



**WHERE
PRECISION
DRIVES
PRODUCTION**



PVA850C HIGH SPEED SELECTIVE COATING SYSTEM

PVA850C SPECIFICATIONS

Gantry System Design:

Closed loop brushless DC servo motors, ball screw slide, and optical encoders on all axes

XYZ Travel:

500 mm x 500 mm x 100 mm
(19.68 in x 19.68 in x 3.94 in)

Footprint:

1219 mm x 1041 mm x 1606 mm
(48 in x 41 in x 63.22 in)

Payload Capacity:

5.68 kg (12.5 pounds)

Weight:

509 kg (1122.15 pounds)

Air Supply:

10 cfm at > 80 psi (5.5 bar) filtered at 5 microns

Power:

208 – 240 VAC, 50 – 60 Hz

PVA has unveiled the next generation of high speed selective coating systems with the PVA850C. Touting the highest speed and accuracy ratings in the selective coating industry, the PVA850C will provide throughput and flexibility unlike any rival. PVA's robust gantry design can accommodate multiple application heads and requires no periodic positional calibration. The PVA850C is ideally suited for any selective coating application where high speed, accuracy, and flexibility are of the highest demand.

The PVA850C has many integrated features including:

- ▲ Robotic system accuracy of 25 microns
- ▲ Active vision system with fiducial recognition and correction
- ▲ Closed loop process control from gantry system to coating valve
- ▲ Maximum axis speed of 1750 mm/sec (68.9"/sec) and 2g acceleration for incredibly high throughput
- ▲ Micron level encoder resolution for unparalleled coating accuracy
- ▲ Exclusive Windows®-based programming environment

For more information on PVA's selective coating capabilities, please contact one of our sales representatives at (518) 371-2684.



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PVA850C

The PVA850C is ideal for any commercially available conformal coating material including acrylics, epoxies, silicones, and urethanes. Single and dual-component coating chemistries can be processed through the PVA850C with the fastest and most accurate robotic platform in the industry.

PVA850C Accuracy: 25 microns (0.001")
XYZ Placement Accuracy: 50 microns (0.002")

XYZ Specifications

XYZ Repeatability: 25 microns (0.001")
 Maximum Speed (XYZ): 1750 mm/sec (68.9"/sec)
 Maximum Acceleration: 2g

Encoder Resolution (XY): 2.5 microns
 Encoder Resolution (Z): 1.25 microns

Payload Capacity: 5.68 kg (12.5 pounds)

Board Handling:

Conveyor Type: Flat belt or chain
 Minimum Conveyor Width: 50 mm (1.97")
 Above Board Clearance: 55 mm (2.17")
 Under Board Clearance: 20 mm (0.79")
 Transport Height: 940 mm – 965 mm (37" – 38")
 Communication Protocol: SMEMA
 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)

Standard Features:

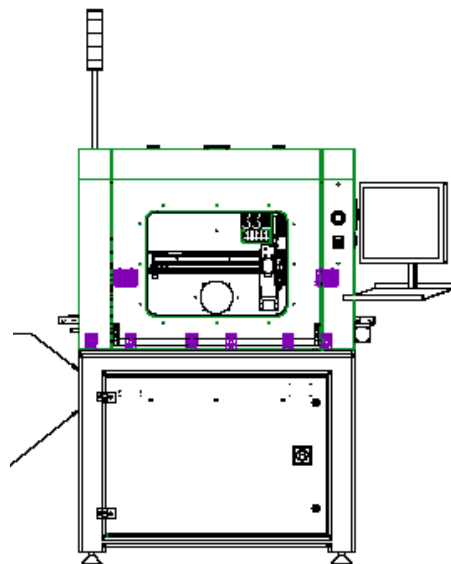
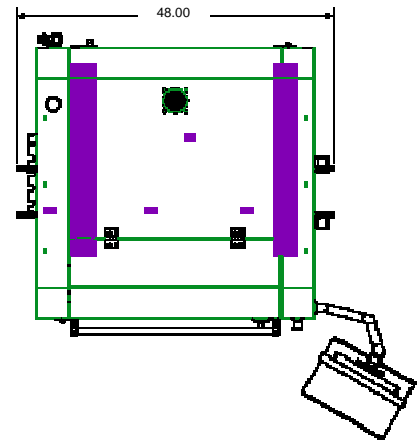
Active vision system with fiducial recognition / correction
 Automatic XYZ calibration
 Industrial PC with Windows® operating system
 Hard drive, DVD-RW, and Ethernet program storage
 Closed-loop low level exhaust notification
 Light tower (conveyorized systems)
 PVA data logging software suite

Dispensing Methods:

FCS200-ES: Oval pattern spray valve
 FCS100-F: Fan pattern spray valve
 FC100-C: Non-atomized film coater
 FC100: Bead, dot, jetting
 Material Feed Options: Cartridge feed (6 – 20 oz.)
 Pressure vessel
 Drums, totes

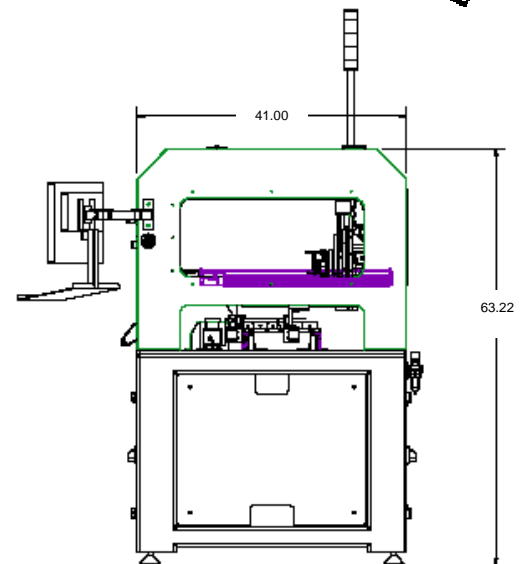
Optional Features:

Dual head / dual material tooling
 Automatic needle cleaner
 Bar code program selection
 Conveyor auto width adjust
 Low level material sensor
 Closed-loop material flow monitoring
 Inline material metering



Back side of machine, 80-100 psi dry compressed air drop required

Back side power drop required, see machine spec for voltage



Measurements in inches