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
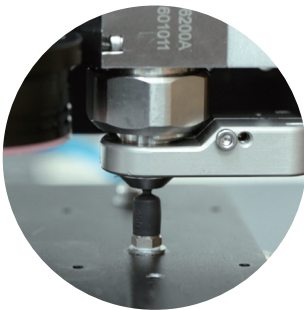- CCD barcode reader for program loading
- Nozzle cleaning
- IPC

Configurable options
- Low liquid level alarm
- Bent needle calibration

MYT50 tabletops
Capability and flexibility

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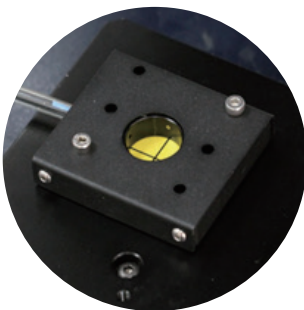- Suitable for MYT50 machine with jet valve

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

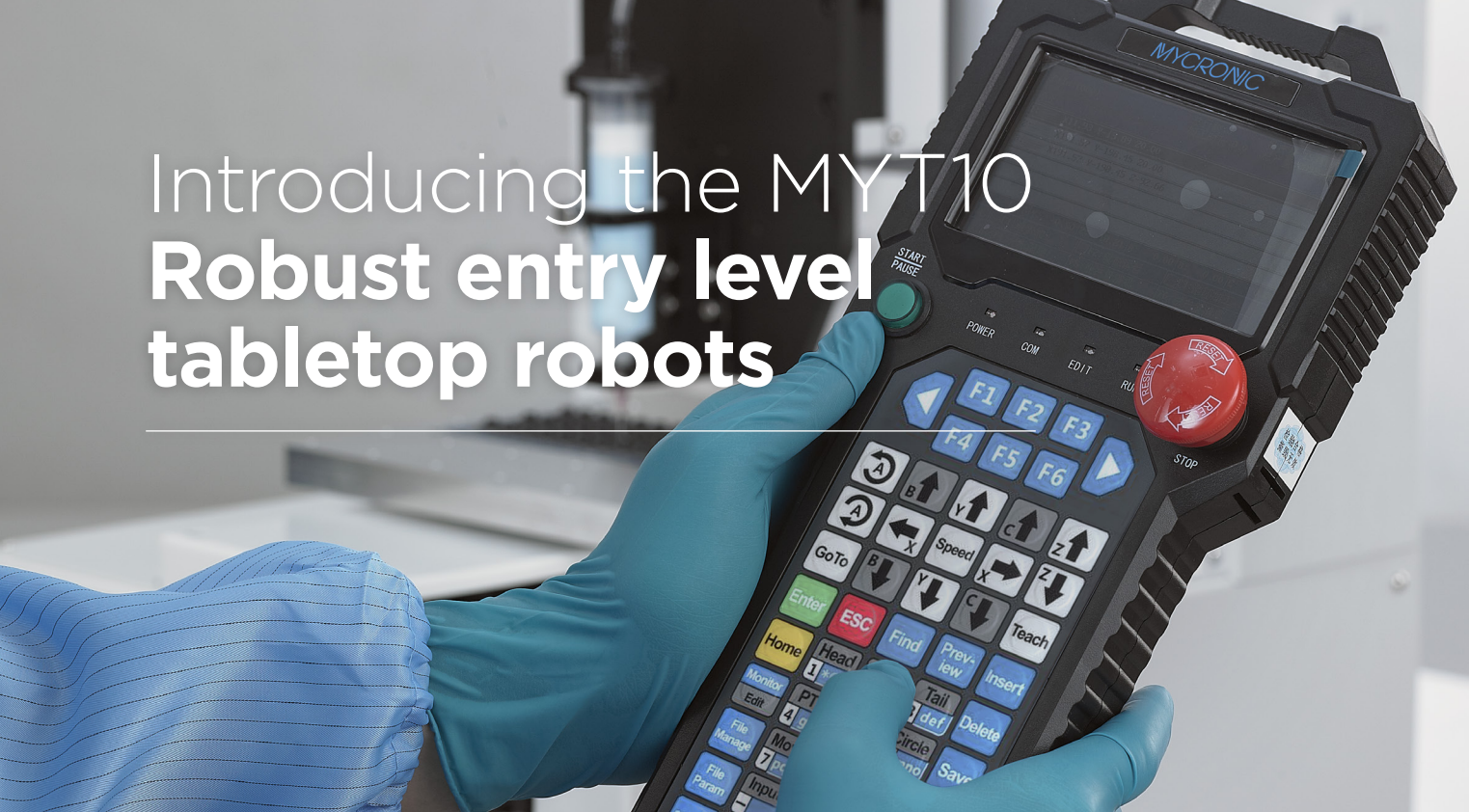### Low fluid level detection module (optional)
- Alert operator when new materials are needed
- Alarm when liquid level too low
- Prevents excessive air into adhesive

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-effcient 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**

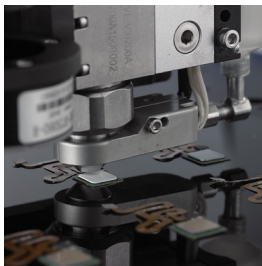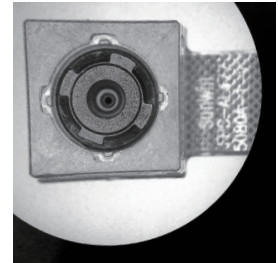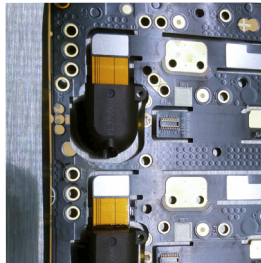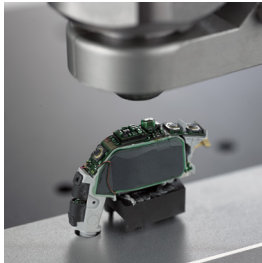|	MYT50S	MYT50M	MYT50L	MYT50 MD	MYT50 LD
Dimension (D x W x H)	606x741x638mm	706x841x638mm	806x941x638mm	706x841x638	806x941x638mm
Axis travel (X x Y x Z/ X x Y1 x Y2 x Z)	300x300x100mm	400x400x100mm	500x500x100mm	400x400x400 x100mm	500x500x500 x100mm
Dispense area (X x Y x Z)	260x260x100mm	360x360x100mm	460x460x100mm	360x360x100mm	460x460x100mm
Machine weight	104kg	126kg	143kg	136kg	114kg
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	10kg			10kg	
Z-axis work load	5kg			5kg	
Max speed	X: 800 Y: 800 Z: 300mm/s			X: 800 Y1: 800 Y2:800 Z: 300mm/s	
Acceleration	0.8g			0.8g	
Repeatability	±10 um			±10 um	
Memory capacity	256G			256G	
Power	650W, AC 220V, 50/60Hz, 10A			850W, AC 220V, 50Hz, 10A	
Visual system	Industrial CCD			Industrial CCD	
Resolution	0.01 x 0.01mm (adjustable)			0.01 x 0.01mm (adjustable)	
Field of View	14 x 14mm (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	

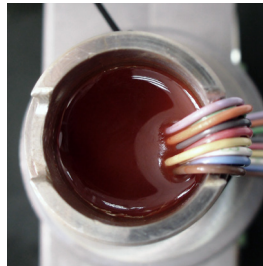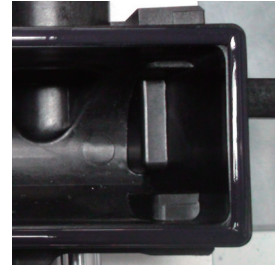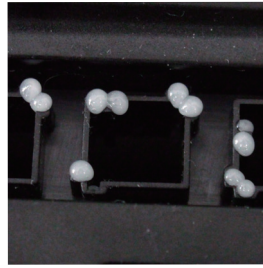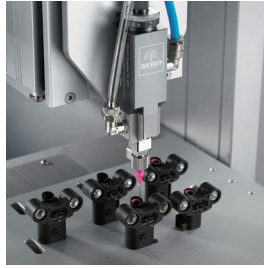|	MYT10S	MYT10M	MYT10L
Dimension (D x W x H)	606x741x638mm	706x841x638mm	806x941x638mm
Axis travel (X x Y x Z)	300x300x100mm	400x400x100mm	500x500x100mm
Dispense area (X x Y x Z)	300x300x100mm	400x400x100mm	500×500×100mm
Machine weight	103kg	125kg	142kg
Gantry type	H-Bridge		
System control	Independent motion controller		
Drive system	AC servo motor and precise ball screw		
Work load	10kg		
Z-axis work load	5kg		
Max speed	X: 800 Y: 800 Z: 300mm/s		
Acceleration	0.8g		
Repeatability	±10um		
Programming	Hand-held programmer		
Memory capacity	128M		
Power	600W, AC 220V, 50/60Hz, 10A		
I/O	8 input/8 output		
Certification	CE		

Tabletop robot **applications**
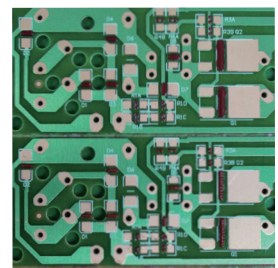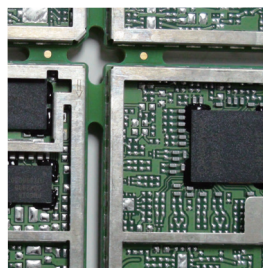
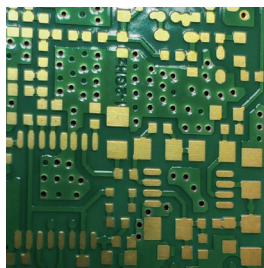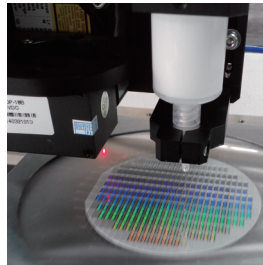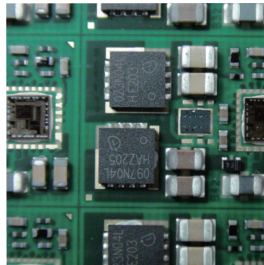**APPLICATIONS IN CONSUMER ELECTRONICS INDUSTRY**

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

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