



**WHERE
PRECISION
DRIVES
PRODUCTION**

Delta 3 SPECIFICATIONS

Gantry System Design

Closed loop brushless DC servo motors with optical encoders and ball screw slides on all axes

Work Area

1 Valve / Tool:
521 mm x 485 mm x 100 mm
(20.51" x 19.09" x 3.94")

XYZ Repeatability

±25 microns (±0.001")

Resolution

5 microns (0.0002")

Maximum Acceleration

0.5g

Footprint

813 mm x 990 mm x 1572 mm
(32.01" x 38.98" x 61.89")

Programming Software

PathMaster® software with offline image import and programming capability

Delta 3 SELECTIVE COATING SYSTEM

The Delta 3 Selective Coating System is a highly accurate and efficient alternative to traditional manual application techniques. Utilizing PVA's breadth of application methods you can easily configure an automated solution for any coating chemistry. The Delta 3 is designed as an inline solution featuring PVA's robust closed-loop gantry system in three or four-axis configurations.

Path programs are easily generated through PathMaster®, PVA's proprietary Windows®-based software, and quickly recalled through a touch panel OIT. Integrated upper and lower limit process control options such as real time flow monitoring or pattern width verification can also provide the traceability you desire.

The Delta 3 has many options and integrated features including:

- ▲ Multi-head configuration with up to three valves for superior process flexibility
- ▲ Edge carrying chain conveyor
- ▲ Solvent and purge cups allowing automated tip maintenance for moisture sensitive chemistries
- ▲ Point and click programming with offline image import

For more information, please contact PVA at info@pva.net or 1-518-371-2684.



One Mustang Drive
Cohoes NY 12047
tel 518 371 2684
fx 518 371 2688
www.pva.net

Delta 3

The Delta 3 is ideal for selective conformal coating applications that require a high level of accuracy and repeatability in entry level manufacturing environments. It is a closed-loop robotic platform featuring optical encoder feedback on all axes.

Power: 120V, 220V, 50-60 Hz
Air Supply: 80 psi dry, unlubricated air

XYZ Specifications

Gantry System: Brushless DC servo motors
 Precision ball screw slides

XYZ Repeatability: ±25 microns (±0.001")
Maximum Speed (XYZ): 700 mm/sec (27.6"/sec)
Maximum Acceleration: 0.5g
Resolution: 5 microns (0.0002")

Payload Capacity: 11.36 kg (25 lbs.)

Standard Features:

PathMaster® Windows- based software
 FastPath™ offline image programming capability
 Remote teach pendant with trackball
 Touch Panel OIT
 Closed-loop low level exhaust notification (spray systems)

Optional Features:

Servo 4th Axis motion featuring valve tilt & rotate
 Closed-loop material flow monitoring
 Fan width pattern verification
 Low level fluid sensor
 Automatic needle calibration
 Conveyor auto width adjust

Board Handling:

Conveyor Type: Chain
Minimum Conveyor Width: 50 mm (1.97")
Maximum Conveyor Width: 500 mm (19.685")
Board Clearance Topside: 80mm (3.15")
Board Clearance Underside: 80 mm (3.15")
Edge Clearance: 4.7 mm (0.185")

Transport Height: 880 mm x 920 mm (34.65" – 36.22")
Communication Protocol: SMEMA
Conveyor Options: Bi-directional
Conveyor Speed: Up to 24.4m/min (80 ft/min)
Process Flow: Programmable right to left or left to right, bidirectional
Weight Limit: 15 pounds (chain)

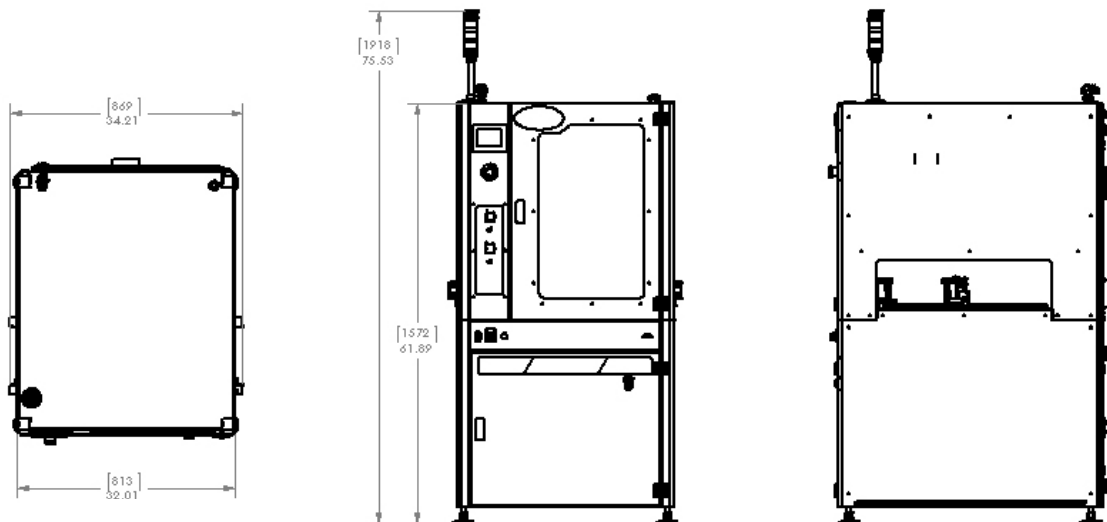
Fluid Applicators:

Spray Valves: FCS300-ES, FCS300-R/-F, FC100-CF
Dispense Valves: FC100-MC, FCM100

Material Feed Options: Syringe (1-55cc)
 Cartridge feed (6 – 20 oz.)
 Pressure vessel

Back Side of Machine 80-100 PSI
Dry Compressed Air Required

Power Drop Required - See Machine Spec for Voltage



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