

4-Axis Benchtop Dispensing Robot

This automated dispensing robot is easy to program and quick to set up with specialized PLC dispensing software and CAD download capabilities. True four-dimensional motion control allows easy programming of dots, stripes, arcs, compound arcs and patterns on different planes.



ADDITIONAL IMAGES



Overview

Precision 4-Axis Dispensing Solution

This 4-axis benchtop dispensing robot is engineered for high-precision, automated application of adhesives, sealants, and fluids. Featuring full 4-axis simultaneous positioning and a 360° rotating R-axis, it excels at complex dispensing tasks on curved or vertical surfaces. Designed with a robust, lightweight structure, this system improves production efficiency, ensures consistent quality, and significantly reduces material waste in manufacturing environments.

Technical Specifications

| | |
|---------------------------|------------|
| Working Range (X, Y Axis) | 400 mm |
| Working Range (Z Axis) | 100 mm |
| R Axis Rotation | ±360° |
| Power Consumption | 300 W |
| Operating Voltage | 110V, 220V |

Performance Metrics

Program Capacity

9999 count
Programs

8000 points
Data Points

Operating Environment

| Parameter | Range |
|-------------------|--------------------------|
| Temperature | 0-40°C |
| Relative Humidity | 20-90% (No condensation) |

Connectivity & Control

External I/O

- 4 Inputs / 4 Outputs (Standard)
- 16 Inputs / 16 Outputs (Extensible)
- USB Interface
- Teach Pendant Port

Compatibility

Supported Liquid Materials

Adhesive • Glue • Silicone • RTV • Cyanoacrylate • Grease • Anaerobic • UV Cure Resins

Included Accessories

Standard Accessory List

| Item | Quantity |
|--------------------------|----------|
| Dispensing Robot Unit | 1 |
| Teach Pendant with Frame | 1 |
| Teach Pendant Cable | 1 |
| Dispensing Signal Line | 1 |
| Dispenser Fix Frame | 1 |
| Power Cord | 1 |
| U Disk (Manual/Video) | 1 |