



**PROCESS SOLUTIONS
YOU CAN COUNT ON**

iCoat-6 SERIES

HIGH PRECISION SELECTIVE CONFORMAL COATING MACHINE
WITH CLOSED LOOP FLUID HEATING SYSTEM

Features & Benefits

- Specifically designed for thin film coating applications. A highly precise system to achieve excellent edge definition without the overspray associated with atomized spray valves.
- Closed loop fluid recirculation and heating provide a constant temperature control to guarantee the set fluid viscosity and avoid bubbles, and to provide the highest coating quality.
- Automatic Coating Detection mounted over the conveyor exit or x-axis for coating result check.
- Closed loop fluid heating system.

Product Description

This highly precise, selective conformal coating machine offers closed loop fluid heating which provides a constant fluid viscosity, even in machine suspension.

The recirculating fluid delivery system offers stable fluid pressure and temperature, even under varying production and incoming air pressure conditions.

For thin film applications, a laser film width sensor provides a closed loop automatic adjustment of thin film coating parameters.

A dual head configuration with fixed valve separation is standard for the iCoat-6. For other configurations, please consult the factory.



Closed loop fluid heating system



Thin film valve achieving clear spraying boundary

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Specifications :

System Specifications

iCoat-6
High Precision Selective Conformal Coating Machine
with Closed Loop Fluid Heating System

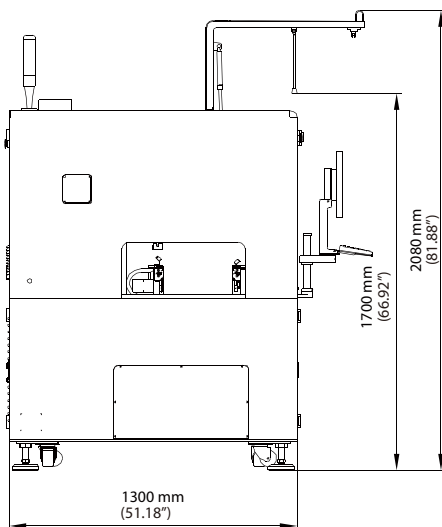
Board Handling	
Standard Work Area	X 360 × Y 450 × Z 100 mm (X 14.17" × Y 17.71" × Z 3.93")
Maximum Components Height	± 90 mm (± 3.54") from PCB
PCB Edge Clearance	≥ 5 mm (≥ 0.19")
Single Spray Width	2 – 30 mm (0.078" – 1.18")
Max. Conveyor Width	450 mm (17.71")
Min. Conveyor Width	50 mm (1.96")
Transmission system	
Process Flow	L to R (Standard), R to L (Optional)
Conveyor Height	900 ± 20 mm (35.43" ± 0.79")
Conveyor Speed (XY)	2 – 13 m/min
Convey Width Adjustment	Automatic (motorized)
Operation Configuration	
No. of Valves	Dual Valves configuration with fixed valves separation
Maximum Speed	800 mm/s
Repeatability	± 0.02 mm (± 0.0007")
Facility	
Standard Footprint	L 900 × W 1300 × H 1675 mm (L 35.43" × W 51.18" × H 65.94")
Weight	560 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	IPC and motion control card
Software	Anda user interface software with Windows 7
Programming	Keyboard & mouse mode
Communications Protocol	SMEMA

Standard Features

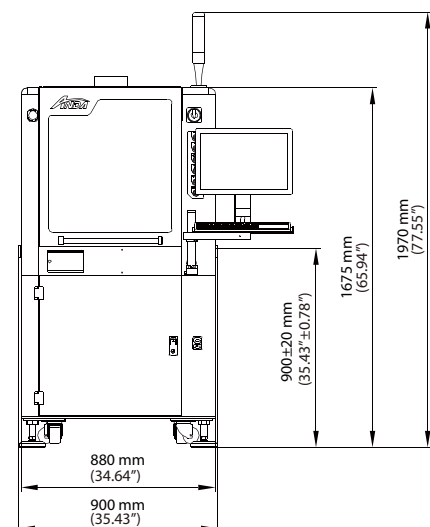
- Auto dipping and purging waste collection system
- Safety door lock system
- LED UV lamps for inspection
- ESD grounding point
- CCD vision camera
- PCB clamping system
- Material level detection
- Material heating circulation system
- Material filtration system
- Low pressure fluid automatic adjustment system
- Film width laser checking system
- Diaphragm pump feeding system
- CE certified

Optional Features

- Barcode or 2D code scanning system
- UPS and voltage stabilizer
- Pallet return conveyor (Underneath)
- Programmable valve cleaner
- Track enhancement
- 3 gal. pressure drum
- Material tank: 1 gal / 3 gal / 5 gal / 10 gal



Side View



Front View