

Benchtop Glue Dispensing Robot with Syringe Micro Dispensing

This benchtop glue dispensing robot automates the application of adhesives, sealants, and other fluids with high precision. It utilizes a syringe-based micro dispensing system and offers programmable dispensing paths for intricate patterns and consistent dosing.



ADDITIONAL IMAGES



Overview

Precision Automated Dispensing System

This benchtop dispensing robot is engineered for high-precision application of adhesives, sealants, and various industrial fluids. Featuring a versatile syringe-based micro-dispensing system, it ensures consistent material flow and eliminates dripping through an integrated suck-back control. Its robust design, utilizing high-grade aluminum and precision linear guides, makes it an ideal solution for electronics assembly, medical device manufacturing, and other intricate industrial processes.

Performance Metrics

Key Performance Metrics

10 kg

Max Load (XY)

800 mm/s

Max Speed (XY)

9999 programs

Memory Capacity

Technical Specifications

Model Specifications

Model	Working Range (mm)	Dimensions (mm)	Weight (kg)
TH-2004D-300	300 x 300 x 100	500 x 580 x 610	34
TH-2004D-400	400 x 400 x 100	600 x 680 x 610	39
TH-2004D-500	500 x 500 x 100	700 x 780 x 610	46

Supported Syringe Sizes

- 3cc
- 5cc
- 10cc
- 30cc
- 55cc
- 300cc

Compatible Materials

Glue, Silicone, RTV, Cyanoacrylate, Grease, Anaerobic, UV Cure Resins

Construction & Control

Construction Materials

- 6063 Aluminum Frame
- 304 Stainless Steel Screws
- Precision Linear Guides
- Germany Synchronous Belt

Control System Features

- Offline LCD Operation Panel
- Precision micro-stepper motor
- 4 Inputs / 4 Outputs
- Handheld Programmer

Operating Environment

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- Working Temperature: 0 - 40°C
- Relative Humidity: 20 - 90% (No condensation)

Certifications

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CE Approved