

System 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: 621 mm x 595 mm x 100 mm (24.45 in x 23.43 in x 3.94 in)

XYZ Repeatability ±25 microns (±0.001 in)

Resolution 5 microns (0.0002 in)

Maximum Acceleration 0.6 g

Footprint 1046 mm x 1270 mm x 2350.9 mm (41.18 in x 50.0 in x 92.56 in)

Programming Software

PathMaster® software with offline image import and programming capability



Delta 8 Selective Coating/Dispensing System

The Delta 8 is a flexible robotic conformal coating/dispensing system that is ideal for selective coating, potting, bead, and meter-mix dispensing applications. Conceptualized for maximum flexibility, the system can also be configured for custom assembly applications.

Maintaining the preferred features of previous workcells, the Delta 8 features a robust overhead three-axis motion platform suitable for inline or batch operations. Improved structural and gantry rigidity have been added for robustness and easier access.

The Delta 8 has many options and integrated features including:

- Robotic system repeatability of 25 microns
- Patented servo-controlled optional four-axis motion featuring valve tilt and rotate
- Closed loop process control throughout gantry system
- Multiple dispensing applications or materials in one cell
- Onboard PC for unlimited program storage
- Exclusive PathMaster® programming environment

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



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Delta 8

The Delta 8 is ideal for selective conformal coating and dispensing applications that require a high level of accuracy and repeatability in moderate to high volume manufacturing environments. It is a closed-loop robotic platform featuring optical encoder feedback on all axes.

Power 120V, 220V, 50-60 Hz **Board Handling** 80 psi dry, unlubricated air Air Supply Conveyor Type: Minimum Conveyor Width: Maximum Conveyor Width: **XYZ** Specifications Board Clearance Topside: Gantry System: Brushless DC servo motors Board Clearance Underside: Precision ball screw slides Edge Clearance: XYZ Repeatability: ±25 microns (±0.001 in) Maximum Speed (XYZ): 670 mm/sec (26.4"/sec) Transport Height: Maximum Acceleration: **Communications Protocol:** 0.6q Conveyor Options: Resolution: 5 microns (0.0002 in) Conveyor Speed: Payload Capacity: 11.36kg (25 lbs) Process Flow:

Standard Features

PathMaster® Windows- based software FastPath™ offline image programming capability Onboard PC with flat screen monitor Remote teach pendant with trackball USB communication port Closed-loop low level exhaust notification (spray systems)

Optional Features:

Servo 4th Axis motion featuring valve tilt & rotate Closed-loop material flow monitoring Inline material metering Bar code program selection Low level fluid sensor Valve and / or fluid heating Programming camera Active vision with XY correction Substrate heating – contact or non-contact Dispense zone weigh scale Multi-zone conveyor Conveyor auto width adjust Weight Limit:

Fluid Applicators

Spray Valves: Dispense Valves: Jetting Valve: Auger Valves: Progressive Cavity Pumps:

Material Feed Options:

Flat belt or chain 50 mm (1.97 in) 500 mm (19.685 in) 100 mm (3.94 in) 100 mm (3.94 in) 4.7 mm (0.185 in)

940 mm - 965 mm (37 in - 38 in) SMEMA Lift and locate, through hole pin, under board support Up to 24.4 m/min (80 ft/min) Programmable right to left or left to right, bidirectional 5 pounds (belt) 15 pounds (chain)

FCS300-ES, FCS300-R/F, FC100-CF FC100-MC, FCM100, SB300 JDX SV200, SVX PCP, PDP

Syringe (1-55cc) Cartridge feed (6-20 oz) Pressure vessel Drums, totes

Backside of Machine: 80 - 100 PSI dry compressed air required Minimum 300CFM exhaust required

Power drop required - See machine spec for voltage

