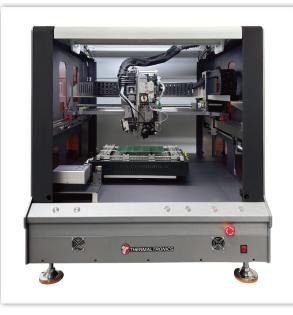
TMT-R90005 Precision Robot Soldering System



TMT-R90005 ESD LEAD FREE FREE

The Thermaltronics Robot 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, 6 Axis Soldering/Dispensing Platform
- Large Soldering Area
- Intelligently compensates for PCBA variance
- Full vision mapping & Fiducial Marks
- Laser Height Measurement
- Curie Heat Technology provides precise temp. control
- Fume extraction
- Flux & Solder Paste dispensing (Optional)
- Pre-heater (Optional)

TMT-R90005 FEATURES

1. Unlike typical Cartesian robots the Thermaltronics Robot, Model TMT-R9000S, is equipped with full vision, (eyes) to verify the procedure being undertaken and does not simply follow a pre-determined program. In this respect it has an observation mode, a verification mode and as a result – a decision making capability. (Basically a 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 Robotic system is able to accurately meet the requirements of high speed operation, repeatability and durability. The software is designed to transform system commands into functional operating procedures and with its 6-axis capability, 360° independent fixture rotation, solder tip and solder wire feeding operation from separate axis control, the applications extend beyond conventional soldering and dispensing operations.

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 system with fiducial marks, provides for intelligent decision making during procedural operations

THERMALTRONICS

SPEED – QUALITY – COST REDUCTION – INCREASED PRODUCTIVITY



TMT-R9000S SPECIFICATIONS

TMT-R9000PS-1	100-110 VAC			
TMT-R9000PS-2	220-240 VAC			
6 Axis				
600mm x 500mm				
670mm diameter with rotation				
560mm x 430mm without PCB rotation				
436mm diameter with PCB rotation				
X Axis	600mm Standard			
Y Axis	500mm Standard			
Z1, Z2 Axis	100mm			
R Axis	360°			
X, Y & Z Axis	0.1 ~ 300 mm/sec			
R Axis	0.1 ~ 450°/sec			
X, Y & Z Axis	±0.01 mm			
R Axis	±0.02°			
0.015mm				
Max. 6 Bar/ 87 psi				
0.4mm - 1.5mm (Optional: 0.3mm - 2.0mm)				
Industrial Computer w/Proprietary Software				
Windows 10 Professional				
120 watts (40 watts RF output)				
250°C - 500°C (382°F - 932°F) (Tip cartridge pre-defined)				
100 ~ 240V AC				
1.2 KVA				
1050 mm (H) x 1200mm (D) x 920mm (W)				
300 KG (660 LBS)				
	600mm x 500mm 670mm diameter 560mm x 430mm 436mm diameter X Axis Y Axis Z1, Z2 Axis R Axis X, Y & Z Axis R Axis X, Y & Z Axis R Axis 0.015mm Max. 6 Bar/ 87 ps 0.4mm - 1.5mm (0 Industrial Comput Windows 10 Profe 120 watts (40 wat 250°C - 500°C (38 100 ~ 240V AC 1.2 KVA 1050 mm (H) x 12			

SOFTWARE INTERFACE

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