

# **Global Semiconductor Manufacturing Equipment Market Size study, By Front-End Equipment (Lithography Equipment, Water Surface Conditioning Equipment, Wafer Cleaning Equipment, Deposition Equipment, Other Front-End Equipment), By Back-End Equipment (Assembly and Packaging, Dicing, Metrology, Bonding, Water Testing), By Fab Facility Equipment (Automation Equipment, Chemical Control Equipment, Gas Control Equipment, Others), By Product Type (Memory, Foundry, Logic, MPU, Discrete, Others), By Dimension (2D ICs, 2.5D ICs, 3D ICs), By Supply Chain Participant (IDM Firms, OSAT Companies, Foundries), and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Semiconductor Manufacturing Equipment Market is valued approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2022-2028.

Semiconductor manufacturing equipment is those machineries that is used for the production of semiconductors. This equipment is a vital component for performing fabrication processes. Semiconductor manufacturing equipment comprises systems such as ion implantation equipment, photolithography equipment, epitaxial reactors,

chemical vapor deposition systems, oxidation systems, etching equipment, physical vapor deposition systems, diffusion systems, and others. The rising need for semiconductor fabrication facilities, growth of the semiconductor industry, increasing demand for semiconductor parts in hybrid and electric vehicles, coupled with the surging demand for AI chips are the chief factors that are fostering market growth across the globe. For instance, as per the Semiconductor Industry Association, global semiconductor industry sales accounted for around USD 555.9 billion in 2021. And, the industry generates the highest annual revenue with a rise of 26.2% compared to 2020 total of USD 440.4 billion. Accordingly, the growth of the semiconductor industry is propelling demand for semiconductor manufacturing equipment, which, in turn, drives the market growth. However, the high cost of ownership and complexity of patterns and functional defects restrain the semiconductor manufacturing process impedes the growth of the market over the forecast period of 2022-2028. Also, the shortage of semiconductors leading to the development of new manufacturing facilities and rising government initiatives to boost the semiconductor industry is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Semiconductor Manufacturing Equipment market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia-Pacific is the leading region across the world in terms of market share owing to the increasing number of government initiatives and investments to promote semiconductor manufacturing and the rising presence of the leading market players in the region. Whereas, Asia-Pacific is also anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as rising investments in the R&D activities, as well as the growth of the emerging markets such as India, China, and Japan, would create lucrative growth prospects for the Semiconductor Manufacturing Equipment market across the Asia-Pacific region.

Major market players included in this report are:

Tokyo Electron Limited

Lam Research Corporation

Applied Materials, Inc.

KLA Corporation

SCREEN Holdings Co., Ltd.

Hitachi High-Tech Corporation

EV Group

Modutek Corporation

Nikon Corporation

Semiconductor Equipment Corporation

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Front-End Equipment offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Front-End Equipment:

Lithography Equipment

Water Surface Conditioning Equipment

Wafer Cleaning Equipment

Deposition Equipment

Other Front-End Equipment

By Back-End Equipment:

Assembly and Packaging

Dicing

Metrology

Bonding

Water Testing

By Fab Facility Equipment:

Automation Equipment

Chemical Control Equipment

Gas Control Equipment

Others

By Product Type:

Memory

Foundry

Logic

MPU

Discrete

Others

By Dimension:

2D ICs

2.5D ICs

3D ICs

By Supply Chain Participant:

IDM Firms

OSAT Companies

Foundries

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Semiconductor Manufacturing Equipment Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

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