

JTU FAMILY

BY SOLUCINDE



JTU CONFORMAL COATING SOLUTION

STANDARD SPECIFICATIONS

JTU offers a one-stop solution for selective conformal coating with:

- C Series Conformal Coating Machines
- jCURE+ Series Curing Ovens
- Automated Inspection Machines
- Board Handling Machines

The **One-Man-Operation (OMO)** Concept with pallet return conveyor reduces manpower, cost & increases productivity & product quality consistency. The modular concept offers highly flexible configuration possibilities and expandability.

• Type of drives	Closed loop servo motor
• X, Y travelling speed	1 - 800 mm/s
• Practical working speed	10- 200 mm/s
• X, Y repeatability	± 25 microns
• Effective coating area: L x W	460 x 460 mm (With T&C applied)
• Z-axis movement	100 mm
• Com. port	SMEMA 4 pins

• Conveyor type	Stainless steel
• Board clearance	Top: 100 mm; bottom: 100 mm
• Edge clearance	5 mm
• Conveyor height	900 ± 20 mm
• Conveyor speed	Max. 750 mm/s (Stepper motor control)
• Conveyor direction	Left to right (Option: Right to left)
• Conveyor width adjustment	50 - 460 mm (Auto software control)

• Power supply	230 V AC, 50 Hz
• Total power	2.5 kW
• Exhaust flow rate	150 mm diameter ducting, min. 5 m ³ /min
• Compressed air requirement	Min. 6 bar, 400 L/min

OPTIONAL FEATURES



CCD vision camera	For fiducial check & programme teaching
Barcode/2D code scanning	For automatic programme switching function
3-gallon material tank	For larger productivity Standard material tank: 1 gallon
Pallet return conveyor (Underneath)	For OMO concept Reduce manpower Reduce the number of pallets needed
Needle calibration station (PD-01)	Increase the accuracy & precision
Double indexing	For long boards up to 600 mm Machine total length will be extended by 100 mm
MES customization (i4.0)	Customize action to link up with customer's MES

EVOL-350/510/610

DESCRIPTION

- EVOL Series modern wave soldering machine
- Evolution of wave soldering machine concept
- Solved the issues seen in traditional wave soldering machine
- Extended process window
- Independently controlled 3-stage conveyors
- Optimum setting for desirable result
- Automatic recipe switching and model changeover
- Selective spray fluxing
- Upgradable to Sono-Tek selective ultrasonic spray fluxer (Z-Select-W)
- Industry 4.0 ready
- Nitrogen system is also available: EVOL-350N/510N/610N

SPECIFICATIONS

Max. board size: L x W	600 x 350 mm / 600 x 510 mm / 600 x 610 mm
Conveyor type	Chain (Fluxing & preheating zone); Finger (Soldering zone)
Finger type	Heavy-duty
Conveyor height (Entrance)	780 ± 20 mm (With casters) / 750 ± 20 mm (Without casters)
Conveyor height (Exit)	1,097 ± 20 mm (With casters) / 1,065 ± 20 mm (Without casters)
Conveyor Direction	Left to right (Option: Right to left)
Number of preheating zone	3 bottom (Top is optional)
Preheating Temperature	Room temperature - 280°C
Solder pot type	Mechanical pump



GSE - NPM



DESCRIPTION

- NPM series modular nitrogen generator
- A range of models for different nitrogen flow requirement
- Adopts pressure swing adsorption (PSA) technology
- Modular form with small footprint
- Excellent nitrogen quality
- "Plug-and-play" nature
- Application: Selective soldering machines, conformal coating and dispensing machines and N₂ dry cabinets, etc.
- Various models are available (For a wide range of nitrogen flow rate requirement): NPM01P, NPM02P, NPM04P, NPM06P, NPM08P, NPM10P, NPM12P, NPM14P, NPM16P, NPM18P, NPM20P

C SERIES SELECTIVE COATING MACHINES

C3

Standard configuration: Two-valve independent working

Optional configurations: Either

- Two-valve simultaneous working of 2 PCBs with manual/automatic pitch adjustment (For productivity)
- Or
- Two-valve independent working with 4-way tilt of 35° on the left valve (For flexibility)

• Dimensions: L x W x H	• 956 x 1,512 x 1,640 mm
• Weight	• Approx. 700 kg
• Head structure	• 2 valves
• No. of axis movement	• 3 (X, Y, Z)
• Max. no. of valves	• 2
• Valves included as standard	• 1 x CS-05, 1 x PD-01
• Valves applicable as option	• FS-30, V-54HP

C5

C5 is the most flexible model that comes with 3 valves and $\pm 180^\circ$ rotation head. This is suitable for high-mixed production and complicated boards.

Dimensions: L x W x H	956 x 1,512 x 1,640 mm
Weight	Approx. 700 kg
Head structure	3 valves
No. of axis movement	4 (X, Y, Z, U)
Max. no. of valves	3
Tilt angle	2 front valves tilt 35° inwards
Rotation angle	$\pm 180^\circ$
Standard valves	1 x CS-05, 1 x PD-01, 1 x FS-30
Optional valve	N.A.

C7

C7 has a 4-valve structure (2 by 2) which provides productivity and flexibility at the same time. It can coat 2 PCBs simultaneously.

Dimensions (L*W*H)	956 x 1,512 x 1,640 mm
Weight	Approx. 700 kg
Head structure	4 Valves
No. axis movement	3 Axis (X, Y, Z)
Max. valves quantity	4 Valves
Adjustable nozzle pitch	60-230mm (Manual adjustment)
Tilt angle	All valves tilt 35° to left
Standard valves	2 x CS-05, 2 x PD-01
Optional valves	FS-30

C6 (FILM COATER)

C6 comes with material heating and circulating system as standard to maintain the material temperature and viscosity for consistent film coating.

Dimensions: L x W x H	956 x 1,512 x 1,640 mm
Weight	Approx. 700 kg
Head structure	2 valves
No. of axis movement	3 (X, Y, Z)
Max. no. of valves	2
Rotation	90° self-rotation on right valve
Standard valves	1 x FC-10, 1 x PD-01 OR 1 x San-Ei SV70C, 1 x PD-01
Optional valves	N.A.



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