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## **Semiconductor Manufacturing Equipment Market Size Is to Hit 173.6 Billion by 2028 : New Challenges and Opportunities in SEMI Industry, Updates and Forecast – July 19, 2022**

The Semiconductor Manufacturing Equipment Market Size & Outlook Study gives an comprehensive analysis of industry size, COVID-19 Impact analysis in various regions, its segmentation and technology advancement analysis.

Pune, Maharashtra -- (SBWIRE) -- 07/19/2022 -- Semiconductor Manufacturing Equipment Market Overview:

The creation of semiconductor devices, arguably the most complex and cutting-edge manufacturing process in the world, uses semiconductor manufacturing equipment (SME). A wide range of manufactured items, including specialized computers, telecommunications equipment, and many typical consumer electronics products, utilize semiconductors, such as microprocessors and memory devices. The production of semiconductors is a challenging process that needs a top-notch fab facility. Applications for semiconductor manufacturing equipment are numerous in the production of goods for different industries, including the automobile, electronics, robotics, etc.

As per the most authenticated market research report by SNS Insider, the semiconductor manufacturing equipment market is anticipated to reach USD 173.6 billion by 2028, with a CAGR of 8.8% over the forecast period of 2022–2028.

Get a Sample Report of Semiconductor Manufacturing Equipment Market (With Detailed TOC, Tables, Regional Analysis, Graphs & Charts) @ <https://www.snsinsider.com/sample-request/1633>

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### Drivers, Restraints, Opportunities, and Challenges

The expansion of R&D facilities, rising demand for electric and hybrid vehicles, the consumer electronics market, an increase in foundries, the development of the Internet of Things (IoT), and rising demand for automotive semiconductors are the main factors propelling the growth of the global semiconductor manufacturing equipment market. Over the course of the projection period, the global market for semiconductor manufacturing equipment is anticipated to benefit from growth in demand for silicon-based sensors in the Internet of Things (IoT), China's expanding chip sector, and an increase in the number of data centers and servers.

The semiconductor manufacturing equipment market 's expansion is hampered by high equipment maintenance costs, complicated manufacturing processes, and functional and pattern flaws. Technical issues encountered during construction and increased complexity linked to reduced circuit structure are the main obstacles to the growth of the semiconductor manufacturing equipment market.

### Impact of the COVID-19 Pandemic

The semiconductor manufacturing equipment market has been severely impacted by COVID-19. Due to the temporary shutdown of production services in the first half of 2020, the pandemic has severely impacted the acceptability of semiconductor manufacturing equipment by the automotive, industrial, and consumer electronics domains. The demand for consumer electronics is expected to increase in the

North American and Asia-Pacific regions as a result of the pandemic, which is expected to help vendors of equipment for semiconductor production grow their businesses.

#### Market Segmentation

The lithography sub-segment of front-end equipment has the greatest market share and is predicted to maintain its dominance during the projection period as a result of intensive R&D. Because innovative and cutting-edge production methods are readily available, semiconductor manufacturing companies can produce high-quality devices.

Automation subsegment, based on fab facility, holds a significant proportion over the anticipated period. Numerous benefits of automation include decreased downtime, elimination of wasteful operations, reduced inventory, and reduction of idle time. Automation systems assist in resolving issues like waste minimization, cost reduction, optimal planning, and effective resource use.

Wafer testing equipment has the biggest market share in terms of back-end equipment and is anticipated to maintain this dominance during the projection period. At various stages of the semiconductor production process, these devices are used to test the performance and operation of electronic devices.

Major Segments and Sub-Segment of Semiconductor Manufacturing Equipment Market are Listed Below:

#### BY PRODUCT

- Memory
- Logic
- Foundry
- MPU
- Discrete

#### BY DIMENSION

- 2D
- 2.5D
- 3D

#### BY BACK-END EQUIPMENT

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

#### BY FRONT-END EQUIPMENT

- Lithography Equipment
- Wafer Cleaning Equipment
- Water Surface Conditioning Equipment
- Deposition Equipment

#### BY FAB FACILITY EQUIPMENT

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

## BY SUPPLY CHAIN PARTICIPANT

- OSAT Companies
- IDM Firms
- Foundries

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(Do you have any specific query regarding this research? Let's talk to our market experts to understand better view of market status.)

## Regional Analysis

The semiconductor manufacturing equipment market is dominated by North America. The market for semiconductor manufacturing equipment is expanding as a result of rising consumer electronics demand in the US and Canada. Additionally, a rise in IoT, AI, and connected device adoption across numerous business verticals is anticipated to accelerate market expansion in this area. Due to the low cost of labor in China and India, the Asia Pacific region held the largest market share and is anticipated to maintain its dominance over the projection period. Leading-edge advantages for the Asian semiconductor sector include Taiwanese invention and development in fabrication plants and Japanese semiconductor equipment manufacturing capabilities.

## Competitive Landscape Outlook

Some of the prominent players working in the semiconductor manufacturing equipment market are Daifuku, Hitachi High-Tech Corporation, KLA Corporation, Tokyo Electron Limited, QP Technologies, FormFactor, EV Group, Nikon Corporation, and Lam Research Corporation.

Frequently asked questions in this report are:

- Which is the potential market for the semiconductor manufacturing equipment in terms of the region?
- What are the opportunities for new market entrants?
- What are the drivers and opportunities for the semiconductor manufacturing equipment market?
- Who are the major supply chain participants of the semiconductor manufacturing equipment that are expected to drive the growth of the market in the next 5 years?

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