



Selective Coating/Dispensing System  
*Delta 8*

**POLY DISPENSING SYSTEMS**  
S Y S T E M E S D E D O S A G E I N D U S T R I E L



## **Delta 8** **Selective Coating/Dispensing System**

### **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<sup>®</sup> software with offline image import and programming capability

PathMaster<sup>®</sup> is a registered trademark of Precision Valve & Automation, Inc. Windows<sup>®</sup> is a registered trademark of Microsoft Corporation.

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<sup>®</sup> programming environment

**For more information, please contact POLY DISPENSING SYSTEMS at [contact@polydispensing.com](mailto:contact@polydispensing.com) or (518) 371-2684.**

## 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  
**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 in)  
Maximum Speed (XYZ): 670 mm/sec (26.4"/sec)  
Maximum Acceleration: 0.6g  
Resolution: 5 microns (0.0002 in)  
Payload Capacity: 11.36kg (25 lbs)

### 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

### Board Handling

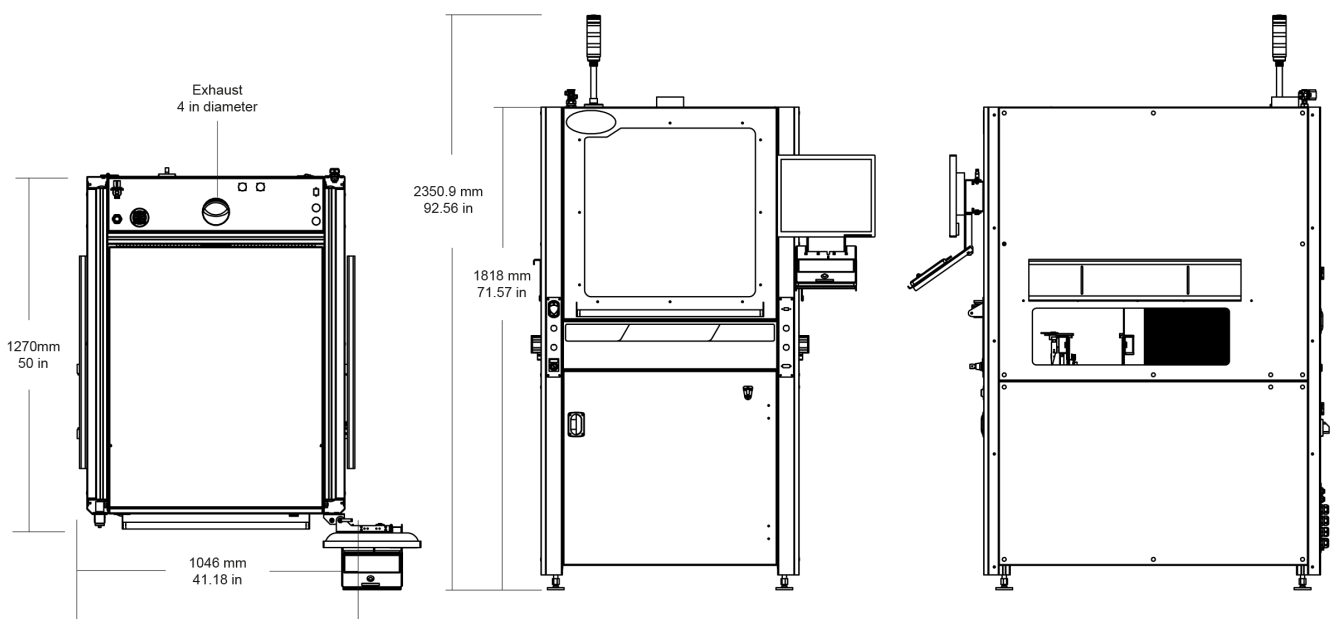
Conveyor Type: Flat belt or chain  
Minimum Conveyor Width: 50 mm (1.97 in)  
Maximum Conveyor Width: 500 mm (19.685 in)  
Board Clearance Topside: 100 mm (3.94 in)  
Board Clearance Underside: 100 mm (3.94 in)  
Edge Clearance: 4.7 mm (0.185 in)  
Transport Height: 940 mm - 965 mm (37 in - 38 in)  
Communications Protocol: SMEMA  
Conveyor Options: Lift and locate, through hole pin, under board support  
Conveyor Speed: Up to 24.4 m/min (80 ft/min)  
Process Flow: Programmable right to left or left to right, bidirectional  
Weight Limit: 5 pounds (belt)  
15 pounds (chain)

### Fluid Applicators

Spray Valves: FCS300-ES, FCS300-R/F, FC100-CF  
Dispense Valves: FC100-MC, FCM100, SB300  
Jetting Valve: JDX  
Auger Valves: SV200, SVX  
Progressive Cavity Pumps: PCP, PDP  
Material Feed Options: 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**



# POLY DISPENSING SYSTEMS

SYSTEMES DE DOSAGE INDUSTRIEL

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