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Smarter Inspection, One Line: PEMTRON to Highlight Connected, AI-Driven Solutions at SMTA Juárez

May 2026 — PEMTRON, an inspection equipment developer and supplier, will exhibit at the SMTA Ciudad Juárez Expo & Tech Forum on May 21 at the Injelectronics Convention Center, where the company will highlight its inspection platforms

At this year's event, PEMTRON will highlight how its inspection systems are moving beyond traditional defect detection by combining high-resolution 3D imaging, AI-driven analytics, and real-time data connectivity across the production line. The company's featured lineup includes SATURN, ATHENA, TWIN, TROI 8800 CI, and JUPITER, each developed to address specific challenges in SMT and advanced packaging applications.

From solder paste inspection through final assembly and coating validation, PEMTRON's systems are built to provide faster feedback, improved accuracy, and more consistent results directly on the factory floor.

Featured Systems on Display

ATHENA – AI-Driven 3D AOI

ATHENA combines high-precision 3D measurement with AI-based defect classification, automated teaching, and OCR functionality. Its 12-way projection system minimizes shadowing, enabling accurate inspection across complex assemblies. With multiple resolution options and a modular design, ATHENA offers flexibility for a wide range of production requirements.

JUPITER – 3D AXI Platform

JUPITER integrates 2D and 3D X-ray imaging using PCT-based processing to analyze internal defects that are not visible through optical inspection. The system works alongside SPI and AOI platforms to support shared data and real-time process feedback, helping



manufacturers better understand and control their production processes.

TWIN – Dual-Side 3D AOI

TWIN enables simultaneous inspection of both sides of a PCB in a single pass. By eliminating the need to flip boards, the system reduces cycle time while maintaining high inspection accuracy—especially beneficial for dense, double-sided assemblies.

SATURN – 3D Solder Paste Inspection

SATURN delivers detailed solder paste measurement using quad Moiré projection and high-resolution imaging. The system captures volume, height, and area data to support tighter process control and improved yield performance.

TROI 8800 CI – Conformal Coating Inspection

The TROI 8800 CI system uses advanced optics and AI-based defect recognition to identify coating issues such as voids, bubbles, and inconsistent coverage. Optional inline thickness measurement further supports process validation for high-reliability applications.

Supporting Smarter Manufacturing

Across its portfolio, PEMTRON focuses on connecting inspection data across SPI, AOI, AXI, and coating processes—giving manufacturers clearer insight into trends, faster decision-making, and better overall process control.

Attendees are invited to visit PEMTRON at the SMTA Ciudad Juárez Expo to learn more about how these systems can support their inspection and quality objectives.

For more information about PEMTRON, please visit www.pemtron.com.

About PEMTRON

Based on 3D precision measurement and vision source technology, PEMTRON develops equipment used in various fields such as SMT, Automotive Field, Lead Tab, Semiconductor, and supplies Soldering Inspection equipment (3D SPI), 3D Mounting Inspection equipment (3D AOI, MOI), Conformal Coating Inspection equipment (TROI-8800 CI), Bottom Head Inspection equipment (Eagle 8800TH), Top & Bottom Double Sided Simultaneous Inspection equipment (Eagle 8800TWIN), Automated X-Ray SMD Counter (MERCURY), Wafer Sawing Before/After 3D Inspection equipment (8800 WI/WIR), Wire Bonding 3D Inspection & MEMS Auto Inspection equipment (ZEUS), Package AVI equipment (APOLLON), Memory Module / SSD Auto Inspection equipment (MARS), FC-BGA, FCP-CSP Inspection equipment (POSEIDON-S), Scale Sorter Of FC-BGA Products (8800 FI), Bump Metal Mask Inspection equipment (8800 MI), PCB Appearance Inspection equipment (8800 AI) and Lead Tab Process/Inspection equipment (Hawk 7300).