Nordson Electronics Solutions

News Release

FOR RELEASE: Immediately

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Nordson Electronics Solutions wins the 2026 Global Technology Award for their MARCH ExoSPHERE plasma treatment system

- Designed for panel-level packaging applications, the ExoSPHERE system prepares surfaces to improve adhesion, manufacturing yields, and device reliability

High resolution image available at: https://nordson.pub/PRawardExoS

Carlsbad, CA, USA – 9 November 2026 – Nordson Electronics Solutions, a global leader in reliable electronics manufacturing technologies, was honored to accept the 2026 Global Technology Award in the Plasma Systems category for their new, MARCH ExoSPHERE plasma treatment system.

Innovative plasma treatment platform for panel-level packaging

The MARCH ExoSPHERE system applies plasma treatment to clean and enhance surfaces for adhesion to improve reliability and yields. The system is designed for panel-level packaging (PLP), an emerging technique fulfilling demands for next-generation AI and HPC semiconductor manufacturing. The ExoSPHERE system enables void-free underfilling and increased wicking speeds while improving yields with reduced rework and rejected parts. Its industry-leading plasma uniformity and process repeatability effectively remove contaminants while enhancing surface energy, resulting in improved resist wettability, stronger die attach and wire bond integrity, and more robust package performance.

Key features of the MARCH ExoSPHERE™ plasma system

- Patented three-axis symmetrical chamber ensures consistent, uniform plasma treatment on panels up to 650x650mm.
- Integrated handlers accommodate panels, wafers, and carriers, adapting for warpage. Software-controlled change-over minimizes transition time to different panel or wafer sizes.
- ExoSPHERE's SMART Tune™ Management System delivers closed-loop plasma control, optimizing the RF system, reducing tuning time. Automatically resets to plasma-ready state, adjusting for variations in vacuum pressure, temperature, and lot sizes.

- The system achieves maximum power in seconds, using proprietary algorithms that continuously measure both forward and reflective power inside the plasma chamber. The compact chamber volume with process control ensures short cycle times, reduces electricity demand.

Plasma treatment for a range of advanced packaging

"This award reflects the industry's need for plasma treatment solutions in PLP packaging that support increasingly complex advanced packaging applications," said Johnson He, senior principal product line manager. "ExoSPHERE was designed to help customers improve process consistency, package reliability, and overall manufacturing efficiency."

For this award, the MARCH ExoSPHERE plasma system was judged in seven criteria: innovation, throughput improvements, quality contributions, cost benefits, environmental considerations, ease of use, and maintainability.

The GLOBAL Technology Awards have recognized the very best new innovations in the printed circuit assembly and packaging industries since 2005. The awards ceremony was held at SMTA International, October 27, 2026 in the Rosemont Exhibition Center, in Rosemont, Illinois, USA.



Image CAPTION: Nordson Electronics Solutions was honored to accept the 2026 Global Technology Award in the Plasma Systems category for their new, MARCH ExoSPHERE plasma treatment system. Jeanine Norlin, senior manager, marketing, Nordson Electronics Solutions, accepted the award from Trevor Galbraith, editor-in-chief, Global SMT & Packaging publications. The MARCH ExoSPHERE system applies plasma treatment to clean and enhance surfaces for adhesion, improving reliability and yields during packaging. The system is designed for panel-level packaging (PLP), an emerging technique fulfilling demands for next-generation AI and HPC semiconductor manufacturing.

Image ALT TEXT: Two smiling people holding an award statue, with an industrial machine on the right, over an abstract background. The text overlay says, Nordson Electronics Solutions, and Global Technology Award Winner.

About Nordson Electronics Solutions

Nordson Electronics Solutions makes reliable electronics a reality. Through our ASYMTEK, MARCH, and SELECT brands, we supply the world's semiconductor, electronics, and precision assembly manufacturers with the innovative fluid dispensing, conformal coating, plasma treatment, and selective soldering solutions their products need to protect sensitive electronics and deliver a lifespan of reliability. Day after day, year after year, across the globe, for over 40 years, we've provided engineering and applications excellence to help our customers succeed.

About Nordson Corporation

Nordson Corporation (NASDAQ: NDSN) is an innovative precision technology company that leverages a scalable growth framework through an entrepreneurial, division-led organization to deliver top tier growth with leading margins and returns. The Company's direct sales model and applications expertise serves global customers through a wide variety of critical applications. Its diverse end-market exposure includes consumer non-durable, medical, electronics and industrial end markets. Founded in 1954 and headquartered in Westlake, Ohio, the Company has operations and support offices in over 35 countries. Visit Nordson on the web at www.nordson.com.

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