



ASML showcases holistic lithography solutions at SEMICON India 2025

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Set to power India's chipmaking growth

New Delhi, India

ASML, a global leader in semiconductor lithography, attended SEMICON India 2025 for the first time, emphasizing its commitment to supporting India's growing semiconductor industry. The company showcased its holistic lithography portfolio, which integrates lithography systems, computational software, metrology, and inspection solutions.

India's semiconductor market is projected to exceed USD 55 billion by 2026 and USD 100 billion by 2030, fueled by strong demand in smartphones, automotive, and 5G IoT, alongside strong government support. ASML's advanced lithography technologies are well-positioned to help Indian chipmakers produce smaller, more powerful chips while improving yield and performance, enabling cost-effective, high-volume production.

ASML's holistic lithography approach integrates the three key product categories: advanced lithography systems, computational lithography software, metrology and inspection tools.

- Lithography systems serve as the foundation, using light to print intricate patterns on silicon wafers with nanometer precision.
- Computational lithography software enables automated control loops and in-line adjustments to optimize performance and yield.
- Metrology systems measure critical dimensions and overlay accuracy, while inspection systems detect defects and ensure process stability.

By combining lithography systems with computational lithography, metrology and inspection tools, ASML helps chipmakers maximize their process window, reduce edge placement errors, and increase the number of good wafers per day. Emerging fabs in India could leverage holistic lithography for smoother capacity ramps and access to scalable, future-proof technologies that enable innovation and competitiveness.

Christophe Fouquet, President and CEO of ASML, delivered a keynote address at SEMICON India 2025: "India has been showing progress in developing its ambitions in the semiconductor industry with investments, a strong talent pool and clear support from the government. We welcome India's vision as it will strengthen the global industry. ASML is participating in SEMICON India for the first time. We look forward to learning more about India's semiconductor industry, establishing new relationships and preparing opportunities."

About ASML

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

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