

Semiconductor Manufacturing Equipment Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 160 pages | EMR Inc.

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Report description:

The global semiconductor manufacturing equipment market is expected to grow in the forecast period of 2025-2034 at a CAGR of 10.10%.

Heightened Demand for Consumer Electronics to Propel the Growth of the Semiconductor Manufacturing Equipment Industry

Consumer electronics is one of the most significant sectors that is entirely dependent on the semiconductor industry. This sector makes a significant application in the semiconductor industry and is projected to contribute to the market growth in the forecast period.

As a result, with the increased demand for consumer electronics, the number of foundries worldwide has risen significantly. Miniaturisation of chip sizes and gadgets and innovative design of various electronic devices have positively stimulated the demand in the semiconductor industry, which is projected to benefit the semiconductor equipment manufacturers significantly in the coming years.

The Asia Pacific to Occupy a Major Market Share of the Semiconductor Manufacturing Equipment Industry

The semiconductor manufacturing equipment industry in the region is driven by the development of semiconductor devices in Asian countries such as China, Japan, South Korea, and others. The Asia Pacific is the hub of consumer technology, with several design and manufacturing plants located in the region. In addition, the improving economic conditions and low labour costs in the region are the primary motivators for the large market share. The region is one of the world's largest businesses for electric and self-driving vehicles, and it has also seen elevated demands for new electronics in recent years, which is projected to positively impact the industry growth in the forecast period.

Semiconductor Manufacturing Equipment: Market Segmentation

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Semiconductor manufacturing equipment (SME) are the materials used in one of the most complex and advanced manufacturing processes in the world. Semiconductors like microprocessors and memory devices are used in a wide variety of manufactured products, including personal computers, telecommunications equipment, and many commonly found consumer electronics goods.

By dimension, the semiconductor manufacturing equipment industry can be divided into:

- 2D
- 2.5D
- 3D

The market can be broadly categorised, on the basis of fab facility, into:

- Automation
- Chemical Control Equipment
- Gas Control Equipment
- Others

On the basis of back-end, the market can be segregated into:

- Dicing Equipment
- Assembly and Packaging
- Metrology Equipment
- Bonding Equipment
- Others

Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

IDM Firms to Constitute a Significant Share of the Semiconductor Manufacturing Equipment Industry

China is one of the fast-growing markets for semiconductor manufacturing equipment. In addition, the country is a major producer and marketer of electronic items on a global scale. In this regard, the high demand for electrical components has resulted in an increase in the demand for integrated circuits (ICs), which is anticipated to create a number of opportunities for the country's semiconductor industry. Moreover, the country is witnessing a number of semiconductor equipment research and manufacturing-related programmes and initiatives, as well as several government investments to promote the development of locally manufactured equipment. As a result, numerous prominent local firms in the semiconductor manufacturing equipment industry have emerged in the local equipment products market. These factors are predicted to propel the market growth in the forecast period.

Key Industry Players in the Global Semiconductor Manufacturing Equipment Market

The report presents a detailed analysis of the following key players in the global semiconductor manufacturing equipment market,

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looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Tokyo Electron Limited
- LAM Research Corporation
- ASML Holdings N.V.
- Applied Materials Inc.
- Screen Holdings Co., Ltd.
- Others

The comprehensive report looks into the macro and micro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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