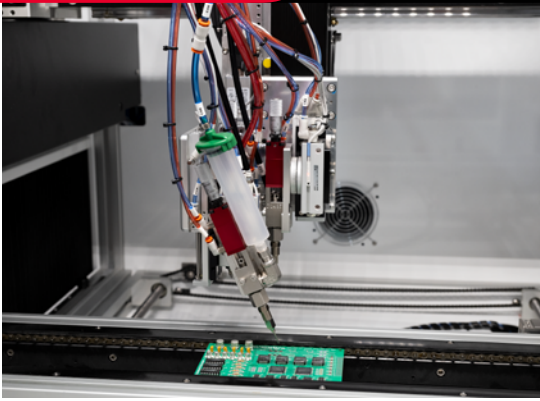




INNOVATION. **PRECISION.** EXCELLENCE.



System Specifications

Air

80 psi dry, unlubricated

Exhaust

Minimum 300 CFM

Power Requirements

120V, 220V, 50-60 Hz

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 in x 19.09 in x 3.94 in)

Payload Capacity

11.36 kg (25 lbs)

XYZ Repeatability

±25 microns (±0.001 in)

Resolution

5 microns (0.0002 in)

Maximum Acceleration

1 g

Maximum Speed

670 mm/sec (26.4 in/sec)

Footprint

854 mm x 1170 mm x 2105 mm
(33.62 in x 46.06 in x 82.9 in)

Programming Software

PathMaster® software with offline image import and programming capability

PathMaster X software with enhanced offline programming available on Direct Series models

PathMaster® is a registered trademark of Precision Valve & Automation, Inc.

Delta 6

Selective Coating/Dispensing System

The Delta 6 is a reimagined flexible robotic conformal coating/dispensing system that is ideal for selective coating, potting, bead, and meter mix dispensing applications. The Delta 6 features a robust overhead three-axis motion platform suitable for inline or batch operations.

While maintaining the preferred features of previous workcells, the Delta 6 has been designed with improved structural and gantry rigidity for higher acceleration, robustness, and easier access.

The Delta 6 has many options and integrated features including:

- 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 PVA programming software designed for the Delta 6

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



Direct Series Delta 6
configured for PathMaster X.

REV - 2/2025

Headquarters
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Delta 6

The Delta 6 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.

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:	Belt - 2.3 kg (5 lbs) Chain - 6.8 kg (15 lbs)

Common Fluid Applicators

Spray Valves:	FCS300-ES, FCS300-ES-UF, 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:	Pressure vessel, drums, totes, syringe (1 - 55 cc), cartridge feed (6 - 20 oz)

PathMaster & PathMaster X Software Features

Operating System:	Windows
Offline Programming Option:	Yes
Program Storage:	Onboard PC
Monitor:	Flat screen ¹ , touchscreen ²
Machine Pendant:	Teach pendant with trackball ¹ X-PAD multi-function controller ²
USB Communication Port:	Yes
Low Level Exhaust Monitoring:	Yes

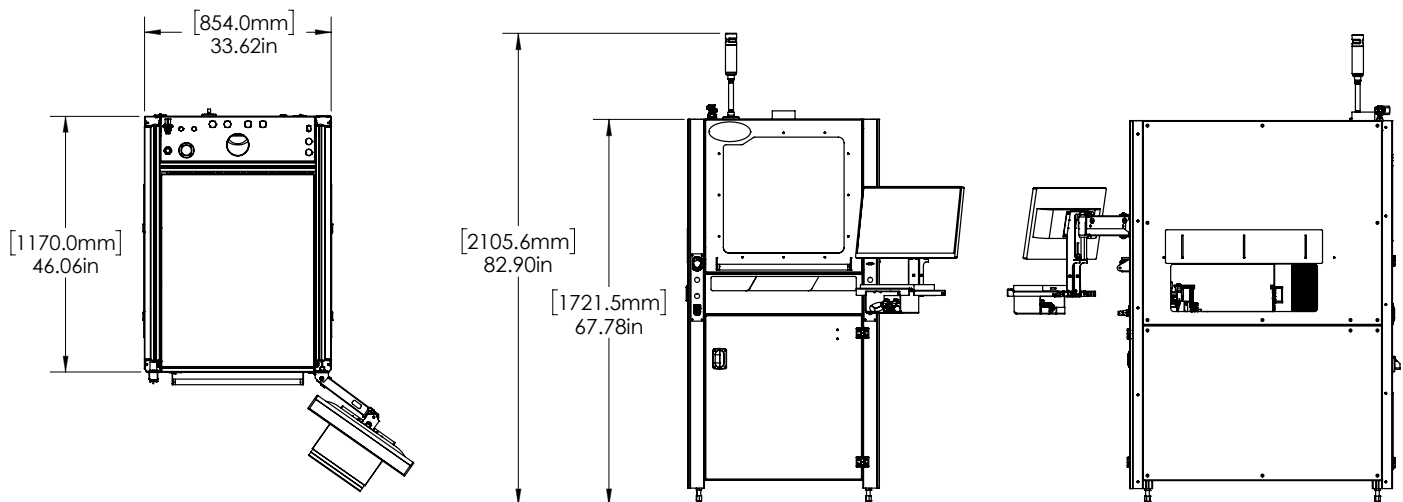
Optional Features

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

¹ Exclusive to PathMaster

² Exclusive to PathMaster X

Power drop required - See machine spec for voltage



Models above are of a Direct Series Delta 6 configured for PathMaster X.
Dimensions may vary.