



**PROCESS SOLUTIONS
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iCoat-6 SERIES

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

Product Description

ANDA's iCoat-6 is a XYZ gantry system designed specifically for thin film coating applications. This specialized coating system produces exceptional edge definition results without the overspray associated with atomized spray valves. Automatic recirculating closed loop fluid heating provides stable fluid pressure and constant temperature control to maintain the coating process and ensure set fluid viscosity, even during machine suspension.

- Automatic coating detection mounted over conveyor exit or x-axis for verifying coating results
- Laser film fan spray width control monitoring verifies thin film coating parameters
- Rotation fixed 90° using IC-100L thin film valve
- Standard dual valve configuration with fixed width



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

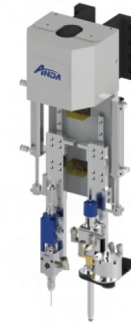
Board Handling	
Standard Work Area	X 360 mm (14.17") Y 450 mm (17.71") Z 100 mm (3.93")
Min. Conveyor Width	50 mm (1.96")
Max. Conveyor Width	450 mm (17.71")
Max. Component Height	± 90 mm (3.54")
PCB Edge Clearance	≥ 5 mm (≥ 0.19")
Process Flow	L to R (Standard), R to L (Optional)
Max. Conveyor Load	4 kg/m (9 lbs) [Standard], 10 kg/m (22 lbs) [Optional] with even distribution
Max. Conveyor Speed	13 m/min
Conveyor Height	900 ± 20 mm (35.43" ± 0.79")
Conveyor Width Adjustment	Motorized
Operation	
Gantry System	Servo Motors & Ball Screw
XY Max. Speed	800 mm/s
XY Acceleration	0.8 g with smooth control
XYZ Repeatability	± 0.02 mm (±0.0007")
Valve Configuration	Dual valves with fixed spacing
Spray Width	2 - 19 mm (0.078" - 0.74")
Facility	
Footprint	L 900 mm (33.43") W 1300 mm (51.18") H 1675 mm (65.94")
Weight	~560 kg (~1234 lbs)
Min. Air Supply	0.4 MPa (60 psi, 4 Bar)
Exhaust Requirement	15 m ³ /min (500 CFM)
Input Power	AC 220 V 50/60 Hz
Rated Power	2.4 kW
Standard Compliance	SMEEMA, IPC, CE
Interface	
Controller	IPC & KMM
OS	Windows OS
Software	Anda Software
Programming	File Transfer & On-board Programming

Standard Features

- Steel structure smooth motion platform
- Stainless steel interior
- Hatch door with observation window
- Adjustable height pivoting computer arm
- Fluorescent inspection lighting (UV black light)
- Auto dipping and purging waste collection
- PCB clamping system
- Material heating circulation system
- Material filtration system
- Diaphragm pump feeding system
- light tower beacon
- ESD grounding

Optional Features

- Larger work area X: 490 mm Y: 580 mm
- Barcode, 2D, or QR code scanner
- CCD vision camera
- Material tank AMSE certified: 1 / 3 / 5 / 10 gal
- Material tank level detection
- Laser thin film width measurement system
- Non-contact laser height sensor
- Low pressure fluid automatic adjustment system
- Multi-stage or multi-zone conveyor
- Pre-queue board station
- Return conveyor (underneath)
- Dual lane
- Voltage stabilizer
- UPS



Dual-valve system with needle & thin film valves
Other valves and valve configurations also available

