



INNOVATION. **PRECISION.** EXCELLENCE.



System Specifications

Gantry System Design

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

Work Area

Flex Cell
500 mm X and Y-axis Stroke

Flex Cell-600
600 mm X and Y-axis Stroke

Flex Cell-800
800 mm X and Y-axis Stroke

XYZ Repeatability

±25 microns (±0.001")

Resolution

5 microns (0.0002")

Maximum Acceleration

1g

Footprint

Varies upon workcell

Programming Software

PathMaster® software with offline image import and programming capability

Flex Cell Custom Selective Coating/Dispensing System

The Flex Cell is a custom three or four-axis robotic platform for dispensing a wide variety of adhesives, sealants, and conformal coatings. Each Flex Cell is designed to your specific application and with your desired options.

The Flex Cell employs a robust gantry system featuring precision ball screw slides driven by brushless DC servo motors. Every axis of motion features optical encoder feedback for a truly closed-loop process.

The Flex Cell has many options and integrated features including:

- Robotic system repeatability of 25 microns
- Patented servo-controlled optional four-axis motion featuring valve tilt and rotate
- Closed loop process control throughout gantry system
- Multiple dispensing applications or materials in one cell
- Onboard PC for unlimited program storage
- Exclusive PathMaster® programming environment

For more information, please contact PVA at info@pva.net or contact your local representative.

