



WHERE
PRECISION
DRIVES
PRODUCTION



PVA650

STREAMLINED PROCESS FLEXIBILITY



The PVA650 is the platform of choice for economical, flexible adhesive and coating process solutions. Configurable for virtually any adhesive application, the PVA650 is ideal for most selective conformal coating, potting, dot, and bead operations. Multiple applications can be implemented on one gantry platform for a higher ROI (return on investment) and greater capability in your manufacturing process.

UNPARALLELED MOTION CAPABILITY

The PVA650 features a fully programmable 3-axis motion platform. A robust overhead gantry system employs brushless DC servo motors driving precision-grade ball screw slides over a large 500 mm (19.68 in) square work area. All axes include optical encoder feedback for a reliable, closed loop process. The PVA650 offers motion in all axes simultaneously allowing paths to contour in and around intricate devices or hardware seamlessly without steps.

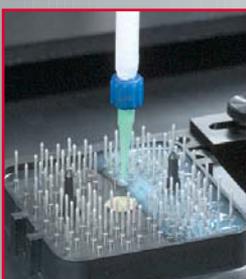
Our patented 4-axis motion is available on the PVA650, thus providing the most flexible gantry platform in the industry. Utilizing a combination of pneumatic tilt motion and true, servo controlled rotation of the application head, the PVA650 can access virtually any topography with pinpoint accuracy.



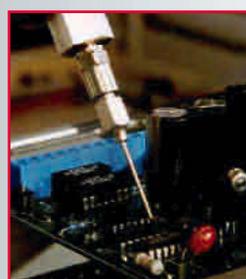
BEAD / POTTING



DOT PLACEMENT



METER MIX



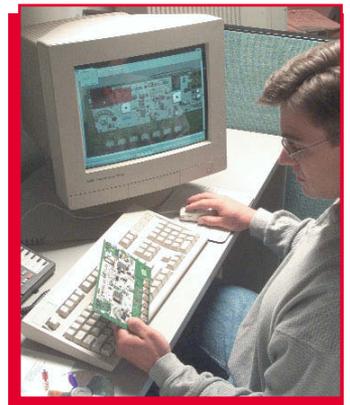
SELECTIVE CONFORMAL COATING

CONFIGURATION FLEXIBILITY

The PVA650 can be configured for a variety of tasks including selective coating, potting, and bonding. Each application process can be customized for multiple tasks featuring any PVA spray or dispense valve. The PVA650 can be configured as a manually fed standalone machine or conveyORIZED for inline processes. PVA offers edge handling chain and belt conveyor solutions featuring SMEMA communication protocol. Installing additional modules such as inline cure ovens, inverters, or queue stations can augment your inline manufacturing process.

PROGRAMMING

PVA's exclusive Windows®-based programming software offers a quick and easy integrated solution to creating coating patterns, lines, dots, circles, arcs, and more. PathMaster® is compatible with Windows® 95, 98, 2000, NT, Me, and XP formats. A programmer utilizes a remote teach pendant with trackball to interface with PathMaster®, moving to and selecting points to build a program. If your boards are in a pallet or an array, you can simply create one original path and copy the program across the work area.



The PVA650's non-volatile memory can hold up to thirty programs for immediate recall on the front panel LCD screen. Greater program storage capabilities are also available when you tether a computer system via a standard RS232 communication port.

FASTPATH™

PathMaster® permits offline programming. Utilizing CAD exported images or digital photography you can quickly fill area functions and create brush strokes by simply clicking on desired coverage areas. An adjustable brush stroke width lets you tailor your path program to eliminate masking in your application.

GLOBAL SERVICE NETWORK



We provide award winning 24-hour global service and support for all customers. *Circuits Assembly* honored PVA for three consecutive years as the industry leader in customer service, response, technology, and value with the presentation of their prestigious Service Excellence

Award. PVA's service engineers assist with the installation and training of all global applications.

PathMaster® is a registered trademark of Precision Valve & Automation, Inc. FastPath™ is a trademark of Precision Valve & Automation, Inc. Windows® is a registered trademark of Microsoft Corporation.

SPECIFICATIONS

Motor:
Brushless DC servo

Drive Mechanism:
Ball screw slide

Work Area:
500 mm (X) x 500 mm (Y) x 100 mm (Z)
(19.68 in x 19.68 in x 3.94 in)

Travel Speed:
0 to 700 mm / sec
(0 to 27.56 in / sec)

Payload Capacity:
25 lbs (11.36 kg)

Repeatability:
0.025 mm (0.001 in)

Resolution:
0.015 mm (0.0006 in)

Power Requirements:
120V, 220V, +/-10%, 50-60 Hz

Air Requirements:
80 psi dry, unlubricated air

Programming Software:
PathMaster® Windows®

Program Storage:
30 standalone without computer system

Teach Method:
Remote trackball teach pendant

Operator Interface:
LCD screen with function keys

Conveyor Speed:
Programmable up to 80 ft/min (24.4 m/min)

Conveyor Compatibility:
SMEMA

Conveyor Process Flow:
Programmable right to left or left to right

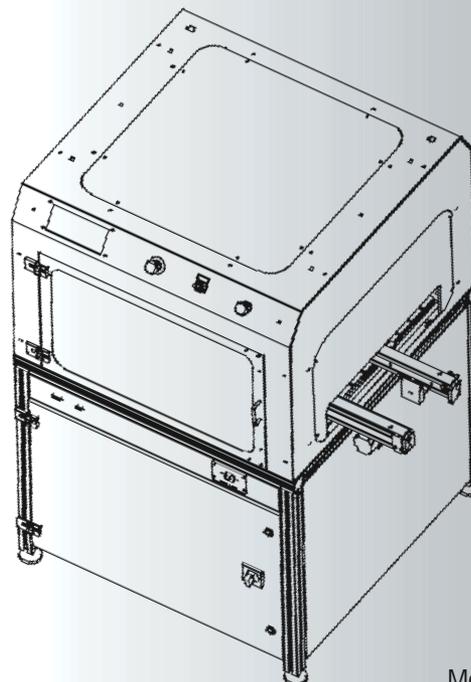
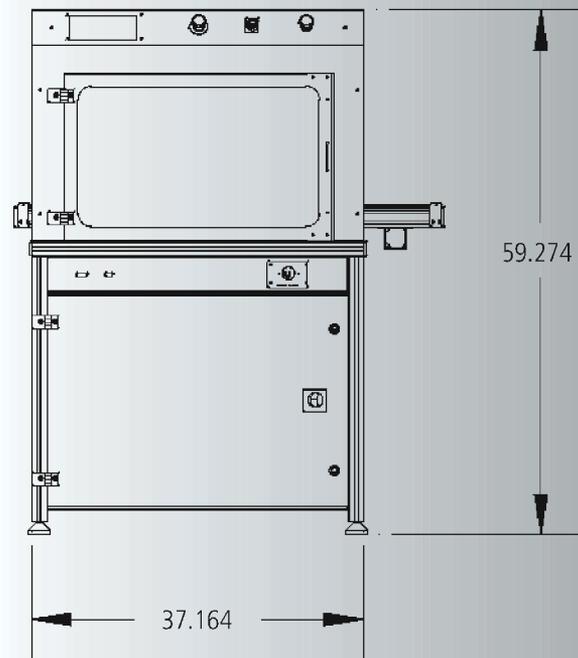
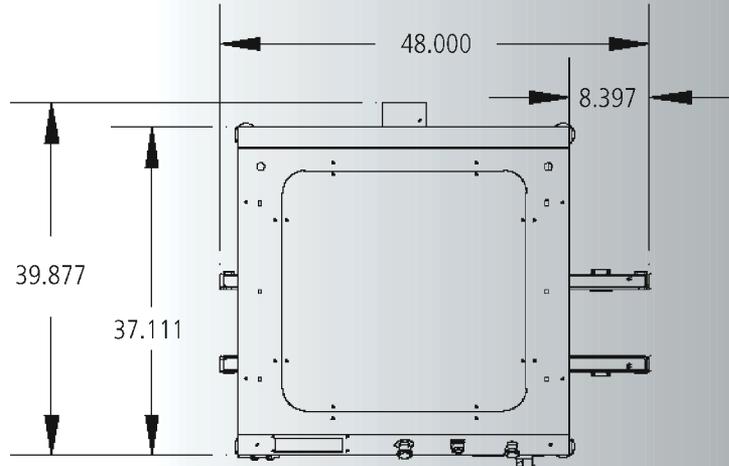
Conveyor Edge Clearance:
SMEMA standard 4.7 mm (0.185 in)

Component Clearance:
50.8 mm (2 in)

Belt Conveyor Weight Limit:
5 pounds per section

Chain Conveyor Weight Limit:
15 pounds per section

Certification:
CE certified



Measurements shown in inches.

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