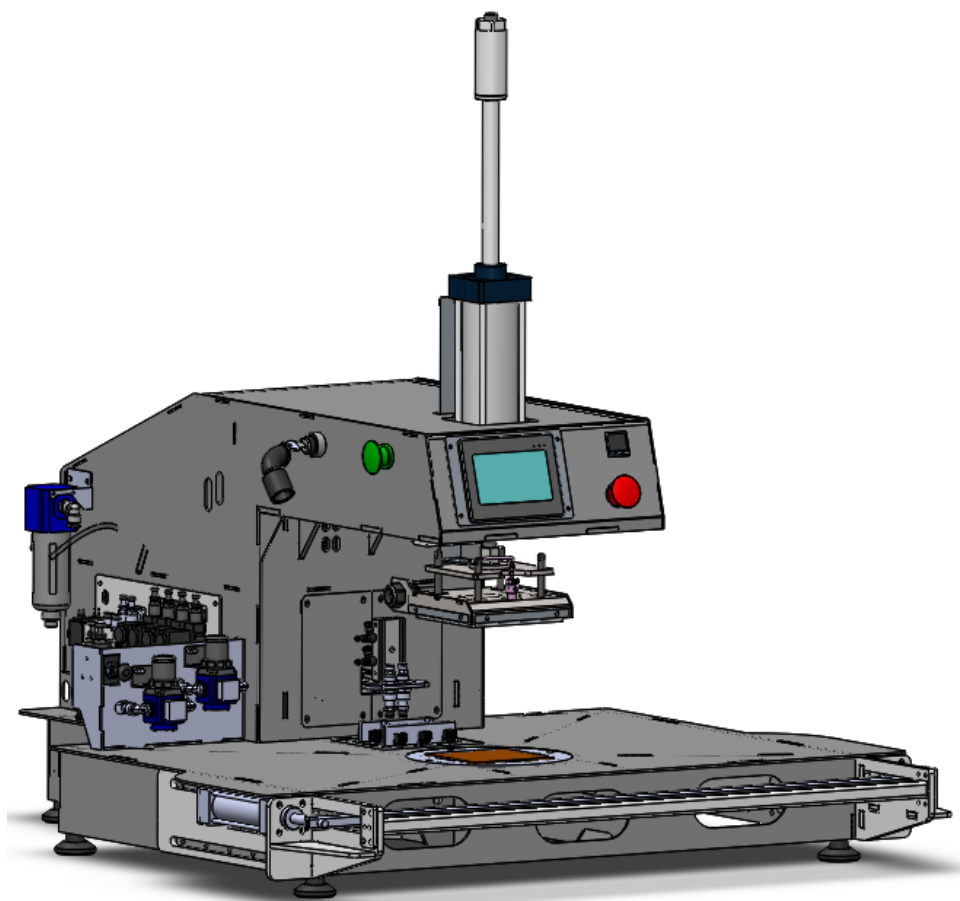


***CS-679 Automatic Pick And Place Label Heat Press Machine*****Operation Manual**

is powered by

**H&H Asia Group Limited**

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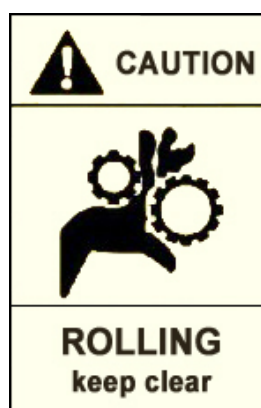
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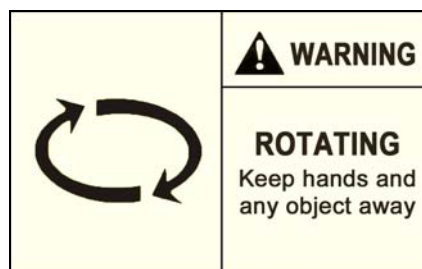
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### > Precautions with regard to Safety

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-679

Pneumatic Flat Press Machine

spec A-A1A1-011011

| Voltage | Frequency | Power | Compressed Air | Weight |
|---------|-----------|-------|----------------|--------|
| 220 V   | 50/60 Hz  | 600 W | >0.4 Mpa       | 102 Kg |
| Date :  |           |       | S/N :          |        |

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MADE IN CHINA



## > **Introduction**

Thank you for your choosing of CS-679 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-679  |
| Voltage                | : | 220 V, Single Phase                             |
| Frequency              | : | 50/60 Hz  |
| Power Consumption      | : | 600 W   |
| Compressed Air         | : | >0.4 Mpa  |
| Heat Temperature Range | : | 30~260°C  |
| Heat Press Duration    | : | 1~999 second                                    |
| Heat Press Size        | : | 130mm x 130mm (length x with)                   |
| Lower Platform Size    | : | 110mm x 110mm (length x with)                   |
| Overall Dimensions     | : | 920mm x 1150mm x 920mm (length x with x height) |
| Net Weight             | : | 115 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 and cool cycle timing setting control.

## > Component Names

>> View

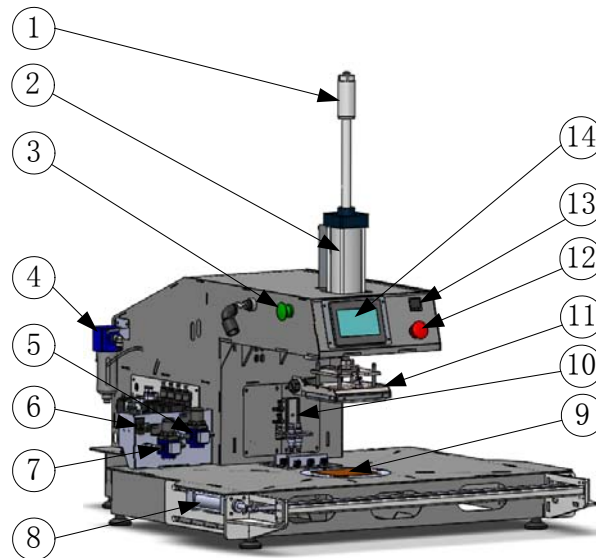


Fig.2 Machine parts name

|                                    |                                |
|------------------------------------|--------------------------------|
| 1. pressure adjusting knob         | 8. clamp cylinder              |
| 2. press cylinder                  | 9. the lower working platform  |
| 3. left start button(work in pair) | 10. vaccum cylinder            |
| 4. compress air filter & regulator | 11. heat press plate           |
| 5. press cylinder regulator        | 12. stop/cancel button         |
| 6. manual clamp solenoid valve     | 13. vaccum pressure gauge      |
| 7. vacuum chuck regulator          | 14. touch screen control panel |

**> Preparation for Installation**

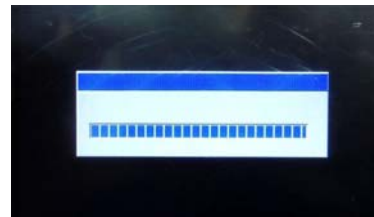
Installation must be carried out by authorized personnel. Please act according to the following steps :

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 foot switch connector to the connector on the machine.
5. Connect the power cord with a 220V, 10A power supply.
6. Switch on the power switch at the top of the machine. (emergency stop switch)
7. The nozzle motor automatically returns to the equipment origin.
8. 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.

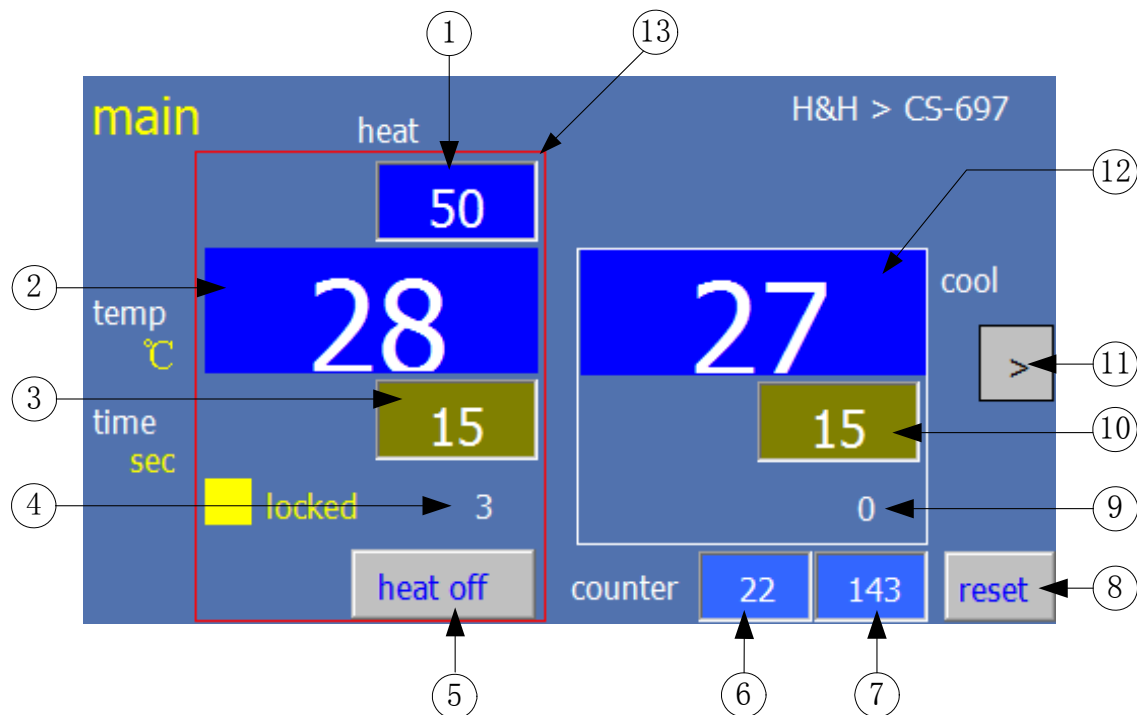


Fig.5 main page

1. heating temperature preset button & display.
2. when the mark switch on, press the start button can adjust the standard position.
3. heating plate online temperature feedback (the left/right arrow will display if it is beyond preset limit).
4. heat 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 #8 button).
9. times of action cancel or safety bar triggered, cannot reset by operator.
10. reset button (for press down counter #6)

11. adjust the origin position, re-locate after setting.
12. next page button.
13. Set the distance that requires the motor to run. (the maximum value of this data is affected by the origin offset)
14. Set the maximum speed of the motor.

## > Operation and Controls (cont.)

### >> Main page (cont.)

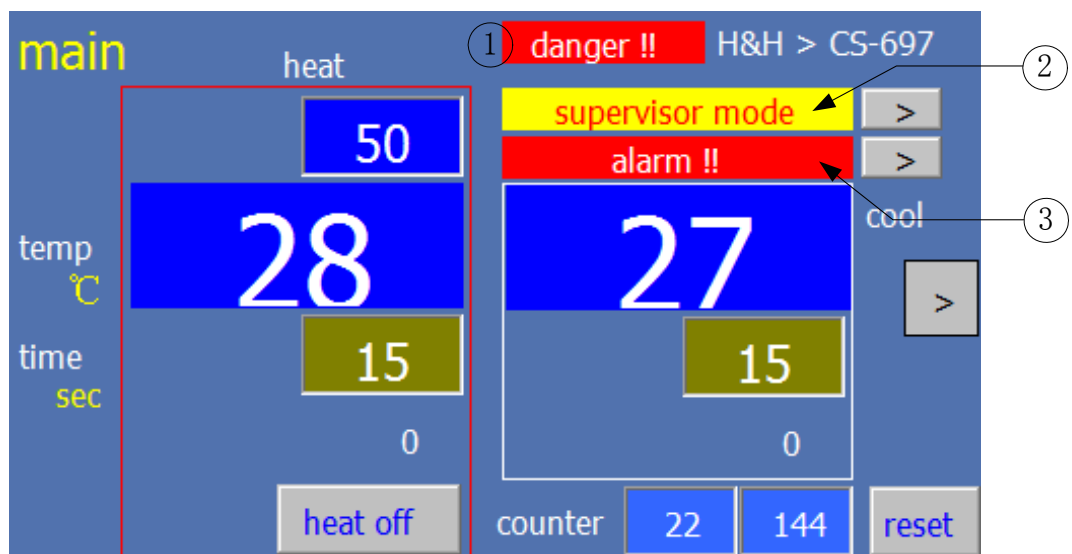
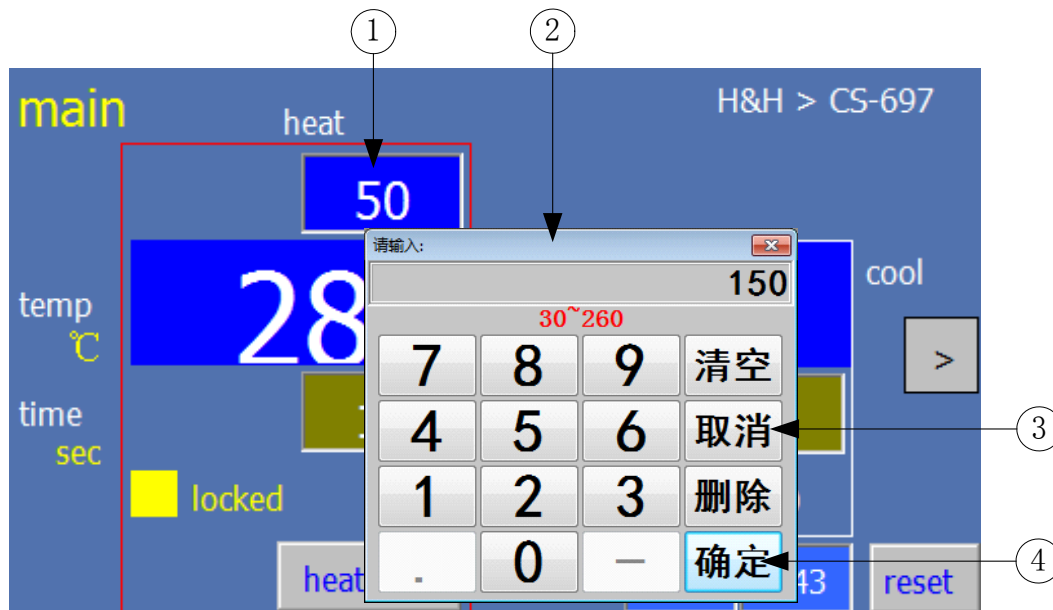


Fig.6 alarm & supervisor mode

1. When only press mode activate, the main page will show up a yellow banner "only press", in this mode, only hot pressing action.
2. When foot pedal activate, auto cool cycle or self lock mode is enable this place will display danger
3. When the control key is turned right, the main page will show up a yellow banner "supervisor mode"
4. 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.



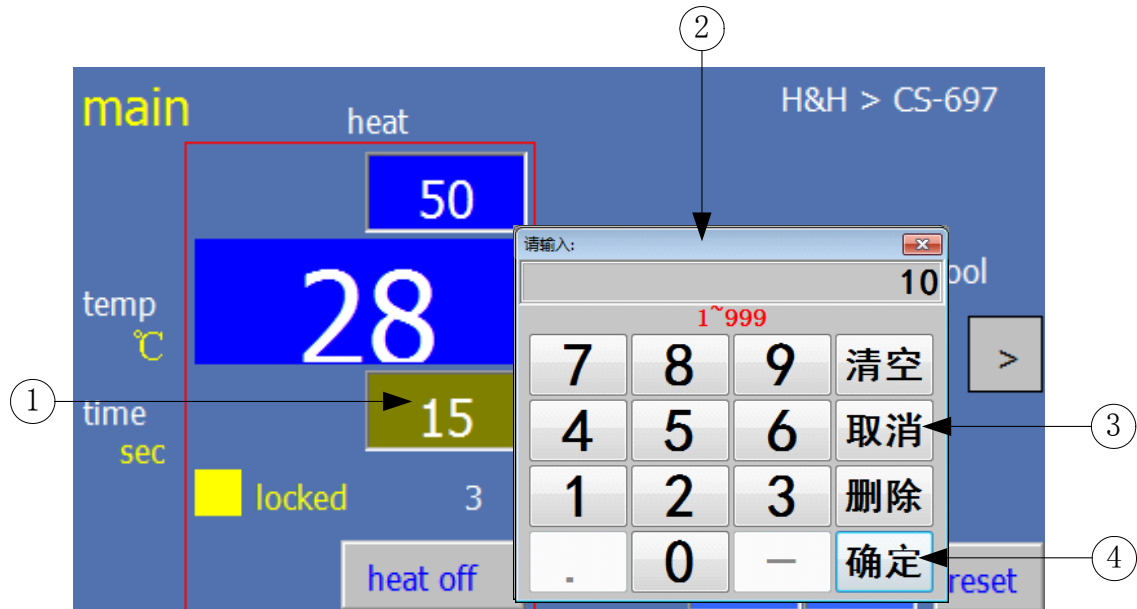
1. heating temperature preset button & display
2. input key pad
3. cancel
4. input accept

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

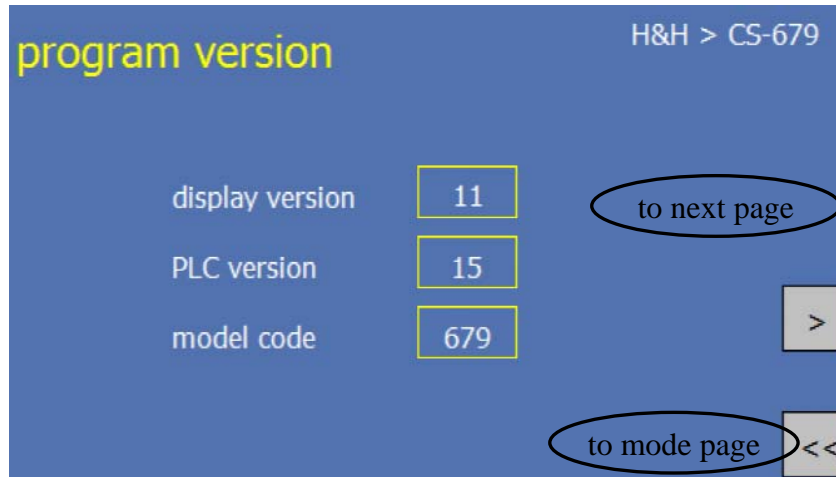
Press button #1 can preset the requesting heating press time. The key pad #2 for heating press time setting will pop up. You can enter the heating press time via this interface (input range 1~999 second) and confirm with the button #4 "ok" or if the original default setting is satisfied. Press button #3 "cancel" if there is no need to change.

Cooling press time can be set similar to heating press time.

## > Operation and Controls (cont.)

### >> Program version

The next page after “pressure” 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.

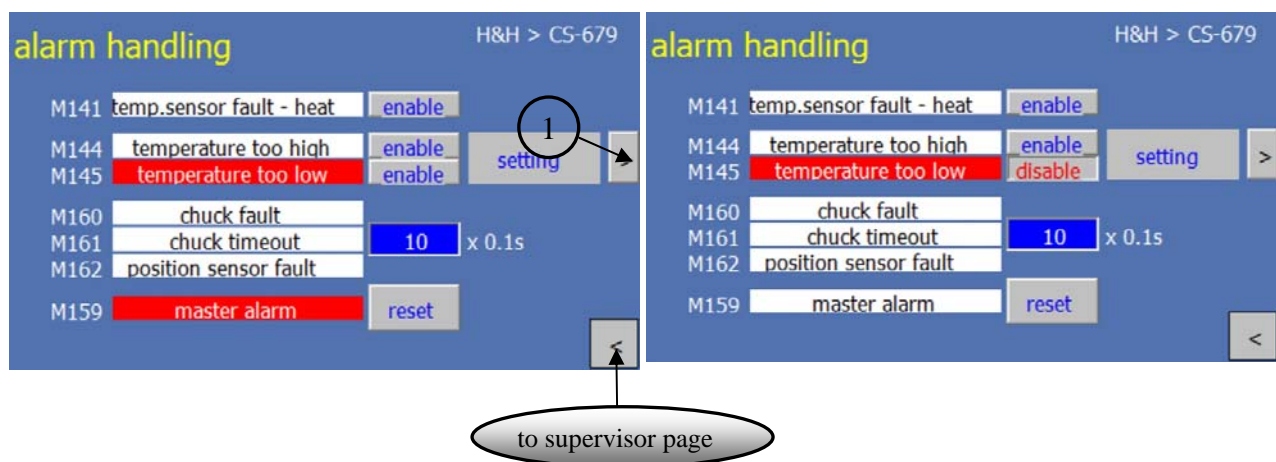


### >> Alarm Handling

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 showing some alarms and they caused master alarm.

Right one disabled these alarms and the master alarm was lifted.

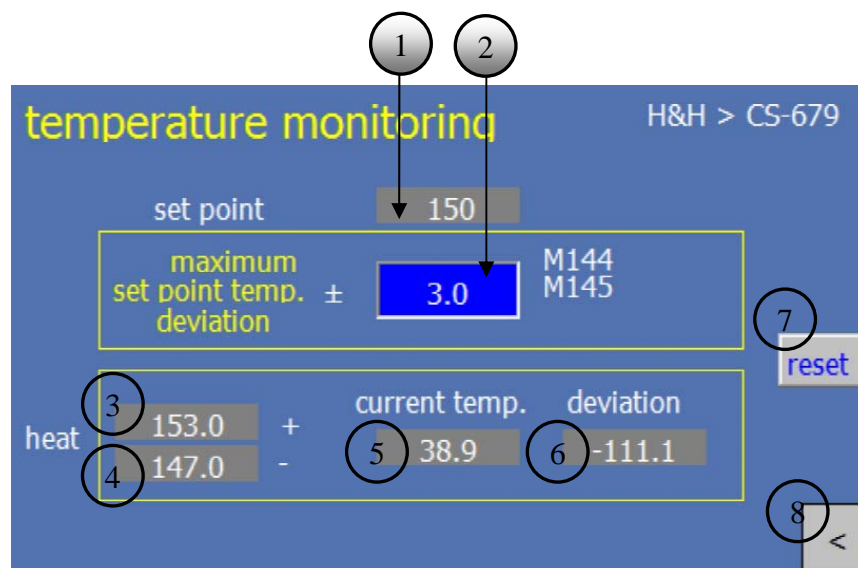


1. goes to temperature monitoring setting page

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.

## >> Temperature Monitoring Setting

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

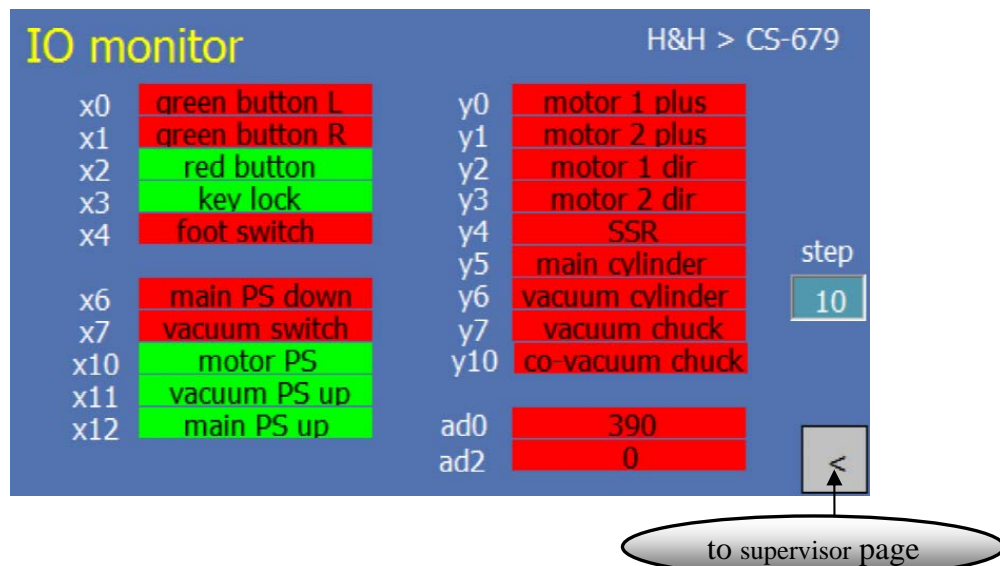


1. set the press temperature
2. set the temperature deviation alarm trigger set point (the range is marked underneath).
3. the maximum permissible hot temperatures
4. the minimum permissible hot temperatures
5. current temperature of the heating plate.
6. display the actual temperature deviation from the set point
7. reset the alarm after the temperature deviation alarm trigger set point is changed.
8. back to alarm handling page.

## > Operation and Controls (cont.)

### >> IO Monitor

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



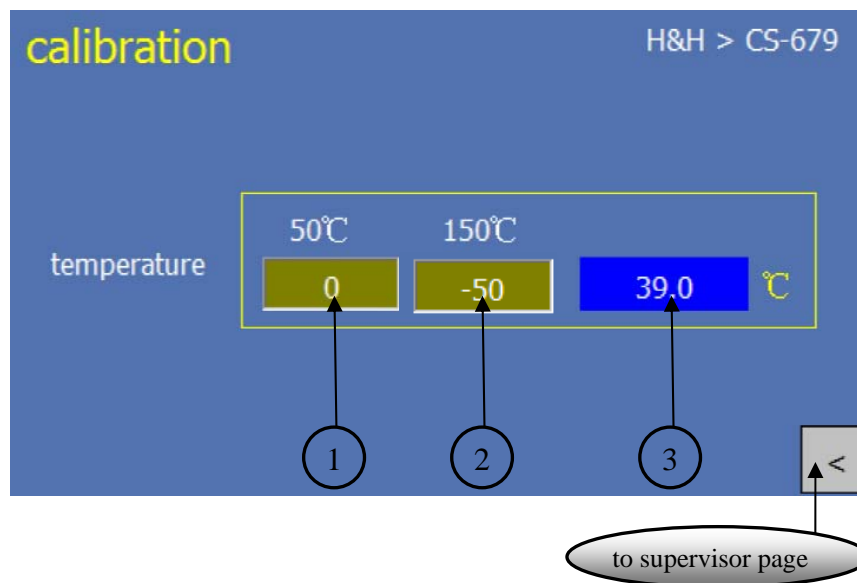
You can observe which limit switch is/are triggered in green, otherwise it will on red color. The step means the progress of the program is going.

### >> Calibration

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

Heat, cool corresponding to heating plate and cooling plate respectively.

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

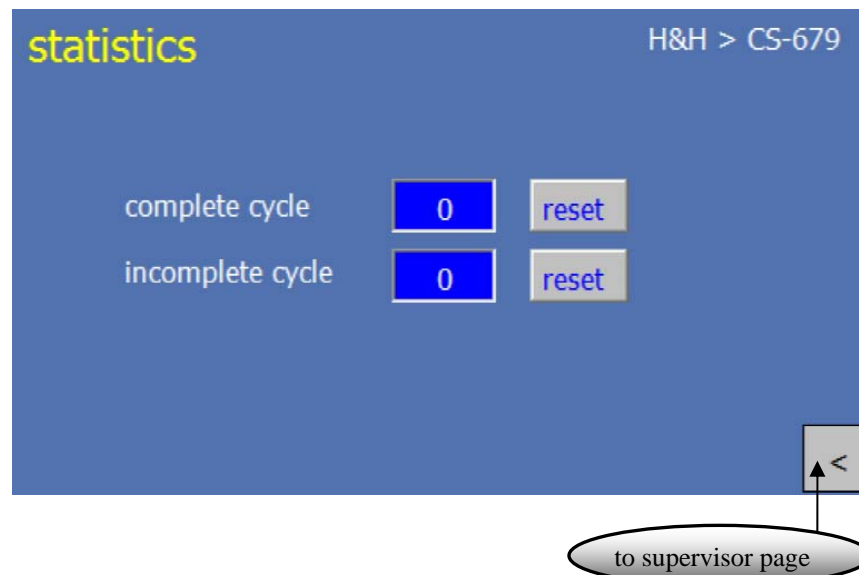


1. set the room temperature (range -100 to 100)
2. set the calibrating curve offset setting number (range -50 to 50)
3. the number in this row will change when the #1 or #2 is changed

\*For easier precise input, numbers appear here are using 0.1 as the basis unit, input 10=1.0 degree celsius (i.e. -50 at #2 is -5 degree celsius).

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

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

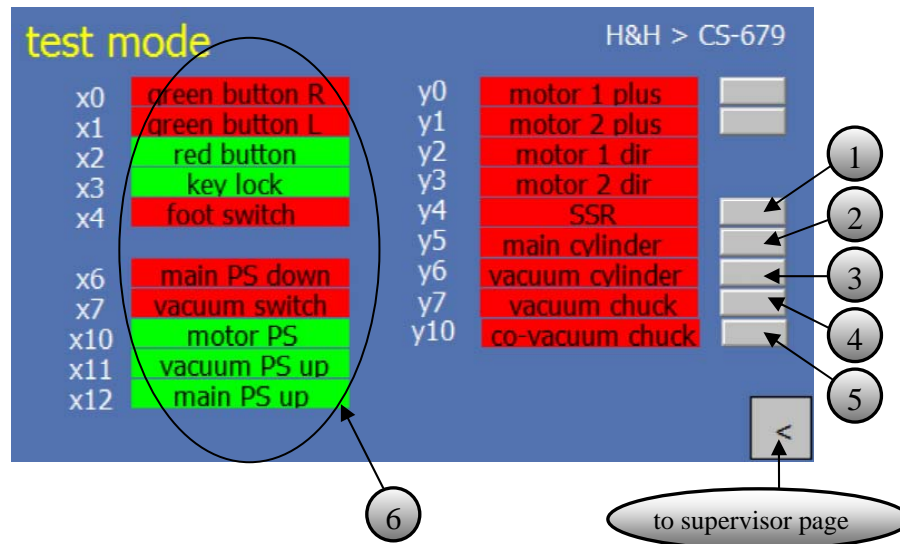


It will show the information of the complete press cycle and incomplete cycle times (triggered by cancel button or safety bar). You can reset both the cycle with the respective reset button. It can prevent the operator from illegally to break the immature cycle for increase the production rate.

## > Operation and Controls (cont.)

### >> Test mode

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

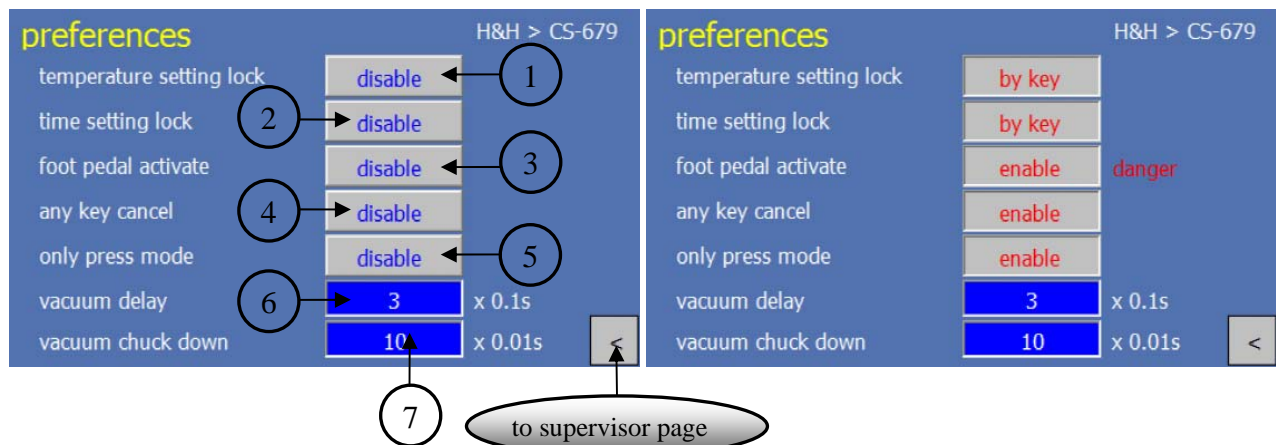


1. press to activate the heater
2. press to activate the main cylinder
3. press to activate the vacuum cylinder
4. press to activate the vacuum chuck (inhale)
5. press to activate the co-vacuum chuck (blow)
6. feedback of the respective parts (triggered in green while others in red).

## > Operation and Controls (cont.)

### >> Preferences

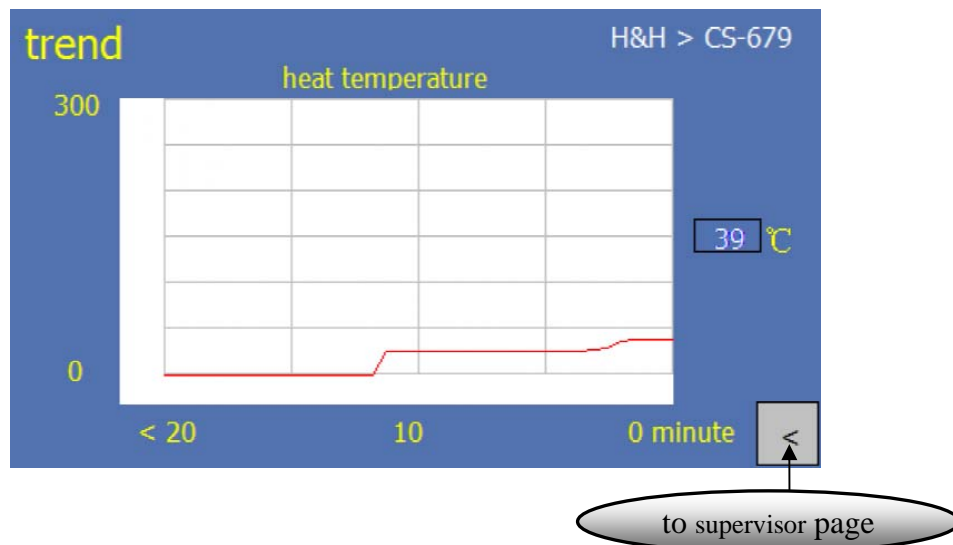
When you press the preferences arrow at the supervisor page, the “preferences” page will show up.



1. press to select the temperature setting lock “off” or “by key”
2. press to select the press time setting lock 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
5. press to select the only press mode “disable” or “enable”, the vacuum chuck will not inhale when the button turn to enable.
6. set the vacuum delay time, units is 0.1s.
7. set the vacuum chuck press down time, the vacuum chuck or the co-vacuum will run after it press down, units is 0.01s.

## &gt;&gt; Trend

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

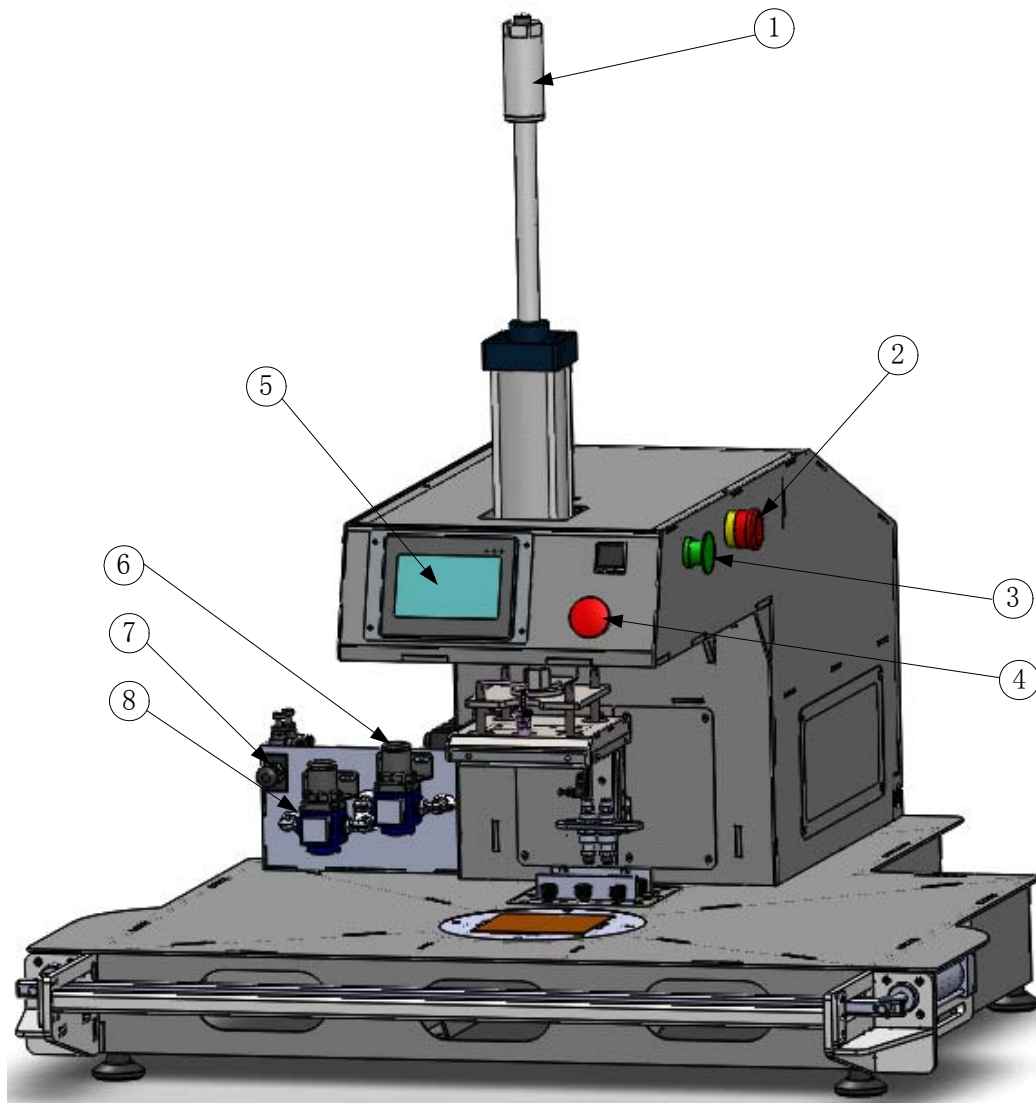


You can check the trend of the temperature in the recent 20 minutes



> Operation and Controls (cont.)

>> **Manual Control Console**



1. pressure adjusting knob
2. emergency stop button
3. right start button(work in pair with left start button)
4. stop/cancel button
5. touch screen control panel
6. press cylinder regulator
7. manual clamp solenoid valve
8. vacuum chuck regulator

Remark: left start button and right start button need to press simultaneously, otherwise it will not function.

**>> Press Pressure Adjustment**

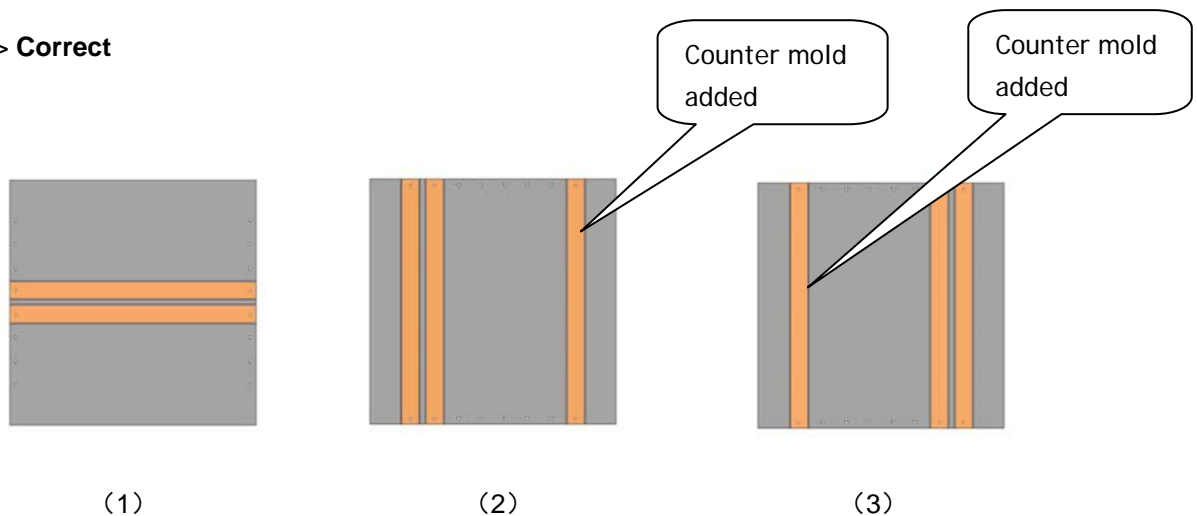
- A. Turning the knob on the compress air filter regulator to adjust the press pressure.
- B. Turning the press pressure adjusting knot for the cylinder to adjust the press pressure.

## > 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.

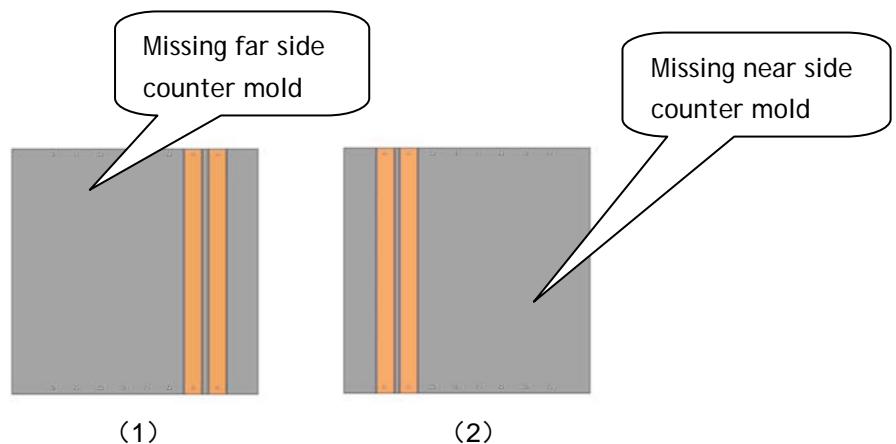
### >> Correct



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.

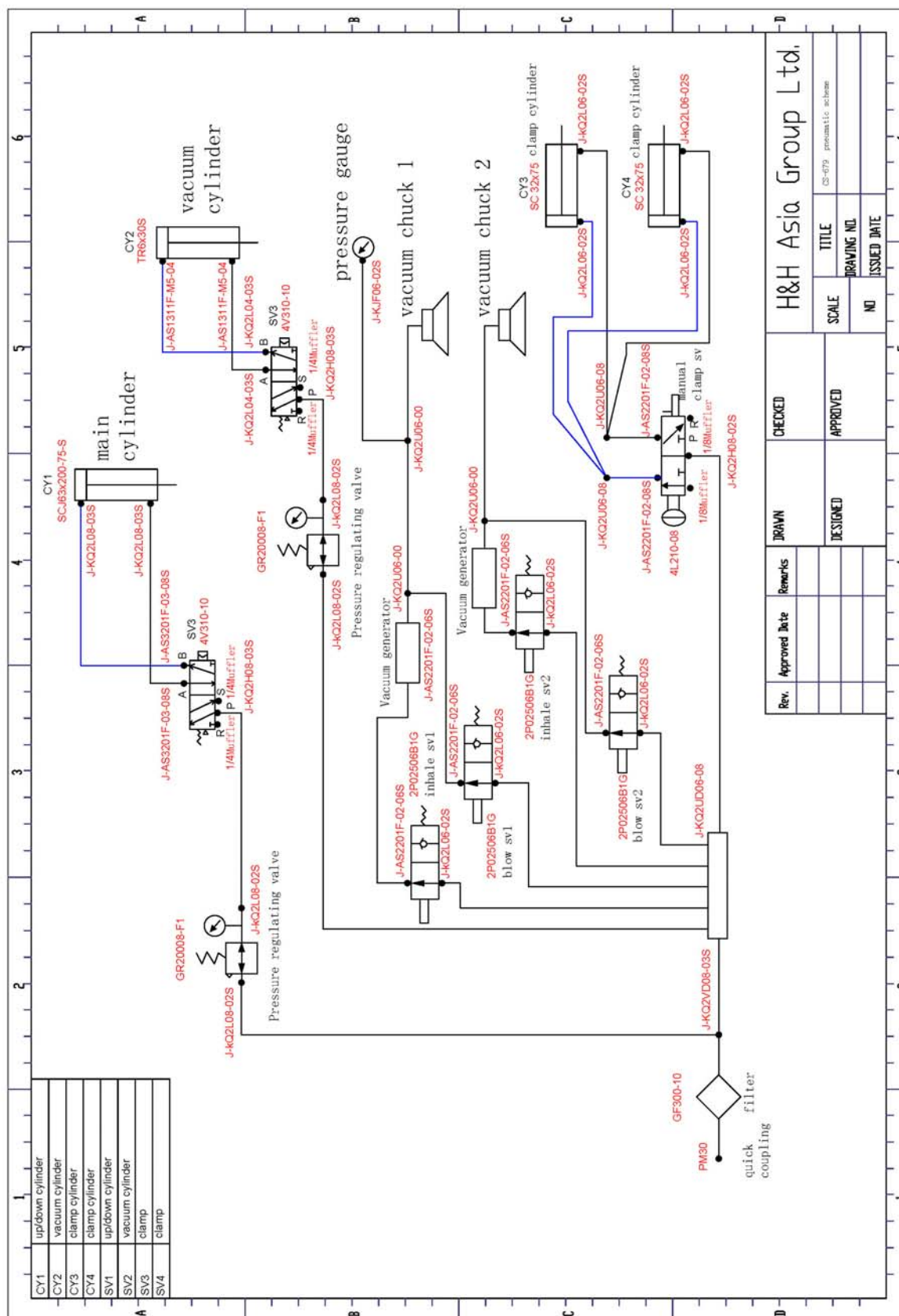
**>> Monthly Maintenance**

- 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<br>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>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    |

> Appendix A . Pneumatic Scheme



> Appendix B . Wiring Scheme

