

## Critical Manufacturing's MES to Power Fully Automated SMT Line in ASMPT Booth at productronica

**October 11, 2021, PORTO, Portugal** - Critical Manufacturing today announced that it will exhibit with technology leader, ASMPT, at the productronica 2021 trade fair (to be held at Messe München, Munich, Germany, November 16 to 19, 2021, Hall A3/ Booth 377). ASMPT will once again present a whole slew of innovative hardware and software solutions for the integrated smart factory. Highlights include the premiere of Open Automation, which is what ASM calls its comprehensive, modular and open concept for automation in SMT production, and Critical Manufacturing will be showcasing its modern, fully integrated MES for Electronics Assembly.



Live demonstrations in the booth's Experience Areas will focus on the most far-reaching automation of production and material flow processes. The booth will feature realistic manufacturing environments to demonstrate how manufacturers can become more productive, efficient and resilient on the journey to creating fully integrated smart factories. Visitors will experience a fully functioning, fully automated SMT line, complete with material replenishment from AIVs which will be powered by Critical Manufacturing's MES Factory Automation Module.

Recognizing the challenges faced by electronics manufacturers, Critical Manufacturing MES for Electronics Assembly provides a factory-wide holistic solution for connectivity, visibility, traceability, automation, and Industry 4.0 transformation, with a unified approach to the manufacturing process.

During the event, [Critical Manufacturing experts](#) will be on hand to demonstrate the advanced MES capabilities that address the unique challenges of electronics manufacturers, including components, boards, EMS, ODM and OEMs. The Critical Manufacturing MES for Electronics Assembly includes an

open and integrated solution that monitors and controls all factory-wide processes in a single, fully integrated MES, from incoming raw materials to finished goods. The solution delivers agile and versatile Material Management functionality that automates material tracking and consumption for the efficient flow of materials from the warehouse to the line, reducing downtime and ensuring that the right materials are available in the right quantities at the right time. Combined with a powerful Equipment Integration module that allows complete visibility and traceability of the process flow, Critical Manufacturing MES combines real-time equipment and process monitoring with accurate live visualization of quality and performance across the supply chain.

The solution also addresses the key requirements for SMT lines, assembly and test equipment including enterprise and equipment integration, warehouse and material management, including MSD and floor life control procedures, capacity and production planning, setup preparation and validation and equipment control and monitoring. Process interlocking allows complete traceability and quality control over the entire manufacturing process flow. Further capabilities include maintenance management and new product introduction (NPI), which provides advanced operator guidance through visual and interactive work instructions. Critical Manufacturing's new Factory Automation module further enables interaction with key vendors for AIV's, fleet management and automatic storage solutions for a complete automated SMT line solution, including scenarios for automated replenishment of components to minimize line stoppages and increase equipment utilization.

Critical Manufacturing will also highlight its Manufacturing IoT Data Platform at the event. In a typical electronics factory, where testers, placement machines and other equipment can produce massive amounts of data at an extraordinary pace, this integrated technology provides a fully scalable event ingestion mechanism that can route events to multiple stream processing components for real-time processing and analysis. The speed and scalability of this platform provides a future-proof solution for data handling and means that any production issues are automatically identified to increase the speed of learning and prevent future problems.

As electronics manufacturers face tremendous challenges to meet customers' increasing expectations for top performing, high quality electronics at lower prices, the modernization of the often diverse manufacturing application and data landscape, with alignment of all the business layers, has clear benefits. By providing end-to-end information flow across the plant and the entire enterprise, Critical Manufacturing's MES is a key enabler for margin improvement and future business resilience by driving agility, efficiency and visibility into day-to-day operations while supporting advanced analytics for continued process and operational improvement.

The Critical Manufacturing team looks forward to [meeting safely in person](#) again. Can't visit this year's productronica? No problem, you won't miss any valuable information: Next to being 'onsite' at the productronica booth, ASMPT will also offer 'on demand' a virtual booth with live-links and an extensive media library. In addition the ASM trade fair studio will be 'on air' daily with exciting livestreams

featuring impressions from the show floor, reports from our Experience Areas, expert talks, studio guests, product innovations, and much more.

For more information about Critical Manufacturing, visit [www.criticalmanufacturing.com](http://www.criticalmanufacturing.com).

### **About Critical Manufacturing**

Critical Manufacturing, a subsidiary of ASM Pacific Technology, provides the most modern, flexible and configurable manufacturing execution system (MES) available. Critical Manufacturing MES helps manufacturers stay ahead of stringent product traceability and compliance requirements; reduce risk with inherent closed-loop quality; integrate seamlessly with enterprise systems and factory automation, and provide deep intelligence and visibility of global production operations. As a result, our customers are Industry 4.0 ready. They can compete effectively and profitably by easily adapting their operations to changes in demand, opportunity, or requirements, anywhere, at any time. For more information, visit [www.criticalmanufacturing.com](http://www.criticalmanufacturing.com)

### **About ASM Pacific Technology**

As a global technology and market leader, ASMPT (HKEX stock code: 0522), develops and provides leading edge solutions and materials for the semiconductor assembly and packaging industries. Its surface mount technology solutions are deployed in a wide range of end-user markets including electronics, mobile communications, automotive, industrial, LED and alternative energy. Continuous investments in research and development help to provide our customers with innovative and cost-efficient solutions and systems that enable them to achieve higher productivity, greater reliability and enhanced quality.

Listed on the Hong Kong Stock Exchange since 1989, ASMPT is currently one of the constituent stocks on the Hang Seng Composite MidCap Index under the Hang Seng Composite Size Indexes, the Hang Seng Composite Information Technology Industry Index under Hang Seng Composite Industry Indexes, the Hang Seng Hong Kong 35 Index and the Hang Seng Global Composite Index. To learn more about ASMPT, please visit <http://www.asmpacific.com>

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