

# 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