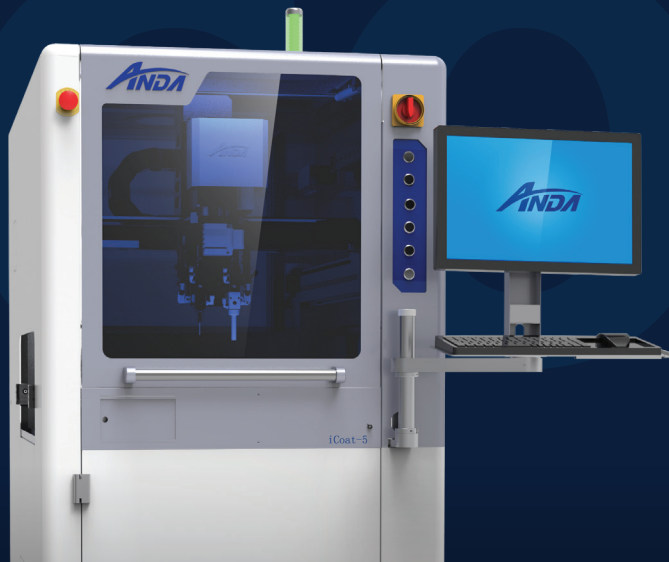




**PROCESS SOLUTIONS  
YOU CAN COUNT ON**

# iCoat-5 SERIES

HIGH PRECISION SELECTIVE CONFORMAL COATING MACHINE

## Product Description

ANDA's iCoat-5 is a high-speed precision selective conformal coating machine that's designed to deliver the highest quality in accuracy and precision for automated batch or in-line conformal coating processes. Ideal for automating high volume/throughput or high mix low volume (HMLV) coating processes. Suitable for panelized or palletized printed circuit board assemblies (PCBAs) and large area coating applications.

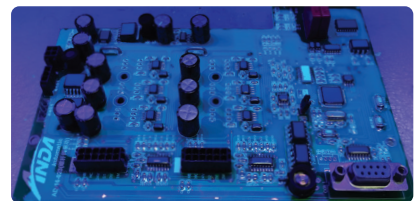
- Running accuracy of  $\pm 0.02$  mm (20  $\mu$ m) ( $\pm 0.0007$ "")
- Five axes of movement (X, Y, Z, U rotation) and 35° tilt
- Single head turret design supporting up to three selective conformal coating valves that can be arranged in a variety of different nozzle configurations



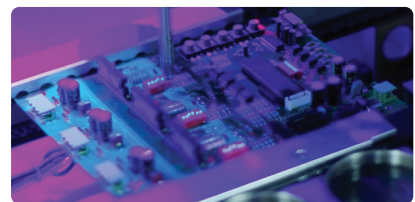
Single head turret (two valves)



Single head turret (three valves)



Precision conformal coating for PCBA's



Selective conformal coating of components and IC pins

ANDA Technologies USA, Inc.  
info@anda.us  
+1 510 270 8648  
47639 Lakeview Boulevard, Fremont, CA 94538, USA



# Specifications :

## System Specifications

## iCoat-5 Series High Precision Selective Conformal Coating Machine

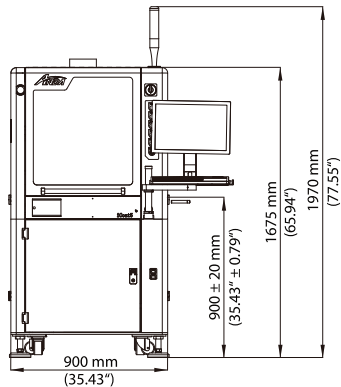
| iCoat-5                   |                                                                               | iCoat-5L            |  |
|---------------------------|-------------------------------------------------------------------------------|---------------------|--|
| Board Handling            |                                                                               |                     |  |
| Standard Work Area        | X 450 mm (17.71")                                                             | X 580 mm (22.83")   |  |
|                           | Y 450 mm (17.71")                                                             | Y 580 mm (22.83")   |  |
|                           | Z 100 mm (3.93")                                                              | Z 100 mm (3.93")    |  |
| Min. Conveyor Width       | 50 mm (1.96")                                                                 | 50 mm (1.96")       |  |
| Max. Conveyor Width       | 450 mm (17.71")                                                               | 580 mm (22.83")     |  |
| 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       | Triple Valves with Front Two Valves Tilt                                      |                     |  |
| Spray Width               | 2 - 30 mm (0.078" - 1.18")                                                    |                     |  |
| Rotation                  | 360° (±180°)                                                                  |                     |  |
| Tilt                      | 35°                                                                           |                     |  |
| Facility                  |                                                                               |                     |  |
| Footprint                 | L 900 mm (33.43")                                                             | L 1010 mm (39.76")  |  |
|                           | W 1300 mm (51.18")                                                            | W 1360 mm (53.54")  |  |
|                           | H 1675 mm (65.94")                                                            | H 1675 mm (65.94")  |  |
| Weight                    | ~570 kg (~1257 lbs)                                                           | ~580 kg (~1278 lbs) |  |
| Min. Air Supply           | ≥ 0.4 MPa (≥ 60 psi, 4 Bar)                                                   |                     |  |
| Exhaust Requirement       | 2 m³/min (75 CFM), Port Diameter 150 mm (6")                                  |                     |  |
| Input Power               | AC 220 V 50/60 Hz                                                             |                     |  |
| Rated Power               | 2.4 kW                                                                        |                     |  |
| Standard Compliance       | SMEMA, IPC, CE                                                                |                     |  |
| Interface                 |                                                                               |                     |  |
| Controller                | IPC & KMM                                                                     |                     |  |
| OS                        | Windows OS                                                                    |                     |  |
| Software                  | Anda Software                                                                 |                     |  |
| Programming               | File Transfer & On-board Programming                                          |                     |  |

## Standard Features

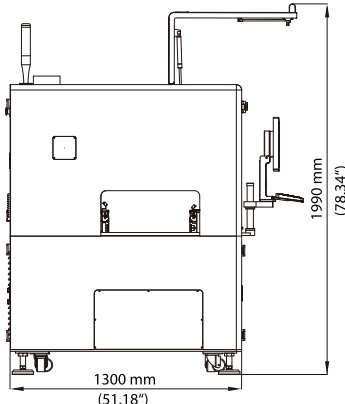
- Steel structure smooth motion platform
- Stainless steel interior
- Hatch door with observation window
- Adjustable height pivoting computer arm
- Fluorescent inspection lighting (UV black light)
- Auto dipping and purging waste collection
- Programmable valve cleaning
- Board presence sensors
- PCB clamping system
- Unlimited program storage
- USB communication ports
- Light tower beacon
- ESD grounding

## Optional Features

- CCD visual camera
- Dispense needle calibration sensor
- Inline material metering
- Material changeover (manual)
- Material level detection (low fluid level scale)
- Material tank AMSE certified: 1 / 3 / 5 / 10 gal
- Barcode or 2D code scanner
- Non-contact laser height sensor
- Multi-stage or multi-zone conveyor
- Pre-queue board station
- Return conveyor (underneath)
- Dual lane



Front View



Side View