BENTEC LTD

Double Station Hot Bar Soldering Machine HBS-4AM

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Double Station Hot Bar Soldering Machine HBS-4AM

Double Station Hot Bar Soldering Machine HBS-4AM :

- LCD Control panel
- Digital temperature controller
- CCD+Display for accurate positioning
- Double soldering stations
- Self-developed software ,fool-style programming.
- Molybdenum alloy soldering tip,fast heating speed and long life time
- The Z axis is step motor can be preset to soldeing pressure

HBS-4AM Hot Bar Soldering Machine use thermode technology that based on repid reflow by pluse heating to effectively solder flexible board on the PCB .Real time display on the touch screen.Can use CCD+displayer can accurate positioning and soldering quality check.The Z axis is controlled by a stepper motor and can be preset to soldeing pressure.Double soldering station with high soldering efficiency.X/Y1/Y2/Z four combine axis.Soldering position can be programmed on the touch screen.

HBS-4MA Can handle PCBs up to 140*130mm *2pcs

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Double Station Hot Bar Soldering Machine HBS-4AM Features:

1. In response to different products, the heating rate can be adjusted

2. Molybdenum alloy soldering tip ensures average temperature, fast heating and long life time.

3. The soldering tip is specially designed with horizontal adjustment to ensure the average pressure of the components.

4. Temperature control, clear and precise

5. With digital pressure gauge, preset pressure range.

6.The X,Y1,Y2,Z all of them use precise step motor.

7. Using precise PID control, phase angle instead of pulse drive

8. Low vibration, low noise, no voltage fluctuation

9. The soldering tip replaces the traditional titanium alloy with molybdenum alloy, which has fast heating and cooling, good heat transfer coefficient and wear resistance.

10. Small size, push-pull left and right, two soldering stations can be placed to improve work efficiency

11. Height Z axis adjustable, accuracy is ±0.01mm

12.Precision step motor control, accurate and stable than traditional cylinder type.

13 .With pressure detection function, it automatically detects and adjusts the pressure to solve the problem of uneven force. We will replace the Z axis with a servo motor (Option)

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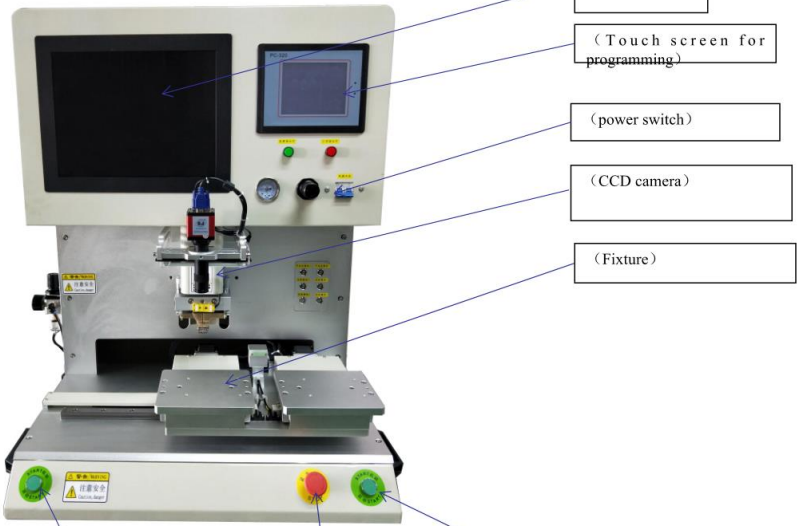
Double Station Hot Bar Soldering Machine HBS-4AM Hardware :



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Double Station Hot Bar Soldering Machine HBS-4AM specification :

1	Machine Size	L820*W680*H900mm
2	Working Area	140mm*130mm*2pcs
3	Machine Weight	About 85kg
4	Air Pressure	0.45-0.70Mpa
5	Power	AC220V±10%50HZ.2300W
6	Temperature setting	3section
7	Work Environment	10～60℃，40%～95%
8	Soldering Pressure	1~100N
9	Soldering Pressure Accuracy	±1N
10	Temperature Setting	RT∽500℃, Accuracy±2℃
11	Heating Rate	250℃/s
12	Soldering Time	1-99.9S
13	Soldering Precision	Pitch 0.2mm
14	Soldering tip Size(M)	Max 50*3mm (or Customized)
15	Soldering tip Flatness	±0.02mm
16	Soldering Pin Range	＞0.2mm
17	Contraposition Mode	CCD+ Display
18	Material Placement Method	Manual
19	Start Mode	Hands
22	Heating Mode	Pulse heating, the rise time is 1~2S
23	Platform Moving Mode	Left/Right Platform (Signal X axis;Double Y axis)
24	Platform Control	Servo motor + screw, Accuracy <0.02mm
25	Pressure Soldering Output	Motor Drive (closed-loop control)
26	cooling method	Air cooling

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Double Station Hot Bar Soldering Machine HBS-4AM Configuration:

Item	Main configuration name	Place of origin
1	Precision reducer	Taiwan
2	Rotary motor	Precision stepper motor / Panasonic servo
3	Rotary drive	Stepper drive / Panasonic servo
4	ZL press motor / push down drive	Precision stepper motor / Panasonic servo
5	Linear Guides	Taiwan silver
6	screw rod	TBI
7	Photoelectric Sensors	Omron
8	Pulse transformer	customized
9	System controller	Self development
10	Switching power supply	Taiwan Ming weft
11	Motor drive power	Customized
12	Liquid crystal display	/
13	CCD	/
14	The pressure regulating valve	Airtic
15	Solenoid valve	Airtic
16	Precision adjusting knob	/
17	Button	schneider

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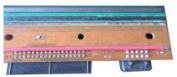
Double Station Hot Bar Soldering Machine HBS-4AM Application :

Advantages: ultra-fine spacing soldering can be achieved; Digital temperature display; Soldering speed 3-5s

Suitable for：

1.FPC-PCB soldering
2.FPC-FPC soldering
3.FPC- ceramic wafer soldering
4.FPC- ink cartridge plus chip soldering

Application		
		

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Double Station Hot Bar Soldering Machine HBS-4AM configuration :

◎ Hot Bar Soldering Machine
◎ Start button*1pcs
◎ CCD+disply *1set
◎ Air pipe*1pcs
◎ 1 year parts warranty

Double Station Hot Bar Soldering Machine HBS-4AM Optional configuration :

◎ Customized precision fixture.
◎ Customized Soldering tip
◎ Start button
◎ Emergency Stop button