



SPIN VACUUM TISSUE PROCESSOR

HTP31-60S



INDEX

1. Introduction	2
2. Interface Instructions	3
3. Operating Guide	8
4. Instructions	10
5. Matters Need Attention and Maintenance:	11
6. Main Technical Parameters:	11
7. Standard Packing List	12

1. Introduction

1. PLC and touch screen are adopted to control the working process, the operation is simple, the machine is stable and reliable.
2. Automatic specify cylinder position changing function
3. Operation intelligentization.
4. Stir dehydration is adopted to make the tissue be exposed to the solutions and paraffin thoroughly to ensure complete dehydration.(just for Vacuum type).
5. The range of the time setting is very wide: The maximum of the delay time is one month and the maximum of lasting working time for one cylinder is 10 hours. The unit is “minute” when setting the working time.
6. It adopts the intelligent thermostatic control in wax cylinder. Special material is sprayed on the inner surface.
7. The equipment must be turned off when you insert or pull out the power plug of wax cylinder(Pull out the total power plug).

Thanks for using the equipment of our company, please read the instructions carefully before using:

- 1 .Cylinders: There are total 12 cylinders for this equipment. The cylinder 1#-9# are glass cylinders, and 10#-12# are wax cylinders.
- 2 .Wax Cylinder: The wax cylinder has an intelligent temperature controlling system.(you can automatically set the temperature of the wax cylinder according to the paraffin melting point.)
3. Touch Screen: The screen is used to set various working parameters, display the information and data. Also, control the operating conditions of the machine. The detailed function can be found in the Operating Guide.

2. Interface Instructions

(Main operation interface)

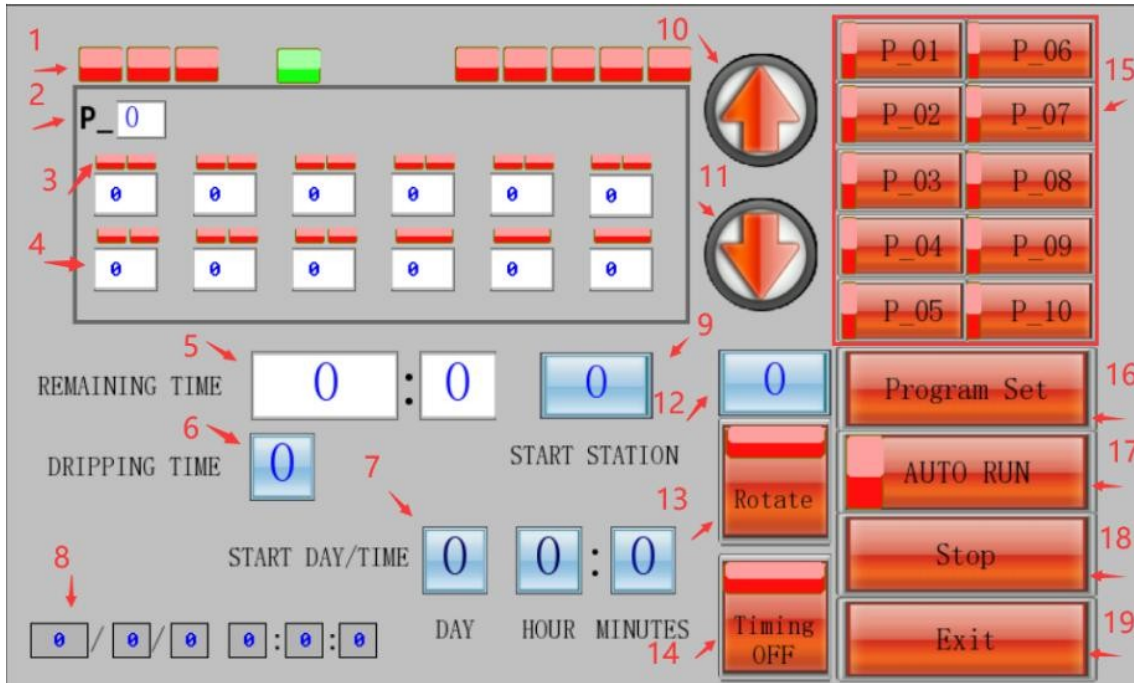


Figure 1 (Main operation interface)

1. Indicator light

(From left to right: Lower limit indicator lamp, Upper limit indicator lamp, Rotary cylinder indicator lamp, indicator lamp, Timing start indicator lamp, Rise indicator lamp, Drop indicator lamp, Rotating cylinder motor indicator lamp, Vacuum indicator lamp, Mixing indicator lamp)

2. Program number

3. Indicator light

Left cylinder indicator light: The lamp shows green when it runs to a certain cylinder.

Right vacuum indicator lamp: Vacuum when the light is green.



4. Current cylinder

working time (min)

5. Current cylinder work remaining time: Display the remaining running time of the current cylinder position. (min、 sec)
6. Drop time.
7. Delay start setting



Figure 2

Day、 hour、 minute

8. Current date and time
9. Starting and real time cylinder (The starting cylinder of the single dehydration basket is set at 1, and the double dehydration basket is set to 2.)
10. Manual lifting button
11. Manual lifting button
12. Specified cylinder position
13. Cylinder change start button
14. Time delaying press opening button
15. Program setting key program pre storage area: There are ten sets of reserved programs that can be set here, respectively P-1 to P-10 .It can be saved in accordance with the actual situation. Program settings key: When you press this button, enter the program default interface.

16. Program setting:

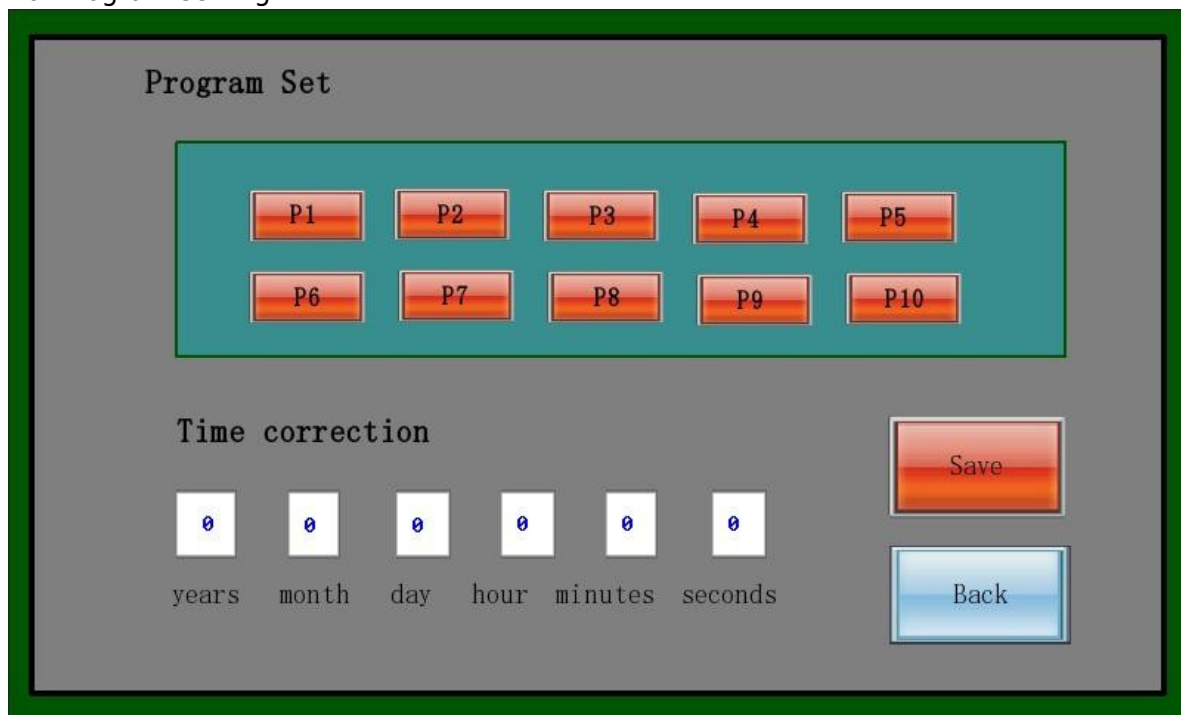


Figure 3

When clicking program setting Enter the interface Interface description

Program setting: as the picture P1 to P10 is a program setting area

Time correction: The current time and date are modified here. Click on the correct date and time.

set up programs:click P1 to P10 Access to the program settings interface is as follows

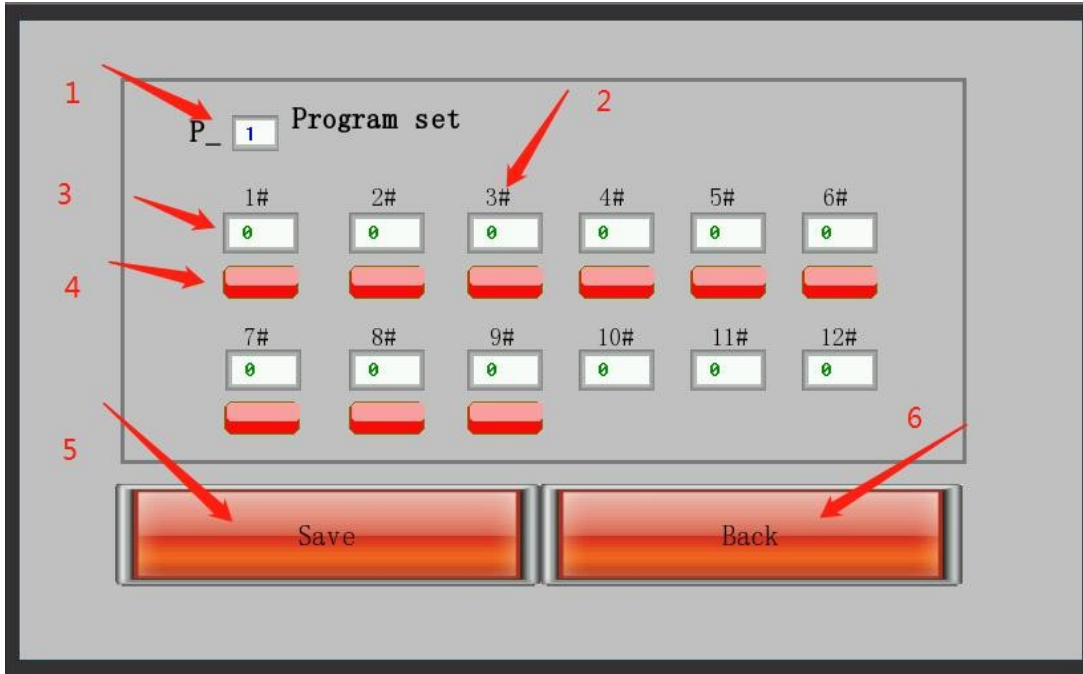


Figure 4

Interface description

(1)P- program number

(2)Cylinder number

(3)Click here to set the working time of this cylinder(min)



Figure 5

(4) Vacuum selection key:When the working cylinder needs vacuuming, click this button to turn it green.(just for vacuum type)After setting, click "save" button to save the program set up. Click back and exit the interface.

17. Automatic key : After selecting the program, click this button to enter the automatic state.

18. Pause key

19. Automatic exit button

21.(1) please select the program warning interface

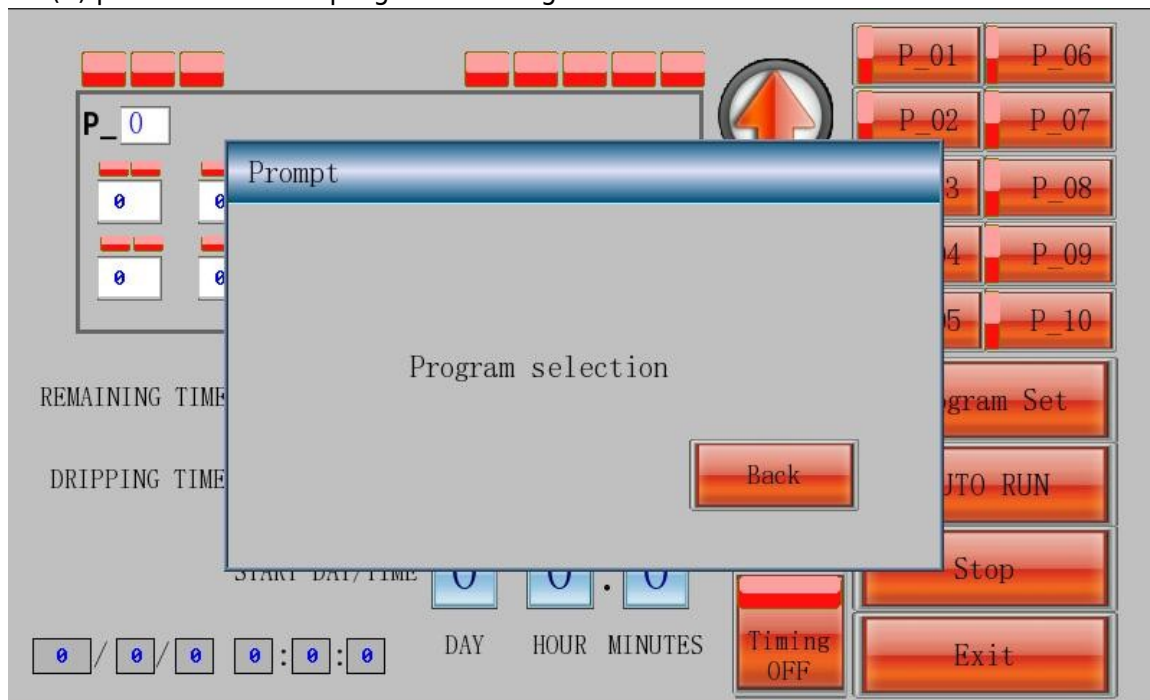


Figure 6

This interface prompts will appear if there is no selection program when the system is started automatically or timed.

Solution: click back to select the program and then do the operation.

(2) fault indication of the limit switch

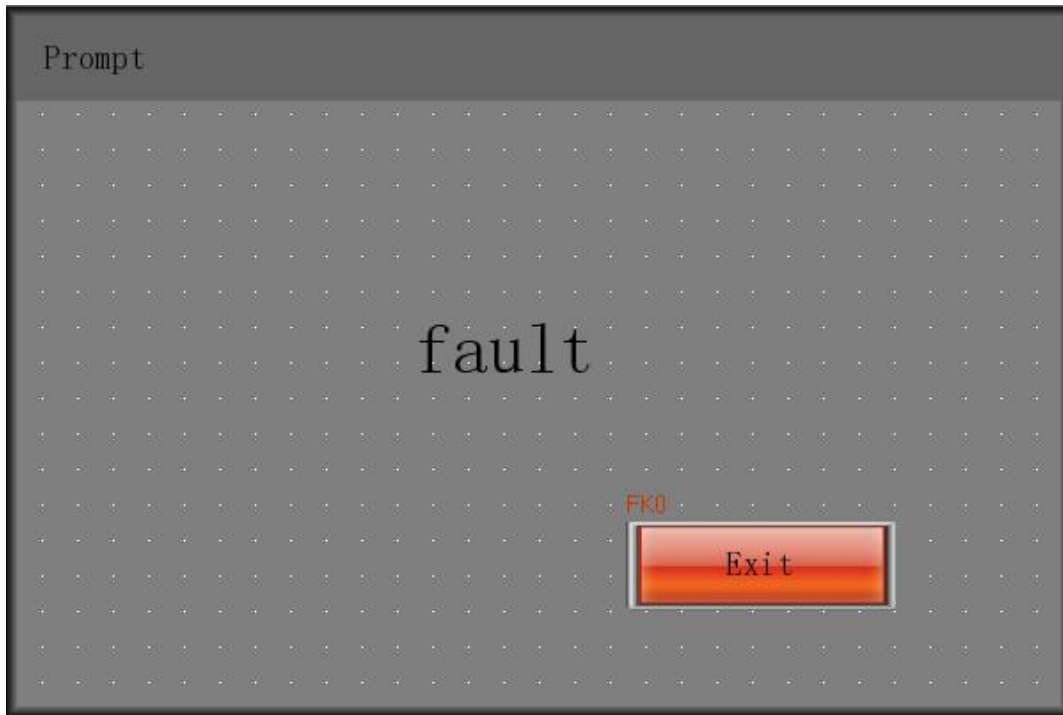


Figure 7

When the interface occurs, the limit switch is likely to fail.

Solution: first observe whether the basket is raised to the highest position (low position), if it is in place. Observe whether the indication light of the position switch in this position is lit, such as lighting up, exiting, suspending, and continuing to run. On the contrary, the limit switch is damaged and the limit switch must be replaced.

(3) finish the dehydration interface: when the dehydration is completed, the interface is completed.

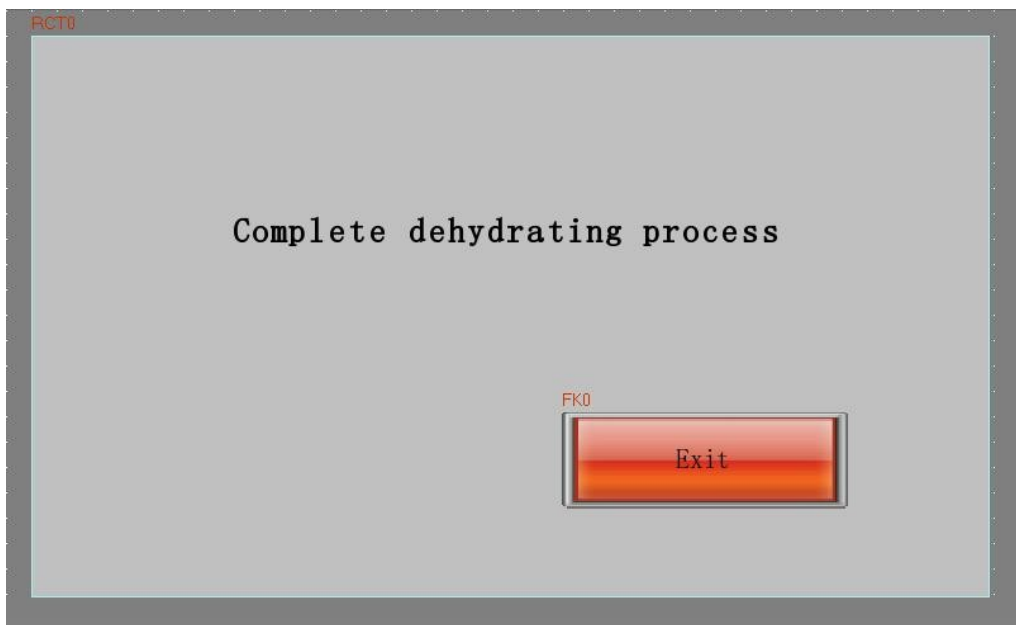


Figure 8

3. Operating Guide

Automatic operation setting

1. After startup, select "program settings" to enter the "program settings selection interface". Select the program button you want to set up to enter the program setup interface, and the program number shows the sequence number of the current setup program. The digital keyboard is set up by touching the time frame, and the time needed to set the current cylinder position is (minutes). The rest is the same. Choose whether the current cylinder is vacuumed. If you need to touch the vacuum button to make it green (red represents no vacuum). After the data is input, save the program and return it after operation. (the first boot process needs to be set up. When used again, it can be used directly for stored programs).

2. When the cylinder position is set, when the cylinder position is required, click the number of the starting cylinder position and pop up the keyboard to input the cylinder position you need. (double baskets must set the starting position according to the position of the first basket.)

3. after the program set up is completed, click the program P1 - P10 button to select the program lights to light, (check whether the starting cylinder position you need the cylinder) click the "automatic" button automatically after the light to enter the automatic running state. If you need to pause after entering the automatic running state, you can suspend the operation by pressing the "exit" button. After the pause, the manual lift operation can be made, and after the pause, it will return to the automatic state and continue to execute the unfinished program. (the automatic program can not set the program, manual operation and other operations) into the automatic running state after running to a certain cylinder position indicator light in turn, so the cylinder position for the vacuum indicator light will be lit. (vacuum instructions only for vacuum equipment) automatically run after completion of the "dehydration complete" dialog basket hint and sound alarm prompt.

4. Timing start

①First, select the program to run.

②Set startup time: set text box for startup time.



Figure 9

The first one on the left is day , enter here the date of extension within 30 days from this date,if Input 0,Representing every day

The second one is hour,Enter the start time (24 hour system) here. The last one is minute



After finish all the above set to select the program then click button, indicating that the lamp becomes green after entering the standby state, reaching the setting time and approaching the automatic running state until the dehydration is completed.

(2) manual operation

Manual button:rise ,drop ,Rotary cylinder



(automatic state can not be operated manually).

(3) time correction

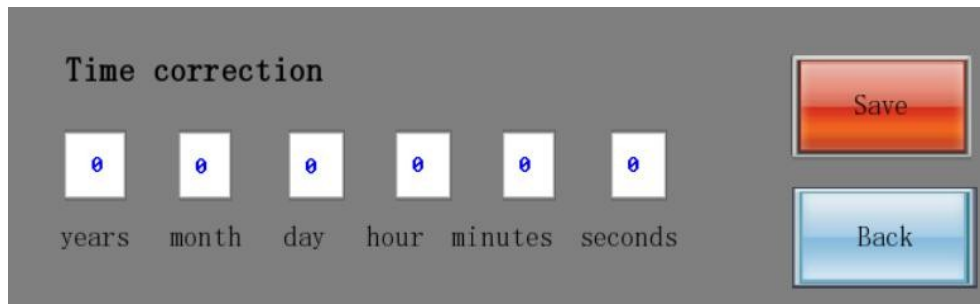


Figure 10

Click on the "program settings" button to enter the program settings interface, the current time and time when the error is modified here, fill in the correct date and time, click to modify, modify and click Save to return.

(4) Power off

During the automatic dehydration process , if the machine is powered off, the tissue will remain in the dehydration tank. After powering on the equipment again, the equipment will continue the pre power-off dehydration program until the program is completed.

4. Instructions

1. As the machine is in service, the current cylinder number is required to be in strict accordance with the cylinder position where the tissue basket is in. Otherwise, the actual dehydration time will be inconsistent with the set time.
2. Press the "manual" button to raise the tissue basket to the highest point, the solvent cylinder should be placed at the corresponding position(10#, 11# and 12# are wax cylinders). And then the tissue basket should be placed in cylinder position 1#. Select the program "P_1" and press the "automatic" button to enter the automatic operation status.(The others are likewise).As the program is completed, there will be buzzer warning.
3. Press the "manual" button to raise the tissue basket to the highest point, and then take down the tissue basket to complete the dehydration work.
4. This machine has the automatic fault alarming function. If the paraffin not melt in the cylinder during the automatic operating, the tissue basket will stopping moving to next cylinder after the obstacle probe giving a signal, it will prompt and alarm at the same time.

5. Matters Need Attention and Maintenance:

1. The machine is placed on the level and stable workbench and the working environment is free of water splash, fire, moisture and dust.
2. The machine cannot be installed in the place where there is chemicals and etchant gas.
3. The Power should be plugged into the special jack with ground electrode and the ground connection should be firm.
4. Cut off the power for maintenance.
5. Carry out regular maintenance for the machine.
6. Cut off the power to plug in and out the wax cylinder quick plug.

6. Main Technical Parameters:

1. Tissue Processing Stages: 12 stages
2. Solvent Cylinders: Number: 9, Volume 1.2L(HTP31-60S)
2.3L(HTP31-60S)
3. Wax Cylinders: Number: 3, Volume: 1L (HTP31-60S)
1.8L(HTP31-60S)
4. Tissue Basket Agitation: >10 Times/Hour
5. Mass: <60kg
6. Boundary dimension: Diameter 670×670×550mm (HTP31-60S)
810×810×590mm (HTP31-60S)
7. Stirring times: 5min /1time
8. Program time setting 0-999 minutes
9. Wax bath temperature setting range: 20~85°C
10. Nominal Voltage: AC200V 50Hz
11. Power: 350W
12. Service Environment: Environment Temperature: +5-40 C°
Ambient Humidity: <85% (20 C°±5 C°)

7. Standard Packing List

No	Name	Quantity
1	Host	1
2	Host Power Line	1
3	Glass Tank	9
4	Wax Cylinder	3
5	Wax Cylinder Power Line	1
6	Dehydration Basket	1
7	Product Manual	1

Table 1

LABSTAC

Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA

Email: contact@labstac.com | Website: labstac.com