

Auto Selective Conformal Coating Machine (HS-CC300)



Note: The photo might be different with the real machine, please refer to the real product

1. Machine Introduction

Automatic conformal coating machine is a smart automatic machine that specializes in controlling fluids and applying fluids to the surface of products selectively. The machine equipped with a robust 3-axis motion platform as the base configuration, includes a spray valve and a needle dispensing valve, put the three anti-paints ,UV glue,instant glue,silica gel, hot melt adhesive,and other liquids precisely sprayed, coated and dripped to the precise position of each PCB or product. Use the machine can well protect the PCB or product without damage from the environment.

2. Specification

Product name	Selective conformal coating machine
Model	HS-CC300
Transmission height	920±20mm
Conveyor width	50-450mm(customized available)
Transmission	L to R, or R to L
Component height	up and down max 100mm
Size of PCB board edge	≥5mm
Transport speed	0-12000mm/min
3 Axis drive speed	800mm/s
Repeat accuracy	±0.02mm
Storage programs	up to 1000
Power supply	AC220/110V
Air pressure	4-kgf/cm ²
Glue tank	10L,manual stirring
Control mode	Industrial PC+Motion control card
Linear guide adjustment	Intelligent adjust
Programming mode	Manual teaching
Communication port	SMEMA
Lighting source	Self-equipped lighting source
Detection lighting source	Self-equipped
Software	Windows+coating software
Driving Motor	Stepper motor(2pcs)
3 axis driving mode	Servo motor+screw driver module+Electric Cylinder
Number of rubber valves	1 spraying valve+ 1 needle dispensing valve

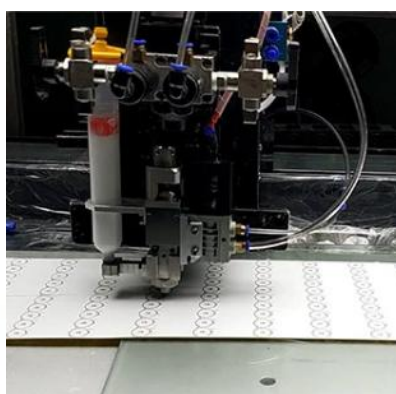
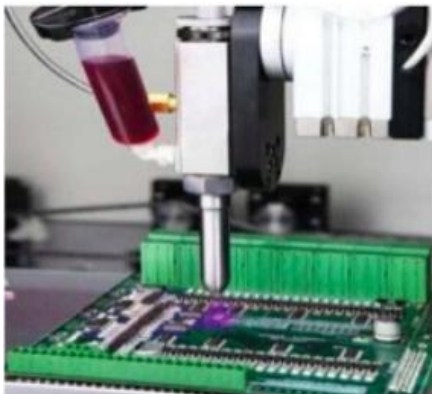
Spray width	3-20mm
Spraying method	Automatic
Total power	2.6kW
Machine body	Stainless steel
Machine weight	600kg
Machine dimension	1060x1200x1700mm

3, Machine Features

- 1, Stainless steel machine structure, stable with no shaking.
- 2, Servo motor driven, reliable XYZ moving system.
- 3, Full-featured programming, manual and automatic input of arbitrary track programming mode.
- 4, Visual in-line programming system can complete the programming requirement for paths of dot, line, round, arc.
- 5, Using Industrial Personal Computer, achieve high systematic control.
- 6, Spray and dispensing valves working together, can switch spray and coating action automatically, to achieve high-density PCB coating process.
- 7, Can effectively and evenly coat edge of the components, eliminate the spray shadow effect.
- 8, The machine has intelligent auto width adjustment function, the drive structure with the conveying width up to 50-450mm or customized bigger.
- 9, The machine has automatic cleaning valves and pipe function during the machine is standby.
- 10, The machine has optional PCB front and back side detection function, and automatic import the program accordingly.
- 11, SMEMA compatible.
- 12, Internal light equipped.
- 13, Using the machine can great improve the production efficiency, save labor, and improve product precision and quality. Also the machine with function for constant glue feeding, won't waste the glue.

4, Application

The machine is widely used for coating electrical and communication products,integrated circuits, circuit board solder paste, fixed and dust and moisture protection, LCD liquid crystal screen, speakers, head phone, audio, LED, optical lens, SMD transformers, Keypad, mobile phone casing bonding, radio, telephone, Computers, MP4, electronic toys, chassis bonding, switches, connectors,etc.



5, Machine parts list and brand

Item	Name	Brand	Usage
1	Servo motor	FUJI	3 axis moving system
2	Moving control board card	Leadshine	Position control
3	Display	DELL	Operation PC
4	Electric relay	Schneider	Switch
5	Power supply	Meanwell	Direct-current driver
6	Leakage circuit breakers	Chint	Leakage protection
7	Photoelectric switch	Omron	Product detection
8	Limit switch	Omron	Position protection
9	Pressure gauge	SMC	Pressure display
10	Solenoid valve	SMC	Air pressure switch
11	Speed control motor	ZD	Linear guide transportation
12	Guide screw	TBI	3-axis mechanical driving
13	Industrial Personal Computer	Wcontrol	The whole software control