



WHERE PRECISION DRIVES PRODUCTION

## PVA650 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")

XYZ Repeatability

25 microns (0.001")

Resolution 5 microns (0.0002")

Maximum Acceleration

Footprint 1219 mm x 940 mm x 1607 mm (48" x 37" x 63.25")

**Programming Software** PathMaster<sup>®</sup> software with offline image import and programming capability

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

# **PVA650** SELECTIVE COATING / DISPENSING SYSTEM

The PVA650 is a flexible robotic platform that is ideal for selective coating, potting, bead, and meter-mix dispensing applications. The PVA650 features a robust overhead three-axis motion platform suitable for inline or batch operations.

The PVA650 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<sup>®</sup> programming environment
- PVA's award winning global service network

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



## **PVA650**

The PVA650 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 PVA650 is a closed-loop robotic platform featuring optical encoder feedback on all axes.

Power: Air Supply:	120V, 220V, 50-60 Hz 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): Maximum Acceleration:	700 mm/sec (27.6"/sec) 1g
Resolution:	5 microns (0.0002")
Payload Capacity:	11.36 kg (25 lbs.)

#### **Standard Features:**

941.2 mm

37.05"

PathMaster® Windowsbased 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)

0

944.1 mm

37.17"

1219.2 mm

48.0"

П

#### **Board Handling:** Conveyor Type:

Minimum Conveyor Width: Board Clearance: Edge Clearance: Transport Height:

Communication Protocol: Conveyor Options:

Conveyor Speed: Process Flow:

Weight Limit:

### **Dispensing Methods:**

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

Flat belt or chain

under board support Up to 24.4m/min (80 ft/min)

right, bidirectional

5 pounds (belt) 15 pounds (chain)

940 mm – 965 mm (37" – 38")

Lift and locate, through hole pin,

Programmable right to left or left to

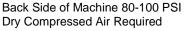
50 mm (1.97")

70 mm (2.76") 4.7 mm (0.185")

SMEMA

#### **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



### Power Drop Required See Machine Spec for Voltage



