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Thermaltronics Advances Industry Standards with Patented Innovations in the TMT-R9000S Solder Robot

GREAT NECK, NY — January 2025 — Thermaltronics USA, Inc., an award-winning manufacturer of precision soldering robots, has announced the filing of patents for its newly introduced TMT-R9000S Solder Robot. These patents encompass groundbreaking software developments and exceptional hardware design.

Michael Gouldsmith, Director of Thermaltronics, emphasized the significance of the TMT-R9000S's compliance with SMEMA Electronic Standards. "By adhering to these standards, the TMT-R9000S supports the addition of a remote robotic arm, enabling further automation and enhancing operational efficiency in soldering processes," Gouldsmith said.

A key feature of the TMT-R9000S is its integrated professional dispensing capability, which positions the system as a comprehensive "one-stop shop" for electronics manufacturing. Unlike traditional setups that require separate equipment for applications such as conformal coating, adhesive dispensing, potting compounds, or solder paste application, the TMT-R9000S's separate dispensing head can seamlessly execute these tasks. This integrated functionality enhances workflow efficiency and reduces equipment costs, solidifying the TMT-R9000S as an indispensable tool for PCB assembly.



Features of the TMT-R9000S

The TMT-R9000S is a compact, benchtop solder robot designed for precision and versatility in electronics manufacturing. Key features include:

- **SMEMA Communication Ports:** Enables seamless integration with robotic arm systems for enhanced automation.
- **XYZ 3D Soldering and Dispensing Capabilities:** Ensures unparalleled accuracy and consistency in complex operations.
- **Flexible Voltage Options:** Available in TMT-R9000PS-1 (100-110 VAC) and TMT-R9000PS-2 (220-240 VAC) configurations to meet diverse manufacturing requirements.
- **Large Soldering Area:** A 12" (308mm) x 12" (308mm) soldering area, supporting PCBs up to 17" (450mm) x 17" (450mm).

- **6-Axis Servo Motor Control:** Provides unmatched precision and adaptability in soldering tasks.

Building on the success of previous models, including the TMT-R8000S, TMT-R9800S, and TMT-R9900S, the TMT-R9000S offers a larger soldering area and the ability to perform 600mm circular soldering, catering to applications that require an expanded footprint. This advancement ensures the system is capable of meeting the demands of today's rapidly evolving electronics manufacturing landscape.

By combining dispensing and soldering capabilities in a single platform, the TMT-R9000S sets a new standard for efficiency and innovation in PCB assembly. Dispensing, a critical step in the manufacturing process, is now streamlined, enabling manufacturers to achieve higher productivity and superior quality outcomes.

For more information about the TMT-R9000S Solder Robot, please contact info@thermaltronics.com or visit www.thermaltronics.com.

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About Thermaltronics USA, Inc.

Thermaltronics is a manufacturer and supplier of a wide range of soldering products and accessories used in the electronics manufacturing industry. Design and development is undertaken in the USA and Australia, with final production taking place in a customized manufacturing facility, incorporating specialized equipment and in accordance with recognized international standards of quality and compliance.

In addition to the modern factory, Thermaltronics maintains an office and warehouse in New York State, commercial offices in Hong Kong and a Distribution Sales Office in Perth Australia.

All Thermaltronics products are produced in accordance with ISO 9000 & ISO 14000 standards and meet either TUV, GS, CE or NRTL safety requirements. Strict quality control procedures are in place and product warranties are among the best in the industry. For more information, visit www.thermaltronics.com.