

# Cantilever Robot for Syringe Micro Dispensing

This compact gantry benchtop robot is designed for integration into any work surface. It is suitable for platforms requiring gantry-type mounting with open access under the robot.



CE SGS

## ADDITIONAL IMAGES



CE SGS



CE SGS

## Overview

### Precision Cantilever Dispensing Robot

The TH-206H-K is a high-precision cantilever industrial robot engineered for automated syringe micro-dispensing applications. Designed to enhance production efficiency and processing precision, this system minimizes material waste and labor costs while ensuring consistent quality. It supports a wide array of fluid materials, including adhesives, silicones, UV cure resins, and lubricants, making it a versatile solution for electronics assembly and manufacturing.

## Key Features

### Dispensing Capabilities

- Compatible with 3cc, 5cc, 10cc, 30cc, 55cc, and 300cc syringe sizes
- Includes suck-back functionality to prevent dripping
- Supports 3D lines, circles, arcs, and continuous paths
- XYZ simultaneous motion control

### Certifications

CE Approved

## Performance Metrics

### Performance Highlights

**0.02 mm**

Repeatability

**0.001 mm**

Resolution

**10 kg**

XY Max Load

**3 kg**

Z Max Load

## Technical Specifications

### Dimensions & Weight

Attribute	Value
Dimensions (WxDxH)	600 x 520 x 610 mm
Weight	37.5 kg
Working Range (X/Y/Z)	300 x 300 x 100 mm
Axis Speed	800/350 mm/Axis
Drive System	Precision micro-stepper motor with Timing Belt/Precision Linear Guides

## Operations

### Connectivity

USB Port for data transfer

Programming Interface	Handheld Programmer
Data Memory Capacity	9999
I/O Signals	4 Inputs / 4 Outputs

## Environmental Requirements

### Operating Environment

Condition	Range
Temperature	0 ^ 40
Relative Humidity	20^90% (no condensation)
Power Supply	AC110V/220V (Internal conversion)