



MKS Continues to Expand Industry Footprint in Asia with its Newest HDI PCB Laser Manufacturing Solution

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Significant order for ESI® Geode™ HDI via drilling system to support leading technology in HDI PCB manufacturing

PORTLAND, Ore., July 20, 2021 (GLOBE NEWSWIRE) -- [MKS Instruments, Inc.](#) (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, today announced confirmation of an order for the ESI® Geode™ HDI via drilling system from TTM Technologies, Inc. ("TTM"), a major technology leader in the HDI PCB manufacturing market, for their facility in Guangzhou, China. The financial terms of the order were not disclosed.

"The market is embracing the economic advantages that the latest MKS innovations offer," said MKS President and CEO John T.C. Lee. "Our Geode HDI via drilling system addresses the needs of high-volume HDI PCB manufacturing, while helping customers secure a technological advantage for current and future product requirements."

"The Geode system offers benefits for a wide range of applications. As TTM encounters increasingly complex base materials and product requirements, we value the flexibility and productivity that ESI's system delivers," said William Ng, Vice President of Supply Chain Management, TTM Technologies.

This order will support TTM's existing manufacturing and future technological development through the use of leading-edge CO2 via drilling technology. Since its recent release to the market, the Geode HDI via drilling system has introduced HDI manufacturers to the performance advantages that ESI technology has provided to Flex PCB manufacturers for decades and has seen strong adoption among the industry's top HDI players.

Developed by MKS' Equipment & Solutions Division, already a market leader in flex PCB laser drilling solutions, the Geode system is optimized to process the rigid HDI PCBs and package substrates widely used in consumer electronics, such as smartphones and other handheld devices. Building on MKS' technology leadership in laser processing for flexible printed circuits, Geode's new CO2 laser technology and control capabilities deliver breakthrough performance. Its superior throughput, refined power control and small system footprint meet the needs of high-volume PCB manufacturers and technology leaders.

About MKS Instruments

MKS Instruments, Inc. is a global provider of instruments, systems, subsystems and process control solutions that measure, monitor, deliver, analyze, power and control critical parameters of advanced manufacturing processes to improve process performance and productivity for our customers. Our products are derived from our core competencies in pressure measurement and control, flow measurement and control, gas and vapor delivery, gas composition analysis, electronic control technology, reactive gas generation and delivery, power generation and delivery, vacuum technology, lasers, photonics, optics, precision motion control, vibration control and laser-based manufacturing systems solutions. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include semiconductor, industrial technologies, life and health sciences, research and defense. Additional information can be found at www.mksinst.com.

About the ESI Brand

ESI® is a brand within the MKS Instruments Equipment & Solutions Division. The ESI portfolio consists of laser-based micro manufacturing systems and component test systems that are used worldwide by manufacturers in the electronics industry to process the materials and components that are an integral part of the electronic devices and systems in use today. Leveraging over 40 years of laser-material interaction expertise and applied laser technology, ESI solutions enable customers to optimize production by providing more control, greater application flexibility and more precise processing of a wide range of materials. The result is higher production quality, increased throughput and higher back-end yields at a lower total cost-of-ownership. Additional information can be found at www.esi.com.

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