



HSC Zebra Paper Category

Company Profile

Shenzhen Jiemai Precision Automation Co., Ltd. was formed from 2003. It is a service provider integrating research and development, manufacturing, and sales on customized machine of pulse soldering & hot pressing, hot melting, normal pressing, and bonding for 3C electronic products such as Bluetooth headsets, cell phones, smart watches, tablets and so on.

After nearly 20 years of development, the company has cultivated a group of experienced and innovative senior engineers, and has a pre-sales, in-sales, and after-sales service team with excellent business quality, willing to provide you with Professional technology consultation, technical support, training, and other services.

Shenzhen Jiemai Precision Automation Co., Ltd. always adheres to the product concept of high reliability, high quality, and high performance, and continues to reduce costs and improve production quality and efficiency for customers!

Introduction to HSC Zebra Paper Series Process

Conductive zebra paper, also known as Heat Seal Connector (HSC), is commonly known as conductive zebra paper, hot pressed paper, etc. The zebra paper is pasted onto the PCB board and LCD glass through hot pressing. The black part of the zebra paper is connected to the corresponding circuit of the PCB pad or LCD glass substrate, and then the hot pressing head is pressed onto the zebra paper for 5-7 seconds before releasing it. The zebra paper is then



connected to the PCB pad.

According to different products, the heating speed can be adjusted, and the pressure head ensures average temperature, fast heating, and exceptionally long service life. The pressure head adopts a horizontally adjustable design to ensure average component pressure, CNC temperature control, clear and precise, multi-layer insulation, and accurate hot pressing temperature and time. It is widely used for the interconnection of electronic and electrical devices such as LCD displays and circuit boards, circuit boards and circuit boards, circuit boards and solar panels.

LCD/PCBA/HSC
Manual loading

vac-sorb



Manual
counterpoint

Start

Manual
blanking



HSC Zebra Paper Hot Press Machine Comparison

Description	M-124CR Table Four Station Rotary Hot Press Machine	M-224CR Vertical Four-Station Rotary Hot Press Machine
Picture		
Size (L*W*H mm)	550*580*820	960*1500*1700
Weight(kg)	About 150	About 350
Use for	Suitable for zebra paper unilateral and bilateral alignment and hot pressing	Suitable for zebra paper unilateral and bilateral alignment and hot pressing
Hot head material	Imported copper	Imported copper
Hot head size	LCD:L70*W1.5mm PCB: L70*W3mm (customization)	LCD:L70*W1.5mm PCB: L70*W3mm (customization)
Product platform size	L200*W150mm (customization)	L200*W150mm (customization)
Flatness of hot pressing head water	≤0.05mm	≤0.05mm
Hot head operation mode	Cylinder	Cylinder
Hot pressing head water flatness	Add steel ball between two components, screw fixed adjustment	Add steel ball between two components, screw fixed adjustment
Thermocouple model	K type	K type
Hot press head number	2 pcs	2pcs
Product workbench	General purpose/special positioning block	General purpose/special positioning block
Platform operating mode	Four station motor	Four station motor



mould material	Imported hard magnesium aluminum	Imported hard magnesium aluminum
Counterpoint system	Upper counterpoint mode	Upper counterpoint mode
LCD alignment adjusts the micrometer distance	6.5mm	6.5mm
PCB alignment adjusts the micrometer distance	6.5mm	6.5mm
Maximum width of zebra paper	70mm	70mm
Flatness of the mold	≤0.05mm	≤0.05mm
Heating method	Constant temperature heating	Constant temperature heating
Pressure control	precision pressure regulator	precision pressure regulator
Temperature controller accuracy	≤±5℃	≤±5℃
Pressure indication	Pointer barometer/unit:Mpa	Pointer barometer/unit:Mpa
Pressure setting range	0.1 - 0.5 Mpa	0.1 - 0.5 Mpa
Working pressure range (measured))	4 - 40 Kg	4 - 40 Kg
Temperature setting range	Room temperature -400 ℃	Room temperature -400 ℃
Operating temperature range (measured)	Room temperature - 250℃	Room temperature - 250℃
Hot pressing time range	1 - 99 S	1 - 99 S
Alignment system/way	Alignment on 4 groups of CCD	Alignment on 4 groups of CCD
Light source system	4 way 25MA White LED bend lights	4 way 25MA white LED bend lights
CCD	Color	Color





Minimum center distance of CCD	5mm	5mm
Lens	2 double 150 focal length	3 double 350 focal length
CCD direction adjustment stroke	X:100mm Y:30mm Z:8mm	X:100mm Y:30mm Z:8mm
Monitor specifications and quantity	8 " CRT monitor 2 pcs	12 " CRT monitor 1pcs
Reel mode	Dc motor drive automatic operation	Dc motor drive automatic operation
Width	10 - 60mm(usual 10)	10 - 60mm(usual 10)
Reel length	configurable: 1- 99 mm	configurable: 1- 99 mm
Reel number	configurable: 1 - 99 time	configurable: 1 - 99 time
Device security self-locking function	Yes	Yes
Device fault self-check function	Yes	Yes
Bimanual starting function	Yes	Yes
Buzzer	Yes	Yes
Stupid-proof measure	Yes	Yes
Working light	Yes	Yes
Leakage protection function	Yes	Yes
Overtemperature protection function	Yes	Yes
No pressure on head when there is no pressure supply	Yes	Yes
Pressure parameter alarm	Yes	Yes



function		
The equipment has no production parameter alarm function	Yes	Yes
Scram switch	Yes	Yes



HSC Zebra Paper Hot Press Machine Comparison

Description	M-214CR Zebra Paper Double Side Hot Press Machine	M-1460CR Six Station Zebra Paper Semi-Automatic Hot Press Machine
Picture		
Size (L*W*H mm)	860*835*1550	1100*1200*950
Weight (kg)	About 300	About 350
Use for	Suitable for zebra paper bilateral alignment and hot pressing	Suitable for 70mm long zebra paper double side pressure
Hot head material	Imported copper	Imported brass
Hot head size	LCD:L70*W1.5mm PCB: L70*W3mm (customizable)	LCD:L70*W1.5mm PCB: L70*W3mm (customizable)
Product platform size	L200*W150mm (customizable)	Standard 70mm (customizable)
Flatness of hot pressing head water	≤0.03mm	≤50um
Hot head operation mode	Cylinder	Cylinder
Hot pressing head water flatness	Add steel ball between two components, screw fixed adjustment	Add steel ball between two components, screw fixed adjustment
Thermocouple model	K type	K type
Hot press head number	4pcs	8pcs
Product workbench	General purpose/special positioning block	General purpose/special positioning block
Platform operating mode	servo motor	servo motor
mould material	Imported hard magnesium aluminum	Imported hard magnesium aluminum
Counterpoint system	Upper counterpoint mode	Upper counterpoint mode



LCD alignment adjusts the micrometer distance	6.5mm	6.5mm
PCB alignment adjusts the micrometer distance	6.5mm	6.5mm
Maximum width of zebra paper	70mm	70mm
Flatness of the mold	≤0.05mm	≤0.05mm
Heating method	Constant temperature heating	Constant temperature heating
Pressure control	precision pressure regulator	precision pressure regulator
Temperature controller accuracy	≤±5℃	≤±5℃
Pressure indication	Pointer barometer/unit:Mpa	Pointer barometer/unit:Mpa
Pressure setting range	0.1 - 0.5 Mpa	0.1 - 0.5 Mpa
Working pressure range (measured)	2 - 30 Kg	2 - 50 Kg
Temperature setting range	Room temperature -400 ℃	Room temperature -400 ℃
Operating temperature range (measured)	Room temperature - 250℃	Room temperature - 250℃
Hot pressing time range	1 - 99 S	1 - 99 S
Alignment system/way	Alignment on 2 groups of CCD	Alignment on 4 groups of CCD
Light source system	2 way 25MA White LED 2 white rays	4 way 25MA White LED 2 white rays
CCD	Color	Color
Minimum center distance of CCD	5mm	5mm
Lens	2 double 150 focal length	2 double 150 focal length
CCD direction adjustment stroke	X:100mm Y:30mm Z:8mm	X:100mm Y:30mm Z:8mm
Monitor specifications and quantity	12 " CRT monitor and 1/2 Video splitter	8 " CRT monitor and 2 pcs
Reel mode	Automatic front and rear tape winding	Motor drive runs automatically
Width	100mm	100mm
Reel length	configurable: 1 - 99 mm	configurable: 1 - 99 mm
Reel number	configurable: 1 - 99 time	configurable: 1 - 99 time



Device security self-locking function	Yes	Yes
Device fault self-check function	Yes	Yes
Bimanual starting function	Yes	Yes
Buzzer	Yes	Yes
Stupid-proof measure	Yes	Yes
Working light	Yes	Yes
Leakage protection function	Yes	Yes
Overtemperature protection function	Yes	Yes
No pressure on head when there is no pressure supply	Yes	Yes
Pressure parameter alarm function	Yes	Yes
The equipment has no production parameter alarm function	Yes	Yes
Scram switch	Yes	Yes

Description	M-1220C Zebra Paper Double Station Pre-Pressing Integrated Machine	M-122TC On-line Hot Pressing Tape Adhesive Testing Machine
Picture		
Size (L*W*H mm)	680*600*1400	1400*1500*1800
Weight (KG)	About 180kg	About 280kg
Use for	Used for 40~70mm width, single section length 10~50mm zebra paper bilateral automatic alignment pre-pressure	Used for computer zebra paper adhesive and display detection
Hot head material	136 alloy	-
Hot press head size	Standard 80mm (customizable)	(customizable)
Product platform size	Customized Special Fixtures	Customized Special Fixtures
Hot melt column levelness	≤0.05mm	≤50um
Hot press head operation mode	Customized specialized fixtures	Customized specialized fixtures
Adjustment method for the levelness of the hot press head	Screw fixation adjustment or soft glue (self compensating level)	Screw fixation adjustment or soft glue (self compensating level)



Thermocouple model number	K-type	-
Number of hot pressing heads	4pcs	-
Product workbench	Specialized fixtures vacuum adsorption	-
Platform operating mode	Front and rear entry and exit	Guide rails+stepper motor
Platform driven mode	Stepper motor+guide rail drive	Guide rail+servo motor
Product platform vacuum hole diameter	φ 1mm	φ 1mm
Transformer power	3400W	3400W
Mold materials	Synthetic stone	-
Zebra paper cutting blade length	80mm	-
Zebra paper length	The entire length is 400 mm.	-
The width of the assembly line	450mm	220MM
Glue breaking method	-	Cylinder fixed blade
Adhesive tape fixation method	-	Quick detachable fixed drum
Detection of power on method	-	Cylinder driven test stand
Platform calibration method	-	cylinder
Defective product recycling methods	-	Pipeline
Heating method	Constant temperature heating method	Constant temperature heating method
Pressure control	Precision pressure regulating valve	Precision pressure regulating valve
Temperature controller accuracy	≤ ± 5 °C	≤ ± 5 °C



Pressure display	Digital pressure gauge, unit:Mpa	Digital pressure gauge, unit:Mpa
Pressure setting range	0.1-0.5 Mpa	0.1-0.5 Mpa
Working pressure range (measured)	8-50 Kg	8-50 Kg
Temperature setting range	Room temperature -350 °C	Room temperature -350 °C
Working temperature range (measured)	Room temperature -250 °C	Room temperature -250 °C
Alignment system	2 sets of camera image alignment systems	2 sets of camera image alignment systems
Light source system	2-way 25MA	2-way 25MA
Camera	6 million pixel professional industrial black and white camera	5 million pixel professional industrial black and white camera
Field of view	50mm × 50mm	77mm × 58mm
Lens	Dehong	Kangweishi
Image alignment direction	Y-axis direction alignment	X: 10mm Y: 10mm Z: 10mm
Monitor specifications and quantity	1pcs 12'' inch LCD display	-
Rolling method	Motor driven automatic operation	-
Applicable auxiliary material width	30-60mm (conventional 30)	-
Roll length	Can be set0-99 mm	-
Number of winding times	Can be set0-99 times	-
Equipment safety self-locking function	Yes	Yes
Equipment fault self check function	Yes	Yes
Two hand activation function	Yes	Yes



Buzzer	Yes	Yes
Prevention measures	Yes	Yes
Work indicator light	Yes	Yes
Leakage protection function	Yes	Yes
Over temperature protection function	Yes	Yes
When there is no air pressure supply, there is no downward pressure on the pressure head.	Yes	Yes
Pressure parameter alarm function	Yes	Yes
The equipment has no production parameter alarm function	Yes	Yes
Belt shortage alarm	Yes	Yes
Emergency stop switch	Yes	Yes