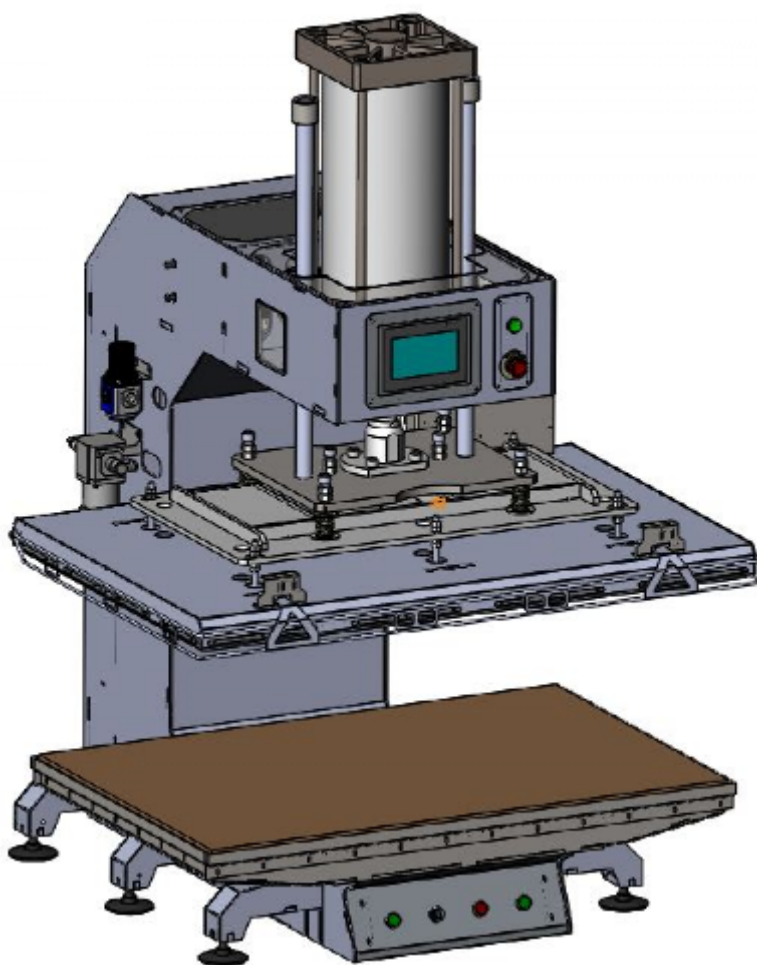


## *CS-676 Pneumatic Flat Press Machine*

### *Operation Manual*



is powered by

**H&H Asia Group Limited**

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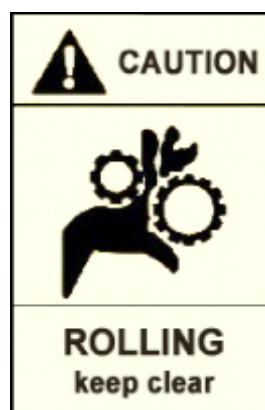
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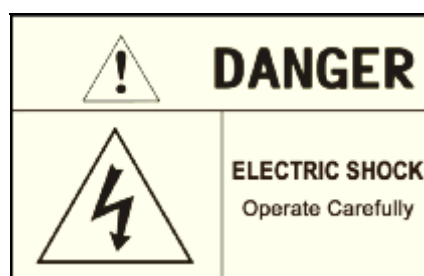
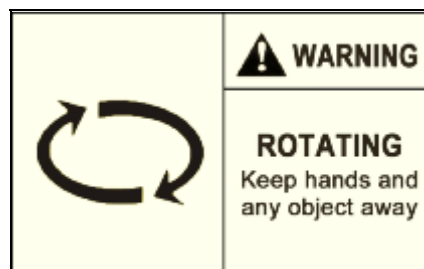
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> **Precautions with regard to Safety**

Please observe these safety tips for safe, efficient, an injury-free operation of your equipment. By strictly following all instruction contained in this manual you will certainly obtain an excellent performance from the use of this equipment for many years.



> **Precautions with regard to Safety (cont.)**



> **Name Plate**

Model : CS-676

**Pneumatic Flat Press Machine**

spec A-A1A1-120080				
Voltage	Frequency	Power	Compressed Air	Weight
380 V	50/60 Hz	12000 W	>0.4 Mpa	860 Kg
Date :			S/N :	

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## > **Introduction**

Thank you for your choosing of CS-676 which is manufactured by H&H.

This manual is aimed for the operators to understand the machine and avoid damage to the machine or personnel. Please read this manual carefully and keep it well for daily reference usage.

**> Specifications**

Model	:	CS-676
Voltage	:	380 V, Three Phase (A,B,C,N,E)
Frequency	:	50/60 Hz
Power Consumption	:	12000 W
Compressed Air	:	>0.4 Mpa
Heat Temperature Range	:	30~260°C
Heat Press Duration	:	1~999 second
Lower Platform Size	:	1200mm x 800mm (length x with)
Overall Dimensions	:	1300mm x 1300mm x 2500mm (length x with x height)
Overall Weight	:	860 kg

Note : due to continuous improvement, specifications are subjected to change without prior notification

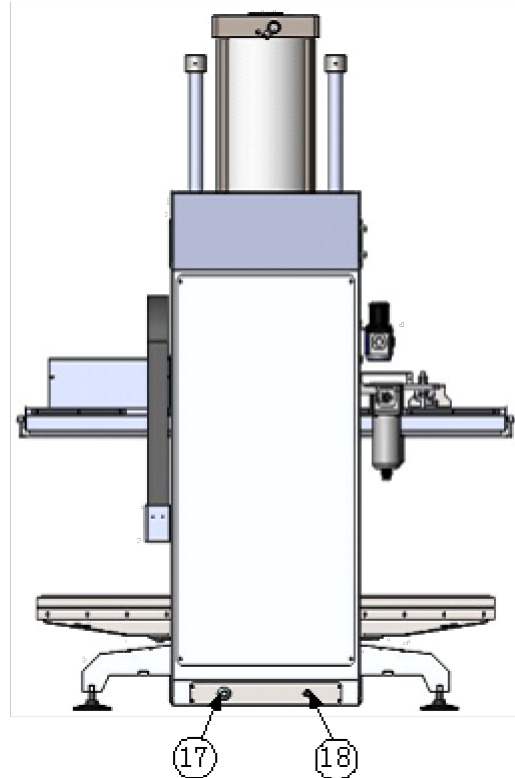
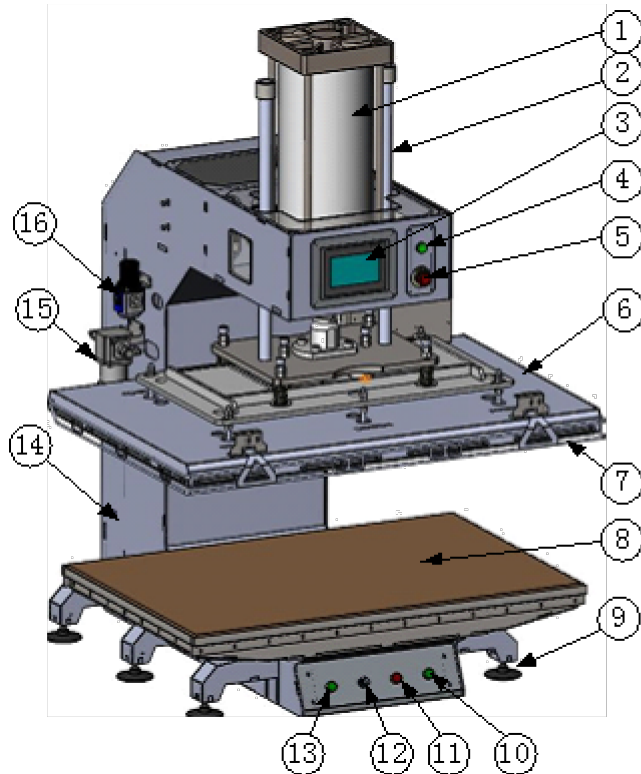


## > **Features**

- Control system – user friendly touch screen interface.
- Safety protection – safety lever around the main working area. The machine will stop when this lever frame is lifted. Both of the start buttons must press simultaneously (within 0.5 second), otherwise the machine will not activate. The press need to reach the bottom working platform for 0.5 second before the hand can release the start buttons. The safe device mode enable for “any key cancel” can cancel the press down motion with any button.
- Individual heat temperature control.
- Individual heat cycle timing setting control.

## > Component Names

### >> View



1. press cylinder
2. the guide bar
3. touch screen control panel
4. power on/off switch
5. emergency stop switch
6. heating plate
7. safety bars
8. lower working table (platform)
9. the adjustable feet
10. right start button (work in pair)
11. stop/cancel button
12. operator/supervisor control key switch (turn right for supervisor mode)
13. left start button (work in pair)
14. frame
15. compress air filter
16. regulator
17. power cable inlet
18. foot pedal connecting socket

**> Preparation for Installation**

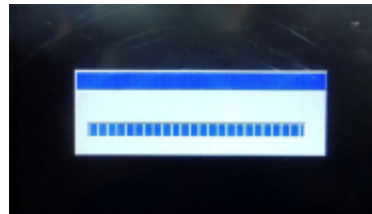
Installation must be carried out by authorized personnel. Please act according to the following steps :

1. Remove the package of the machine and placed it on the ground level, cleaning the machine before operation.
2. Unleashing all packing cables which tie to the machine and allow it from free movement.
3. Connect air hose to the inlet of the air regulating filter at the back of the machine, make sure the air pressure not lower than 0.4Mpa. Once connected, the heat plate will go up. You can connect the foot pedal (optional) power plug with the corresponding socket at the back.
4. Connect the power cord with a 380V, 30A power supply.
5. Switch on the power switch at the front top of the machine.
6. The touch screen panel will on and showing the program loading page. After a while, it will change to show the main control page.

## > Operation and Controls

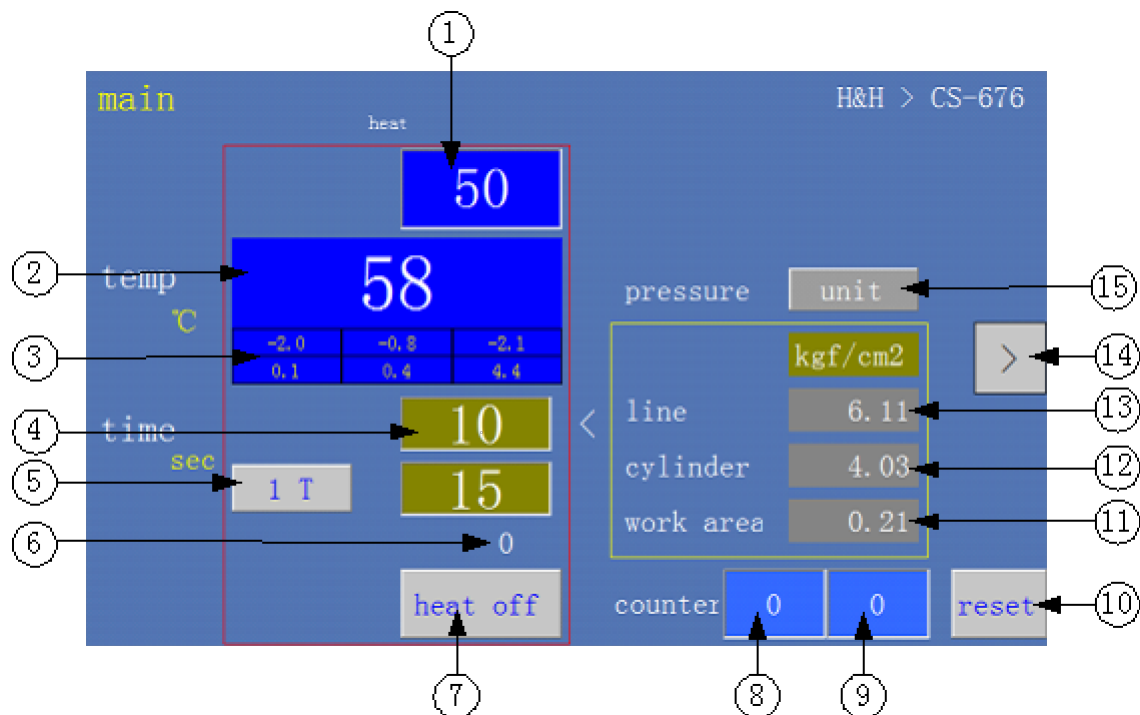
### >> Touch Screen Control

The 1<sup>st</sup> & 2<sup>nd</sup> pages are welcome note & program loading pages. It will show up once the machine is powered on.



### >> Main page

The 3<sup>rd</sup> page of the panel is named “main” means it is the main control of the machine.

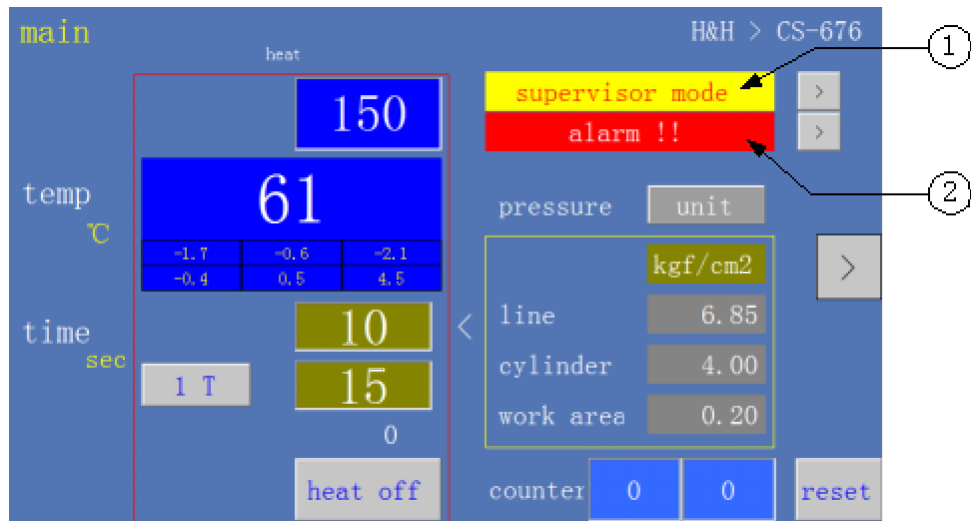


1. heating temperature preset button & display.
2. heating plate online temperature feedback (the left/right arrow will display if it is beyond preset limit).
3. six areas temperature individual compensation offset value.
4. press time preset button & display.
5. 1T/2T mode change button.
6. time heating duration count down.
7. heating on/off button (when heater is on, the text will turn red and the arrow at left will flash).
8. press down counter (can be reset by #11 button).
9. times of action cancel or safety bar triggered, cannot reset by operator.
10. reset button (for press down counter #10)
11. average press pressure across work table area.

12. main cylinder pressure feed back.
13. line pressure feed back.
14. next page button.
15. pressure unit selector (kgf/cm2. Mpa, Bar, Psi).

### > Operation and Controls (cont.)

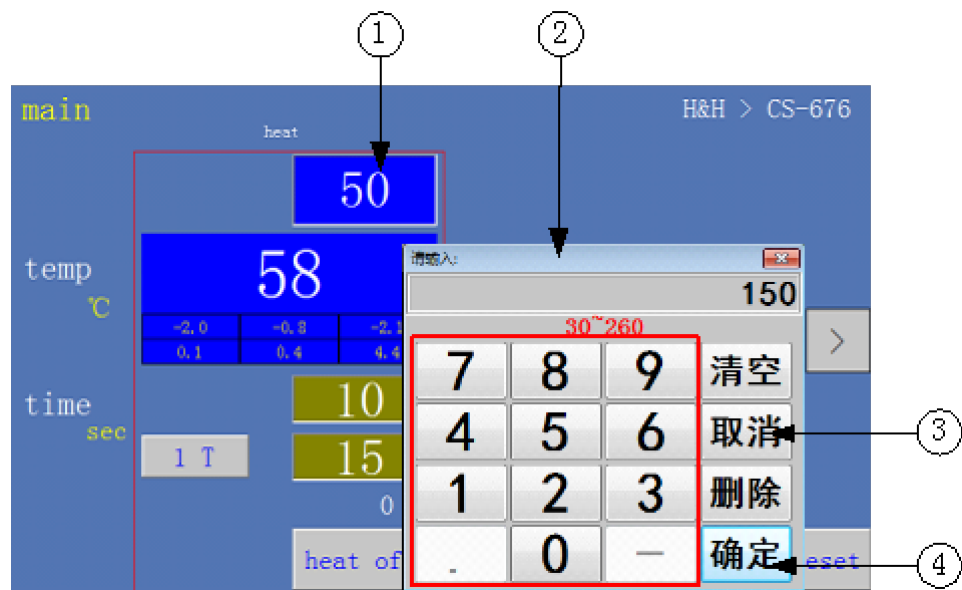
#### >> Main page (cont.)



1. When the key lock is turn to the right, this place will display supervisor mode
2. An alarm will flash when there is/are any fault or beyond the parameter setting range.

#### >> Heating Control

At the main page, you can preset the temperature setting at the panel.



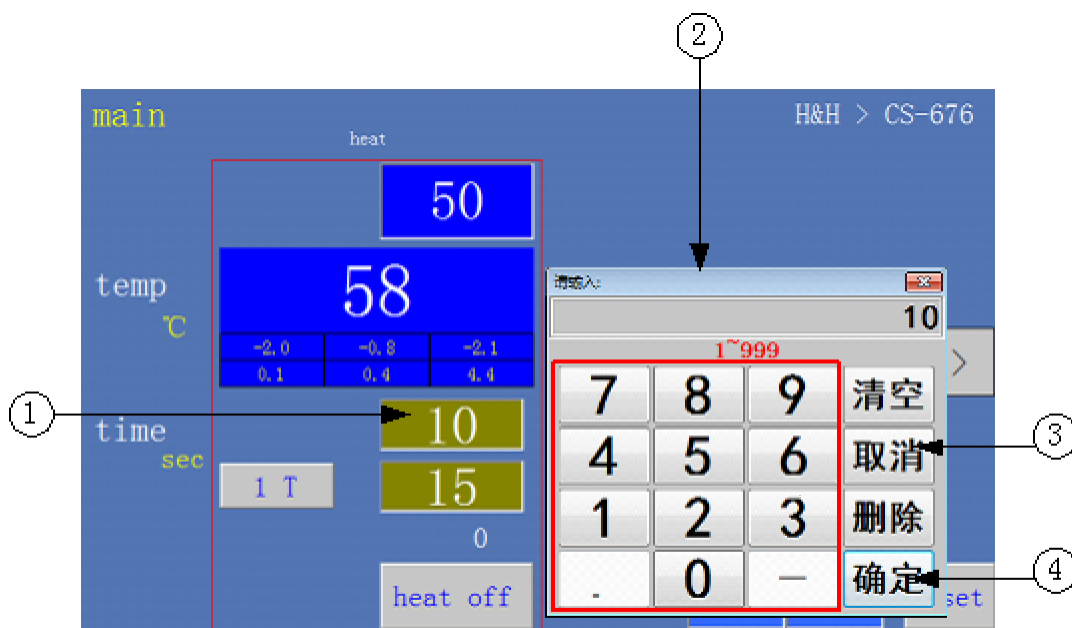
1. heating temperature preset button & display
2. input key pad
3. cancel
4. input accept

Press button #1 can preset the requesting heating temperature. The key pad #2 for heat temperature setting will pop up. You can enter the heating setting via this interface (input range 30~260 °C) and confirm with the button #4 “ok” or if the original default setting is satisfied. Press button #3 “cancel” if there is no need to change.

### > **Operation and Controls (cont.)**

#### >> **Heating time span setting**

At the main page, you can set the press time span at the panel.



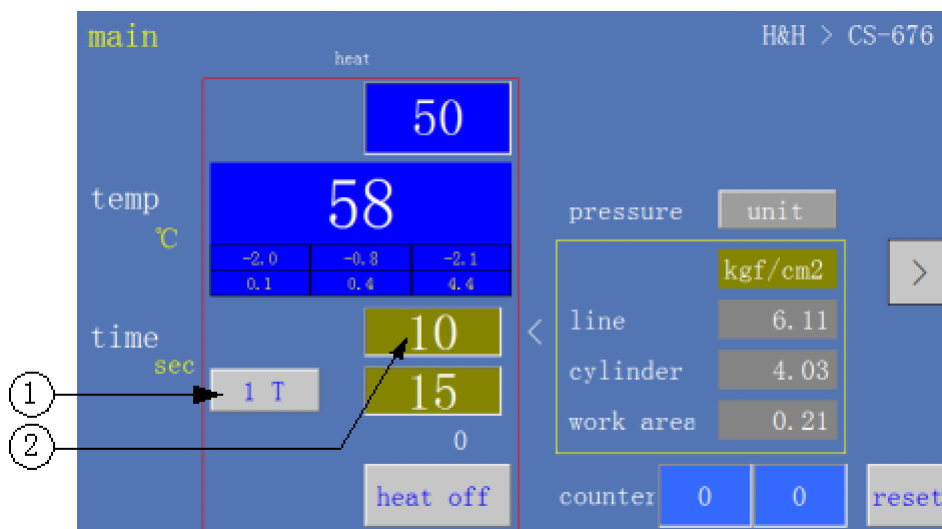
1. heating press time setting button & display
2. input key pad
3. cancel
4. input accept

Press button #1 can preset the requesting heating press time. The key pad #2 for heating press time setting will pop up. You can enter the heating press time via this interface (input range

1~999 second) and confirm with the button #4 “ok” or if the original default setting is satisfied. Press button #3 “cancel” if there is no need to change.

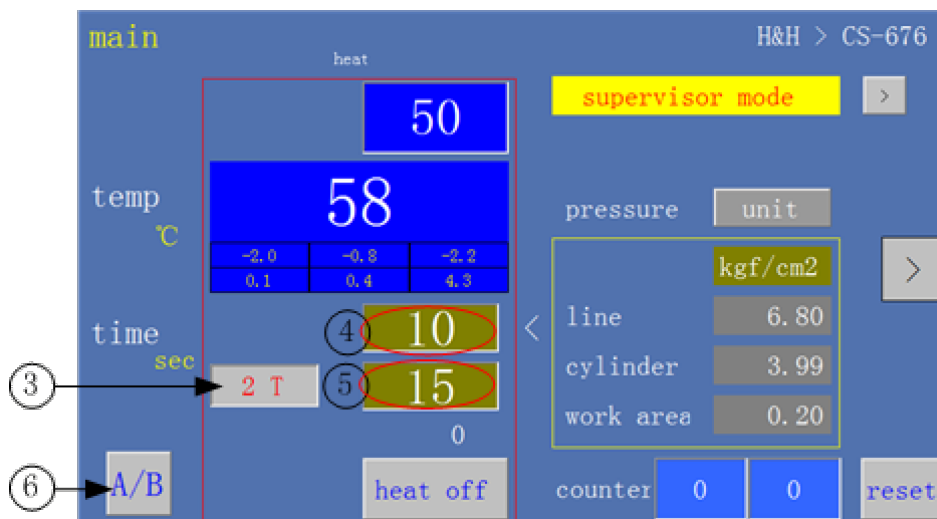
## >> 1T/2T mode change

At the main page, you can change 1T mode and 2T mode.



a). 1T mode

1T mode. Pressing time is fixed on a set value (#2 button). Press one time as a cycle and the counter will add one.



b). 2T mode

2T mode. Pressing time is change at two values and the two vlues can be changed individually. #4 button set press time for the first pressing. #5 button set press time for the second pressing. You can also use #6 to change the presstime between #4 and #5. Press two times as a cycle and the counter will add one.

## > Operation and Controls (cont.)

### >> **Program version**

The next page after “main” page is “program version” page.



It is an information page for your reference and we can use these data for future maintenance usage.

### >> **Language Selection**

The next page after “program version” page is “language selection” page.



You can change the language between Chinese and English by push the button #1.

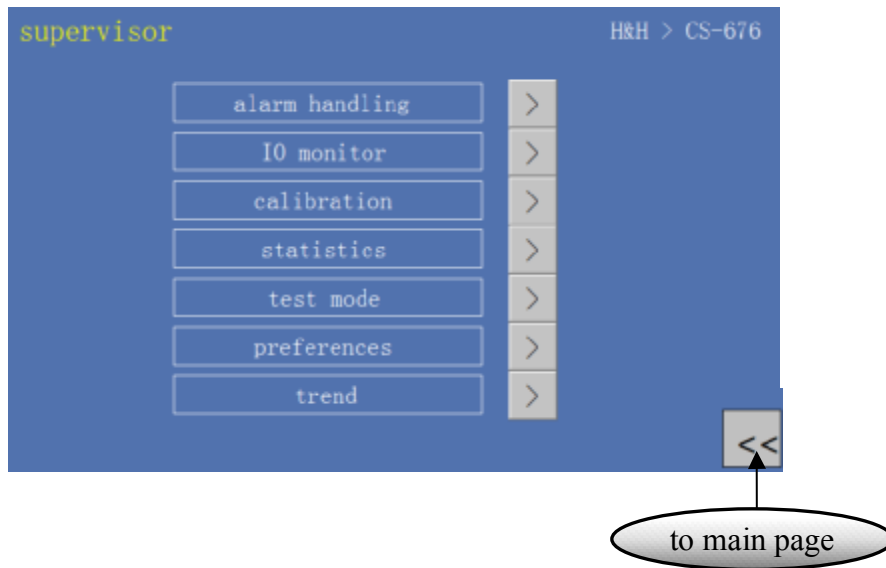
There are only three pages (i.e. main, program version and language) when the key is at operator mode control, press the next page will goes back to the “main” page.



## > Operation and Controls (cont.)

### >> **Supervisor Mode Selection**

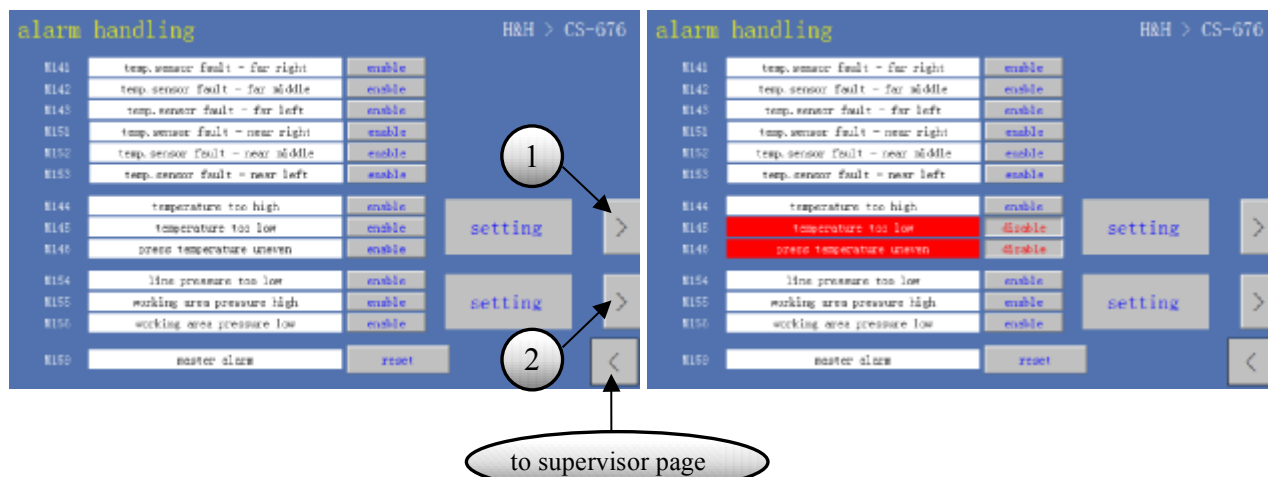
When the control key is turned right, you are selected the supervisor mode and the main page will show up a yellow banner “supervisor mode”. All the control keys are the same and can be exchange to use for other similar control series of H&H products. When you push the banner, the display will goes to the supervisor page.



### >> **Alarm Handling**

When you press the alarm handling arrow at the supervisor page, the “alarm handling” page will show up. Push the “reset” once to clear the previous alarm.

Below left is normal condition alarm page while the right one is showing some alarms.



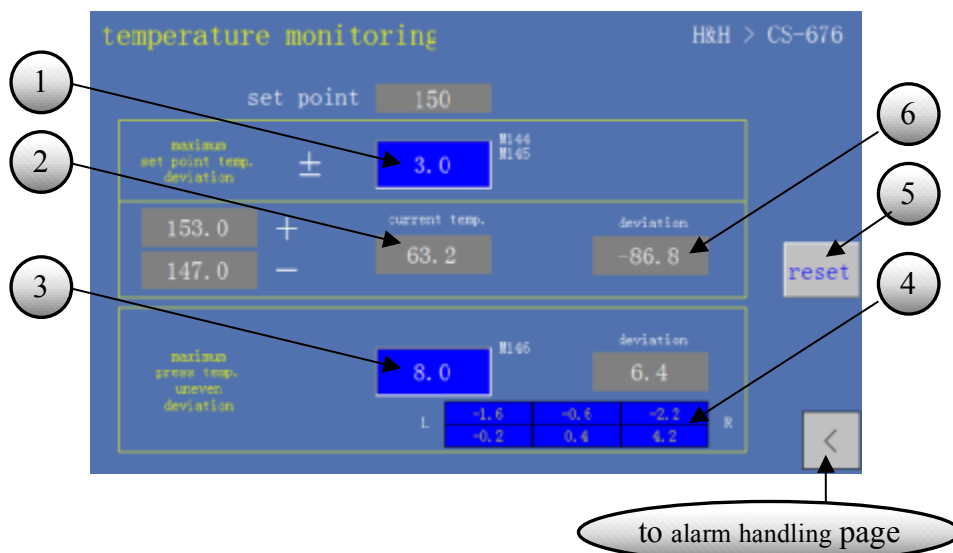
1. goes to temperature monitoring setting page
2. goes to pressure monitoring setting page

You can enable or disable on every row of alarm setting at the right hand side of it. You can also reset the master alarm when the selected alarm is disabled or the fault is fixed.

## > Operation and Controls (cont.)

### >> **Temperature Monitoring Setting**

When you press the #1 button at the alarm handling page, the “temperature monitoring setting” page will show up.

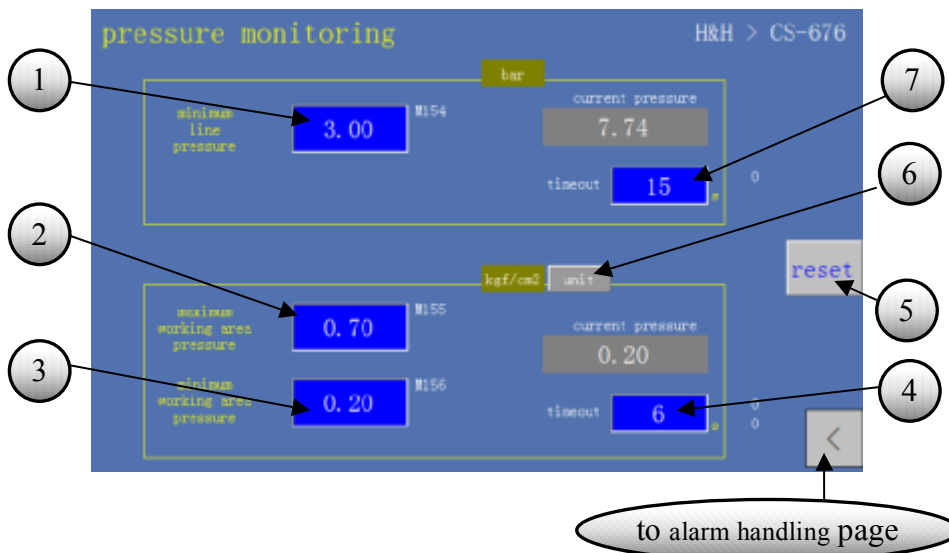


1. set the temperature deviation alarm trigger set point (the range is marked underneath).
2. current average temperature of the three heating plate.
3. set the max temperature uneven deviation set point (the range is marked underneath).
4. display the six places of heat plate area individual temperature deviation from the set point
5. reset the alarm after the temperature deviation alarm trigger set point is changed.
6. display the average temperature deviation from the set point

## > Operation and Controls (cont.)

### >> **Pressure Monitoring Setting**

When you press the #2 button at the alarm handling page, the “pressure monitoring setting” page will show up.

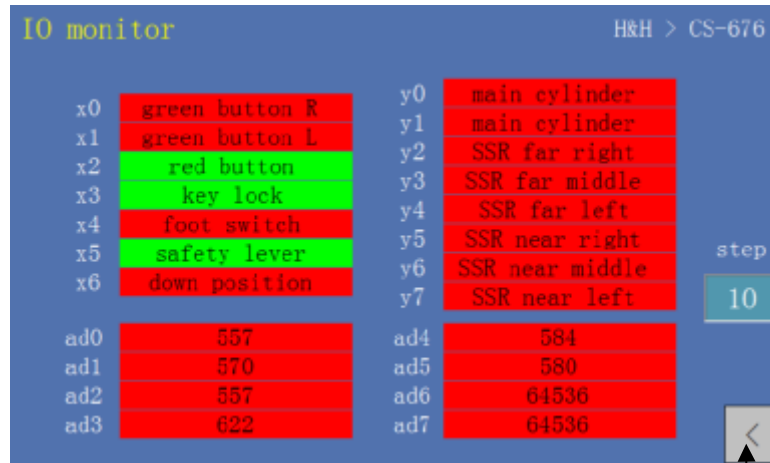


1. set the min line pressure alarm trigger set point.
2. set the max working area pressure alarm trigger set point.
3. set the min working area pressure alarm trigger set point.
4. set the offset timeout time for the working area pressure alarm to trigger.
5. reset the alarm after the pressure deviation alarm trigger set point is changed.
6. pressure unit selector (kgf/cm2, MPa, Bar, Psi).
7. set the offset timeout time for the line pressure alarm to trigger

## > Operation and Controls (cont.)

### >> IO Monitor

When you press the IO monitor arrow at the supervisor page, the "IO monitor" page will show up.



to alarm handling page

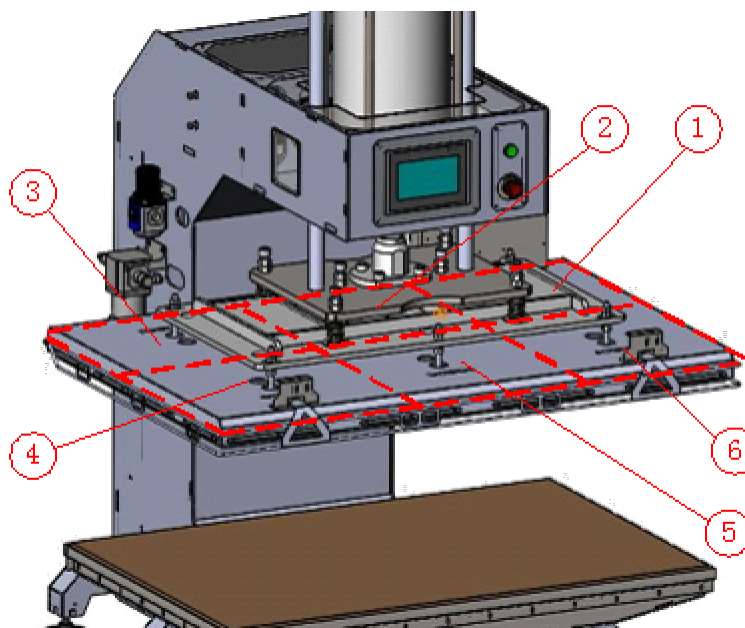
You can observe which limit switch is/are triggered in green, otherwise it will on red colour. The step means the progress of the program is going.

### >> Calibration

When you press the calibration arrow at the supervisor page, the "calibration" page will show up.


Right, middle, left corresponding to right, middle, left heating plate respectively.

The temperature correction should be carried out continuously and simultaneously at room temperature (about 50°C) and at 150°C.




- #1, far right
- #2, far middle
- #3, far left
- #4, near right
- #5, near middle
- #6, near left


temperature calibratic				H&H > CS-676	
	50℃	150℃			
far right	15	0	55.6	℃	
far middle	22	0	57.0	℃	
far left	0	20	55.7	℃	
near right	18	0	62.2	℃	
near middle	-12	0	58.4	℃	
near left	0	0	57.9	℃	




1



2



3



to alarm handling page

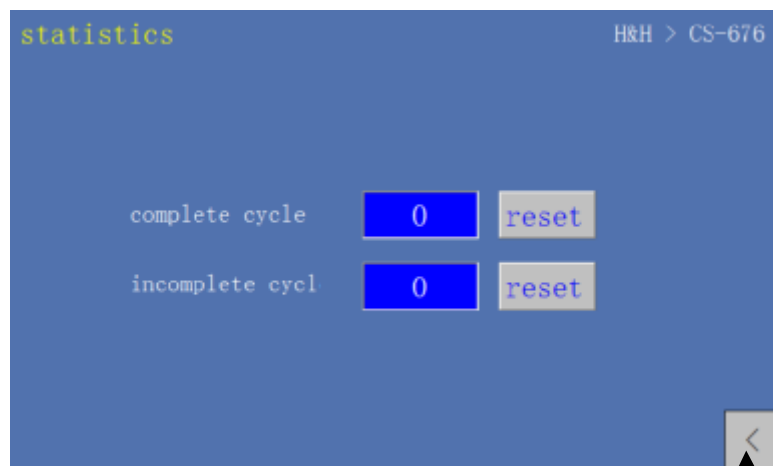
1. set the room temperature (range -100 to 100)
2. set the calibrating curve offset setting number (range -50 to 50)
3. the number in this row will change when the #1 or #2 is changed

\*For easier precise input, numbers appear here are using 0.1 as the basis unit, input 15=1.5 degree celsius.

> **Operation and Controls (cont.)**

>> **Statistics**

When you press the statistics arrow at the supervisor page, the “statistics” page will show up.



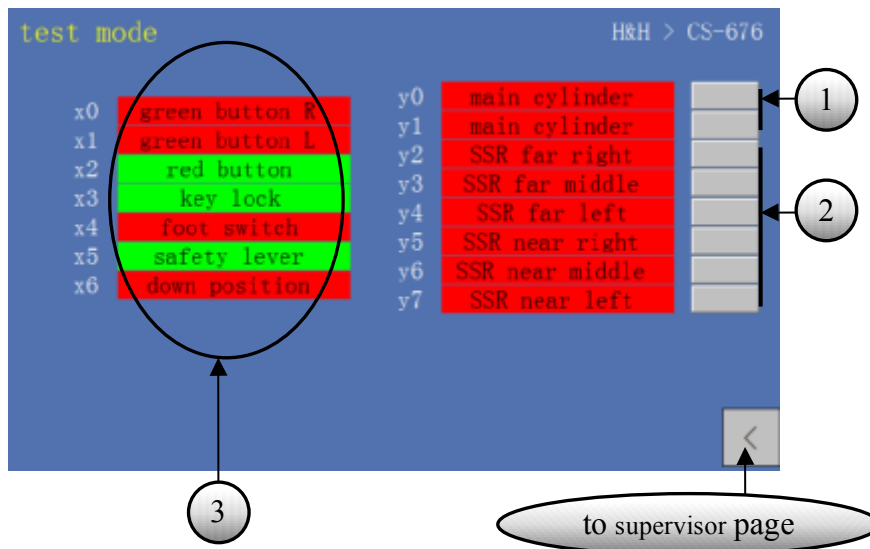
to supervisor page

It will show the information of the complete press cycle and incomplete cycle times (triggered by cancel button or safety bar). You can reset both the cycle with the respective reset button. It can prevent the operator from illegally to break the immature cycle for increase the production rate.

## > Operation and Controls (cont.)

### >> **Test mode**

When you press the test mode arrow at the supervisor page, the “test mode” page will show up.



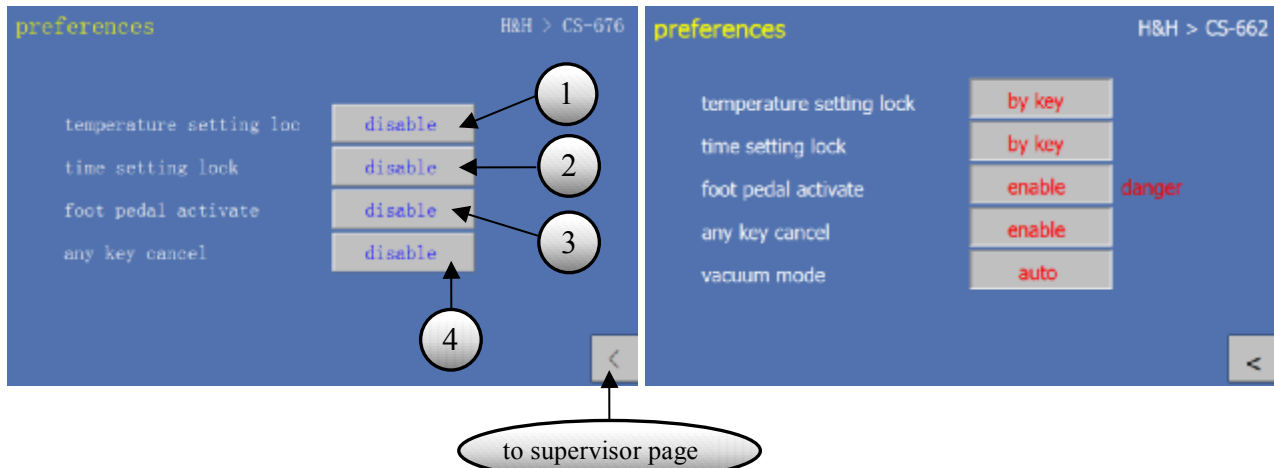
1. press to activate the main cylinder
2. press to activate six heating plates individually
3. feedback of the respective parts (triggered in green while others in red)



## > **Operation and Controls (cont.)**

### >> **Preferences**

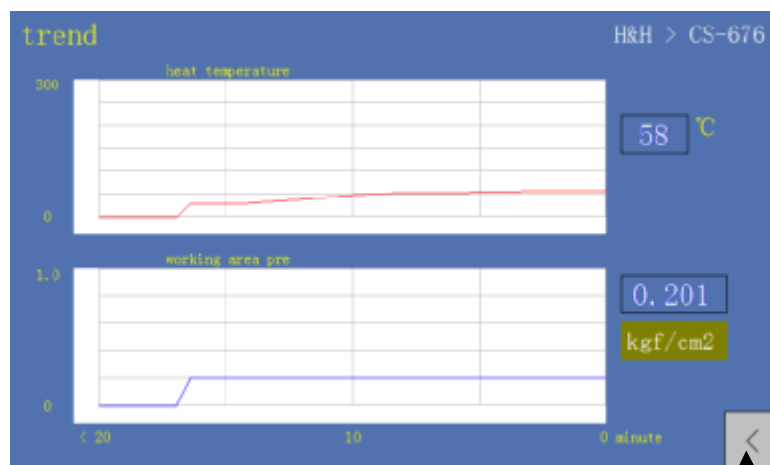
When you press the preferences arrow at the supervisor page, the “preferences” page will show up.



1. press to select the temperature setting lock “off” or “by key”
2. press to select the press time setting lock “off” or “by key”
3. press to enable the foot switch for “press activation”
4. this is a safety device, press to enable the forced cancel of press down motion with any push button

### >> **Trend**

When you press the trend arrow at the supervisor page, the “trend” page will show up.

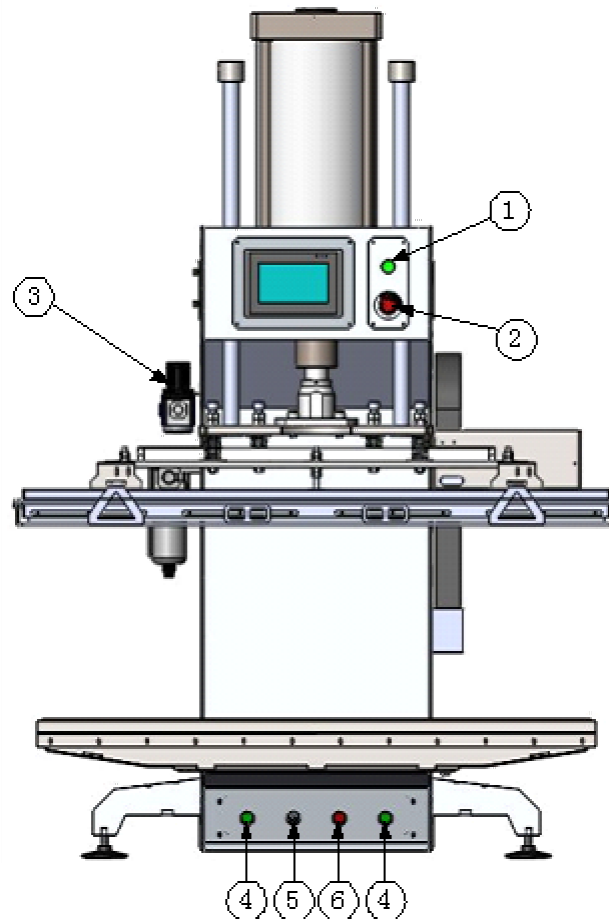


to supervisor page

You can check the trend of the working area pressure and temperature in the recent 20 minutes

## > **Operation and Controls (cont.)**

### >> **Manual Control Console**



1. power on/off button
2. emergency stop button
3. regulator
4. start buttons (in pair)
5. operator/supervisor control key switch (turn right for supervisor mode)
6. stop/cancel button

Remark: start button #3 pair need to press simultaneously, otherwise it will not function.

### >> **Press Pressure Adjustment**

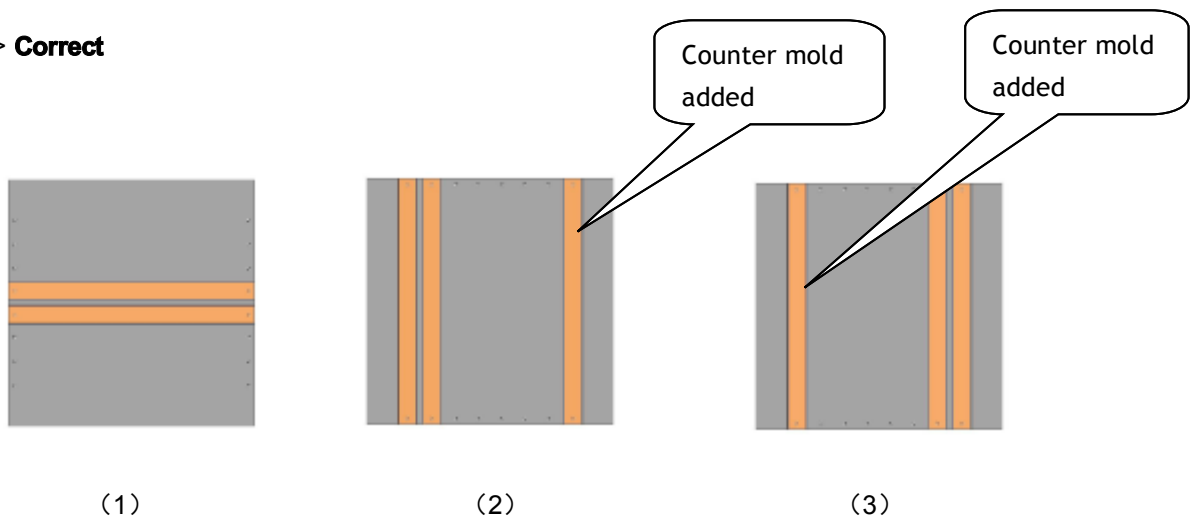
- A. Turning the knob on the compress air regulator to adjust the press pressure.

## > **Precaution when Using Mold**

Some application require a special mold as fixture to position the object correctly, examples are zipper mold or pocket mold. It is essential that the center of mold is position directly under the center of the press, or otherwise the downward pressing force from the main cylinder may induce a rotating force to the rotating head. This may cause damages to the press head and the cylinder and may also affect the overlook of the product due to uneven pressure. In case the mold is required to position off center, a counter balance mold of the same height is necessary to correct the force of the press.

The following illustrations (top view) demonstrate the correct and incorrect method of using mold.

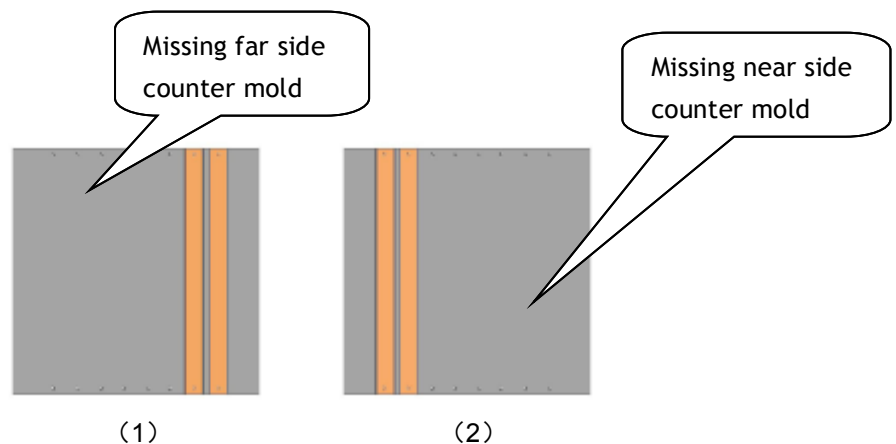
### >> **Correct**



1. Zipper mold is positioned at the center of the working table.
2. Zipper mold is positioned off centered, a counter mold is added at the right hand side of the working table.
3. Zipper mold is positioned off centered, a count mold is added at the left hand side to balance the force

### >> **Incorrect**

**X**



1. Missing left hand side counter mold
2. Missing right hand side counter mold

## > **Cleaning and Maintenance**

### >> **Cleaning the Thermo Plates**

During operation, excess glue or residue may deposit on the surface of the lower silicone rubber and/or the top heat plates. This may deteriorate the outlook of the final product in the coming cycle and cleaning is necessary. To carry out this operation, we suggest you to use a dry piece of towel to wipe off the surface of the heat plate. There is no particular schedule for this type of cleaning, do it whenever required.

### >> **Daily Maintenance**

- Operate the machine a few cycles before use, pay attention to any unusual noise. This may indicate a problem.

### >> **Monthly Maintenance**

- Check the main press side guide rods for smoothness, apply lubrication if needed.
- Inspect the Teflon paper from wear and tear on the heat press, as this may affect the outlook of the finished product. Replace with a new one if necessary.

> **Trouble Shooting**

Problem	Cause	Solution
Display not light up Whole machine not working	Power supply not connected	Plug in a suitable power supply
	Power plug not secure	Try to plug in socket again
	Overloaded or tripped of circuit breaker	Check the problem and reset breakers
Heat plate not heating up	Heater not enabled	Press the <span style="border: 1px solid black; padding: 0 2px;">heat</span> button once
	Preset temperature lower than room temperature	Change preset temperature above room temperature
Excess noise and vibration during operation	Floor is not level or wheels are not locked	Reposition machine to a level and solid floor