Samsung Electronics and ASML expand strategic collaboration for next-generation semiconductor manufacturing

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Seoul, Korea and Veldhoven, the Netherlands

Samsung joins industry initiative for 12-inch photomask platform for High NA EUV
Samsung reinforces leadership with planned High NA EUV adoption for future DRAM manufacturing for the first time in the industry

Samsung Electronics and ASML today announced an expansion of their long-standing strategic partnership, deepening collaboration on High NA EUV lithography and advanced semiconductor manufacturing technologies that will help drive the next generation of innovation in the AI era.

Building on years of successful cooperation, the companies will work together to accelerate the development and deployment of technologies that support the increasing performance and efficiency requirements of advanced semiconductor manufacturing.

Samsung will join the industry initiative to advance next-generation 12-inch photomask technology for future manufacturing. The semiconductor industry has relied on the 6-inch photomask format for decades. With High NA EUV, the transition to larger, 12-inch masks is expected to further increase fab productivity, lower chipmaking costs and remove stitching constraints. It will enable advanced chip manufacturers to fully leverage the advantages of High NA EUV, making future generations of leading-edge chips more cost-effective.

Drawing on its leadership in both memory and foundry manufacturing, as well as its extensive experience with advanced EUV lithography, Samsung is positioned to play a critical role in the 12-inch photomask transition. The company will work closely with industry partners to develop the required mask technologies and supporting infrastructure.

Samsung also plans to introduce ASML’s High NA extreme ultraviolet (EUV) lithography into future DRAM high-volume manufacturing for the first time in the industry by 2028, further demonstrating the readiness of High NA technology to support advanced memory and logic applications. High NA EUV is expected to extend the DRAM scaling roadmap, with improved resolution enabling process simplification and increased efficiency.

The announcement reflects a shared commitment to innovation, technology leadership and long-term partnership. Samsung and ASML expect to continue exploring opportunities for collaboration in areas including advanced memory and innovative manufacturing approaches.

Young Hyun Jun, Vice Chairman & CEO, Samsung Electronics said: "The AI era is transforming the semiconductor industry and increasing the importance of technological innovation across the entire value chain. Samsung is committed to maintaining leadership in advanced semiconductor manufacturing, including memory and foundry, through breakthrough technologies and strong partnerships. By further strengthening our collaboration with ASML, we are helping lay the foundation for the next generation of AI and semiconductor innovation."

Christophe Fouquet, President and Chief Executive Officer, ASML said: "Samsung has been one of ASML's most important innovation partners for many years. Together, we have helped advance the technologies that underpin modern semiconductor manufacturing. As the industry enters a new era driven by artificial intelligence, close collaboration with our customers becomes even more important. We look forward to working with Samsung to enable the next wave of semiconductor innovation."

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, digital signage, smartphones, wearables, tablets, home appliances and network systems, as well as memory, system LSI and foundry. Samsung is also advancing medical imaging technologies, HVAC solutions and robotics, while creating innovative automotive and audio products through Harman. With its SmartThings ecosystem, open collaboration with partners, and integration of AI across its portfolio, Samsung delivers a seamless and intelligent connected experience. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

About ASML Holding N.V.

ASML is a leading supplier to the semiconductor industry. The company provides chipmakers with hardware, software and services to mass produce the patterns of integrated circuits (microchips). Together with its partners, ASML drives the advancement of more affordable, more powerful, more energy-efficient microchips. ASML enables groundbreaking technology to solve some of humanity's toughest challenges, such as in healthcare, energy use and conservation, mobility and agriculture. ASML is a multinational company headquartered in Veldhoven, the Netherlands, with offices across EMEA, the US and Asia. Every day, ASML's more than 44,000 employees (FTE) challenge the status quo and push technology to new limits. ASML is traded on Euronext Amsterdam and NASDAQ under the symbol ASML. Discover ASML – our products, technology and career opportunities – at www.asml.com.

Forward Looking Statements

This document and related discussions contain statements that are forward-looking within the meaning of the U.S. Private Securities Litigation Reform Act of 1995, including statements with respect to expanding the strategic collaboration for next generation semiconductor manufacturing, 12-inch photomask transition and the anticipated benefits thereof, plans for technology adoption and manufacturing, plans to introduce high-NA EUV into manufacturing and expected timing thereof and expected adoption and benefits of high-NA EUV and other non-historical statements. You can generally identify these statements by the use of words like “expect”, “intend”, “will”, “target”, “positioned”, “plan”, “and variations of these words or comparable words. Forward-looking statements do not guarantee future performance and involve risks and uncertainties, including risks related to the strategic collaboration for next generation semiconductor manufacturing and 12-inch photomask transition, risks relating to high-NA EUV technology and the adoption and benefits thereof, including the expected timing of adoption, and other risks indicated in the risk factors included in ASML’s most recent Annual Report on Form 20-F and other filings with the U.S. Securities and Exchange Commission. These forward-looking statements are made only as of the date of this document. We undertake no obligation to update any forward-looking statements after the date of this document or to conform such statements to actual results or revised expectations, except as required by law.