



MYSmart™ series MYT10™/MYT50™ tabletop robots



Simple and smart
tabletop robots

MYCRONIC

When passion meets innovation ●

Introducing the MYT50

High-performance tabletop robots

The MYSmart MYT50 is designed to tackle complex electronic 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 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 APPLICATIONS

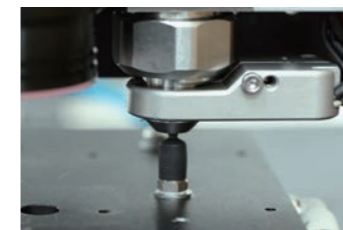
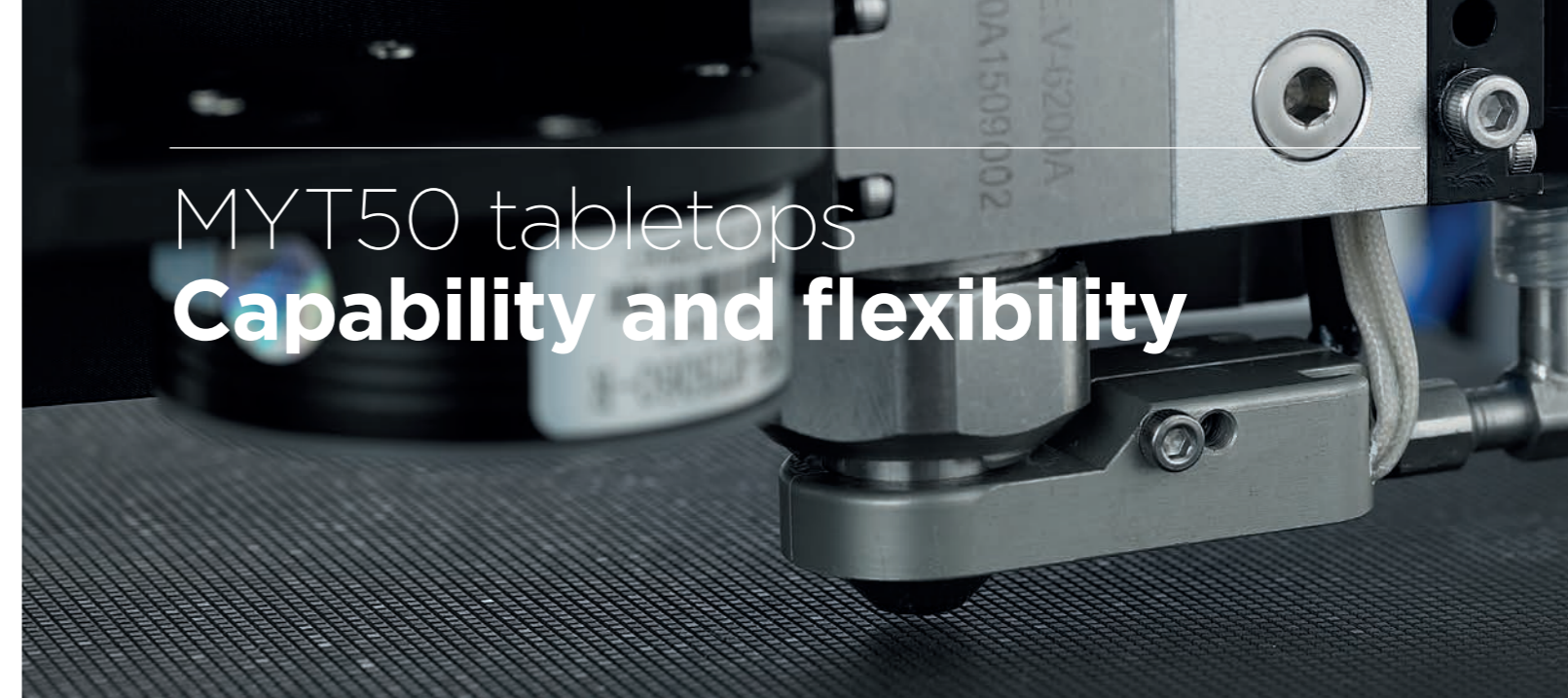
- Fingerprint module dispensing
- FPC dispensing
- VCM dispensing
- Underfill
- Encapsulation and coating
- Edge bonding and sealing
- Corner bonding
- Solder paste dispensing

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

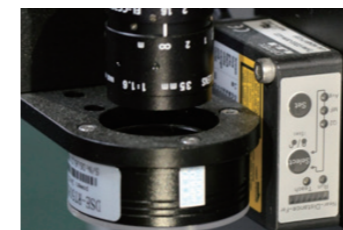
CONFIGURABLE OPTIONS

- Low liquid level alarm
- Bent needle calibration



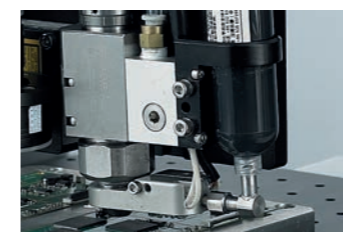
NOZZLE CLEANING

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



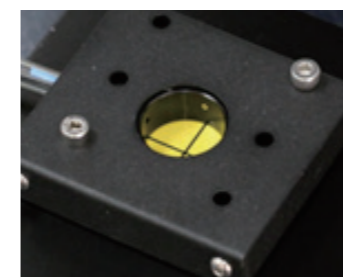
LASER HEIGHT DETECTION

- Auto detection of product height
- Automatic collision avoidance
- Suitable for MYT50 machine with jet valve



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
 - Reduces setup time
 - Simplifies setup process
 - Ensures repeatable setups
- Suitable for :
- Precise adhesive dispensing applications
 - Replacing needle and syringe frequently
 - Semi-automatic assembly line

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.

DESIGNED FOR ASSEMBLY

The semi-automated MYT10 series is well suited for cost-efficient handling of standard electronic and industrial packages, as well as testing, welding 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 APPLICATIONS

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

STANDARD CONFIGURATION

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



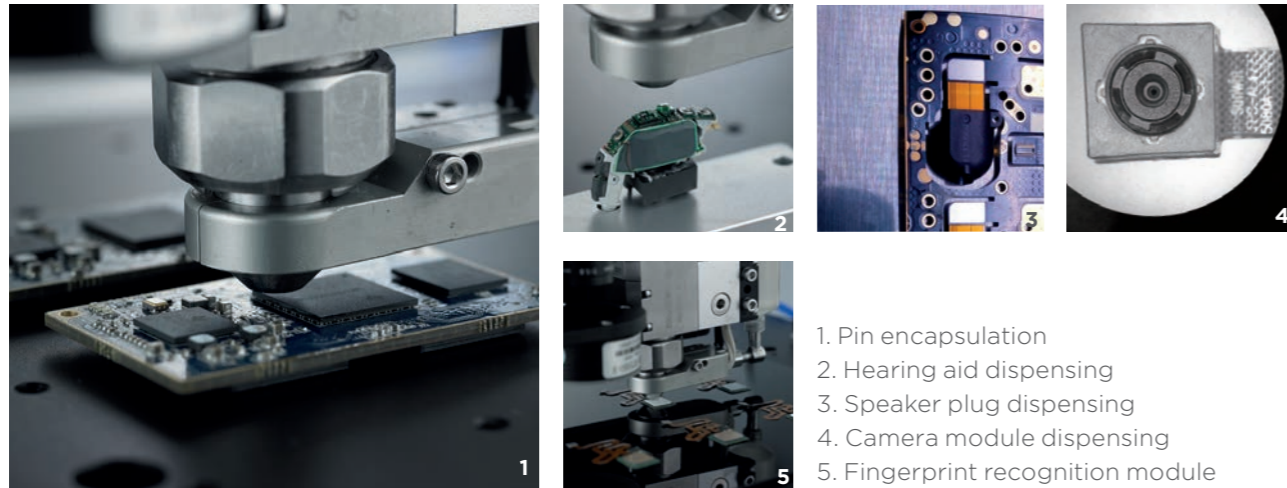
MYT50 series and MYT10 series specification

MODEL	MYT50S	MYT50M	MYT50L
Dimension: D x W x H	640 x 540 x 630 mm	740 x 640 x 630 mm	840 x 740 x 630 mm
Working area: X x Y x Z	300 x 300 x 100 mm	400 x 400 x 100 mm	500 x 500 x 100 mm
Machine weight	85 kg	91 kg	101 kg
Structure	H-bridge		
Control	Controller based on IPC		
Drive system	AC servo motor and precise ball screw		
Workpiece payload	15 kg		
Tool payload	7 kg		
Max working speed	X: 500 Y: 500 Z: 300 mm/s		
Acceleration	0.45 g		
Repeatability	+/- 10 um		
Programming	IPC and monitor		
Memory capacity	500 Gb		
Power	800 W		
Input power	AC 220 V 50/60 Hz 10 A		
I/O	8 input / 8 output		
Visual system	Industrial CCD		
Resolution	0.01 x 0.01 mm (adjustable)		
Field of view (voc)	7 x 9 mm (adjustable)		
Light source	LED		
Optional function	Fluid low level detection module, automatic needle calibration module		
Certification type	CE		

MODEL	MYT10S	MYT10L
Dimension: L x W x H	640 x 540 x 630 mm	840 x 740 x 630 mm
Working area: X x Y x Z	300 x 300 x 100 mm	500 x 500 x 100 mm
Machine weight	87 kg	105 kg
Structure	H-bridge	
Control	Independent motion controller	
Drive system	AC Servo motor and precise ball screw	
Workpiece payload	15 kg	
Tool payload	7 kg	
Max working speed	X: 500 Y: 500 Z: 300 mm/s	
Acceleration	0.45 g	
Repeatability	+/- 10um	
Programming	Hand-held programmer	
Memory capacity	144 Mb	
Power	600 W	
Input power	AC 220 V 50/60 Hz 10 A	
I/O	8 input / 8 output	
Certification type	CE	

Tabletop robots applications

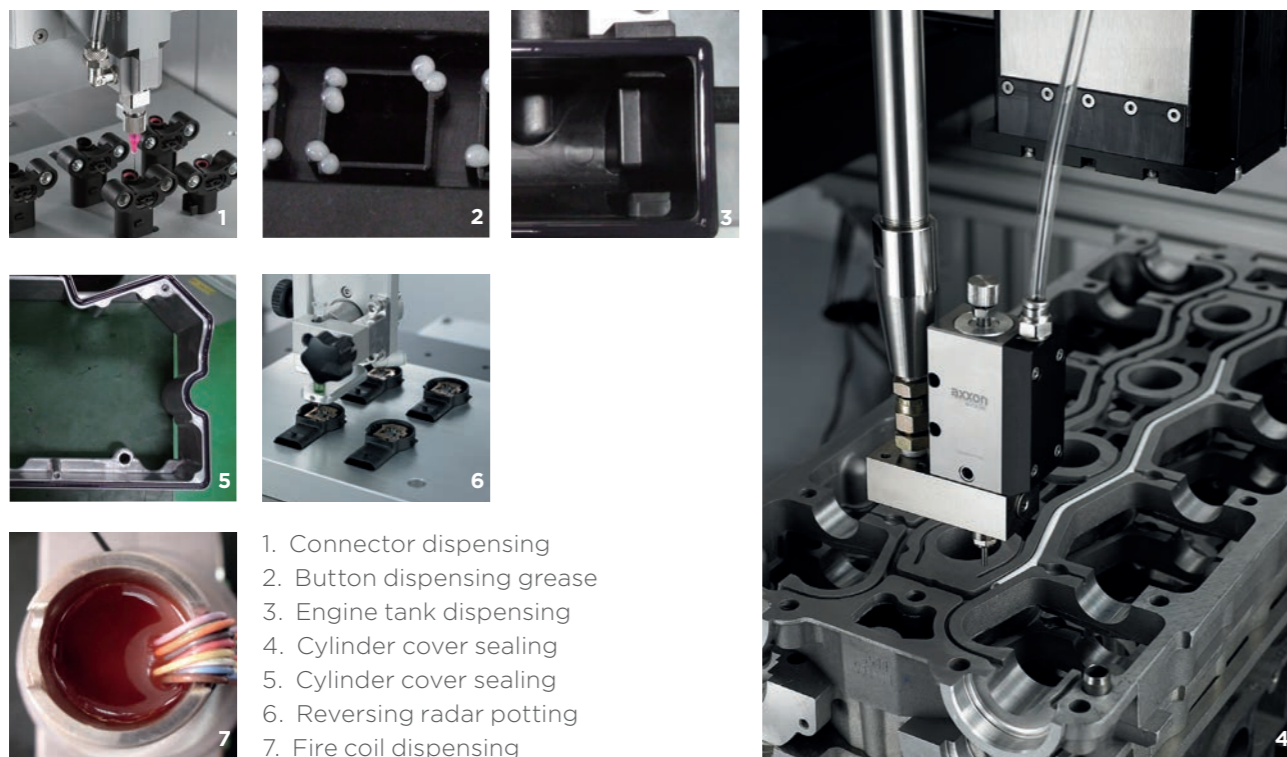
Applications in consumer electronics industry



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



Applications in automotive electronics



1. Connector dispensing
2. Button dispensing grease
3. Engine tank dispensing
4. Cylinder cover sealing
5. Cylinder cover sealing
6. Reversing radar potting
7. Fire coil dispensing

Applications in other industries



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

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