

News Release

Yamaha Reveals Pace-Setting Innovation for Advanced Electronics Assembly at Productronica 2017

Visitors from across the globe seek competitive strength in next-generation technologies

Yamaha Motor Europe IM Division has presented advanced solutions to manufacturers' current and future electronic-assembly challenges at Productronica 2017, witnessed by visitors from the world's leading high-tech businesses.

Yamaha, whose Total Line Solution concept streamlines and interconnects all stages of surface-mount assembly, attracted visitors from more than 40 different countries across four continents to see the latest in printing, high-speed mounting, high-resolution optical inspection, 3D assembly, and inline robotics for industry-leading quality, productivity and capability.



Yamaha at Productronica Show 2017

“Productronica 2017 has been extremely positive, showing a resurgence of confidence among high-tech manufacturers,” summarized Ichiro Arimoto, General Manager, Yamaha Motor Europe N.V., European Branch Office, IM Business, “We received intense interest in solutions to future challenges, like 3D-MID assembly, and in the M2M features of our Factory Tools 4.0 software for smart manufacturing. This year, there were more visitors from more countries, with many outside Europe including the Americas and South East Asia. Clearly, Productronica continues to grow in its international stature.”

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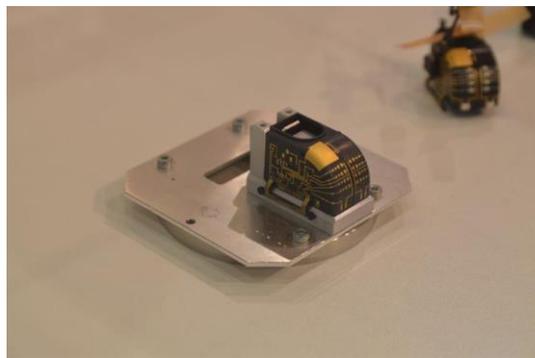
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Latest Technologies

By demonstrating its 3D-MID solution placing SMD components on three-dimensional substrates (Molded Interconnect Devices), Yamaha showed it is ready for the coming demands of electronics manufacturers to build extremely space-constrained products. The 3D-MID is hosted on the iPulse hybrid mounter, which also performs conventional SMD placement, delivering a space-efficient solution that makes 3D assembly cost-effective even for low-volume work like prototyping or small batches.

Continuing to set the pace in advanced, high-speed optical inspection, Yamaha also unveiled its new and powerful 3D camera with 7-micron resolution. Such microscopic inspection is essential for assessing solder joints of the tiniest chip components such as 01005 devices, which are now being adopted in space-constrained applications like Package-in-package assembly. At just 100-micron long and 50-micron wide, such components demand the most advanced camera resolution to verify acceptable height and slope of the solder fillets at each terminal.



Yamaha demonstrated advanced assembly on 3D-MID at Productronica 2017.

Tools for Smart Manufacturing

Highlighting the critical role of powerful software, to assist programming, setup and management/monitoring, the latest Yamaha Factory Tools 4.0 suite provides real-time performance and feeder-status monitoring, M2M capabilities that deliver production data directly to the line supervisor's mobile anywhere in the factory, and database-driven traceability and statistical process control (SPC). In total, Factory Tools 4.0 contains over 20 applications covering setup, programming, monitoring, and traceability down to component and nozzle level. Flexible choices allow manufacturing managers to configure software tools to meet their needs; these can range from optimizing a single line or coordinating with automated component towers, to streamlining changeovers, simplifying feeder management, managing production on multiple lines, complying with quality demands from markets like automotive or aerospace, quickly fixing causes of stoppages or inspection failures, or using predictive maintenance to maximize uptime and utilization.

Solutions for Efficient, High-Speed Assembly

As promised ahead of the event, Yamaha also presented the latest models in its YSM family of high-efficiency modular mounters, including the European debut of the compact single-beam YSM10 with its versatile multi-nozzle head options that deliver class-leading 46,000 cph placement speed. The 1- or 2-beam YSM20 and 2-/4-beam YSM40R with its 18-nozzle, 50,000cph Revolutionary Speed head giving world-beating speed of up to 200,000cph in a one-metre footprint, completed the YSM demonstration. Alongside these machines, the high-speed Sigma G5S mounter with advanced automation, high-speed motion controls, and die-feature recognition for optically-accurate LED placement grabbed the attention of buyers seeking fast and flexible capacity extension.



The i-Pulse hybrid mounter, which demonstrated 3D-MID assembly featured alongside the YSM and Sigma machines, and Yamaha Factory Tools 4.0: all key elements of Yamaha's Total Line Solution.

In addition, the latest evolutions in robotic technologies for electronic assemblies, using programmable SCARA and Cartesian robot systems, demonstrated high-speed inline parts-picking, assembly, press-fitting, welding, and inspection processes. Leveraging Yamaha's proven record in factory automation for the packaging, automotive and precision manufacturing sectors, these robotic solutions for electronic assembly are ready to install and fully reprogrammable hence offering flexible and cost-effective advanced automation.

ABOUT YAMAHA MOTOR IM

Yamaha Motor IM is a subdivision of Yamaha Motor Corporation. Yamaha IM surface mounters are highly acclaimed in the market for their "module concept" that enables them to keep pace with the trend toward smaller and more diverse electric/electronic parts being mounted on circuit boards.

Yamaha Motor IM has created a strong business in the surface mounter industry that enables design and engineering, manufacture, sales and service to be conducted in one comprehensive system. Furthermore, the Company has used its core technologies in the areas of servo-motor control and image recognition technology for vision (camera) systems to develop solder paste printers, printed circuit board inspection machines, flip chip hybrid placers and dispensers. This allows Yamaha Motor IM to offer a full line of machines for electric/electronic parts mounting and propose optimum production-line makeup to answer the diversifying needs of today's manufacturers.

Yamaha Motor IM has sales and service offices in Japan, China, Southeast Asia, Europe and North America provide a truly global sales and service network that will safeguard best in class on-site sales & service support for clients.

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