



**WHERE
PRECISION
DRIVES
PRODUCTION**



PVA2000SF SPECIFICATIONS

Gantry System Design

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

Work Area

1 Valve:

459 mm x 459 mm x 101 mm
(18.07" x 18.07" x 4.0")

Note: available up to 1000mm x 1000mm
(39.37" x 39.37")

XYZ Repeatability

25 microns (0.001")

Resolution

5 microns (0.0002")

Maximum Acceleration

1g

Footprint

1219 mm x 1181 mm x 1835 mm
(48" x 46.5" x 72.25")

Programming Software

PathMaster® Software with offline image import and programming capability

PVA2000SF SELECTIVE COATING SYSTEM

The PVA2000SF is a flexible robotic platform that is ideal for any selective coating application. The PVA2000SF features a robust overhead three-axis motion platform suitable for inline or batch operation.

The PVA2000SF has many integrated features including:

- ▲ Robotic system accuracy of 25 microns
- ▲ Patented servo-controlled optional four-axis motion featuring valve tilt and rotate
- ▲ Closed loop process control throughout gantry system
- ▲ Micron level encoder resolution for unparalleled accuracy
- ▲ Multiple dispensing applications or materials in one cell
- ▲ Onboard PC for unlimited program storage
- ▲ Exclusive PathMaster® programming environment
- ▲ PVA's award winning global service network

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



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PVA2000SF

The PVA2000SF 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. The PVA2000SF 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

Board Handling:
 Conveyor Type: Flat belt or chain
 Minimum Conveyor Width: 50 mm (1.97")
 Board Clearance: 100 mm (3.94")
 Edge Clearance: 4.7 mm (0.185")
 Transport Height: 940 mm – 965 mm (37" – 38")
 Communication Protocol: SMEMA

XYZ Specifications
 Gantry System: Brushless DC servo motors
 Precision ball screw slides
 XYZ Repeatability: 25 microns (0.001")

Conveyor Options: Lift and locate, through hole pin, under board support
 Conveyor Speed: Up to 24.4m/min (80 ft/min)
 Process Flow: Programmable right to left or left to right, bidirectional
 Weight Limit: 5 pounds (belt)
 15 pounds (chain)

Maximum Speed (XYZ): 700 mm/sec (27.6"/sec)
 Maximum Acceleration: 1g

Resolution: 5 microns (0.0002")

Payload Capacity: 11.36 kg (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)
- Light tower (conveyorized systems)

Dispensing Methods:

- FCS300-ES: Focused, round pattern spray valve
- FCS300: Fan / oval pattern spray valve
- FC100-CF: Non-atomized film coater
- FC100-MC: Needle valve
- FCM100: Non-contact micro bead, dot
- "Material Feed Options: Cartridge feed (6 – 20 oz.)
 Pressure vessel
 Drums, totes

Optional Features:

- Dual head tooling
- Closed-loop material flow monitoring
- Inline material metering
- Bar code program selection
- Conveyor auto width adjust
- Low level material sensor
- Valve and / or material heating
- Programming Camera
- Active vision with XY correction

