

Semiconductor Manufacturing Equipment Market Size, Share & Trends Analysis Report By Process (Front-end, Back-end), By Dimension (2D, 2.5D, 3D), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Semiconductor Manufacturing Equipment Market Growth & Trends

The global semiconductor manufacturing equipment market size is expected to reach USD 175.17 billion in 2030 and is projected to grow at a CAGR of 8.1% from 2025 to 2030, according to a new report by Grand View Research, Inc. The surging adoption of connected devices, as a result of the development of contemporary technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), and cloud computing for numerous applications, is expected to enhance the demand for semiconductor manufacturing equipment.

The products made by utilizing semiconductor manufacturing equipment include IC chips, circuits, semiconductor wafers, memory chips, and other products. The market for semiconductor manufacturing equipment is anticipated to witness significant growth as a result of the rising use of semiconductor equipment in connected devices, such as laptops, smartphones, tablets, and smart home products, and in the automotive sector.

The demand for consumer electronics is escalating globally, which can be connected to the surging need for user-friendly electronic products and the expanding residential market. Optoelectronics, MEMS, and MOEMS devices are used in the mass production of electronic items in China and Taiwan, including smartphones, wearables, and white

goods.

Majorly the production equipment utilized to make semiconductors is referred to as front-end equipment. These pieces of equipment include ones for the manufacture of silicon wafers, photolithography, deposition, etching, ion implantation, mechanical polishing machines, and many others. The increased demand for highly efficient and dense semiconductors for CPUs, GPUs, IoT devices, and other devices is largely responsible for the strong demand for front-end equipment.

The semiconductor manufacturing equipment sector is prominent in the Asia Pacific region due to numerous equipment manufacturing industries in economies like China, Taiwan, Japan, etc., which observe global demand. This is expected to keep Asia Pacific in the top spot during the projected period.

The market is highly competitive and dependent on technological advancements and product developments. Market players strive to achieve application development to gain a competitive advantage. The presence of local players in the region poses a significant threat to large multinational companies in terms of product quality and prices offered to customers.

Semiconductor Manufacturing Equipment Market Report Highlights

The front-end process led the market and accounted for 73.7% of the semiconductor manufacturing equipment revenue share in 2024, in terms of revenue, due to escalating demand for IC chips and logic circuits for different end-users, and the surging number of electronic products manufacturers

The 2.5D segment dominated the market and accounted for 39.5% of overall revenue share in 2024 driven by its ability to enhance performance while maintaining a compact form factor

The semiconductor fabrication plant/foundry segment led the market, accounting for a 47.0% revenue share in 2024., on account of the escalating demand for circuits from the manufacturers of electronic devices, medical devices, and automotive

Semiconductor manufacturing equipment manufacturers focus on collaborations, mergers, acquisitions, and partnerships to expand their product portfolios and increase their production capacities as well as consumer base.

For instance, in March 2023, Tokyo Electronic announced the plan to open a new manufacturing facility named Tohoku Production and Logistics Center at Tohoku Office to fulfill the surging demand for semiconductors globally

Asia Pacific semiconductor manufacturing equipment market led the market and accounted for 68.7% of the global revenue share in 2024.

Companies Mentioned

Applied Materials Inc.
Lam Research Corporation
KLA Corporation
ASML
Tokyo Electron Limited
Advantest Corporation
SCREEN Semiconductor Solutions Co., Ltd.
Cohu, Inc.
ACM Research Inc.
Nordson Corporation
Tokyo Seimitsu Co., Ltd.
EV Group (EVG)
Modutek Corporation
Dainippon Screen Group
Ferrotec Holdings Corporation

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