

Portable Banner Welder

JC-2000-GM

User Manual



i. Applications

It can be applicable for welding PVC-P、PE、TPO、ECB、CSPE、EPDM、PVDF and other Coated fabric covering, foil and homogeneous or coating sealing film and PE coating fabric.

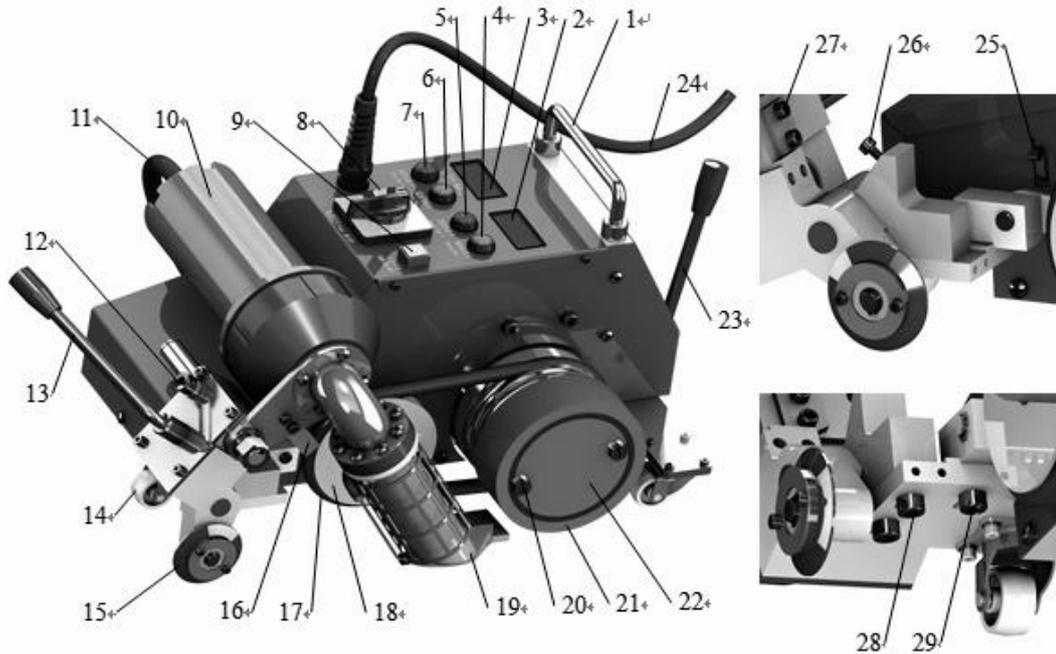
ii. Notice

1. Unplug the tools before opening it to avoid of being hurt by exposed wires or component inside the machine with power
2. Incorrect use of it can cause fire and explosion hazard because of high temperature, especially near combustible materials and explosive gases.
3. Don't touch heater tube and nozzle when they are hot. They may cause burns. Don't point hot air flow in the direction of people or animals.
4. The voltage rating stated on the welder must correspond to line/mains voltage (220V).
The drop cable / wire with protective earthed conductors can only be used.
5. To ensure operator safety and reliable operation of equipment, the power supply must be installed power supply and leakage protection at the construction site.
6. It must be running at the correct use of manipulation of the operator, or they may cause a fire or explosion caused by high temperature.
7. Don't use welder in the water, or on a muddy construction site, to avoid flooding, rain or moisture.

iii. Technical Parameters

Voltage	220	V
Frequency	50	Hz
power	2000	W
Temperature	0~620°C (32~1148°F)	
Welding speed	1~12	m/min
Welding width	20/30	mm
Size(L*W*H)	475*290*205	mm
Weight	13	kg

iv. **Description**



1.	handle	11.	Hot air blower power wire	21.	Drive silica roller
2.	Speed display screen	12.	Positioning screw	22.	Drive roller
3.	Temperature display screen	13.	Operating handle	23.	Lift lever
4.	Speed setting knob (+)	14.	Universal wheel	24.	Power cord
5.	Speed setting knob (-)	15.	Guide wheel	25.	Micro switch
6.	Temperature setting knob (+)	16.	Micro switch connect	26.	Adjusting screw
7.	Temperature setting knob (-)	17.	Round belt	27.	Guide pad
8.	ON/ OFF switch	18.	Belt wheel	28.	Hot air nozzle adjusting screw
9.	Moving switch	19.	Hot air nozzle	29.	Driver roller adjusting screw
10.	Hot air blower	20.	Drive silica roller fixed screw	30.	Heating element

v. Controller Panel

- ON/OFF switch (8) is used for open the main power of the welder
- Open ON/OFF switch (8), LCD display is shown as figure 1, the hot air blower is under natural wind without heating.
- Press the button (7) and (6), the screen shows as Figure 2 and the hot air blower starts to heat until to the setting temperature.



- If press the bottoms (7) and (6) at the same time, LCD display shows as figure 1, the hot air blower is under natural wind without heating.
- When the welding nozzle is at the right position, press the moving switch (9) and the welder starts to move and weld. It will stop move if you press the moving switch again.
- When the welder starts to move, the LCD display shows as figure 3.



Figure 1



Figure 2



Figure 3

VI. Welding parameters setting

1. Welding temperature

Using bottoms Temperature setting knob+  and Temperature setting knob-  on the panel to set the required temperature. You can set the temperature according to the welding materials and the ambient temperature. LCD display will show the set temperature and the current actual temperature.

2. Welding speed:

Using bottoms Speed setting knob+  and Speed setting knob -  on the panel to set the required speed according to the welding temperature. LCD display will show the set speed and the current actual speed.

3. The machine has a memory function parameters, namely when you use the welder next time, the welder will automatically use the last set of parameters without having to re-set parameters.

VII. Positioning the welder

Pressure Lift lever (23) to lift machine, move it to welding position (the edge of upper membrane should keep in the same alignment with Drive silica roller (21) and the edge of Guide wheel (15), as shown in figure 4.

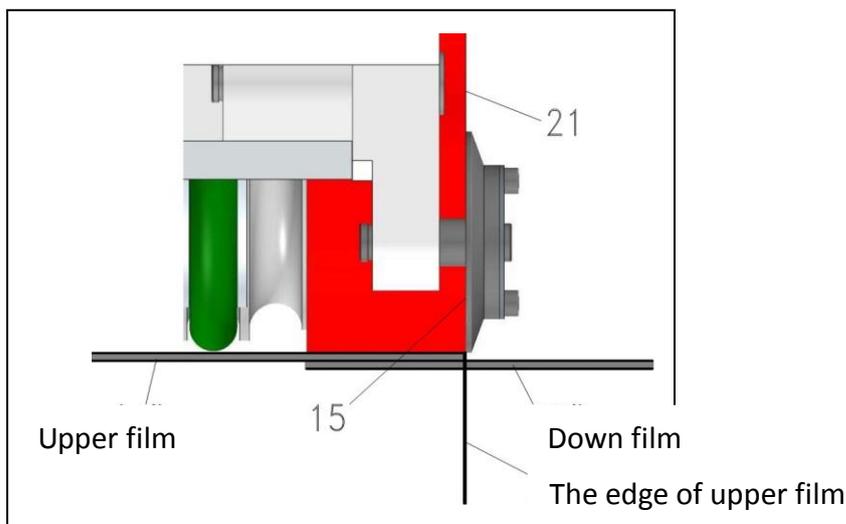


Figure 4

VIII. Using Condition

1. The distance between hot air nozzle and ground should be shown as figure 5 (We have adjusted the distance) .
2. The distance between hot air nozzle and Drive roller should be shown as figure 6 (We have adjusted the distance) . You can adjust Hot air nozzle adjusting screw (28) if the distance is not right.

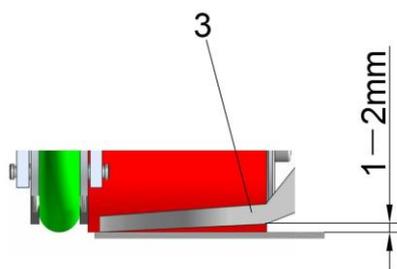


Figure 5

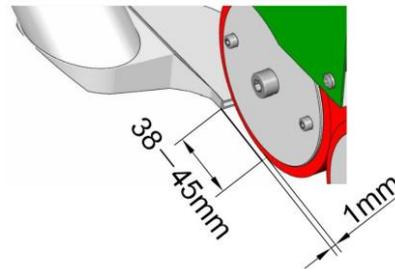


Figure 6

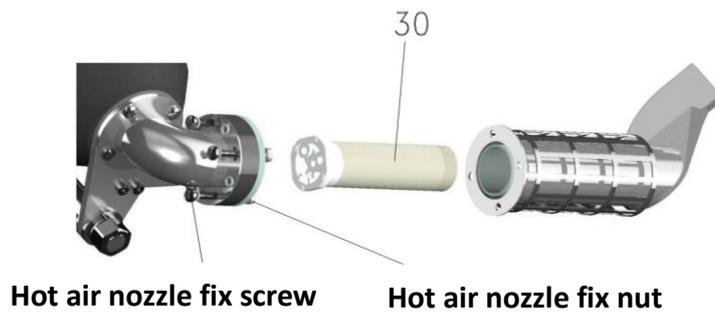
IX. Welding process

1. Setting the welding parameters according to the data of welding test.
2. Please wait the actual temperature value reaching the setting value.
3. Positioning the welder
4. Lift the operating handle (13) to lower down the hot air nozzle (19) to close the down membrane, counterclockwise Operating handle (13) to place hot air nozzle into the overlap membrane. The machine would start walking and welding automatically.
5. To observe the relative position of Guide wheel (15) .
6. When the welder walks into the end of material, clockwise the operating handle (13) to pull the hot air nozzle to right side. Then pressure the operating handle (13) to lift the hot air nozzle.
7. After finish the welding job, press the Temperature setting knob+  and temperature setting knob-  to make the hot air blower in a cold blowing condition in order to cool the nozzle.

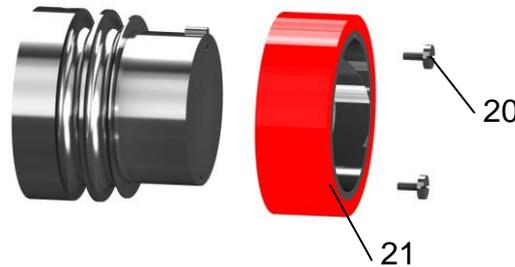
8. Last step is to off the power.

X. Parts Replacement

- Replacement of heating element unplug the thermocouple connector (30), loosen the four fixing screws of nozzle. Then you can remove the heating element after removing the nozzle, as shown on the below:



- Replacement of Drive silica roller, loosen Drive silica roller fixed screw (20), and then you can take down drive silica roller (21), As shown on the below:



XI. Fault diagnosis and solved ways

The fault performance	Caused reasons	Solved ways
Welder cannot walk when hot air nozzle at the right place	Micro switch is not in right place	Adjust Micro switch (16) to right place
The position between hot air nozzle and drive roller is not right		Loosen Hot air nozzle adjusting screw (28) to adjust it

XII. Routine maintenance

- Use steel brush to clean the hot air nozzle
- Clean the air inlet at the back of the hot air blower