



Nordson Test & Inspection Launches Advanced Inspection and Metrology Solutions at Productronica & SEMICON Europa 2025

Minneapolis, Minnesota — October, 2025 — [Nordson TEST & INSPECTION](#) today announced plans to exhibit with distributor partners at Productronica and SEMICON Europa, scheduled to take place November 18-21 at the Messe Munchen in Munich, Germany. Visitors to SmartTec's booths #A2.540, A2.537 and HTT's booth # B1.102 will have the opportunity to see demonstrations of Nordson's WaferSense® semiconductor sensors, SQ5000™Pro Multi-Function system for AOI, SPI and CMM, Quadra Pro™ Manual X-Ray system (MXI), Gen 7™ Acoustic Micro Imaging (AMI) system and X3 Automated X-Ray (AXI) system with Dynamic Planar CT.

Nordson will be unveiling for the first time in the Europe, the [Auto Centering System™](#) (ACS), which is an extension of the wireless, [WaferSense®](#) sensor portfolio designed for capturing and analyzing real-time data for effective semiconductor tool set-up and maintenance. The wafer-shaped ACS "sees" inside equipment to capture dimensional offset data (x,y and z) with Nordson Spectrum, to quickly center wafer transfer positions. The recently launched next-generation Auto Gapping Sensor™ ([AGS2](#)) will also be demonstrated. The AGS2 speeds non-contact gap measurements and parallelism adjustments under vacuum, improving uniformity, tool availability and repeatability in a thinner and lighter form factor.



For the first time globally, Nordson will be launching and demonstrating the [SQ5000Pro Multi-Function](#) system for AOI, SPI and CMM. The system provides superior performance for inspecting defects, and measuring critical parameters in-line, in just seconds, with a comprehensive coordinate measurement software suite. This cutting-edge technology enables highly accurate, and faster inspection and metrology, powered by two new 500 series Multi-Reflection Suppression® (MRS®) HR and HS sensor options that eliminate reflection-based distortions common with shiny and specular surfaces. SQ5000Pro is ideally suited for advanced packaging, advanced SMT, 0201 metric, socket metrology and other applications where an even greater degree of accuracy and inspection reliability is critical. The system is enhanced by AutoProgram™ that significantly accelerates set-up and minimizes operator interaction – an advanced AI capability within the Nordson Intelligence ecosystem.



The new SQ3000S Multi-Function system will also be demonstrated at the show.

Setting a new industry benchmark for 3D/2D manual inspection in back-end semiconductor applications, the [Quadra 7 Pro MXI](#) system revolutionizes the inspection experience with its Onyx® detector

technology. This advancement ensures exceptional image clarity and elevated levels of precision and efficiency. The Dual Mode Quadra NT4® tube provides unprecedented flexibility. This innovative technology offers both brightness and resolution modes, enabling operators to seamlessly transition between them according to specific application requirements. This ensures optimal results for a wide range of semiconductor inspection needs.

[Dynamic Planar CT™](#) is the next-generation of 3D Planar X-Ray inspection software for Nordson's Automated X-Ray Inspection (AXI) systems that reveals incredible details, superior data quality, and clear layer separation, powered by a new 3D reconstruction algorithm. Dynamic Planar CT is ideal for any 3D electronics inspection application, but excels in the semiconductor market for inspection of flip chip micro bumps. Dynamic Planar CT will be demonstrated on Nordson's [XS-3 AXI](#) system. The performance is significantly advanced providing a larger field of view and up to 2× faster image acquisition than classical Planar CT. These speed enhancements yield faster cycle times and greater throughput, while also crucially reducing sample radiation dose.



The Gen7 AMI system powered by C-SAM technology, provides fast and highly accurate inspection for detecting delamination and voiding with the most sophisticated microscope. Ideal for lab analysis and specialized high-resolution applications.

Advanced ML, DL and AI

Nordson Test & Inspection is at the forefront, advancing Machine Learning (ML), Deep Learning (DL) and Artificial Intelligence (AI) all under the [Nordson Intelligence](#) ecosystem. The latest advancement in the ecosystem is Nordson Sight, a complete SPC solution offering full-fledged machine-level to factory-level SPC capability, historical analysis and reporting tools across technology platforms. [Nordson Sight](#) provides complete traceability for effective process verification and control, to improve yields and processes. Effectively monitor how well manufacturing processes are running with comprehensive yield analysis charts, coupled with defect analysis tools that enable quick diagnostics and corrective action.

Additional inspection and metrology systems & software ideally suited for semiconductor and SMT applications:

Mid-End Semiconductor Solutions

The [SpinSAM™](#) Acoustic Micro Imaging Inspection (AMI) system sets a new benchmark in the industry with its high throughput and superior sensitivity, enabling precise defect detection for Wafer-Level and Advanced Packaging applications including bonded wafers, Chip-on-Wafer, stacked wafers, MEMS, and over-molded wafers. Using an innovative spin-scanning method, the system scans up to four 300mm wafers simultaneously, achieving an impressive speed of 41 wafers per hour. This breakthrough scanning capability, combined with best-in-class defect capture and image quality, enhances both productivity and accuracy in semiconductor inspection. It is Designed for 100% inspection, as well as edge scanning that targets defect prone areas, optimizing data acquisition where it is needed most.



The [XM8000™](#) Automated X-Ray Metrology (AXM) system is powered by the QuadraNT tube and detector capable of 2D, 2.5D and 3D measurements of micron scale features with superior resolution. The system is designed for high-throughput metrology and defect review for optically hidden features, including voiding, fill levels, overlay and critical dimensions in Wafer-Level, Panel-Level and Advanced Packaging applications such as CoWoS, TSVs, 2.5 and 3D IC packaging and wafer bumps.



The [4800 INTEGRA Plus](#) is the next generation automated bond test solution designed to meet the dynamic wafer-level packing environment. With its new motion, vision, and wafer handling system complemented by the high-throughput Paragon software, the system offers best-in-class micro bump and trace bond testing on chip-on-wafer, stacked wafer, and molded wafer applications. The system demonstrates unmatched precision, hands-free, and fully traceable bond testing capability for both 200 and 300mm wafers enabled by a smart load port and wafer chuck, and Matrix Map software.



Back-End Semiconductor Solutions

The advanced [SQ7000™+](#) Multi-Function system for AOI, SPI and CMM is designed to address next-generation applications such as advanced packaging, socket metrology, and memory among other high-end applications. This superior performing technology enables highly accurate, high-speed inspection and metrology, with an even higher resolution MRS sensor that eliminates reflection-based distortions common with shiny and specular surfaces.



The [SQ3000™M2](#) Inspection and Metrology system, designed for micro-electronics applications including wire bonds, provides superior performance with unparalleled accuracy and resolution. Powered by Focus Variation Metrology (FVM) technology and high resolution telecentric optics, the system provides exceptional defect coverage and metrology capabilities.

Visit Nordson Test & Inspection to experience the future of inspection and metrology technology for SMT and semiconductor applications that improves yields, processes, throughput and productivity.

About Nordson TEST & INSPECTION

[Nordson TEST & INSPECTION](#) offers its SMT & Semiconductor customers a robust product portfolio, including Acoustic, Optical and both Manual and Automated X-ray Inspection systems, X-ray Component Counting systems and Semiconductor measurement sensors. Nordson TEST & INSPECTION is uniquely positioned to serve its customers with best-in-class precision technologies, passionate sales and support teams, global reach, and unmatched consultative applications expertise.

About Nordson

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 at www.Nordson.Com or linkedin/Nordson.