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Absolute EMS Expands Advanced Assembly Capabilities with SASinno Americas PF-6T High-Precision Connector Press-Fit System

SANTA CLARA, CA — May 2026 — Absolute EMS, Inc., a Silicon Valley–based provider of high-technology electronics manufacturing services, has expanded its advanced assembly capabilities with the addition of the SASinno Americas PF-6T high-precision connector press-fitting system. The new equipment introduces a tightly controlled, solder-free connector insertion process that enhances reliability, repeatability, and traceability for complex electronic assemblies.



For Absolute EMS customers, the new capability means improved connector reliability, reduced risk of heat-related board damage, greater process documentation, and more consistent assembly outcomes. The system also shortens installation time while reducing the likelihood of rework caused by improper insertion force or misalignment.

The PF-6T is designed for high-precision connector press-fitting applications and supports demanding products that require stable mechanical and electrical performance. By using press-fit technology to insert fisheye pin connectors directly into printed circuit boards, the system eliminates the thermal shock stress associated with traditional soldering. This approach avoids solder residue and protrusions while delivering reliable contact impedance and strong high-frequency characteristics—benefits that are increasingly important in advanced industrial, automotive, and high-performance electronic applications.

The system operates on a servo-driven, closed-loop control platform that monitors both force and displacement in real time. With positioning precision of ± 0.02 mm and pressure accuracy

within ± 1 percent, the PF-6T provides consistent, documented insertion results across production runs. Real-time pressure and displacement curve monitoring, along with integrated SPC data tracking, gives Absolute EMS and its customers full visibility into the press-fitting process.

The system accommodates PCB sizes up to 580 mm by 900 mm and allows programmable control of insertion position, speed, pressure, and stroke profiles. This flexibility supports rapid product introduction as well as high-mix and scalable production programs.

Founded in 1996, Absolute EMS operates a state-of-the-art manufacturing facility in the heart of Silicon Valley. The company specializes in controlled, repeatable manufacturing processes designed to support miniaturization, rapid product introduction, and scalable production—helping customers navigate onshoring initiatives and increasingly complex supply chain requirements.

For more information about Absolute EMS, visit www.absolute-ems.com.

About Absolute EMS

Absolute EMS, located in the heart of Silicon Valley, offers 6-time award-winning manufacturing services in a state-of-the-art, high-technology EMS facility. The company won Global Technology Awards in 2020, 2021 and 2024 for its manufacturing services and was awarded 'Most Improved Smart Factory' by the Global Technology Awards in 2021. Founded in 1996, Absolute EMS originally serviced the medical industry, thus their focus on controlled electronics manufacturing that is scalable and repeatable. The Absolute EMS focused verticals are Medical, Military, Industrial, Networking, Aerospace, high performance computing, AI and Engineering. Learn more by visiting <http://www.absolute-ems.com>.