Dispensing Cell ACT-DYM-1801

Robotic cell for bead and spray dispensing.

This series of dispensing cells incorporate fully articulating motion of 6-axes robotic arms for masking and dispensing on most complex surfaces such as medical implants or airfoils. Precise motion programs are developed offline and loaded to the cell controller ready to run. Process functions include bead and spray dispensing, UV curing, part and tool handling. Intuitive touch screen HMI allows easy machine controls, maintenance, and troubleshooting.

Composition
- 6-axes articulated robotic arm with controller
- 2D camera
- Bead dispensing valve
- Spray valve with controller
- UV station with controller
**Sequence**
- Pick up the gripper
- Pick up the part
- Vision scan for part position calibration
- Bead dispensing and UV cure (width adjustable)
- Helical spray dispensing and UV cure
- Rotate part 180 degree
- Repeat scan, bead and spray dispensing step

**Station and Features**

| 6-axes articulated robotic arm | Touch screen HMI |
| Vision scanner                  | Part load/unload drawer |
| Bead and spray dispensing      | Tool placement rack    |
| UV cure station                | UV blocking enclosure  |
|                                | Leveling roller casters|

**Programming**
- Off-line tool path programming based on part geometry.
- Programming can be edited without affecting production
- Full simulation with collision detection

**Overall Dimension (Approximate)**
- 1.36m x 1.30m x 1.93m

**Options**
- Automatic gripper change
- In-process thickness inspection
- Part load systems such as indexer, conveyor, single nests

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**ACT ROBOTS, INC.**

95 Wooster Court, 
Bristol, CT 06010, USA  
Phone: +1-860-314-1557  
Fax: +1-860-314-1565

Dymax Corporation

318 Industrial Lane  
Torrington, CT 06790, USA  
Phone: +1-860-482-1010  
Fax: +1-860-314-1565