

Global Semiconductor Production Equipment Market Size study, by Product Type (Front End and Back End), Function (Integrated and OSD), Dimension (2D, 2.5D, and 3D) and Supply Chain Process (IDM, OSAT, and Foundry) and Regional Forecasts 2021-2027

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Abstracts

Global Semiconductor Production Equipment Market is valued approximately USD 62.4 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 9.0% over the forecast period 2021-2027. Semiconductor manufacturing equipment is used to make circuits, memory chips, and other semiconductor products. Semiconductors are materials having free electrons in their structures, which allow electricity to flow more freely between atoms. In the early phases of the semiconductor manufacturing process, wafer fabrication equipment is utilized, whereas testing and assembly equipment is used afterwards. The increasing demand for electric and hybrid vehicles, the growing consumer electronics market and increasing number of foundries due to COVID-19, the trend of miniaturization and technology migration, and high demand for chips to provide computation power and connectivity for AI apps are all key factors driving the growth of this market. The rising use of electric and hybrid automobiles, as well as the worldwide trend toward vehicle electrification, will create market opportunities for semiconductor manufacturing equipment vendors. According to the International Energy Agency (IEA), electric cars accounted for 2.6 percent of worldwide auto sales in 2019 and roughly 1% of global automobile stock, with a 40 percent annual growth rate expected. As a result, demand for microcontrollers, high-power modules, discrete components, and other power semiconductors will increase, propelling market growth. Furthermore, in manufacturing process complexity of patterns and functional defects hindering the market in forecasting period of time. Whereas, in China, expansion of chip industry create opportunity for semiconductor manufacturing equipment market.

The main regions of Asia Pacific, North America, Europe, Latin America, and the Rest of the World are included in the geographical analysis of the worldwide Semiconductor Production Equipment market. The semiconductor manufacturing equipment market in Asia is driven by the growth of semiconductor devices in Asian economies such as China, Japan, South Korea, and Taiwan. The consumer electronics industry is centred on APAC, which is supplied by numerous fabrication factories in the region. China, Japan, South Korea, and Taiwan have the most fabrication factories in the world. Favorable economic circumstances and low labour costs in APAC are the primary drivers of this market's substantial share. The area is one of the world's major markets for electric and autonomous cars, as well as a hotbed of consumer electronics demand in recent years.

Major market player included in this report are:

Alsil Material

Applied Materials Inc.

ASML Holdings N.V.

Intel Corporation

Micron Technology Inc.

Qualcomm Technologies, Inc.

Samsung Group

Screen Holdings Co., Ltd.

Teradyne Inc.

Tokyo Electron Limited

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 product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

Front end equipment

Back end equipment

By Function:

Integrated

OSD

By Dimension:

2D

2.5D

3D

By Supply Chain Process:

IDM

OSAT

Foundry

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

Base year – 2020

Forecast period – 2021 to 2027

Target Audience of the Global Semiconductor Production Equipment Market in Market*Global Semiconductor Production Equipment Market Size study, by Product Type (Front End and Back End), Functio...*

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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