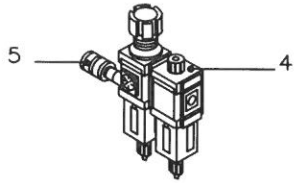
POS.	COD.	DESCRIZIONE
01	A 401	BASAMENTO
02	A 510	PERNO CON DISCO
03	P 107	PISTONE
04	C 106-05	BRACCIO
05	A 405(36)	COPERTINA
05	A 505(50)	COPERTINA
06	A 508	STAFFE DX SX
07	A 205	CARTER STRUM.
08	C 807	PERNO PRESSIONE
09	P 133	GRUPPO F.R.L.
10	P 113	VAL. MANICOTTO
11	P 183	REG. PRESSIONE
12	P 185	ELET. VALVOLA
13	P 181	MICRO MAGNETICO
14	P 204	BOBINA 24V
15	C 119-05	CUSCINETTI
16	C 605	PRESSACAVO
17	A 544	SUPP. TAV. MOLL.
18	C 120	GHIERE
19	P 125	REG. VELOCITA'
20	A 1039(38)	PIASTRA TERMICA
20	A 202(50)	PIASTRA TERMICA
21	C 104	BACCHETTA TEFLON
22	B 993	CPU SCHNEIDER TM221CE16T
23	S 060	PT100
24	C 102(36)	TEFLON
24	C 103(50)	TEFLON
25	C 201(36)	SILICONE
25	C 202(50)	SILICONE
26	A 101(36)	TAV. MOLL.
26	A 201(50)	TAV. MOLL.
27	C 116-05	PIEDINO
28	A 967	MOLLA LEVA7BLOCCO
29	S 194	RELE' STATICO 25A
30	C 647-05	PORTA FUSIBILE
31	B 113	INTERUTTORE
32	S 507	CONNETTORE FEMMINA
33	B 809	PULS. START
34	B 992	TOUCHSCREEN MAGELIS
35	B 810-05	STOP A FUNGO
36	A 245	SUPP. INTERCAMBIABILE
37	C 150-05	LEVA BLOCCO P.T.\ST.
38	C 648-16	FUSIBILE
39	C 576	MANIGLIA SPOSTAM.
40	A 546	VOLANTINO TAV. MOLL.
41	P 110	MANOMETRO
42	B 995	SWITCHING 2.5A 24V
43	C 766	SUPPORTO MICRO
44	S 318	PRESSOSTATO
45	C 768	SUPPORTO MAGNETE
46	A 965	SUPP. LEVA/BLOCCO
47	A 966	LEVA BLOCCO P.INT.
48	S 508	CONNETTORE MASCHIO
49	S 509	FRONT.LEXAN TOUCHSC.

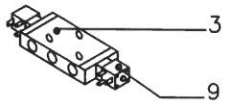


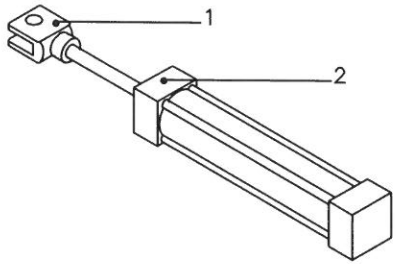
SPARE PARTS
MOD. TS5PA

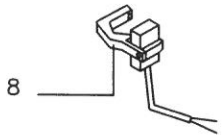
POS.	COD.	DESCRIZIONE
01	A 401	BASAMENTO
02	A 510	PERNO CON DISCO
03	P 107	PISTONE
04	C 106-05	BRACCIO
05	A 405(36)	COPERTINA
05	A 505(50)	COPERTINA
06	A 508	STAFFE DX SX
07	A 205	CARTER STRUM.
08	C 807	PERNO PRESSIONE
09	P 133	GRUPPO F.R.L.
10	P 113	VAL. MANICOTTO
11	P 183	REG. PRESSIONE
12	P 185	ELET. VALVOLA
13	P 181	MICRO MAGNETICO
14	P 204	BOBINA 24V
15	C 119-05	CUSCINETTI
16	C 605	PRESSACAVO
17	A 544	SUPP. TAV. MOLL.
18	C 120	GHIERE
19	P 125	REG. VELOCITA'
20	A 1039(38)	PIASTRA TERMICA
20	A 1040(50)	PIASTRA TERMICA
21	C 104	BACCHETTA TEFLON
22	B 993	CPU SCHNEIDER TM221CE16T
23	S 060	PT100
24	C 102(36)	TEFLON
24	C 103(50)	TEFLON
25	C 201(36)	SILICONE
25	C 202(50)	SILICONE
26	A 101(36)	TAV. MOLL.
26	A 201(50)	TAV. MOLL.
27	C 116-05	PIEDINO
28	A 967	MOLLA LEVA7BLOCCO
29	S 194	RELE' STATICO 25A
30	C 647-05	PORTA FUSIBILE
31	B 113	INTERUTTORE
32	S 505	CONNETTORE FEMMINA
33	B 809	PULS. START
34	B 992	TOUCHSCREEN MAGELIS
35	B 810-05	STOP A FUNGO
36	A 245	SUPP. INTERCAMBIABILE
37	C 150-05	LEVA BLOCCO P.T.\ST.
38	C 648-16	FUSIBILE
39	C 576	MANIGLIA SPOSTAM.
40	A 546	VOLANTINO TAV. MOLL.
41	A 230	BARRIERA SICUREZZA
42	B 995	SWITCHING 2.5A 24V
43	C 766	SUPPORTO MICRO
44	S 318	PRESSOSTATO
45	C 768	SUPPORTO MAGNETE
46	A 965	SUPP. LEVA/BLOCCO
47	A 966	LEVA BLOCCO P.INT.
48	S 506	CONNETTORE MASCHIO
49	S 509	FRONT.LEXAN TOUCHSC.

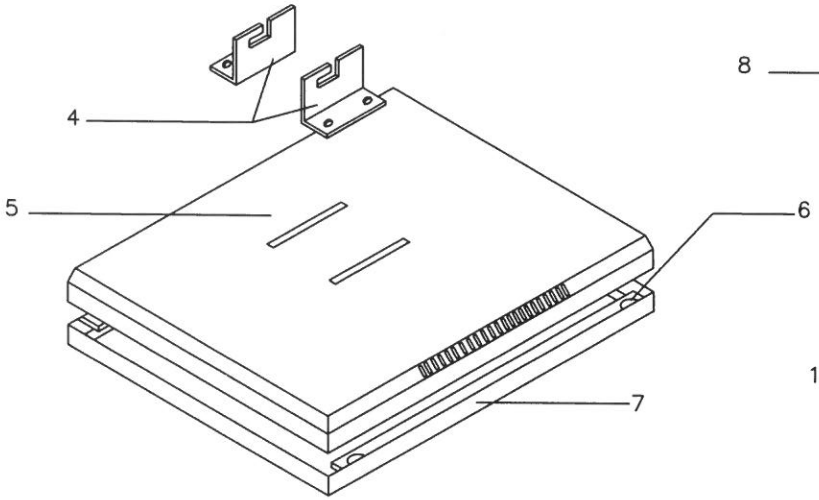
SPARE PARTS
MOD. TS5 PA

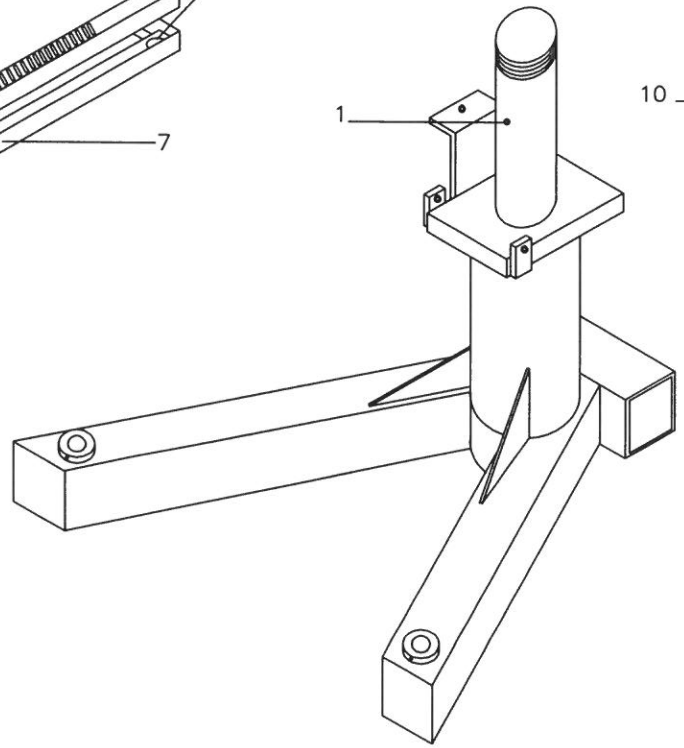


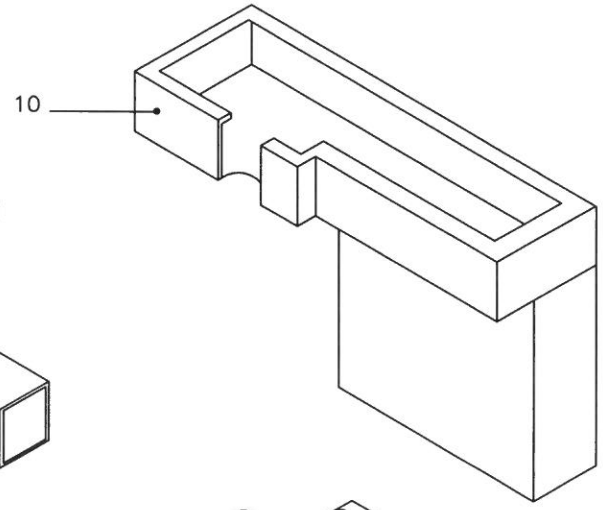


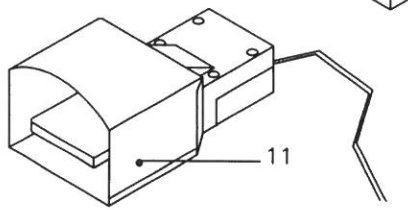












POS.	COD.	DESCRIZIONE
01	P 171	FORCELLA CIL.
02	P 141	CILINDRO SPOST.
03	P 145	ELETTROVALVOLA
04	P 111	GRUPPO F.L.R.
05	P 113	VALVOLA MANICOTTO
06	A 231	SUPP. BARRIERA SIC.
07	A 230	BARRIERA SICUREZZA
08	P 181	MICRO MAGNETICO
09	P 204	BOBINA 24V
10	A 229	CARTER CIL. MOVIM.
11	B 136	PEDALE START

TABELLA RIASSUNTIVA
QUADRO ELETTRICO

TENSIONE NOMINALE 400V
FREQUENZA 50HZ
POTENZE E CORRENTI:
LINEE ALIMENTAZIONE 400V
STRUTTURA DEL QUADRO
GRADO DI PROTEZIONE MINIMO IP55

LEGENDA LETTURA SCHEMA DIAGRAM READYNG KEY	
SIGLA COMPONENTI COMPONENTS INITIALS ESEMPIO EXAMPLE KA1.1 TIPO N°PAGINA PROGRESSIVO TYPE PAGE N° PROGRESSIVE	N°FILO WIRE N° ESEMPIO EXAMPLE 1.1 N°PAGINA SCHEMA N°FILO DIAGRAM PAGE N° WIRE N°

TABELLA COLORI CAVI ALL'INTERNO QUADRO ELETTRICO COULOR TABLE FOR CABLES INSIDE ELETTRIC BOARD	
COLORE FILO WIRE COLOUR	DESCRIZIONE DESCRIPTION
NERO BLACK	CIRCUITI DI POTENZA POWER CIRCUITS
ROSSO RED	CIRCUITI COMANDO AUSILIARI A.C. AC AUXILIARY CONTROL CIRCUITS
GIALLO–VERDE YELLOW–GREEN	CONDUTTORI PROTEZIONE A TERRA EARTH WIRES

TENSIONE ESERCIZIO	400V	PROTEZIONE IP55	NORME CE
TENSIONE COMANDI	24V DC		
TENSIONE SEGNALI			
			TRANSMATIC
			MOD.TS2P TS3P TS5P TS5PA 74P 100/70
25/01/16		AP	PAGE 0/18
DATA		FIRMA	NEXT PAGE 1

GENERAL SWITCH
QS1.1 3X

220V

R

N

R

N

R

N

R

N

U1.1
2.5A

230V

24V

FU1.1
12.5A

RES1.1

CN1.1

PT1.1

HEAT PLATE
1X2200W 3P
1X2700W 5P

PT100

SOLID STATE RELE'
25A

OUT PUT

IMPUT

GS1.1

0V

+24

0V

Q0

+

−

2/F1

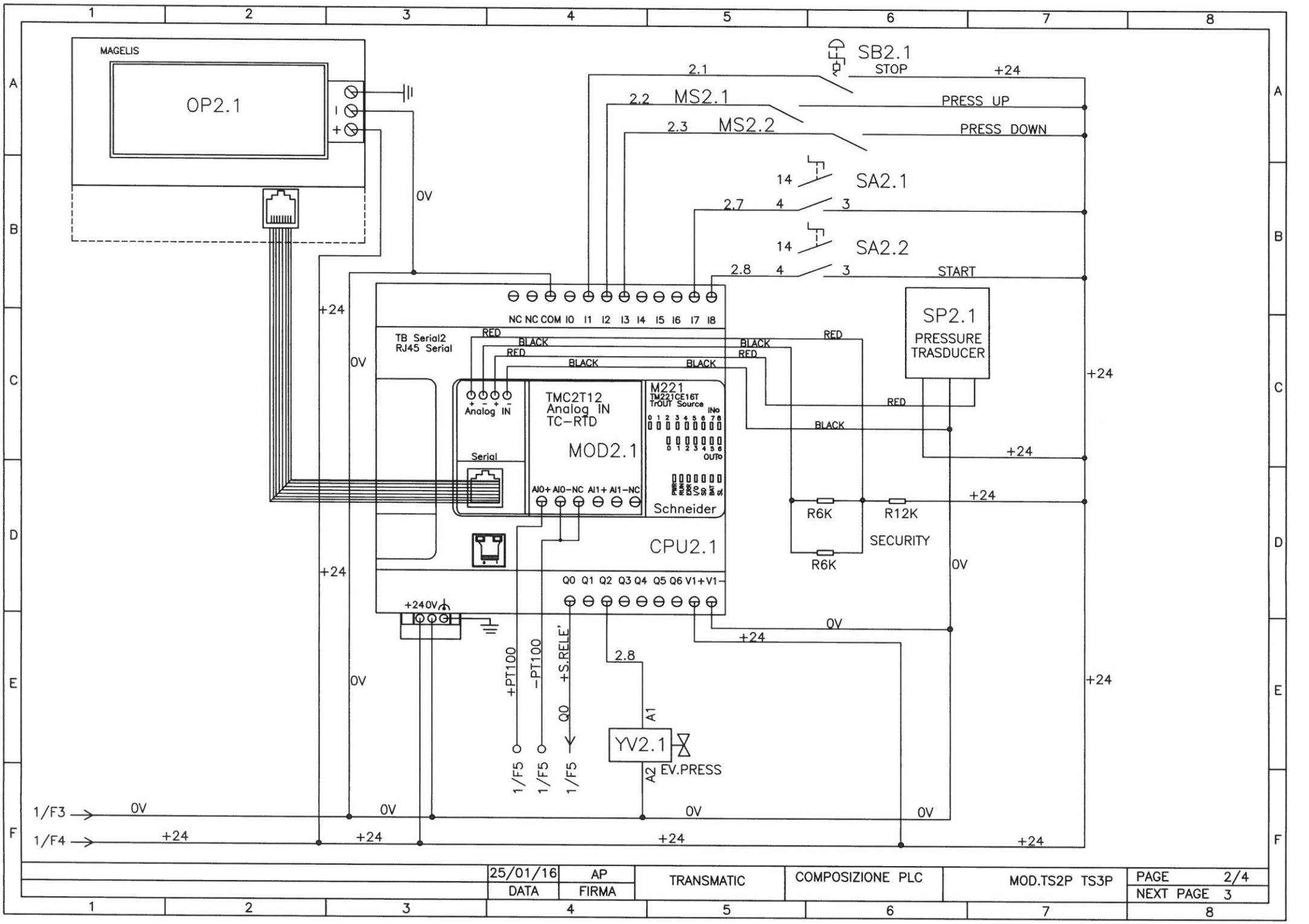
2/F1

2/E4

2/E4

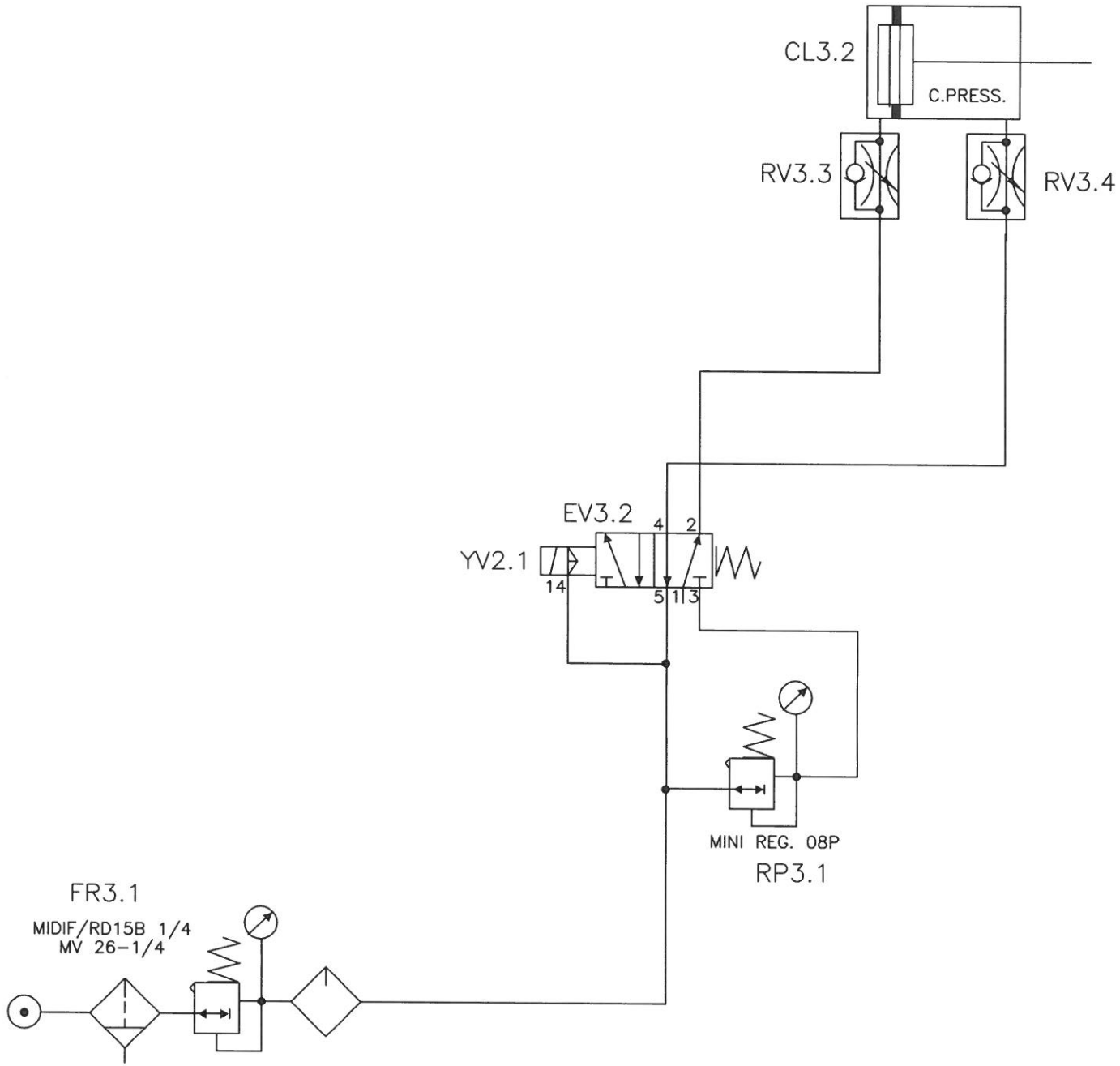
2/E4

	25/01/16	AP	TRANSMATIC	MOD.TS2P TS3P	PAGE 1/4	
	DATA	FIRMA			NEXT PAGE 2	



	25/01/16	AP	TRANSMATIC	COMPOSIZIONE PLC	MOD.TS2P TS3P	PAGE 2/4
	DATA	FIRMA				NEXT PAGE 3

PNEUMATIC DIAGRAM



25/01/16	AP	PNEUMATIC DIAGRAM	MOD.TS2P TS3P	PAGE	3/4
DATA	FIRMA			NEXT PAGE	4

LEGEND MOD.TS2P TS3P

TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION	TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION
QS	1	.1	POWER SWITCH				
U	1	.1	SWITCHING 2.5A 24V				
GS	2	.1	S. STATIC RELAY 25A				
FU	2	.1	FUSE 12.5A				
CN	1	.1	CONNETTORE				
PT	1	.1	PT100 TERMORESISTENZA				
RES	1	.1	HEAT PLATE				
OP	2	.1	TOUCHSCEEN MAGELIS				
CPU	2	.1	CPU SCHEIDER TM221CE16T				
MOD	2	.1	MOD. TMC2T12 ANALOG IN				
SA	2	.1	P. START SWITCH				
SB	1	.1	STOP SWITCH				
MS	2	.1	F.C. PRESS UP				
MS	2	.2	F.C. PRESS DOWN				
MS	2	.3	F.C. PRESS RIGHT				
MS	2	.4	F.C. PRESS LEFT				
SP	2	.1	DIGITAL PRESSOSTAT				
YV	2	.1	BOBINVE03-E-S-6-24V E.V. PRESS				
YV	2	.2	BOBINVE03-E-S-6-24V E.V. RIGHT				
YV	2	.3	BOBINVE03-E-S-6-24V E.V. LEFT				
CL	3	.1	CIL.52M-50-20-160				
CL	3	.2	CIL.COD 1200				
RV	3	.1	REG.SPEED 7718/0813				
RV	3	.2	REG.SPEED 7718/0813				
RV	3	.3	REG.SPEED 7718/0813				
RV	3	.4	REG.SPEED 7718/0813				
EV	3	.1	VGD15-ER-ER-5				
EV	3	.2	VGD15-EA-S-5				
RP	3	.1	MINI REG 06P				
FR	3	.1	AIR PREP 20 CG				

TABELLA RIASSUNTIVA
QUADRO ELETTRICO

TENSIONE NOMINALE 400V
FREQUENZA 50HZ
POTENZE E CORRENTI:
LINEE ALIMENTAZIONE 400V
STRUTTURA DEL QUADRO
GRADO DI PROTEZIONE MINIMO IP55

LEGENDA LETTURA SCHEMA DIAGRAM READYNG KEY	
SIGLA COMPONENTI COMPONENTS INITIALS ESEMPIO EXAMPLE KA1.1 TIPO N°PAGINA PROGRESSIVO TYPE PAGE N° PROGRESSIVE	N°FILO WIRE N° ESEMPIO EXAMPLE 1.1 N°PAGINA SCHEMA N°FILO DIAGRAM PAGE N° WIRE N°

TABELLA COLORI CAVI ALL'INTERNO QUADRO ELETTRICO COULOR TABLE FOR CABLES INSIDE ELETTRIC BOARD	
COLORE FILO WIRE COLOUR	DESCRIZIONE DESCRIPTION
NERO BLACK	CIRCUITI DI POTENZA POWER CIRCUITS
ROSSO RED	CIRCUITI COMANDO AUSILIARI A.C. AC AUXILIARY CONTROL CIRCUITS
GIALLO–VERDE YELLOW–GREEN	CONDUTTORI PROTEZIONE A TERRA EARTH WIRES

TENSIONE ESERCIZIO	400V	PROTEZIONE IP55	NORME CE
TENSIONE COMANDI	24V DC		
TENSIONE SEGNALI			
			TRANSMATIC
			MOD.TS2P TS3P TS5P TS5PA 74P 100/70
25/01/16		AP	PAGE 0/18
DATA		FIRMA	NEXT PAGE 1

GENERAL SWITCH
QS1.1 3x

220V

R

N

R

N

R

N

R

N

230V

U1.1
2.5A

24V

FU1.1
12.5A

RES1.1

1 1
2 2
3 3
4 4

CN1.1

PT1.1

HEAT PLATE
1X2200W 3P
1X2700W 5P

PT100

SOLID STATE RELE'
25A

1 2
OUT PUT
IMPUT
– +

GS1.1

0V

+24

0V

Q0

+

–

2/F1

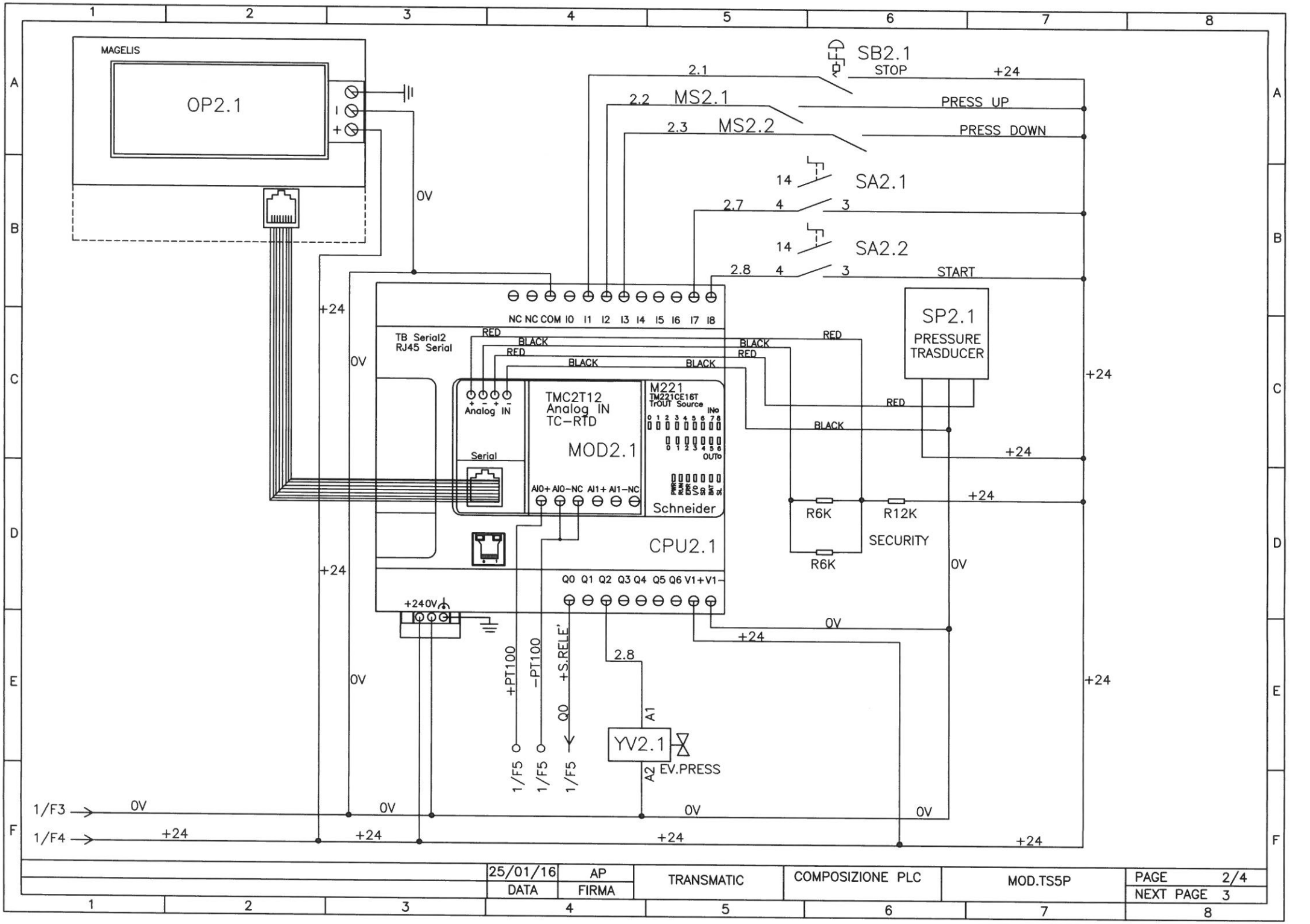
2/F1

2/E4

2/E4

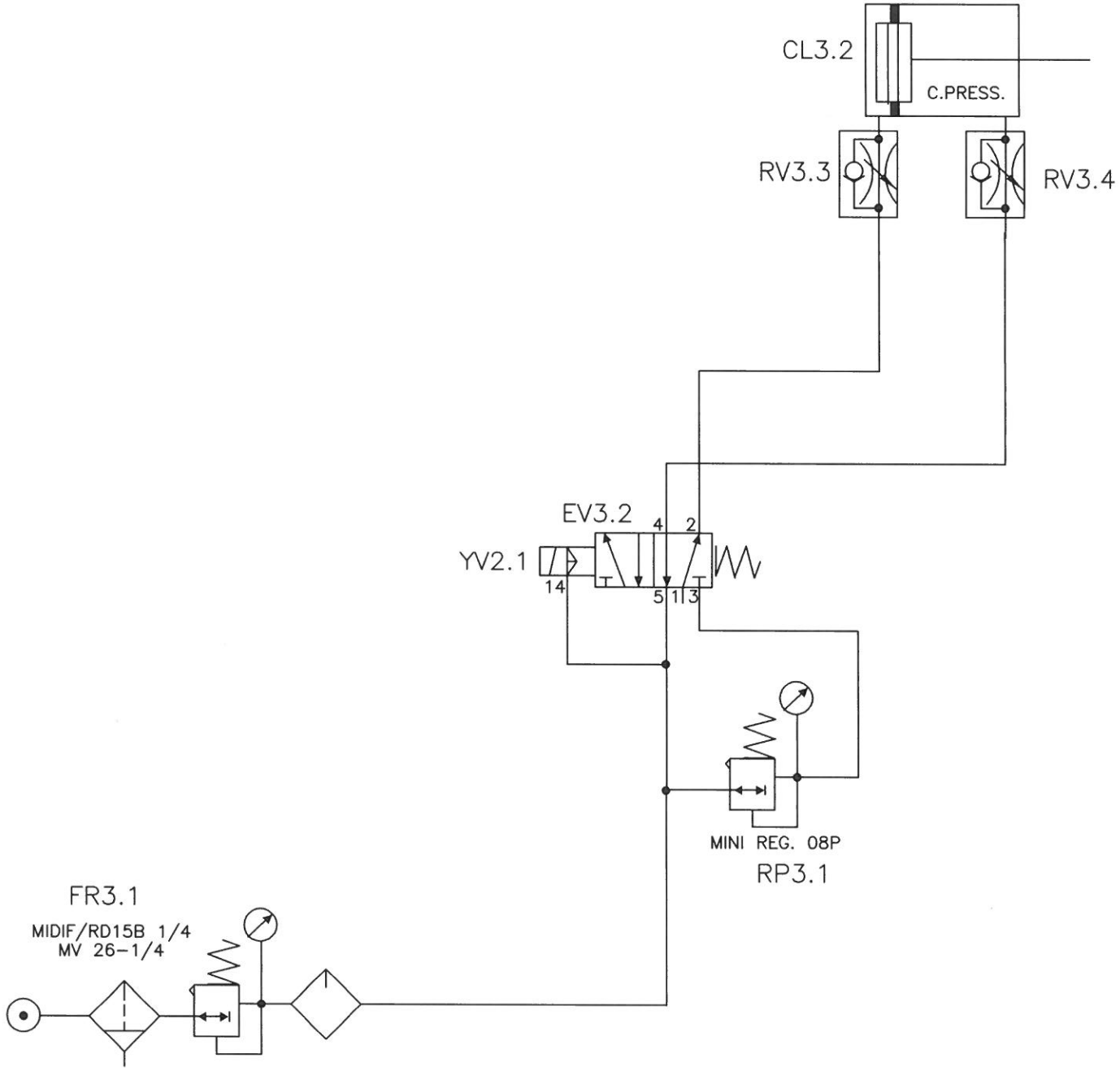
2/E4

	25/01/16	AP	TRANSMATIC	MOD.TS5P	PAGE 1/4
	DATA	FIRMA			NEXT PAGE 2



	25/01/16	AP	TRANSMATIC	COMPOSIZIONE PLC	MOD.TS5P	PAGE 2/4
	DATA	FIRMA				NEXT PAGE 3

PNEUMATIC DIAGRAM



	25/01/16	AP	PNEUMATIC DIAGRAM	MOD.TS5P	PAGE 3/4
	DATA	FIRMA			NEXT PAGE 4

LEGEND MOD.TS5P

TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION	TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION
QS	1	.1	POWER SWITCH				
U	1	.1	SWITCHING 2.5A 24V				
GS	2	.1	S. STATIC RELAY 25A				
FU	2	.1	FUSE 12.5A				
CN	1	.1	CONNETTORE				
PT	1	.1	PT100 TERMORESISTENZA				
RES	1	.1	HEAT PLATE				
OP	2	.1	TOUCHSCEEN MAGELIS				
CPU	2	.1	CPU SCHEIDER TM221CE16T				
MOD	2	.1	MOD. TMC2T12 ANALOG IN				
SA	2	.1	P. START SWITCH				
SB	1	.1	STOP SWITCH				
MS	2	.1	F.C. PRESS UP				
MS	2	.2	F.C. PRESS DOWN				
MS	2	.3	F.C. PRESS RIGHT				
MS	2	.4	F.C. PRESS LEFT				
SP	2	.1	DIGITAL PRESSOSTAT				
YV	2	.1	BOBINVE03-E-S-6-24V E.V. PRESS				
YV	2	.2	BOBINVE03-E-S-6-24V E.V. RIGHT				
YV	2	.3	BOBINVE03-E-S-6-24V E.V. LEFT				
CL	3	.1	CIL.52M-50-20-160				
CL	3	.2	CIL.COD 1200				
RV	3	.1	REG.SPEED 7718/0813				
RV	3	.2	REG.SPEED 7718/0813				
RV	3	.3	REG.SPEED 7718/0813				
RV	3	.4	REG.SPEED 7718/0813				
EV	3	.1	VGD15-ER-ER-5				
EV	3	.2	VGD15-EA-S-5				
RP	3	.1	MINI REG 06P				
FR	3	.1	AIR PREP 20 CG				

TABELLA RIASSUNTIVA
QUADRO ELETTRICO

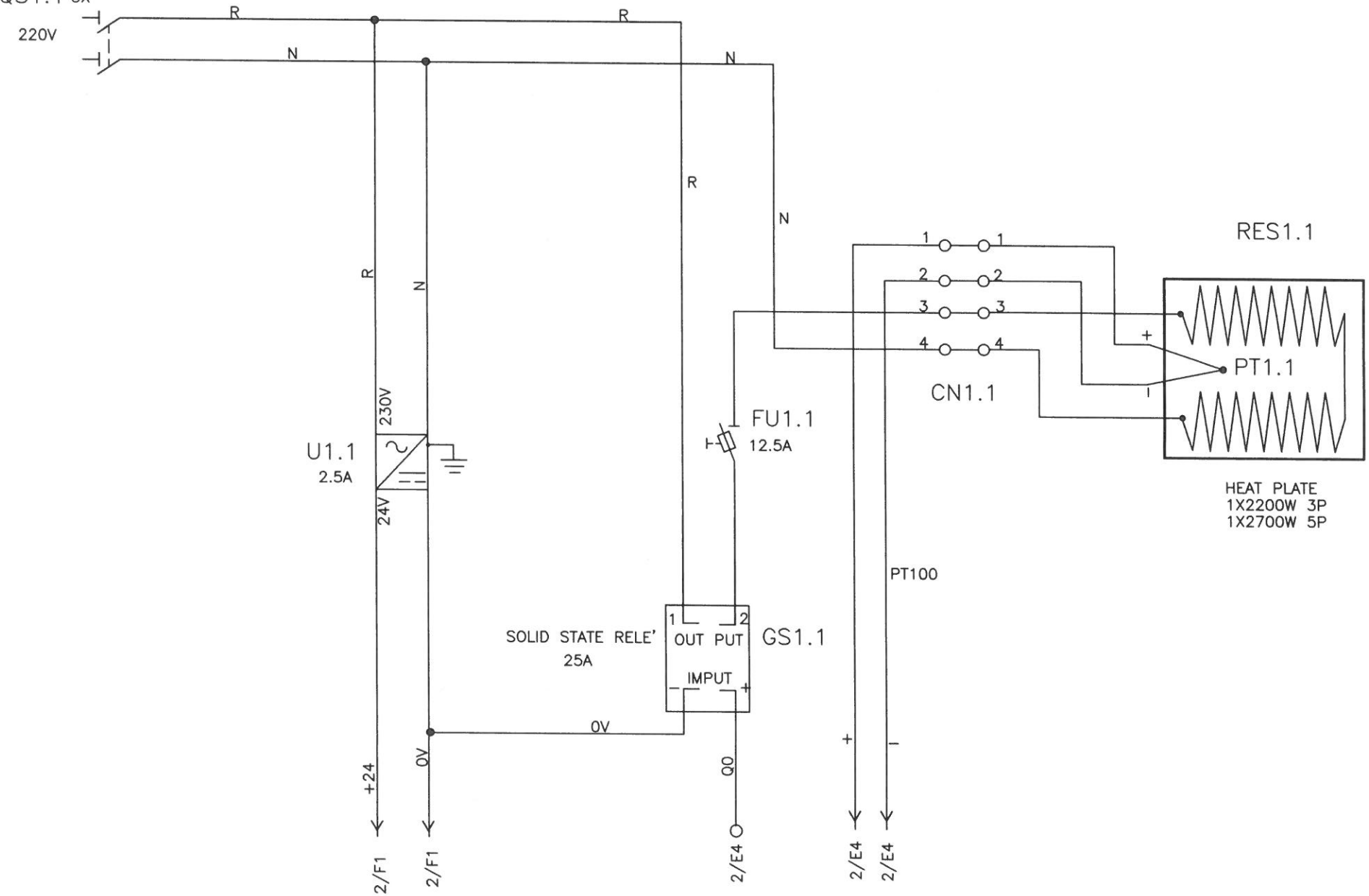
TENSIONE NOMINALE 400V
FREQUENZA 50HZ
POTENZE E CORRENTI:
LINEE ALIMENTAZIONE 400V
STRUTTURA DEL QUADRO
GRADO DI PROTEZIONE MINIMO IP55

LEGENDA LETTURA SCHEMA DIAGRAM READYNG KEY	
SIGLA COMPONENTI COMPONENTS INITIALS ESEMPIO EXAMPLE KA1.1 TIPO N°PAGINA PROGRESSIVO TYPE PAGE N° PROGRESSIVE	N°FILO WIRE N° ESEMPIO EXAMPLE 1.1 N°PAGINA SCHEMA N°FILO DIAGRAM PAGE N° WIRE N°

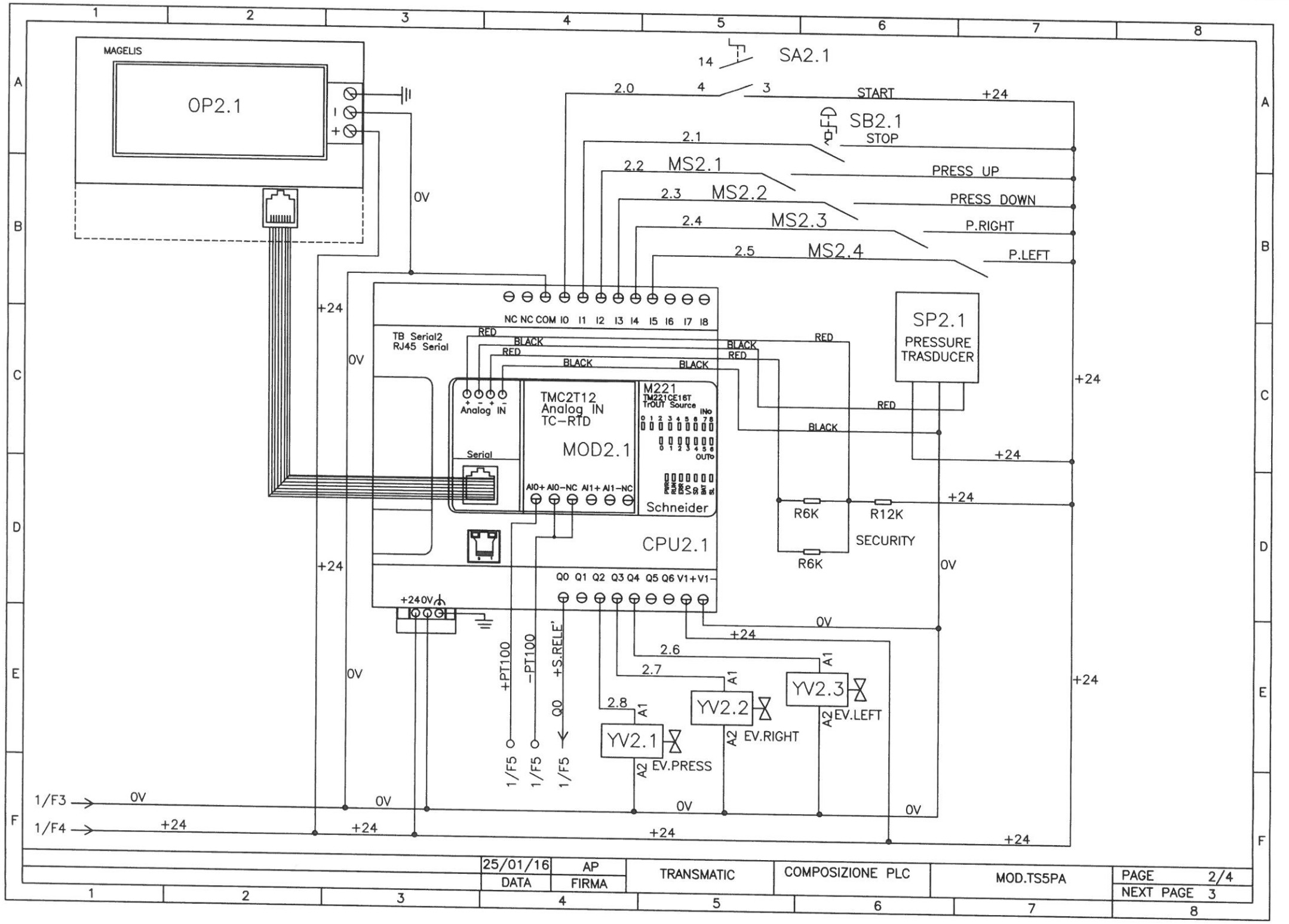
TABELLA COLORI CAVI ALL'INTERNO QUADRO ELETTRICO COULOR TABLE FOR CABLES INSIDE ELETTRIC BOARD	
COLORE FILO WIRE COLOUR	DESCRIZIONE DESCRIPTION
NERO BLACK	CIRCUITI DI POTENZA POWER CIRCUITS
ROSSO RED	CIRCUITI COMANDO AUSILIARI A.C. AC AUXILIARY CONTROL CIRCUITS
GIALLO–VERDE YELLOW–GREEN	CONDUTTORI PROTEZIONE A TERRA EARTH WIRES

TENSIONE ESERCIZIO	400V	PROTEZIONE IP55	NORME CE
TENSIONE COMANDI	24V DC		
TENSIONE SEGNALI			
			TRANSMATIC
			MOD.TS2P TS3P TS5P TS5PA 74P 100/70
25/01/16		AP	PAGE 0/18
DATA		FIRMA	NEXT PAGE 1

GENERAL SWITCH
QS1.1 3X



	25/01/16	AP	TRANSMATIC	MOD.TS5PA	PAGE 1/4
	DATA	FIRMA			NEXT PAGE 2


MAGELIS
OP2.1
SA2.1
14
2.0
4
3
START
+24
SB2.1
STOP
2.1
2.2
MS2.1
PRESS UP
2.3
MS2.2
PRESS DOWN
2.4
MS2.3
P.RIGHT
2.5
MS2.4
P.LEFT
0V
+24
NC NC COM I0 I1 I2 I3 I4 I5 I6 I7 I8
TB Serial2
RJ45 Serial
RED
BLACK
SP2.1
PRESSURE
TRASDUCER
Analog IN
Serial
TMC2T12
Analog IN
TC-RTD
MOD2.1
M221
TM221CE16T
TrOUT Source
OUTo
AI0+ AI0-NC AI1+ AI1-NC
Schneider
CPU2.1
R6K
R12K
SECURITY
Q0 Q1 Q2 Q3 Q4 Q5 Q6 V1+ V1-
+240V
+PT100
-PT100
+S.RELE'
Q0
1/F5
2.6
2.7
2.8
A1
A2
YV2.1
EV.PRESS
YV2.2
EV.RIGHT
YV2.3
EV.LEFT
1/F3
1/F4
25/01/16
DATA
AP
FIRMA
TRANSMATIC
COMPOSIZIONE PLC
MOD.TS5PA
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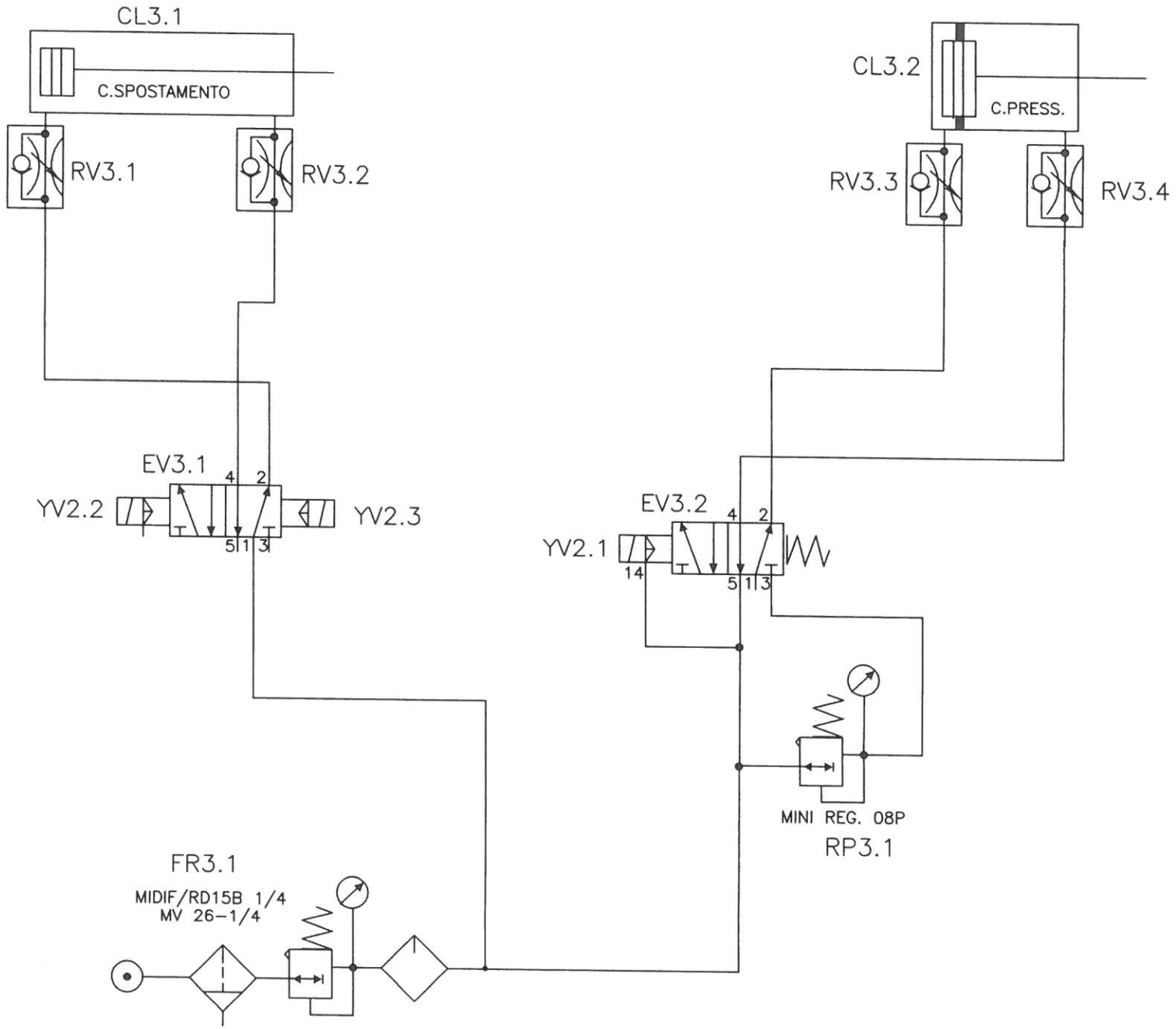
NEXT PAGE 3

PNEUMATIC DIAGRAM



25/01/16	AP	PNEUMATIC DIAGRAM	MOD.TS5PA	PAGE 3/4	
DATA	FIRMA			NEXT PAGE 4	

LEGEND MOD.TS5PA

TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION	TIPO TYPE	N°PAG. PAGE N°	PROG. SEQ.	DESCRIZIONE DESCRIPTION
QS	1	.1	POWER SWITCH				
U	1	.1	SWITCHING 2.5A 24V				
GS	2	.1	S. STATIC RELAY 25A				
FU	2	.1	FUSE 12.5A				
CN	1	.1	CONNETTORE				
PT	1	.1	PT100 TERMORESISTENZA				
RES	1	.1	HEAT PLATE				
OP	2	.1	TOUCHSCEEN MAGELIS				
CPU	2	.1	CPU SCHEIDER TM221CE16T				
MOD	2	.1	MOD. TMC2T12 ANALOG IN				
SA	2	.1	P. START SWITCH				
SB	1	.1	STOP SWITCH				
MS	2	.1	F.C. PRESS UP				
MS	2	.2	F.C. PRESS DOWN				
MS	2	.3	F.C. PRESS RIGHT				
MS	2	.4	F.C. PRESS LEFT				
SP	2	.1	DIGITAL PRESSOSTAT				
YV	2	.1	BOBINVE03-E-S-6-24V E.V. PRESS				
YV	2	.2	BOBINVE03-E-S-6-24V E.V. RIGHT				
YV	2	.3	BOBINVE03-E-S-6-24V E.V. LEFT				
CL	3	.1	CIL.52M-50-20-160				
CL	3	.2	CIL.COD 1200				
RV	3	.1	REG.SPEED 7718/0813				
RV	3	.2	REG.SPEED 7718/0813				
RV	3	.3	REG.SPEED 7718/0813				
RV	3	.4	REG.SPEED 7718/0813				
EV	3	.1	VGD15-ER-ER-5				
EV	3	.2	VGD15-EA-S-5				
RP	3	.1	MINI REG 06P				
FR	3	.1	AIR PREP 20 CG				