

SP-830-A Auto Solder Paste Printer



SP-830-A is a High Precision Automatic Solder Paste Printer designed for high precision steel mesh printing or stencil printing in SMT industry.

Printing PCB size : 50mm x 50mm ~400mm x 340mm;

PCB thickness: 0.4mm ~ 6mm

FPC thickness: ≤ 0.6 mm (Excluding jig)

Apply to Components:

SMT Components: resistors, capacitors, inductors, diode and triode: 0201, 0402, 0603, 0805, 1206 and other specifications;

IC: support SOP, TSOP, TSSOP, QFN packaging;

Min. pitch: 0.3mm; support BGA, CSP packaging,

Min. ball: 0.2mm;

Apply to PCB Types:

Mobile phone, communication, LCD TV, STB, family cinema, vehicle electronics, medical power equipment, aerospace and aviation, besides general electronics products.



Features:

- * humanized design
- * wide application range and strong versatility
- * Unique sprinkler automatic cleaning system
- * Efficient energy-saving wiping paper-saving structure
- * Unique image processing system
- * Intelligent printing production mode
- * Printing range: 400*340mm
- * Use international universal UVW three-axis linkage platform
- * Machine dimension : 1220X1355X1500mm

Options :

Automatic add solder paste.

Automatic scan of the code.

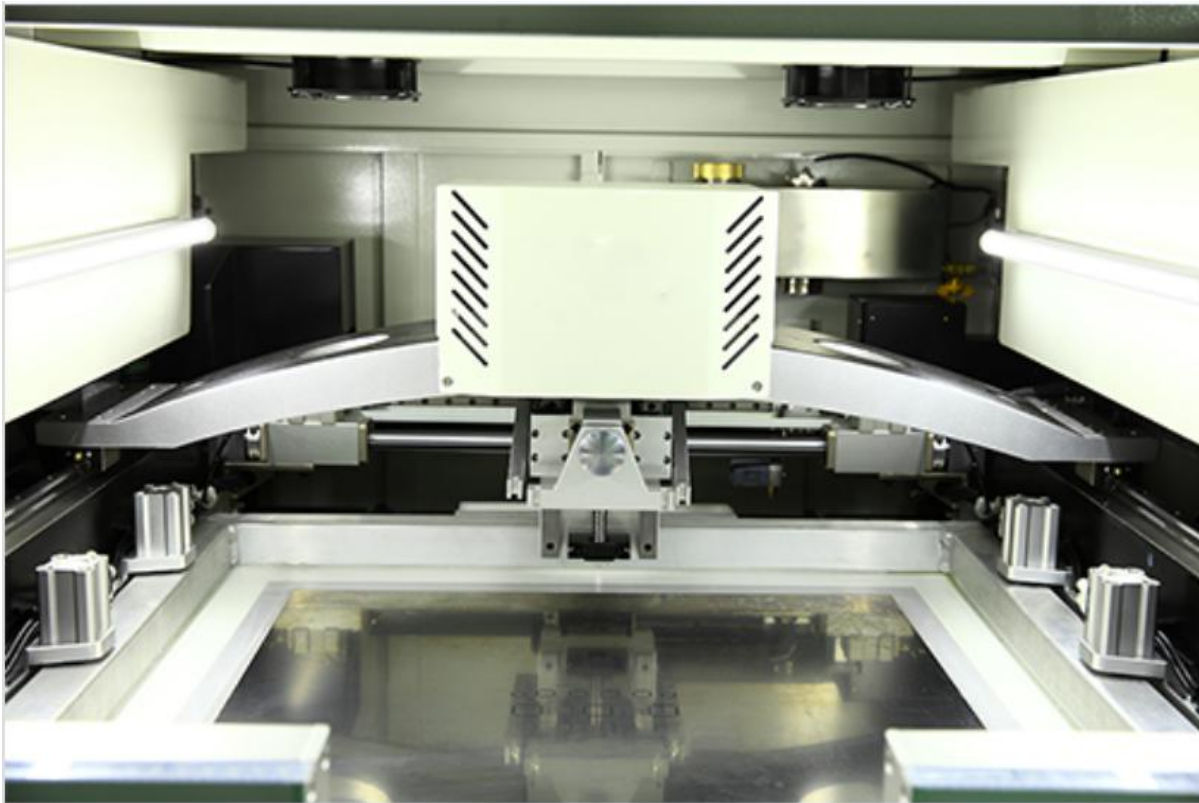
Automatic dispensing system.

The whole line of closed loop control

Automatic MSE/SPI online function.

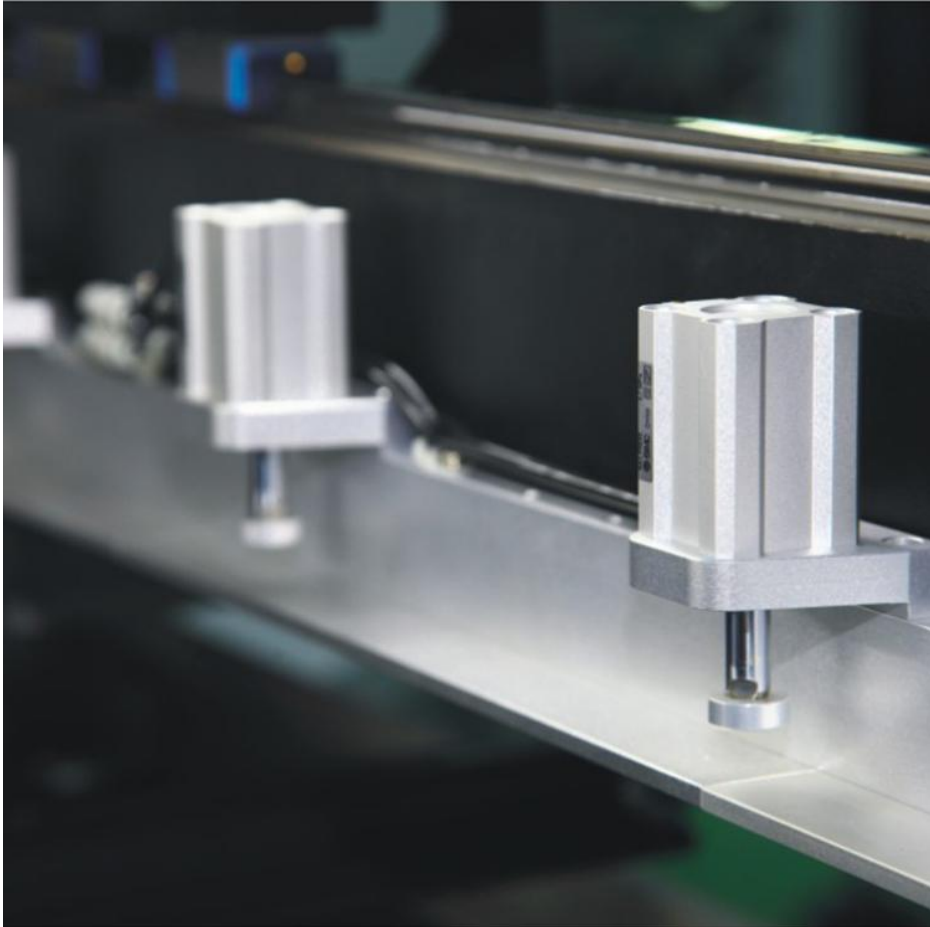
Constant temperature and humidity system

Squeegee System



- Arch bridge type suspending direct-connected scraper.
- Print head with the programmable and suspending self-adjusting stepper motor drive.
- Four-wheel positioning slide type with bilateral double sliders ensures the moving accuracy and stability when the scraper is running back and forth.
- Two sets of separate scraper are driven respectively by two high precision stepper motors, ensuring the accuracy and stability of the pressure
- The closed loop pressure control system can accurately detect and control the squeegee pressure during real-time production.

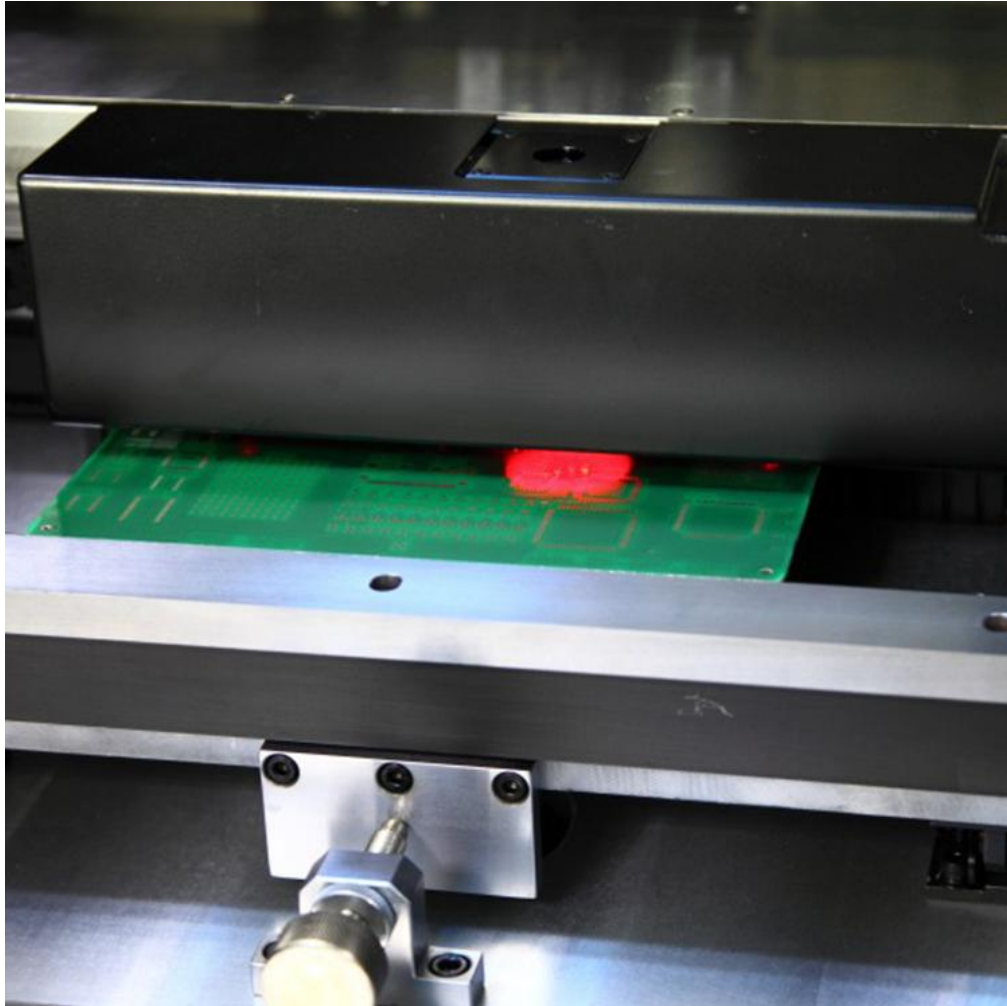
Stencil Positioning System



It is applicable for stencils of various sizes.

Auto stencil positioning system saves the line changeover time and enhances overall efficiency.

Image&Optical System



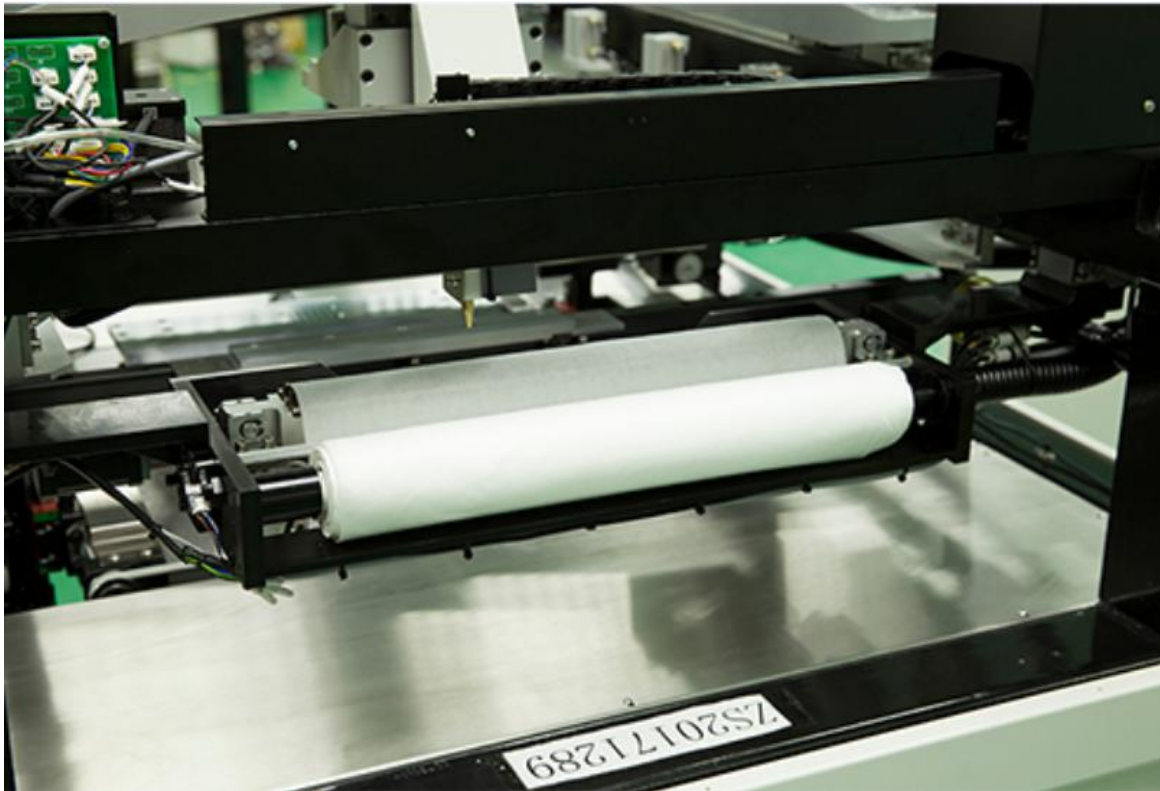
- Uniform ring light, high brightness coaxial light, and advanced upper / lower vision system.
- CCD drive is controlled by high precision servo motor and the original grinding screw and guide rail imported from Japan.
- Full range of light compensation.
- Automatic and accurate capture of MARKpoint.

PCB Transport Clamping System



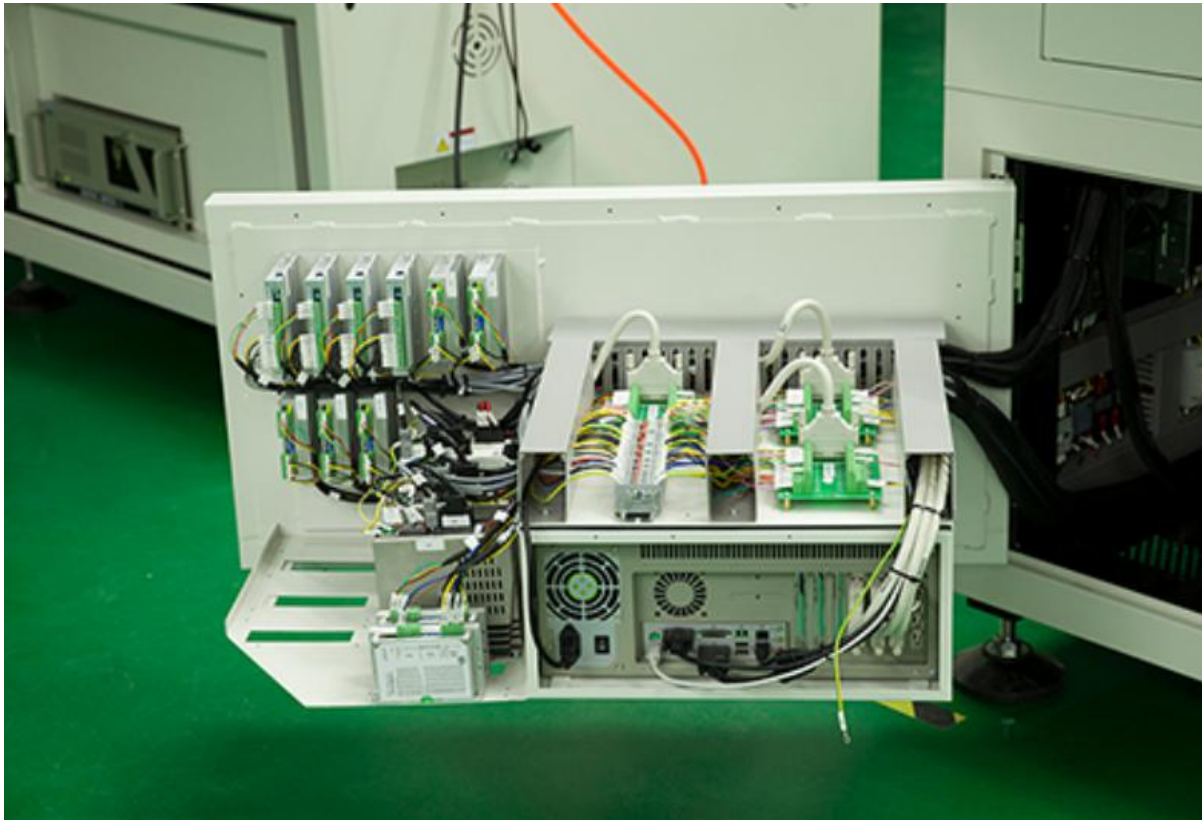
- Unique belt transmission system avoids being stuck or fall-off of PCB.
- Programmable motor controls transport speed and puts PCB in the precise position.
- Free to choose left or right as the PCB input / output direction.
- Flexible side clamp and PCB support vacuum block hold PCB tightly and ensure the full even contact between PCB and stencil.

Cleaning System



- The steel stencil cleaning system is automatic and effective. Three options of Drycleaning, Wet cleaning, and Vacuum cleaning can be selected to use, both individually and multiply. And you can also choose to clean manually.
- The unit to clean is separated from the CCD camera, which can minimize the load of motor and impulse, improve the positioning precision and speed, and extend the service life.
- Sprinkler system ensures spraying evenly, from top to bottom.
- Vacuum cleaning is supported by a dedicated fan, powerful and effective.

Electric Control System



Safe and tidy distribution of electric circuit and gas circuit.

The electric circuit and gas path are positioned vertically at the two sides and the back of the machine, which is easy to check and repair.

Specification of Model SP-830-A

Screen Min Size	470×370mm	Squeegee Angel	60°/55°/45°
Screen Max Size	737×737mm	Squeegee Type	Stainless steel (standard) ,plastic
Screen Thickness	25~40mm	Stencil Separation Speed	0.1~20mm/sec (Programmable)
PCB Min Size	50×50mm	Cleaning System	Dry 、 Wet、 Vacuum (Programmable)
PCB Max Size	400×340mm	Table Adjustment Ranges	X:±10mm;Y:±10mm;θ:±2°
PCB Thickness	0.4~6mm	Solder Paste Inspection	2D Inspection (Standard)
PCB Warpage	<1%	Repeate Position Accuracy	±0.01mm
Transport Height	900±40mm	Printing Accuracy	±0.025mm
Transport Direction	L to R, or R to L (optional)	Cycle Time	<7s (Exclude Printing & Cleaning)
Transport Speed	Max 1500mm/s (Programmable)	Product Changeover	<5Min
Support System	Magnetic Pin/Up-down table adjusted/support block	Air Required	4.5~6kg/cm ²
Clamping System	Side clamping,vacuum nozzle	Power Input	AC:220±10%,50/60HZ,3KW
I/O interface	SMEMA	Operation system	Windows XP /Win 7
Printer Head	Two independent motorised printhead	Control Method	PC Control
Squeegee Speed	6~200mm/sec	Dimensions	1220 (L) ×1355 (W) ×1500 (H) mm
Squeegee Pressure	0~15kg	Net Weight	1000kg Approx

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