

Benchtop Silicone Dispensing Robot for Cartridges

This benchtop robot is designed for dispensing silicone from 310ml cartridges. The XYZ axes are equipped with linear guide rails and precision stepper motors for stable and accurate operation.



ADDITIONAL IMAGES



Overview

Automated Precision Dispensing Solution

This benchtop dispensing robot is engineered for high-precision automated application of silicone, adhesives, and sealants. Designed to replace manual operations, it features a robust triaxial XYZ motion system capable of handling complex surfaces and multiple identical objects with a repeatability of 0.02mm. The system supports various cartridge sizes and offers advanced programming capabilities, including CAD file integration, to ensure consistent quality and increased production efficiency.

Technical Specifications

Precision Metrics

0.02 mm

Repeatability

0.001 mm

Resolution

Working Area & Dimensions

Model	Working Range (mm)	Dimensions (WxDxH mm)	Weight (kg)
TH-2004D-300	300 x 300 x 100	500 x 580 x 610	37.5
TH-2004D-400	400 x 400 x 100	600 x 680 x 610	42.5
TH-2004D-500	500 x 500 x 100	700 x 780 x 610	49.5

Maximum Load Capacity

10 kg

XY Axis Load

3 kg

Z Axis Load

Operational Features

Compatible Cartridge Sizes

- 310ml
- 400ml
- 500ml
- 600ml

Programming Capabilities

- Handheld teach pendant
- CAD file download
- USB data transfer
- 3D linear interpolation
- Lines, Circles, Arcs, Continuous Paths

Compatible Materials

Adhesive, Glue, Silicone, RTV, Sealant, UV

Compliance & Environment

Certifications

CE Approved • GSG Safety Approved

Operating Conditions

- Temperature: 0-40°C
- Humidity: 20-90% (no condensation)