

## GLASS LAMINATED MACHINE (FD-J-5-4) Brand: FANGDING (CHINA)

Glass Laminating Machine (2440\*3660\*4layers)



Floor Space	:	4520mm x 10500mm
Net Weight	:	4300 KG
Power	:	70 KW
Process Time	:	40 -120 Min
Production Capacity	:	107 m2
Outside Dimension	:	2965mm x 4600mm x 2150mm

No.	GOODS DESCRIPTION	Quantity	Actual pictures
1	<p><b>Heating furnace</b> Ni chrome Stainless steel heating tub 50mm rock wool insulation board 10mm angle steel</p>	1 set	
2	<p><b>Control box</b> Double SIEMENS PLC control systems with vacuum control function SIEMENS 10-inch touch screen Panasonic digital display vacuum meter and voltage meter</p> <p><b>Heating system</b> Four power regulators, temperature compensation, intelligent control heating</p>	1 set	

3	Piano control cabinet	1 set	
4	Vacuum pump cabinet	1 set	
5	Automatic Lifting platform	1 set	
6	Vacuum silicone bag Premium imported raw material	4 sets	

7	Vacuum pump	2 sets	
8	Vacuum buffer tank	2 sets	
9	Stainless steel High-temperature Tray & High temperature bearing	4 sets	
10	Circulating air motor	2 sets	
11	Teflon mesh	8 sets	
12	Glass cooling table	3 set	

13	Industrial cooling fan	3 sets	
<b>Other accessories are well-known brands in China, and the quality can be guaranteed</b>			

**SPARE PARTS:**

- ✓ Spare Vacuum silicone pipe 8m
- ✓ 1 bottle glass glue.
- ✓ 4 bottles vacuum pump oil.
- ✓ 4 pieces of small Silicone gel for repairing broken silicone bag
- ✓ 2 pieces of spare vacuum quick connector
- ✓ 2 rolls of green adhesive tape
- ✓ 2 heating tubes
- ✓ TPU FILM SAMPLES
- ✓ One box installation tools.
- ✓ Wireless remote
- ✓ Multifunctional alarm

The whole equipment frame adopts 8mm thick angle steel and is welded by carbon dioxide gas protection. Surface Electrostatic Spraying treatment, the inner liner adopts galvanized plate, padding with the heat insulating material between inside and outside.

All makes the entire equipment with good appearance, reasonable structure, strong and durable.

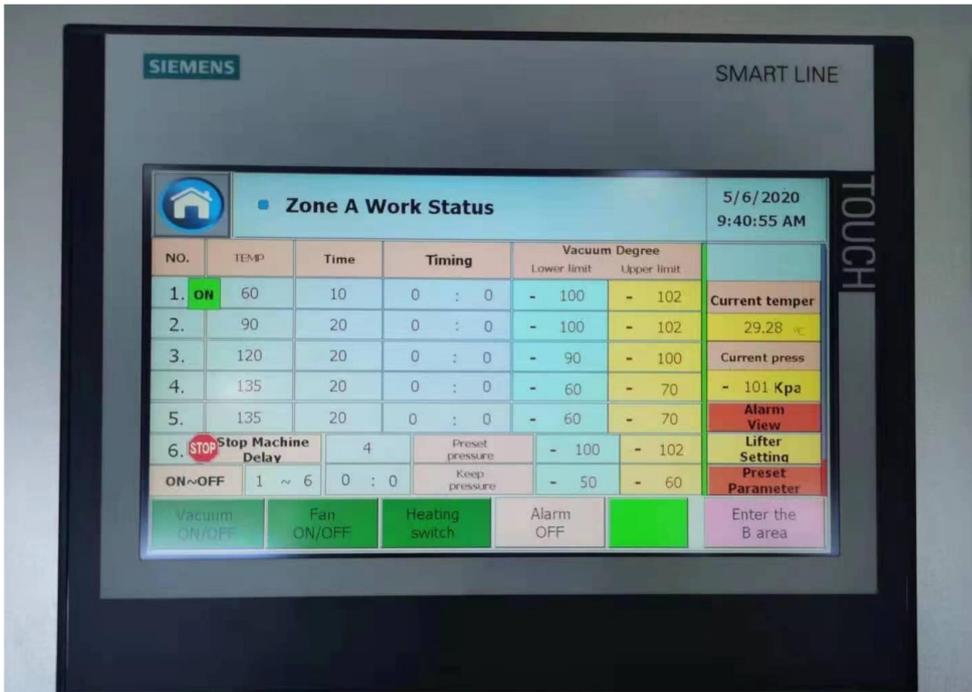


### **Main Feature**

- ✓ 50% energy saving
- ✓ 99%yield
- ✓ High production
- ✓ Double independent processing systems
- ✓ Five stages temperature control, more precise Glass cooling station, automatic cooling, cooling the glass quickly
- ✓ Large size bending laminated glass processing elevator lift platform
- ✓ Separate the vacuum pump and electric element, using a piano control cabinet and a vacuum pump cabinet
- ✓ vacuum pump maintenance time reminder



**Control Cabinet**



① Introduction to the control system

- ✓ Control system adopts touch screen and PLC control;
- ✓ Multiple languages can be set up.
- ✓ With memory function, 10 sets of parameters can be stored
- ✓ Have Analog control, vacuum gauge, control button, lifting table remote
- ✓ Five Temperature section, from low temperature to high temperature
- ✓ The degree of vacuum can be adjusted.
- ✓ Have memory function, can save a variety of processing parameters

Let the temperature rise slowly, with the vacuum degree adjustment

- to prevent the flow glue and weak intermediate strength
- There will be no bubbles.

② The PLC control cabinet looks like the piano ,it will be more convenient to write down something.



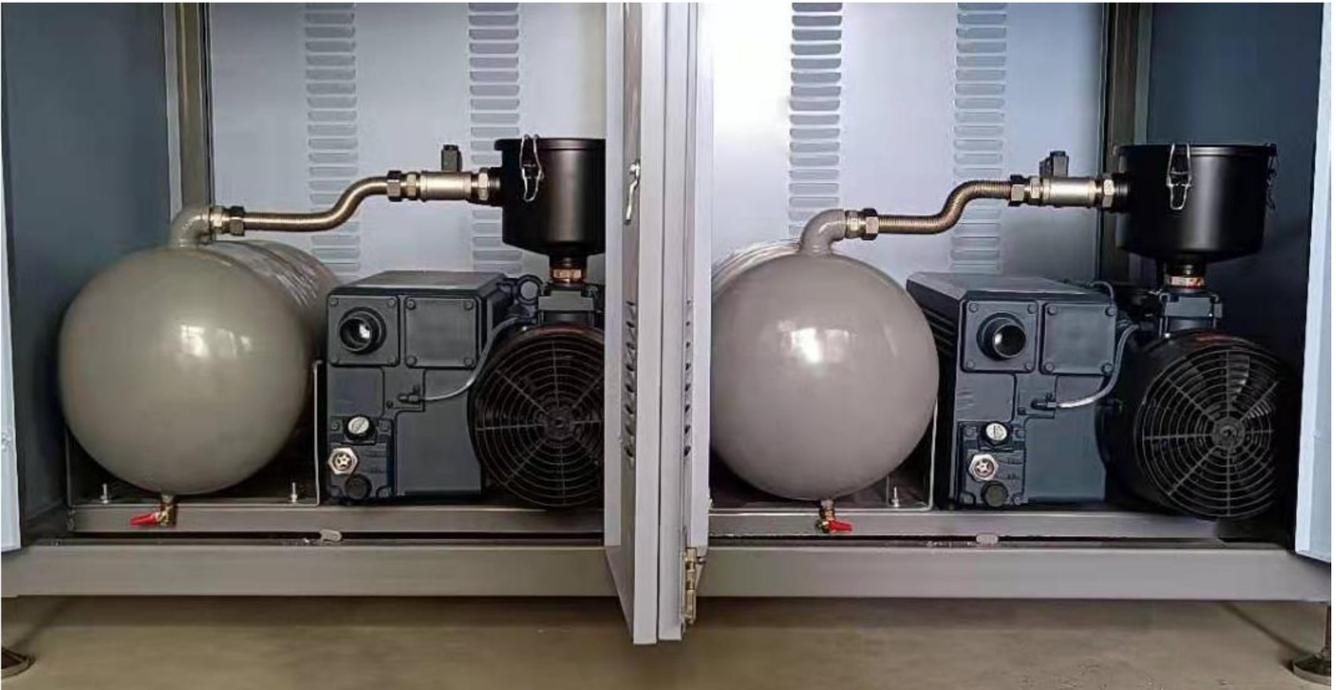
③ The vacuum pumps and electrical elements are separated, so that could reduce the damage to the electrical elements caused by the vibration of the vacuum pump; improve the service life of those spare parts.

④ There has a cooling fan inside of the cabinet. We set a temperature (such as 30 °C ) as basic value , if the temperature exceed it ,the fan will work .So that we could reduce the damage due to the high temperature

⑤ When the temperature of the furnace body exceeds 180 degrees, the main circuit will automatically cut off the heating.

⑥ **Vacuum pump** is connect buffer tank, can ensure if suddenly Power of, Prevent the waste.

It could continuously work for 24 hours, the tank could ensure vacuum for silicone bag and make sure high product yield.



## Heating System



① 28 pieces of stainless heating tube. 4 layers are divided into Area A and Area B. Each area has 14 pieces. 6 of them were distributed on the top and 8 were distributed on the bottom. The heating tubes are more closely distributed near the door. There have 4 thermocouples.

② There has four power regulators working independently. the front 8 heating pipes are connected with one power regulator, and the rear 6 heating pipes are connected with one power regulator, so the temperature is relatively uniform. The temperature difference in the furnace will not exceed 3 °C.

E.g.; when the temperature of A2 is 80 °C and the temperature of A1 is 77°C, A2 will stop heating; when the temperature of A1 reaches 80 °C, A2 and A1 will be heated at the same time, so that the temperature in the furnace is relatively uniform), Area B, same principle.

③ We adopt patented heating system ,Heat up and down, like carpet, Turbo blower make hot air circulation and strong convection inside of furnace ,equipped with temperature sensing device, it can reflect and adjust temperature automatically, heating fast and evenly. Heating fast and evenly can improve yield .Beside the heating-insulation system adopts seamless welding, minimize the passage of heat. Compared with other similar machines in markets, it saves electricity more than 50%., have a long service life



- Between the PLC control cabinet, the furnace and the glass lifting table, there is a heavy duty connector. All wiring is put in the plastic pipe.
- Electrical connection problems have been solved by pull up or plug in the heavy duty connector.
- In this way, the installation step has been simplified. Maintenance and replacement of the line become easier.





- Can laminated bending glass, The maximum radian is 360mm

## Cooling Table



- The cooling the faster, the better the transparent
- The three fans can speed up the glass cooling and improve the transparent.

- When the glass finished, just take out the tray, and put it on the cooling table, there has cooling fan.

### Silicone Bag



- The silicone is 3 mm ,can stand high temperature to 180 degree
- With high tear resistance,aging resistance,good sealing,can make sure the laminated glass in a high seal and vacuum rata in processing.
- The maximum thickness of machinable glass is 36mm



- Teflon net protects silicone bag from injury

## Lifting Table



- Wireless Remote Control. Elevator lift
- The height of the platform to each layer has been designed and fully automated, save time and labour.

## Customer Factory usage

