

Simple and smart **tabletop robots**

MYSmart™ series MYT10™/MYT50™ tabletop robots



Introducing the MYT50

High-performance tabletop robots

The MYSmart MYT50 is designed to tackle complex electronics assemblies. These tabletop robots are highly capable and scalable to meet current and future requirements. From advanced prototyping to batch production, the MYT50 is designed with flexibility and configurability in mind.

FULL RANGE DISPENSER ON A TABLETOP

The MYT50 comes standard with advanced capabilities, including automated calibration and visual inspection, barcode and fiducial scanning, and z-axis laser height compensation, bringing easy-to-use in-line functionality into a space-saving tabletop format.



Common application

- Fingerprint module dispensing
- FPC dispensing
- VCM dispensing
- Underfill
- Encapsulation and coating
- Edge bonding and sealing
- Corner bonding
- Solder paste dispensing



Standard setup

- Three-axis movement
- CCD for fiducials and programming
- Non-contact laser height sensor
- Intelligent valve control
- CCD barcode reader for program loading
- Nozzle cleaning
- IPC

Configurable options

- Low liquid level alarm
- Bent needle calibration

MYT50 tabletops

Capability and flexibility



Nozzle cleaning

- Integrated into the system
- Good nozzle cleaning effect
- Suitable for MYT50 machine with jet valve



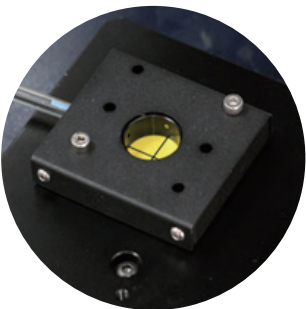
Laser height detection

- Auto detection of product height
- Automatic collision avoidance
- Compatible with all Mycronic valves



Low fluid level detection module (optional)

- Alert operator when new materials are needed
- Alarm when liquid level too low
- Prevents excessive air into adhesive



Automatic needle calibration module (optional)

- For use on valves with needles
- Simplifies setup and reduces time
- Ensures process repeatability
- Ideal for semi-automatic assembly processes

Introducing the MYT10

Robust entry level tabletop robots



For small-batch manufacturers, the MYSmart series provides a selection of robust tabletop dispensing robots with varying levels of capabilities.

INTRODUCING THE MYT10

The semi-automated MYT10 series is well suited for cost-efficient handling of standard electronic and industrial packages, as well as testing, and heat-conductive dispensing. Automatic needle calibration and intelligent valve control help to ensure minimal setup and stoppage times for the most complex program routines.



Common application

- Adhesive dispensing
- Testing
- Industrial dispensing
- Potting
- Gasketing

Standard setup

- Three-axis movement
- Intelligent valve control
- Handheld pendant controller
- Bent needle calibration



Specifications **MYT50 and MYT10 series**

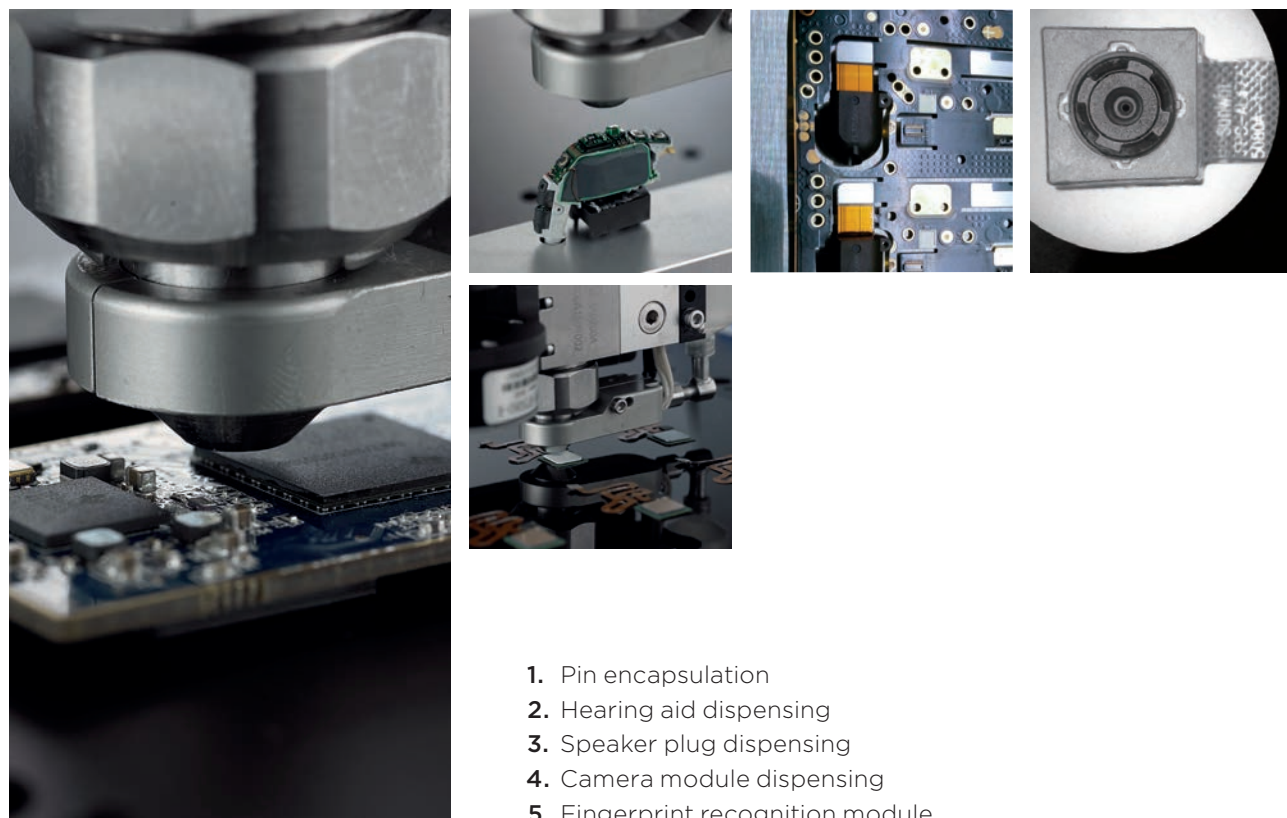
	MYT50S	MYT50M	MYT50L	MYT50 MD	MYT50 LD
Dimension (D x W x H)	540x640x630mm	640x740x630mm	740x840x630mm	706x841x623mm	806x941x623mm
Working area (X x Y x Z)	300x300x100mm	400x400x100mm	500x500x100mm	400x400x 400x100mm	500x500x 500x100mm
Machine weight	85kg	91kg	101kg	140kg	150kg
Gantry type	H-Bridge			H-Bridge	
System control	Windows 10 IPC, Axxon/Mycronic software			Windows 10 IPC, Axxon/Mycronic software	
Drive system	AC servo motor and precise ball screw			AC servo motor and precise ball screw	
Work load	15kg			10kg	
Z-axis work load	7kg			5kg	
Max speed	X: 500 Y: 500 Z: 300mm/s			X1: 800 Y1: 800 X2: 800 Y2:800 Z: 300mm/s	
Acceleration	0.45g			0.8g	
Repeatability	±10µm			±10µm	
Max power rating	800W			850W	
Electrical requirements	AC 220V, 50/60Hz, 10A			AC 220V, 50Hz, 10A	
Visual system	Industrial CCD			Industrial CCD	
Resolution	0.01x0.01mm (adjustable)			0.01x0.01mm (adjustable)	
Field of View	7 x 9mm (adjustable)			14 x 14mm (adjustable)	
Light source	LED			LED	
Optional function	Low fluid level detection module, automatic needle calibration module			Low fluid level detection module, automatic needle calibration module	
Certification	CE			CE	

	MYT10S	MYT10L
Dimension (D x W x H)	540x640x630mm	740x840x630mm
Working area (X x Y x Z)	300x300x100mm	500x500x100mm
Machine weight	87kg	105kg
Structure	H-Bridge	
Control	Independent motion controller	
Drive system	AC servo motor and precise ball screw	
Workpiece payload	15kg	
Tool payload	7kg	
Max working speed	X: 500 Y: 500 Z: 300mm/s	
Acceleration	0.45g	
Repeatability	±10µm	
Programming	Hand-held programmer	
Memory capacity	144M	
Power	600W	
Input power	AC 220V 50/60Hz 10A	
I/O	8 input/8 output	
Certification type	CE	



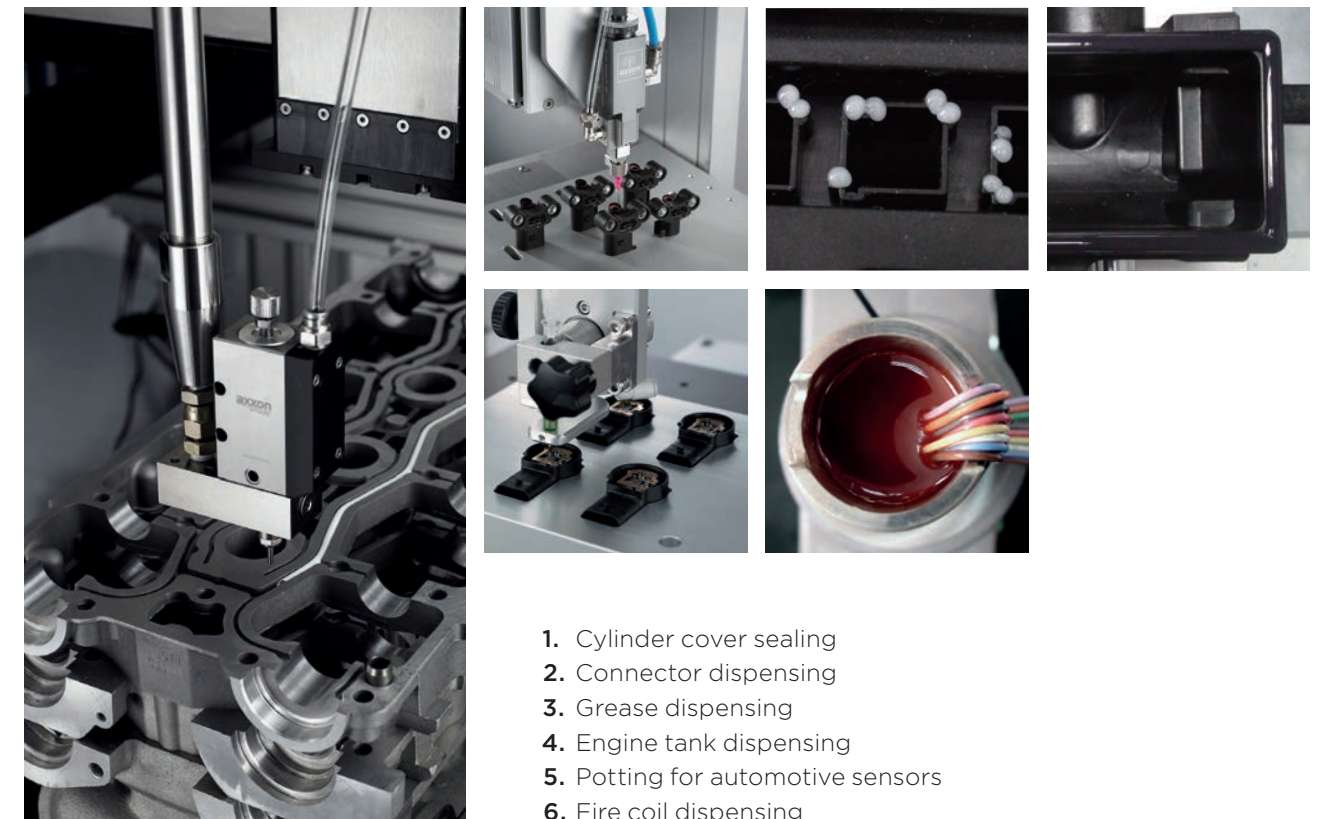
Tabletop robot **applications**

APPLICATIONS IN CONSUMER ELECTRONICS INDUSTRY



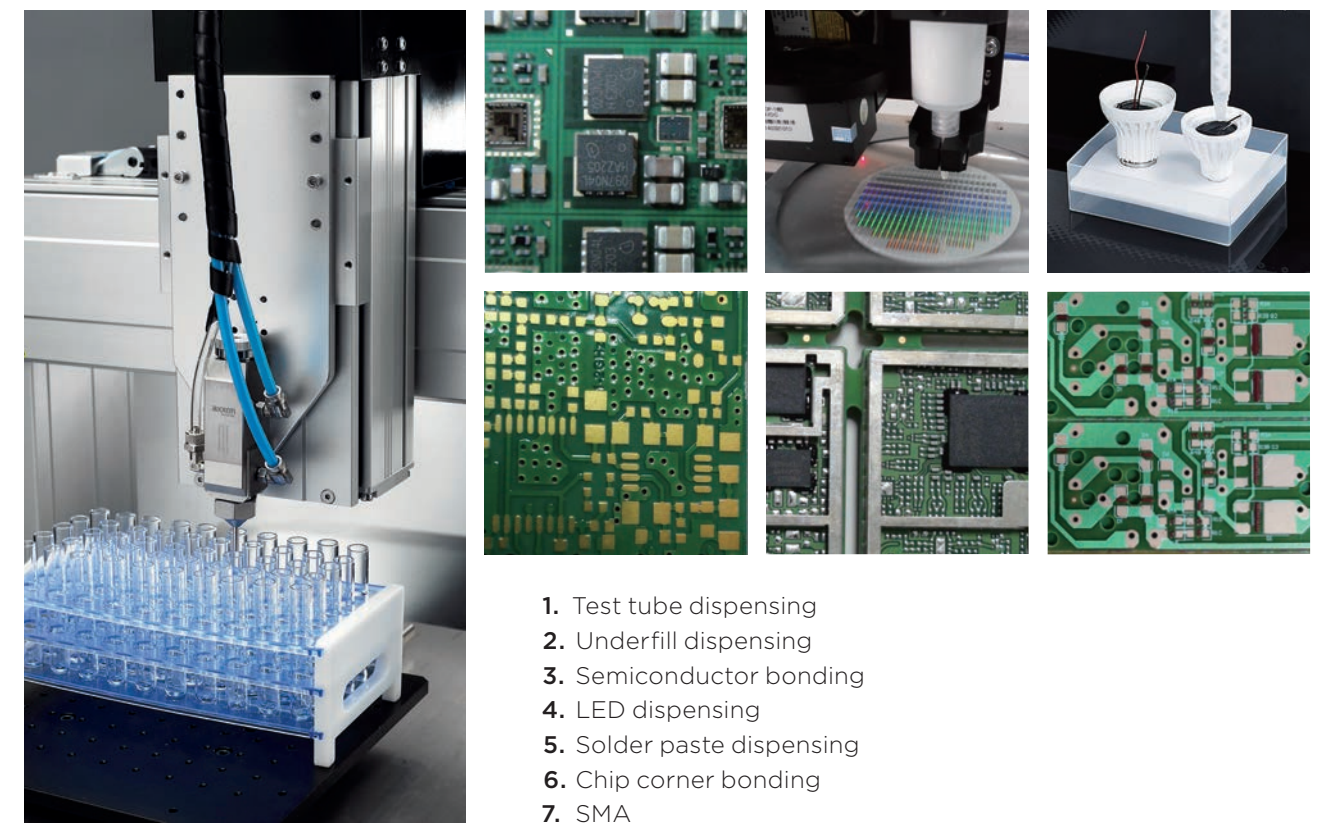
1. Pin encapsulation
2. Hearing aid dispensing
3. Speaker plug dispensing
4. Camera module dispensing
5. Fingerprint recognition module

APPLICATIONS IN AUTOMOTIVE ELECTRONICS



1. Cylinder cover sealing
2. Connector dispensing
3. Grease dispensing
4. Engine tank dispensing
5. Potting for automotive sensors
6. Fire coil dispensing

APPLICATIONS IN OTHER INDUSTRIES



1. Test tube dispensing
2. Underfill dispensing
3. Semiconductor bonding
4. LED dispensing
5. Solder paste dispensing
6. Chip corner bonding
7. SMA

Bringing tomorrow's electronics to life

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