



Lam Research Introduces Advanced Dielectric Gapfill Technology to Enable Next-Generation Devices

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New Striker® FE enhanced atomic layer deposition platform addresses semiconductor manufacturing challenges for 3D NAND, DRAM, and Logic chipmakers

FREMONT, Calif., Sept. 21, 2020 (GLOBE NEWSWIRE) -- Lam Research Corp. (Nasdaq: LRCX) today announced the advanced Striker® FE platform, a new processing solution for manufacturing high-aspect-ratio chip architectures. Striker FE utilizes an innovative, first of its kind ICEFill™ technology for filling extreme structures in 3D NAND, DRAM, and logic devices at emerging nodes. This system delivers the continued cost and technology scaling that is required to meet the semiconductor industry roadmap.

Traditional methods of gapfill for semiconductor manufacturing include legacy chemical vapor deposition, diffusion/furnace, and spin-on processes. These techniques are no longer viable for today's 3D NAND requirements, as they are limited by the tradeoffs between quality, shrinkage, and gapfill voids. In contrast, Lam's Striker ICEFill harnesses a proprietary surface modification technique to achieve highly preferential bottom-up and void-free gapfill while retaining the film quality inherent to atomic layer deposition (ALD). The ICEFill technology removes the existing limitations for filling high-aspect-ratio features which are especially prevalent in 3D NAND devices, as well as prevents collapse issues in DRAM and logic devices.

"Our goal is to provide customers with the most enabling ALD technology," said Sesha Varadarajan, senior vice president and general manager of the Deposition product group at Lam Research. "This technology combines the ability to produce high quality oxide films with superior gapfill performance, in a single processing system with the productivity advantages offered by our industry leading quad station module architecture."

The Striker FE platform with ICEFill technology is part of the Striker ALD product family. For more information about the Striker product family visit the [product page](#).

About Lam Research

Lam Research Corporation is a global supplier of innovative wafer fabrication equipment and services to the semiconductor industry. As a trusted, collaborative partner to the world's leading semiconductor companies, we combine superior systems engineering capability, technology leadership, and unwavering commitment to customer success to accelerate innovation through enhanced device performance. In fact, today, nearly every advanced chip is built with Lam technology. Lam Research (Nasdaq: LRCX) is a FORTUNE 500® company headquartered in Fremont, Calif., with operations around the globe. Learn more at www.lamresearch.com. (LRCX-P)

Caution Regarding Forward-Looking Statements

Statements made in this press release that are not of historical fact are forward-looking statements and are subject to the safe harbor provisions created by the Private Securities Litigation Reform Act of 1995. Such forward-looking statements relate to, but are not limited to: the performance of the tools we sell or service and the productivity advantages of Lam equipment. These statements are based on current expectations and are subject to risks, uncertainties, and changes in condition, significance, value and effect including those risks and uncertainties that are described in the documents filed or furnished by us with the Securities and Exchange Commission, including specifically the Risk Factors described in our annual report on Form 10-K for the fiscal year ended June 28, 2020. These uncertainties and changes could materially affect the forward-looking statements and cause actual results to vary from expectations in a material way. The Company undertakes no obligation to update the information or statements made in this release.

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