

Semiconductor Manufacturing Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global semiconductor manufacturing equipment market size reached US\$ 90.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 159.5 Billion by 2028, exhibiting a growth rate (CAGR) of 9.75% during 2023-2028.

Semiconductor manufacturing equipment refers to the processing machinery used to produce a variety of electronic and integrated circuits (ICs). Front-end and back-end are two of the most commonly used semiconductor manufacturing equipment. Front-end includes silicon-wafer fabrication, photolithography, deposition, etching, ion implantation and mechanical polishing machines, and back-end includes the machinery for assembly, packaging and testing of integrated circuits. These machines offer various benefits, such as streamlined production, improved yield and reliability, minimal design and manufacturing errors and enhanced workplace safety. As a result, they find extensive applications in the manufacturing of products for various industries such as automotive, electronics, robotics, etc.

Significant growth in the electronics industry across the globe represents one of the key factors creating a positive outlook for the semiconductor manufacturing equipment market. Semiconductors are widely used in the manufacturing of consumer electronics, such as smartphones, tablets and laptops. Furthermore, the increasing demand for hybrid and electronic vehicles (H/EVs) is also contributing to the growth of the market. Semiconductor manufacturing equipment is used for the assembly of multiple semiconductors on a single chip to minimize electronic interference, dissipate heat and provide enhanced protection to the electronic devices in the vehicle.

Various technological advancements, such as the utilization of artificial intelligence (AI)

solutions and the integration of connected devices with the Internet of Things (IoT), are acting as other growth-inducing factors. Electronics manufacturers are using IoT-enabled silicon-based sensors in the manufacturing equipment that offer remote monitoring capabilities for complex circuit boards. Other factors, including the emerging trend of device miniaturization, along with extensive research and development (R&D) activities, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global semiconductor manufacturing equipment market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on equipment type, front-end equipment, back-end equipment, fab facility, product type, dimension and supply chain participant.

Breakup by Equipment Type:

- Front-End
- Back-End

Breakup by Front-End Equipment:

- Lithography
- Deposition
- Cleaning
- Wafer Surface Conditioning
- Others

Breakup by Back-End Equipment:

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

Breakup by Fab Facility:

- Automation

Chemical Control
Gas Control
Others

Breakup by Product Type:

Memory
Logic Components
Microprocessor
Analog Components
Optoelectronic Components
Discrete Components
Others

Breakup by Dimension:

2D
2.5D
3D

Breakup by Supply Chain Participant:

IDM Firms
OSAT Companies
Foundries

Breakup by Region:

Asia Pacific
Taiwan
China
South Korea
Japan
Singapore
India
Others
North America
United States
Canada

Europe
Germany
United Kingdom
France
Italy
Russia
Spain
Others
Latin America
Mexico
Brazil
Others
Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Advantest Corporation, Applied Materials Inc., ASML Holdings N.V., KLA Corporation, Lam Research Corporation, Onto Innovation Inc., Plasma-Therm LLC, SCREEN Holdings Co. Ltd., Teradyne Inc., Tokyo Electron Limited and Toshiba Corporation.

Key Questions Answered in This Report

1. What was the size of the global semiconductor manufacturing equipment market in 2022?
2. What is the expected growth rate of the global semiconductor manufacturing equipment market during 2023-2028?
3. What are the key factors driving the global semiconductor manufacturing equipment market?
4. What has been the impact of COVID-19 on the global semiconductor manufacturing equipment market?
5. What is the breakup of the global semiconductor manufacturing equipment market based on the equipment type?
6. What is the breakup of the global semiconductor manufacturing equipment market based on the front-end equipment?
7. What is the breakup of the global semiconductor manufacturing equipment market based on the back-end equipment?
8. What is the breakup of the global semiconductor manufacturing equipment market based on the fab facility?

9. What is the breakup of the global semiconductor manufacturing equipment market based on the product type?
10. What is the breakup of the global semiconductor manufacturing equipment market based on the dimension?
11. What is the breakup of the global semiconductor manufacturing equipment market based on the supply chain participant?
12. What are the key regions in the global semiconductor manufacturing equipment market?
13. Who are the key players/companies in the global semiconductor manufacturing equipment market?

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