

Instruction manual

Heat press

SCHULZE Ball Press

1. Introduction

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1.2 Warning pictograms on the machine



ATTENTION! MOVING ELEMENTS

ACHTUNG! BEWEGLICHE TEILE
UWAGA! RUCHOME ELEMENTY



ATTENTION! HAND CRUSH HAZARD

ACHTUNG! QUETSCHGEFAHR DER HAND
UWAGA! NIEBEZPIECZEŃSTWO
ZGNIECENIA DŁONI



ATTENTION! DANGER

ACHTUNG! GEFAHR
UWAGA! NIEBEZPIECZEŃSTWO



ATTENTION! HIGH VOLTAGE

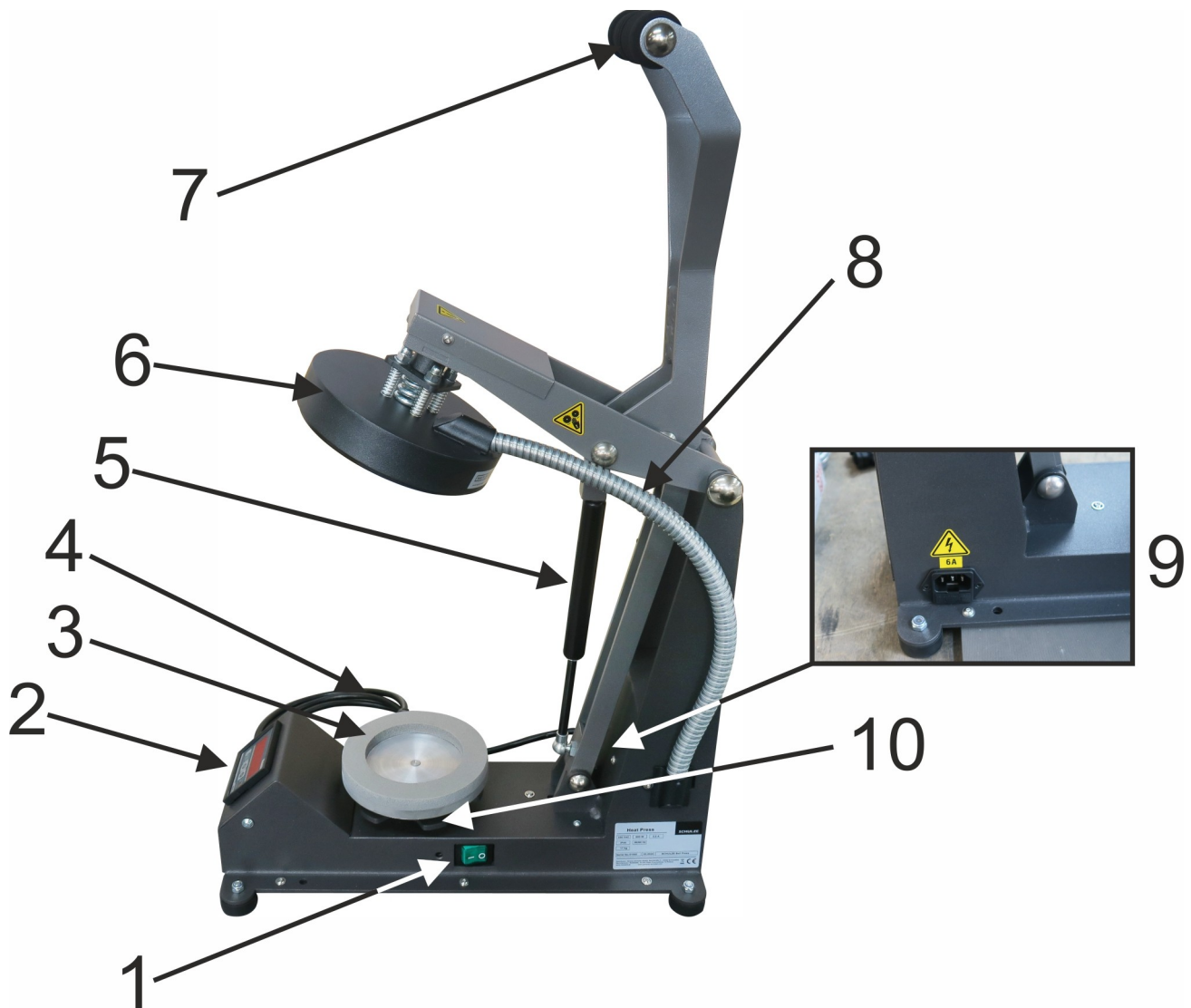
ACHTUNG! HOCHSPANNUNG
UWAGA! WYSOKIE NAPIĘCIE



ATTENTION! HOT SURFACE

ACHTUNG! HEIÙE OBERFLÄCHE
UWAGA! GORĄCA POWIERZCHNIA

1.3 Construction of the machine



- | | |
|---------------------------------|-------------------------------|
| 1. Main switch | 6. Heat plate |
| 2. Electronic device | 7. Pressing arm |
| 3. Base plate with silicon foam | 8. Spiral hose |
| 4. Power supply cable | 9. Main fuse |
| 5. Gas spring 150 N | 10. Pressure force regulation |

1.4 Technical data

Outside dimensions :42 x 18 x 40 cm
Working area:Ø 15 cm
Weight:..... 15 kg
Power supply.....230VAC
Fuse 6A
Max. pressure.....300 kg
Temperature range.....0 - 220 °C
Heating time..... 1sek – 99:59 Min
Noise..... The Machine generates noise less than 70dB A

1.5 Safety arrangements of the heat press

Safety arrangements to assure a safety working procedure on the heat press.

Main fuse 6A

The main fuse 6A is situated over the main switch. In case of overcharge, the main fuse prevents the heat press from getting damaged. If the fuse has been activated, it has to be replaced. The instruction for replacing the main fuse is in chapter 4.3.

Temperature fuse

The temperature fuse is situated on the heat plate and cuts the power supply, if the temperature gets till ~260°C. If the fuse cuts the net, the temperature will decrease about 90°C and will grow again. It is needed to change the temperature fuse as soon as possible.

Acoustic signal

3 seconds before the heatpressing sequence is finished, an alarm sound beeps loudly. It warns of the ending of pressing.

1.5 Safety arrangements at workplace

Set-up and installation

Set-up and installation of the device has to be done under supervision of an authorized person by the company owner. **Very important!** The machine may be connected only to an installation provided with a protection against electric shock.

Testing the machine

After the correct installation of the machine it is important to ensure that the machine works properly, is not damaged after the transportation and has no safety defects. The testing can only be done by the employer or other authorized persons. It is mandatory to guarantee a correct installation and safe usage of the machine. After receiving the machine, check the packaging. The testing should be protocolled. If any irregularities regarding functionality or safety are found during the testing, these has to be noted and reported to manufacturer or distributor in written form within 7 days. Until the clarification the machine can not be used.

Information and education

According to §81 the industrial law and § 14 employment protection law (german law), the advice from the producer and general safety arrangements at the workplace, the employer has to make arrangements to give all information about the safety, function and the range of application to the user. In particular the user needs to be acquainted with the complete manual and be explicitly informed of the dangers of working with the machine. The details have to be explained in a coherent form and language. Every user is obligated to a safe usage of the machine and to read the manual instruction before each operator starts working with the machine.


Safety distance and ventilation

The press has to be installed at a place which gives enough space on both sides to put the material on. The space in front of the press has to be wide enough to let nothing disturb the user at work. Using the press with certain materials may create a strong smell. That's why the user should evaluate the need for a ventilation system at the workplace.

Other risks and dangers

In order to ensure optimized safety, please read the manual instruction precisely. The machine should only be used by trained personal after they noticed this manual. Only one person is allowed to work on the machine at the time. The machine has to be under supervision the whole time, when it is working. Supervise the machine till it is switched off and the plug is pulled out. The device is equipped with a plug. Special attention should be paid to the socket and presence of the connected safety circuit inside. **Very important!** The machine may be connected only to an installation provided with a protection against electric shock. There are some movable elements on the machine, which can cause injuries of hands or fingers. This parts of the machine have a special mark. Every adjustment need to be done when the machine is switched off. Using the press with certain materials may create a strong smell. That's why the operator should evaluate the need for a ventilation system at the workplace. The type of ventilation should be used as needed and depends of the size of the room and used inks. The machine has to be installed at a place with enough space around the machine. The space in front of the machine has to be wide enough. Nothing can disturb the operator at work. Do not install the machine in doors, floors or busy places. By using different kind of technologies, it is recommended to use personal protective equipment. The plug has to be pulled out of the power supply, while maintenance. All wires should be put in a safe way, to make sure they will not pose a threat for the person working at the machine or passing it. Above information has been worked out in accordance with the standards PN-EN 12100:2012.

1.7 Environmental protection

The packaging of the device must be disposed of in accordance with the applicable rules. Do not dispose of the equipment marked with an  together with your household waste. No longer needed machines may be returned to the manufacturer or disposed of in an environmentally friendly manner by means of appropriate disposal systems.

2. Initiation

2.1 Notes regarding transportation

The machine is covered with a cardboard for transport. Right after receiving you should check, if the cardboard and the machine are in good condition without damages. Do this just after receiving from the transportation company the goods and in accompany of a responsible person. Unscrew the two fixing screws from the transportation plywood. Later on, if you have to send the machine somewhere else, cover the machine with the same cardboard and in the same way, as you received. The machine has to be cold and the press arm has to be pulled down

2.2 Assembly of the heat press

The press is delivered in a cardboard. After taking the machine from the packaging and switching off the power supply, the heat press is ready for transportation. The press do not need a special assemble or additional fixing to the ground.

2.3 Power supply

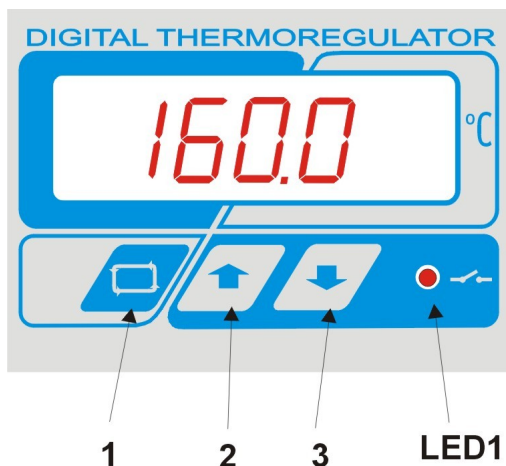
The SCHULZE Ball Press has to be connected to a voltage of 230VAC 50/60Hz. The machine is equipped with a plug. Make sure that the power outlet is in the right condition and that the grounding is connected to the power outlet. Caution: please do not connect this machine to any other outlet (socket) than those equipped with ground-fault protection ELCB (earth leakage circuit breaker). In case of doubt ask a qualified electrician to check the wiring. Connecting the machine to a socket that is not earthed or where the earthing does not work properly, is hazardous to health and dangerous for the machine. Any damages arising from an improper plugging invalidates the warranty.

2.4 Initiation of the press

If the machine is switched on, the pressing arm has to be open. It has to be upside. The heat press has to be open. To turn the machine on, use the green switch, which is situated on the right sight of the heat press. The green switch lights up and the press is heating up to the programmed temperature. If the work is finished, the switch has to be switched off and the plug has to be pulled out.

3. Working with the machine

3.1 Programming electronic devices



After switching on the press, the current temperature is shown on the display and the press heats up.

Change settings:

1. The programming mode shows up when you press **Button 1** for about 5 seconds, until the LED blinks up.
2. LED1 blinks and the programmed temperature shows up on the display. The programming mode is activated.
3. **The temperature** gets programmed with button 2 and 3.
4. Press **Button 1** shortly. On the display you can see the programmed time. You can programm the time by pressing **Button 2 and 3**.
5. Press **Button 1** shortly to save the changes and leave the programming mode.

or:

6. To get to the ECO programming, press **Button 1** for 3 seconds.
7. With **Button 2 and 3** you can switch between the ECO modes:
„Eco 0” - ECO mode turned off,
„Eco 1” - ECO mode turned on
8. To leave the programming mode press **Button 1**

Control of the preset temperature

If you want to control which temperature is adjusted at the moment, press button 2(+). The temperature shows up on the display.

Control of the preset time

If you want to control which time is adjusted at the moment, press button 3(-). The time shows up on the display.

3.2 Error reports

The electronic devices of the BluePRESSLine BALL heat press control the main functions of the press.

Here is a list of possible messages:

- ERR.1 – No connection of the electronic devices to the temperature sensor, (**Temperature sensor defect/** cable not connected)
- ERR.2 – Connection of electronic devices and temperature sensor bypassed , (**Temperature sensor defect/**)
- ERR.3 – Resistor of temperature sensor too low. The temperature range of the electronic devices is deceeded.
- ERR.4 – Resistor of temperature sensor too high. The temperature range of the electronic devices exceeded.
- ERR.5 – No temperature rise within 3 minutes even if heating element is switched on. (**Temperature fuse is defect**)
- ERR.6 – No reduction of the temperature within 3 minutes even if heating element is turned off. (**Power relay CRYDOM is defect**)
- ERR.7 – Temperature too high, over 230°C (**Power relay CRYDOM is defect**)

ERR.3 and ERR.4 can occur if the electronic devices are not programmed properly.

3.3 „ECO” mode

With the ECO mode you will save power. If the ECO mode 1, 2 or 3 is activated, the electronic devices will control the progress of work of the heat press. In case of a longer pause at the working procedure on the heat press, the ECO mode start automatically. The heat decreases and reduce the energy consumption.

temperature decrease about 50°C after	turn off the heating elements after
-	-
30 minutes	60 minutes
60 minutes	60 minutes
120 minutes	60 minutes

3.4 Usage of heat presses and examples of settings

The heat press is designed for pressing transfer foils on textiles.
Settings for usage as follow:

Folia Flex	150°C – 160°C	time 15 seconds
Folia FlexS	155°C – 160°C	time 15 seconds
Folia A-Flex	155°C – 160°C	time 15 seconds
Folia Flock	160°C – 180°C	time 15 seconds
Sublimacja	190°C – 205°C	time 50 seconds

Before each work sequence it is needed to do tests for pressing transfers and to check the resistance on washing. Use cotton textiles, polyester or mixed textiles according to the specification of the foil.

3.5 Pressure adjustment

After every change of the pressure settings, close the heat press to check the new settings. Damages, which arise from too much pressure, are excluded from the guarantee.

You can settle the exact force of pressure on the BluePRESSLine BALL. To settle the force of press:

1. Put the ball on the base plate
2. Close the heat press and check the force of pressure and open it
3. Rotate the turntable to the left to decrease the pressure force



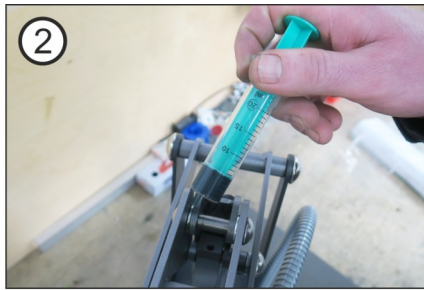
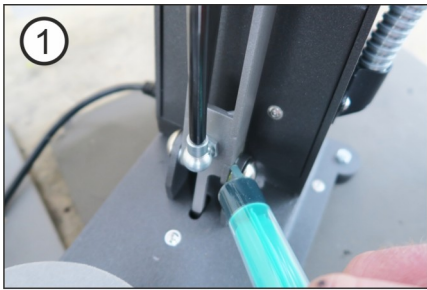
4. Maintenance

4.1 Daily maintenance

The surface of the base plate and heat plate needs to be clean all the time. The heat plate has to be cleaned with a clean and dry cloth. Do not touch the heat plate- danger of burns. Clean the silicon foam with a soft cloth. Use mild household cleaners. It is not allowed to use solvents or naphtha.

4.2 Monthly maintenance

Before starting the maintenance procedure, first turn off the heat press, remove the plug from the socket and wait, till the heat press gets cold. Some parts of the machine needs to be greased. Grease the elements every 200 hours of working with the machine. Use simple lubricants, which are resistant till 160°C.



On the heat press are situated 4 points, which has to be greased every 200 hours of working. After greasing lift and low the pressing arm slowly to spread the lubricant:

1. On the bottom part of the pressing arm by the steel body of the machine (**photo 1**).
2. At the point, where the pressing arm and the steel body are connected (**photo 2**).
3. On the pressing arm (**photo 3**).
4. On the pressing arm which is holding the heat plate (**photo 4**).

4.3 Instruction for the replacement of the main fuse

If the machine is not working, but the main switch is on, check the main fuse. The fuse 6A is situated on the right side of the machine, next to the main switch. (**photo 1**). To replace the fuse, first turn off the heat press, remove the plug from the socket and wait, till the heat press gets cold. The spare fuse is enclosed to the manual instruction. Unscrew the plastic insert with the burned fuse (**photo 2**), take the burned fuse out (**photo 3**), replace the fuse (**photo 3**), fix the fuse base screw.



4.4 Instruction for the replacement of the electronic

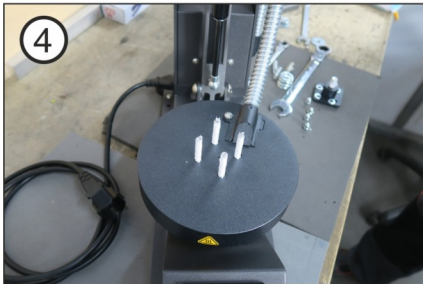
The electronic is in the front of the heat press. It controls the temperature and the time of the machine. To replace the electronic turn off the heat press, remove the plug from the socket and wait, till the heat press gets cold. Lose the screws on both sides of the heat press (**photo 1**). Put out the electronic (**photo 2**). Pull out the plug from the electronic. (**photo 3**). Put the green plug in the new electronic and put it back in the heat press. Fix the screws on both sides of the machine.



4.5 Instruction for the replacement of the thermal fuse

The thermal fuse has to be changed by an authorized person and after consulting and confirming the failure with the supplier. The thermal fuse is situated on the heat plate under the cover of the heat press. The thermal fuse prevent over-burning of the heat plate, if the temperature gets over the save temperature limit.

First turn off the heat press, remove the plug from the socket and wait, till the heat press gets cold. Unscrew the cover (image 1) and screw, which is connecting the heat plate with the press arm (image 2). Put the heat plate on the base plate unscrew the four screws, which are situated on the flat steel bar (image 3). The flat steel bar holds the heat plate. Beware of the spring. They should not spring back. Take off the flat steel bar, springs and threads (image 4). Take off the cover of the heat plate (image 5). Remove the thermal insulation, unscrew and change the damaged fuse (image 6). Put the insulation back and assemble the heat plate.

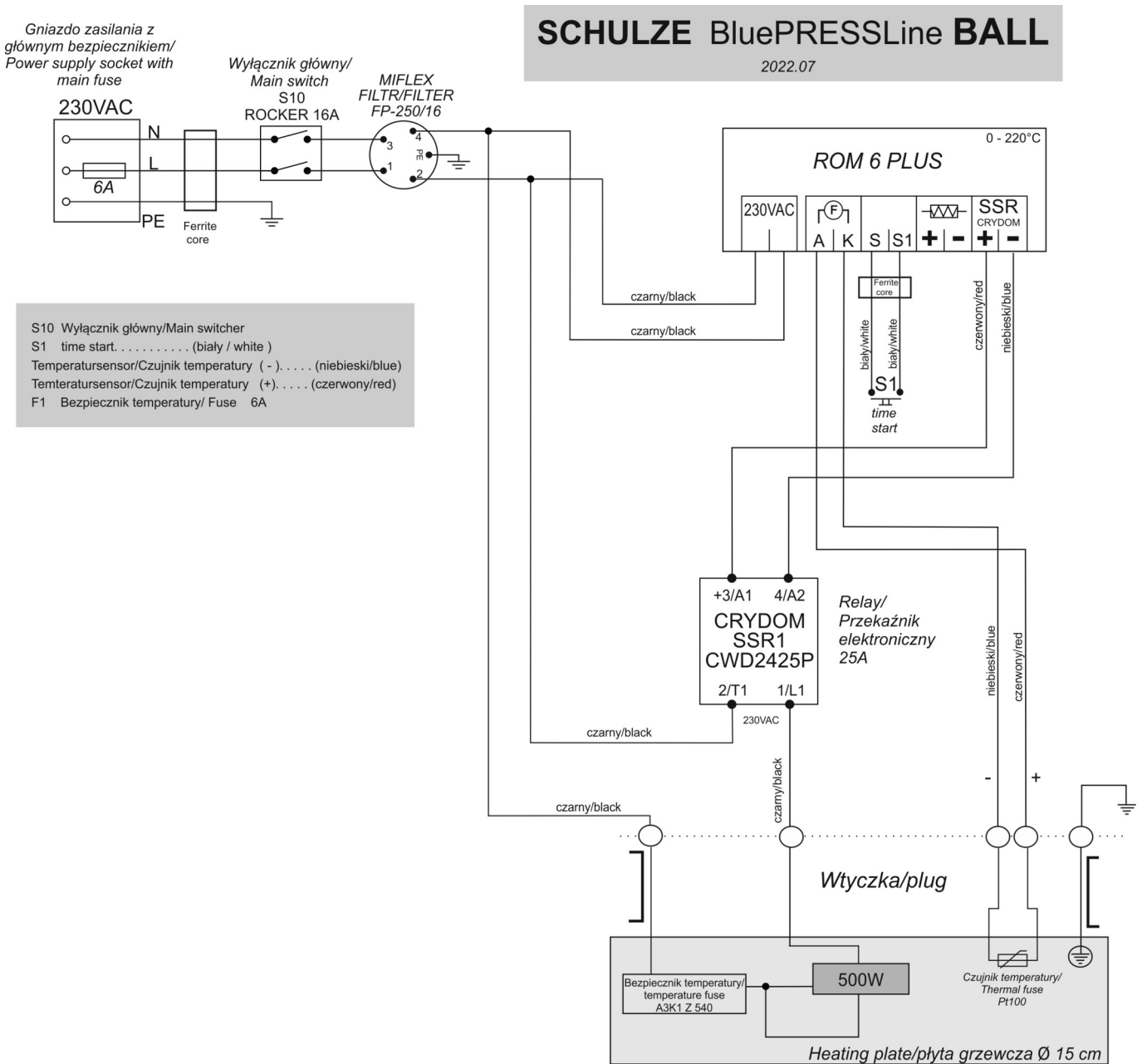


4.6 Troubleshooting

Problem	Cause	Debugging
Green switch blink, but: display doesn't glow plate doesn't heat	main fuse 6 A is defect	Exchange main fuse 6 A
	If main fuse is okay, than check	Exchange electronic devices
heatpress doesn't heat up to adjusted temperature even if the red diode glows after switching on, temperature rises but falls after short time	thermal fuse on heatplate is defect	Exchange thermal fuse
the display just shows 4 dashes no temperature or time information	temperature sensor defect or cable broken	check cable to temperature sensor or exchange temperature sensor
no acoustic signal after end of pressing	beeper is defect	Exchange electronic devices
temperature rises more, than it should even the red diode doesn't glow Example: temperature 180°C was regulated temperature rises to 180°C – the red diode glows up After reaching - the diode doesn't glow Temperature rises more than 220°C, than it is sinking to circa 90°C and rises again to 220°C		
	solid state relay CRYDOM is defect	exchange solid state relays CRYDOM
Button doesn't work no settings possible in temperature and time	setting buttons are defect	exchange setting buttons
		reset electronic devices
real temperature doesn't match with temperature Shown on the display – temperature too high/low	breakdown of electronic devices	exchange setting buttons

5. Documentation

5.1 Connection diagram



5.2 Warranty terms and conditions

Schulze heat presses and machines have a warranty for 24 months.
 This warranty includes the whole construction of the machine, mechanical elements, electronic device and covers.
 The heating element has a warranty for 12 years.
 Thermo fuses, temperature sensor, switches and buttons and all springs in the machines have a warranty for 6 months.
 Wearing parts such as fuses, silicone rubbers, protective covers and heating sleeves are excluded from the warranty.

Warranty does not cover:

1. Components which have been damaged by external factors such as water, electrostatic discharge and others.
2. Components and parts which have been damaged as a result of using unsuitable consumables.
3. Damages caused by improper transport or use inconsistent not regarding with the operating conditions specified in this manual, caused by the fault or ignorance of the purchaser.
4. Usage or damage to consumables such as heating sleeves, Teflon tape, silicone mats, air cushions in membrane plates, lamps or glass.
5. Warranty rights do not include the purchaser's right to claim reimbursement of lost profits and costs incurred as a result of equipment failure.

5.3 Conformance declaration

CONFORMANCE DECLARATION

nr BPLBALL/02/24/01

Manufacturer ROMANIK Andrzej Romanik ul. Przemysłowa 10 84 - 240 Reda, Poland hereby declares that the following machine:

Heat press SCHULZE Ball Press

is compliant with the specifications of the followings EC directives:

Machinery (2006/42/EC)
Low Voltage (2014/35/EU)
EMC (2014/30/EU)
RoHS II (2011/65/EU) and RoHS III (2015/863)



used norms and technical specifications:

PN-EN ISO 12100:2012
PN-EN 60204-1:2018-12
PN-EN 61000-6-1:2019-03
PN-EN 61000-6-3:2008/A1:2012
PN-EN ISO 13850:2016-03
PN-EN IEC 6300:2019-01

Applied quality system: testing report / 2024

Reda, 06.02.2024 r.

A handwritten signature in blue ink, appearing to read 'Andrzej Romanik', is written over a faint circular stamp.

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The manufacturer reserves the right to make constructional and technological changes.