



**PROCESS SOLUTIONS
YOU CAN COUNT ON**

iCoat-5 SERIES

HIGH PRECISION SELECTIVE CONFORMAL COATING MACHINE

Features & Benefits

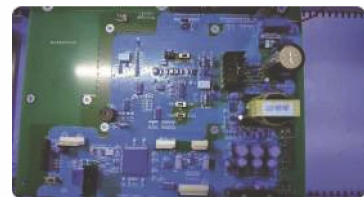
- Suitable for panelized or palletized PCBs , high mix requirements, process flexibility and large area coating
- Dual, Triple or Quad valves configuration, a variety of valve arrangements, adapts to the production needs of diverse panels
- Automatic coating detection mount over conveyor exit or X-axis for coating result check

Product Description

Dual head configurations are available for iCoat-5 the high precision selective conformal coating machine:

Single head, 3 nozzle structure with 4 axis movement (X,Y,Z,U rotation) and 35° tilt is the most flexible work cell for a high precision selective conformal coating machine to cater the most demanding coating application.

Dual heads, 4 nozzle structure with 3 axis movement (X,Y,Z) and 35° tilt to double the output with 2 PCBs simultaneously coated for achieving maximum productivity.



Selective coating on the bottom or top side of PCBA



Accurate selective coating of components and IC pins

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Specifications :

System Specifications

iCoat-5
High Precision Selective Conformal Coating Machine

Board Handling	
Standard Work Area	X 450 × Y 450 × Z 100 mm (X 17.71" × Y 17.71" × Z 3.93")
Maximum Components Height	± 90 mm (± 3.54") from PCB
PCB Edge Clearance	≥ 5 mm (≥ 0.19")
Single Spray Width	2 – 30 mm (0.078" – 1.18")
Max. Conveyor Width	460 mm (18.11")
Min. Conveyor Width	50 mm (1.96")
Transmission system	
Process Flow	L to R (Standard), R to L (Optional)
Conveyor Height	900 ± 20 mm (35.43" ± 0.79")
Conveyor Speed (XY)	0.5 – 5 m/min
Convey Width Adjustment	Automatic (motorized)
Rotation	Optional
Z Axis Configuration	
No. of Valves	Dual valves configuration: fixed valves separation / left-right configured, single direction tilt, valve selection, x-direction manual adjustment 50 – 200mm Quad valves configuration : one-line / front-rear configured, single direction tilt, valve selection, x-direction manual adjustment 50 – 200 mm
Maximum Speed	800 mm/s
Repeatability	± 0.02 mm (± 0.0007")
U Axis Configuration	
No. of Valves	Dual valves configuration : Front dual valves tilt Triple valves configuration : Triple valves with front dual valve tilt configuration
Facility	
Standard Footprint	L 900 × W 1300 × H 1675 mm (L 35.43" × W 51.18" × H 3.93")
Weight	570 kg
Motor Power	DC 24 V 69 W × 2
Air Requirement	0.4 Mpa
Exhaust Requirement	15 m ³ /min
Input Power	AC 220 V 50/60 Hz
Total Power	2.4 KW
Interface	
Controller	Integrated microprocessor controllers
Software	Anda user interface software with Windows 7
Programming	Keyboard & mouse mode
Communications Protocol	SMEMA

Standard Features

- 2 valves can be accommodated in the standard machine
- PC with LCD monitors, keyboard and mouse (height adjustable)
- Auto dipping and purging waste collection system
- LED UV lamps for inspection
- PCB clamping system
- UPS and voltage stabilizer
- ESD grounding point
- CE certified

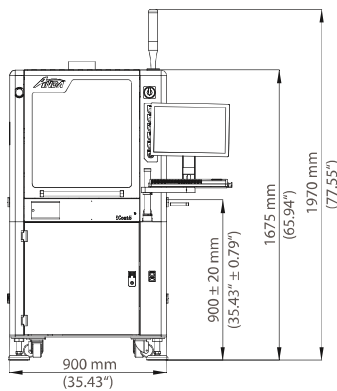
Optional Features

- Nozzles can be tilted 35° with 360° rotation
- Heavy duty conveyor
- 2 stage conveyor
- CCD vision camera
- Material level detection
- Pallet return conveyor (underneath)
- Barcode or 2D code scanning system
- Material tank : 1 gal / 3 gal
- 1 gal material tank

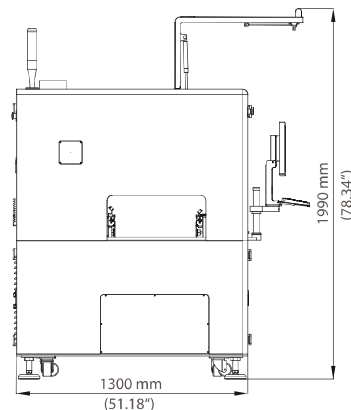


Tilting valve

Rotary valve



Front View



Side View