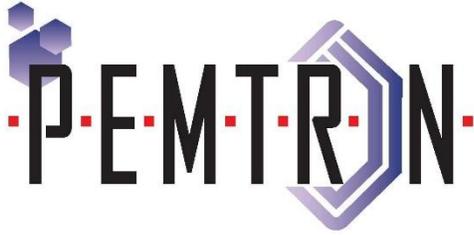


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PEMTRON's EAGLE 3D 8800 TWIN DL Wins 2026 NPI Award for Dual-Lane, Simultaneous Double-Sided 3D AOI Innovation

March 2026 — PEMTRON, an inspection equipment developer and supplier, today announced that its EAGLE 3D 8800 TWIN DL has been honored with a 2026 New Product Introduction (NPI) Award in the Inspection – AOI category. As the world's first dual-lane, true simultaneous double-sided 3D automated optical inspection (AOI) system in a single inline platform, the EAGLE 3D 8800 TWIN DL represents a significant advancement in inspection technology—delivering higher throughput, greater flexibility, and reliable defect detection.



The EAGLE 3D 8800 TWIN DL extends PEMTRON's proven TWIN platform by combining dual-lane inspection with true simultaneous top-and-bottom 3D automated optical inspection (AOI) in a single inline system. Featuring a dual-head architecture dedicated to top and bottom inspection, the system performs parallel inspection across two lanes—eliminating board flipping and secondary handling. This design significantly increases inspection capacity while maintaining consistent inspection conditions for both sides of the assembly.

At the core of the system is PEMTRON's upgraded 3D inspection head, which produces stable, highly realistic 3D images built on decades of optical engineering and algorithm development.

The result is enhanced defect detection accuracy across increasingly complex assemblies, supporting manufacturers as product designs grow more sophisticated.

Designed for seamless deployment in SMT, wave soldering, and selective soldering lines, the TWIN DL supports multiple inspection configurations—including AOI+AOI, AOI+THT, THT+AOI, and THT+THT—allowing manufacturers to tailor inspection strategies without reconfiguring production lines. SMEMA compliance ensures straightforward inline integration with existing equipment, while PEMTRON's built-in library management and offline real-time debug station streamline program development and validation.

Presented by *CIRCUITS ASSEMBLY*, the NPI Awards recognize the most innovative products introduced to the electronics assembly industry over the past year. Winners are selected by an independent panel of practicing engineers who evaluate equipment based on innovation, functionality, and impact on manufacturing performance.

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).