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Robotas to Return to the IPC APEX EXPO in 2025 to Showcase their Smart THT Assembly Solutions

HARROGATE, UK – December 2024 – Robotas Technologies Ltd., pioneers and specialists in the world of THT component placement and clinching systems, have announced plans to exhibit at the 2025 IPC APEX EXPO; scheduled to take place March 18th-20th, 2025 at the Anaheim Convention Center in LA, California. Robotas will be demonstrating its industry leading smart THT production technology in Booth #1711, including the Mascot Clinch SMEMA Conveyor System, intelligent Carousels and Dynamic Pick to Light (DPL) Arrays for component storage and ergonomic picking, and their Mascot VERIFY Module.

Robotas will be using the 2025 IPC APEX EXPO as a platform to showcase their 'Mascot VERIFY' Through-Hole Technology (THT) Inspection product. Mascot VERIFY is designed to uphold the standard of error-free PCB assembly pre-soldering, ensuring a seamless No Fault Forward process. The Verify Camera embedded in Mascot VERIFY plays a pivotal role in the quality assurance process. It guarantees, at the point of part placement by the operator, that each component is accurately positioned; checking for presence, absence and polarity. VERIFY enhances the reliability of the THT assembly process.



Robotas' Mascot systems automate and streamline PCB assembly via their laser guided component placement and visual work instructions. Mascot guides the operator through the complete build process, improving product quality, increasing throughput and virtually eliminating setup time and rework. Mascot systems are ESD safe, electronically height adjustable, and provide component storage and delivery via Carousels and DPL Arrays. Component storage is mounted on articulated arms for enhanced ergonomics.



If you are familiar with the aging Contact Systems Clinch Technology, then a show highlight will be the Mascot Clinch Conveyor System with IPC CFX compliance. It offers a much needed replacement for the CS400, CS600, CS900 family of products.

The Mascot Clinch Conveyor further optimises the THT assembly of a PCB by using a three stage ESD Safe Mascot SMEMA controlled motorised conveyor. The system also features Robotas' Clinch Technology which gives the ability to clinch over the leads of inserted components from the underside of the PCB, holding them in place and preventing components from falling off or moving around in a wave solder machine for example.

Robotas' Mascot Software allows users to easily create, edit and sequence assembly programs from existing Contacts Systems Data, PCB CAD or Gerber data. Mascot Programmes can be produced offline without needing to access the hardware, improving efficiency as operators will remain building products on the shop floor, whilst new programmes are being generated.

Be sure to visit Robotas' Booth #1711 to see all of this THT optimization technology in action!

Partnering with Robotas at the IPC APEX EXPO, Swiss manufacturer POLYVER will be presenting their NCG3-Cutter. The NCG3 is a fully automatic component processing machine for cutting, bending and crimping of taped and loose axial components. POLYVER machines process THT components in an accuracy of 0.1mm, 100% stress free. POLYVER manufactures precision processing machines for radial and axial THT components.

The ultimate goal for Robotas Technologies is to deliver smart technology into the hands of production staff. The Robotas team work with their customers to organize and optimize factory-wide manual assembly processes. Robotas delivers a total end-to-end solution for hand assembly. To learn more, please visit www.robotas.com.

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About Robotas Technologies Ltd

A family owned business, Robotas Technologies has been a leader in the field of optimizing hand assembly for customers all over the world for the past 35 years.

Robotas systems are modular, versatile, dependable and always affordable. For most clients, payback is measured in months. After that, productivity simply equates to profitability. For more information, visit www.robotas.com.