



## iCoat-X3

### Selective Conformal Coating Workcell

#### Standard Features:

- Rigid steel body construction
- In-line single stage conveyor with motorized width adjustment
- Single head 2 nozzles structure (select from SA-W5, DJ-01, or LA-W30)
- PC with LCD monitor, keyboard and mouse (height adjustable)
- PCB pallet clamping system
- 10L material tank (stainless steel)
- ESD grounding point
- LED UV lamps for inspection
- Purging waste collection system
- UPS and voltage stabilizer (3KVA)
- CE Certified

#### Optional Features:

- Dual Lane Conveyor System
- Heavy duty conveyor
- Barcode scanning function (1D or 2D)
- CCD vision camera
- Two stage conveyor
- Material level detection
- Pallet return conveyor (Underneath)
- Material tank: 5L / 20L (Stainless Steel)



#### iCoat-X3 Specifications

| iCoat-X3 Specifications            |   |              |
|------------------------------------|---|--------------|
| <b>Dimensions</b>                  |   |              |
| In-line LxWxH (mm)                 | 900 × 1300 × 1630mm                       |              |
| Weight                             | 800 Kg                                    |              |
| <b>Motion</b>                      |   |              |
| Head Structure                     | Single head 2 nozzle structure            |              |
| No. of Axis                        | 3 axis = X,Y, Z (Optional 4 way 35° tilt) |              |
| Drive                              | Closed loop servo motor                   |              |
| X,Y Travelling Speed               | Min: 1mm/s                                | Max: 800mm/s |
| Recommended Working Speed          | 5 - 200mm/s                               |              |
| Positioning/Repeatability accuracy | 40µm (0.04mm)                             |              |
| Tilt Angle                         | 35° ( Fixed)                              |              |

## iCoat-X3 Specifications (Continued)

### Work area (based on 1 nozzle on right side)

|                      |   |
|----------------------|---|
| Coating area         | L= 460mm, W=460mm   |
| Z axis movement      | 100mm   |
| Nozzle Configuration | 2 nozzle  |
| Nozzle Types         | <p>Select two of the Standard nozzles:</p> <p><i>Micro Spray</i>: <b>SA-W3</b> coating width 3 ~ 6mm</p> <p><i>Cone</i>: <b>SA-W5</b> coating width 5 ~ 10mm</p> <p><i>Fan</i>: <b>LA-W30</b> coating width 15 ~ 30mm</p> <p><i>Film Coater</i>: <b>SC-W10</b> coating width 10 ~ 15mm</p> <p><i>Needle</i>: <b>DJ-01</b> coating width 0.2 ~ 2mm</p> |

### Conveyor System

|                    |                                      |                |
|--------------------|--------------------------------------|----------------|
| Conveyor Type      | Single stage/ Pin chain type         |                |
| Board Clearance    | Top = 100mm                          | Bottom = 100mm |
| PCB Edge Clearance | 5mm (Pallet) / 3mm (PCB)             |                |
| Conveyor Height    | 900±20mm                             |                |
| Conveyor Speed     | Up to 750cm/min                      |                |
| Flow Direction     | Left to Right (Right to Left option) |                |
| Width Adjustment   | 50 ~ 460mm (motorized)               |                |
| Comm. port         | Standard SMEMA                       |                |

### Facility Requirements

|                                |   |
|--------------------------------|---|
| Input Power                    | 220-240VAC Single Phase, 50/60Hz (3 wire);<br>208VAC Split Phase, 60Hz (4 wire);<br>208VAC Three Phase, WYE, 60Hz (5 wire); |
| Total Power                    | 2.6kW   |
| Exhaust Flow Rate Requirements | 15m <sup>3</sup> /h   |
| Compress Air Requirements      | 0.5Mpa, 100L/min  |
| QR Code/Bar Code Reader        | Optional  |
| UPS                            | Optional  |