



For Immediate Release

Contact:

J.D. Buller

Regional Sales Manager

Phone +1 (630)-768-3154

jd.buller@air-vac-eng.com

air-vac-eng.com

Air-Vac Engineering to Show New Large Component Rework and Repair System

Seymour, CT - October 2026 - Air-Vac Engineering will feature the AVX1200, a large-component SMT rework and repair system, at SMTA International 2026, October 27-29 at the Donald E. Stephens Convention Center in Rosemont, Illinois, Booth #3041. The AVX1200 was developed to address the increasing size, complexity, and thermal demands of advanced electronic assemblies. The system supports component sizes from 01005 up to 180 mm x 180 mm and board sizes up to 24" x 24", extending automated rework capability to large, high-value assemblies.

The AVX1200 combines motorized X, Y, Z, and Theta motion with closed-loop programmable automation to reduce operator dependency and improve process repeatability. Its dual-camera vision system with optical and digital zoom, multiple field-of-view alignment, fiducial recognition, and on-machine board image scanning enables fast, precise auto vision alignment and repeatable site identification. The system can automatically process multiple boards in a production pallet configuration for higher-density throughput and efficient execution across single or multiple rework sites in one run.

For precise component handling, the AVX1200 uses high-speed force feedback with gram-force sensitivity and vacuum sensor control for gentle automatic removal and placement. Automatic non-contact site cleaning improves consistency by accurately monitoring tip height while reducing pad and solder mask damage associated with contact-based methods. The scanned board image and component location programming also support confirmation of correct site execution and missing-component error detection during automated processing.

Thermal performance is driven by a 2000 watt upper heater, a 7500 watt three-zone radiant IR bottom heater, a 3500 watt spot heater with compliant Air-Well technology, programmable preheat, auto profiling software, and closed-loop mass flow control for precise heat delivery.