



**WHERE
PRECISION
DRIVES
PRODUCTION**



About PVA

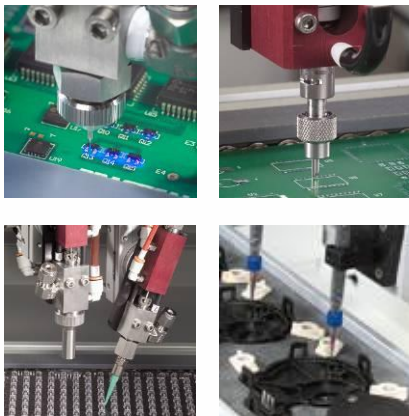
PVA is a global supplier of conformal coating systems and innovative fluid dispensing solutions at the forefront of motion and application technology. PVA's customer driven solutions are utilized worldwide and supported by an industry leading global network.

Industries

Electronics • Automotive • Aerospace • General Packaging • Medical Device • Renewable Energy Consumer Goods • Military / Defense

Application Methods

Atomized Spray • Airless Spray • Flow Coating • Internal Bore Coating • Continuous Bead • Dots • Potting • Bonding • Underfill • Glob top • Dam & Fill • Non-contact • Micro Dispense



PVA Product Overview

Selective Conformal Coating

- PVA350 Tabletop Selective Coating System
- PVA650 Selective Coating System
- PVA2000 Selective Coating System
- PVA2000SF Steel Frame Selective Coating System



PVA650

Microelectronics – (Underfill, Paste, Encapsulant)

- PVA350SMT Tabletop SMT Dispensing System
- PVA650SMT SMT Dispensing System

General Dispensing

- PVA250 Tabletop Dispensing System
- PVA350 Tabletop Selective Coating System
- PVA650 Selective Coating System
- PVA3000 Automated Dispensing System



PVA250

Meter-mix Dispensing

- MX3000 / MX4000 Gear Pump Meter-Mix Systems
- MX1000 / MX1500 Rod Displacement Meter-Mix

Valve Options

- FCM Series Micro Dispense
- FCS Series Atomized Spray
- FC Series Needle Dispense
- SVX Auger Valve
- MV Series Shot Metering
- CA Series Diaphragm Valves
- PC Series 2-part Mixing Valves

Manual/Benchtop Dispensers

- Valve/Syringe Controllers
- Valve/Syringe Stands
- Custom Solutions



MX4000 Meter Mix Dispensing

Custom Automation

- Selective Soldering
- Odd-form Pick and Place
- Automated Screw Driving
- Automated Optical Inspection

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Selective Coating Equipment Comparison



PVA350

PVA650

PVA2000

PVA2000SF

Repeatability	.025mm	.025mm	.025mm	.025mm
Max Speed	500mm/sec	700mm/sec	700mm/sec	700mm/sec
Encoder Resolution	5 micron	5 micron	5 micron	5 micron
Gantry Drive System	Closed Loop DC servo, Ballscrew Drive	Closed Loop DC servo, Ballscrew Drive	Closed Loop DC servo, Ballscrew Drive	Closed Loop DC servo, Ballscrew Drive
Max Acceleration	1 g	1 g	1 g	1 g
Travel				
Initial XY Axis Travel	400mm x 400mm	500mm x 500mm	500mm x 500mm	500mm x 500mm
Z Axis Travel	90mm	90mm	90mm	90mm
Board Handling				
Conveyor Type	N/A	Flat Edge Belt or Chain	Flat Edge Belt or Chain	Flat Edge Belt or Chain
Min Conveyor Width	10mm	50mm	50mm	50mm
Above Board Clearance	55mm	70mm	60mm (standard)	60mm (standard)
Under Board Clearance	80	70mm	100mm (standard)	100mm (standard)
Transport Height	N/A	940mm to 965mm	940mm to 965mm	940mm to 965mm
Conveyor Protocol	N/A	SMEMA	SMEMA	SMEMA
Standard Board Sizes	Up to 380mm	50mm-457mm	50mm-457mm	50mm-457mm
Facilities				
Power	120 to 240 VAC, 50/60hz	120 to 240 VAC, 50/60hz	120 to 240 VAC, 50/60hz	120 to 240 VAC, 50/60hz
Air Supply	10 CFM at > 80 PSI(5.5 bar) Filtered @ 5microns	10 CFM at > 80 PSI(5.5 bar) Filtered @ 5microns	10 CFM at > 80 PSI(5.5 bar) Filtered @ 5microns	10 CFM at > 80 PSI(5.5 bar) Filtered @ 5microns
Footprint	945mm x 832mm x 794mm	1219mm x 941mm x 1607mm	1219mm x 1097mm x 1651mm	1219mm x 1181mm x 1835mm
Exhaust	300cfm minimum	300cfm minimum	300cfm minimum	300cfm minimum
Features				
Four-Axis	Option	Option	Option	Option
Bar Code Reading	Option	Option	Option	Option
Passive Programming Camera	Option	Option	Option	Option
XY Fiducial Camera	Option	Option	Option	Option
Part Shuttles	Option	Option	Option	Option
Exhaust Blower	Option	Option	Option	Option
PathMaster Software	Standard	Standard	Standard	Standard
Offline Programming	Standard	Standard	Standard	Standard
Onboard Computer	Option	Standard	Option	Standard
Flow Monitoring	Option	Option	Option	Option
Dual/Multi Head Tooling	Option	Option	Option	Option

PVA Patents

PVA holds four US patents, including the only **TRUE** four-axis motion capability featuring patented tilt and servo rotation control (4 axis patent – #6447847), and the atomized spray valve technology (ES Valve patent – #6523757).

