



TMT-R9800S

Soldering Robot

TSC Vietnam Solution
Your Manufacturing Test Partner

**ESD
SAFE**

**LEAD
FREE**

The Thermaltronics Robotic System incorporates innovative design concepts and precision components to ensure accuracy. The combination of high precision hardware and intelligent software ensures precision soldering and low operator training costs.

- ✓ Dual Arm, Six Axis Soldering Robot
- ✓ Intelligently compensates for PCBA variance
- ✓ Image Recognition & Mapping System
- ✓ Laser Height Measurement
- ✓ Uses Curie Heat Technology for precise temperature control

TMT-R9800S FEATURES

1. Unlike typical Cartesian robots the Thermaltronics TMT-R9800S Soldering Robot, is equipped with full vision (eyes) to verify the procedure being undertaken and does not simply follow a pre-determined program. The soldering robot has an observation mode, a verification mode and decision making capabilities (brain). This capability of collecting and utilizing data for production processing is one of the most important factors necessary to meet the requirements of Industry 4.0 standards.
2. Through the use of servo motors and precision ballscrews, the Thermaltronics Robot system is able to accurately meet the requirements of high speed operation, repeatability and durability.
3. Application programming is made simple by using full image-merging and mapping techniques.
4. Dynamic laser height measurement/adaptive control, ensures precision soldering repeatability.
5. A full vision mapping and matching system, provides for intelligent decision making during procedural operations.

TMT-R9800S SPECIFICATIONS

Input Line Voltage:	TMT-R9800PS-1	100-110 VAC
	TMT-R9800PS-2	220-240 VAC
Servo Motor Axis:	6 Axis	
Dynamic Range of Shaft:	X-Axis	200mm
	Y-Axis	200mm
	Z1, Z2 Axis	70mm
	Rotation Axis	360°
Shaft Speed:	X, Y, Z Axis	0.1mm - 300mm/sec
	Rotation Axis	0.1 - 450°/sec
Positioning Repeatability:	X, Y, Z Axis	±0.01mm
	Rotation Axis	±0.02°
Camera Resolution:	0.015mm	
Air Pressure:	Max. 6 Bar / 87 PSI	
Working / Vision Size:	200mm x 200mm	
Solder Wire Diameter Range:	0.3mm - 1.6mm	
Controller:	Industrial Computer	
Operating System:	Windows 7 Professional	
Soldering System:	TMT-9000S (40 Watts RF)	
Curie Heat Technology:	250°C - 500°C (382°F - 932°F)	
Power Consumption:	1 KVA	
Size (W x H x D):	800mm (H) x 702mm (D) x 620mm (W)	
Weight:	125 KG	

CERTIFICATION MARKS **CE**

PACKING LIST

TMT-R9800PS	Soldering Robot
R98-CTRL	Industrial Computer
R98-COVER	Safety Cover
TMT-9000S	Soldering System

