

Global Semiconductor Process Equipment (SPE) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Process Equipment (SPE) market size was valued at US\$ 107900 million in 2024 and is forecast to a readjusted size of USD 168830 million by 2031 with a CAGR of 6.7% during review period.

Global Semiconductor Process Equipment (SPE) can be roughly divided into 11 categories and more than 50 models. Front-end equipment mainly includes eight categories: lithography machines, etch equipment, deposition/thin film machines, ion implanter, CMP equipment, cleaning equipment, front-end inspection equipment and oxidation annealing equipment. Back-end equipment is mainly divided into test equipment and assembly & packaging equipment. Front-end equipment is used in the wafer manufacturing process, covering hundreds of processes from optical slices to wafers. In 2023, semiconductor front-end equipment, test equipment and assembly & packaging equipment accounted for approximately 90%, 5.9% and 3.8% of the market share respectively.

The Semiconductor Process Equipment (SPE) are mainly produced in USA, Japan, South Korea, Europe, and China.

The semiconductor etching equipment market is dominated Lam Research, TEL, and Applied Materials. Other players include Hitachi High-Technologies, Oxford Instruments, SPTS Technologies, GigaLane, Plasma-Therm, SAMCO, AMEC, and NAURA etc.

The semiconductor deposition/thin film equipment covers PVD and CVD equipment. The PVD market is dominated by Applied Materials, ULVAC, and Evatec, etc. CVD

market is dominated by Applied Materials, Lam Research, TEL, and ASM International, etc. other players include Wonik IPS, Eugene Technology, Eugene Technology, TES, SPTS Technologies (KLA), Veeco, CVD Equipment, Shengyang Piotech, and NAURA.

Semiconductor metrology and inspection equipment is dominated by KLA-Tencor, Applied Materials, Hitachi High-Technologies, and ASML. Other players include Onto Innovation, Lasertec, ZEISS, SCREEN Semiconductor Solutions, Camtek, Veeco Instruments, Toray Engineering, Muetec, Unity Semiconductor SAS, Microtronic, RSIC scientific instrument, and DJEL, etc.

The Coater & Developer market is dominated by TEL and SCREEN Semiconductor Solutions. Other players are SEMES, SUSS MicroTec, KINGSEMI, and TAZMO, etc.

The Lithography Machine market is dominated by ASML, Canon, and Nikon.

The semiconductor cleaning equipment market is dominated by SCREEN Semiconductor, Tokyo Electron, and Lam Research.

The Ion Implanter market is dominated by ASML and Axcelis Technologies.

The CMP Equipment market is dominated by Applied Materials, Ebara and Hwatsing Technology.

This report is a detailed and comprehensive analysis for global Semiconductor Process Equipment (SPE) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor Process Equipment (SPE) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Semiconductor Process Equipment (SPE) market size and forecasts by region

Global Semiconductor Process Equipment (SPE) Market 2025 by Manufacturers, Regions, Type and Application, Fore...

and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Semiconductor Process Equipment (SPE) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Semiconductor Process Equipment (SPE) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Semiconductor Process Equipment (SPE)
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor Process Equipment (SPE) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ASML, Applied Materials, Inc. (AMAT), TEL (Tokyo Electron Ltd.), Lam Research, KLA Pro Systems, SCREEN, NAURA, Advantest, ASM International, Hitachi High-Tech Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Semiconductor Process Equipment (SPE) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Semiconductor Etching Equipment

Deposition/Thin Film Equipment

Semiconductor Lithography Machine

Semiconductor Coater & Developer

CMP Equipment

Semiconductor Cleaning Equipment

Ion Implanter

Heat Treatment Equipment

Market segment by Application

Foundry and Logic Equipment

NAND Equipment

DRAM Equipment

Major players covered

ASML

Applied Materials, Inc. (AMAT)

TEL (Tokyo Electron Ltd.)

Lam Research

KLA Pro Systems

SCREEN

NAURA

Advantest

ASM International

Hitachi High-Tech Corporation

Teradyne

Lasertec

DISCO Corporation

Canon U.S.A.

Nikon Precision Inc

SEMES

Ebara Technologies, Inc. (ETI)

Axcelis Technologies Inc

AMEC

Kokusai Electric

Beijing E-Town Semiconductor Technology

Onto Innovation

Aixtron

NuFlare Technology, Inc.

ACM Research

Veeco

Wonik IPS

Piotech, Inc

Hwatsing Technology

SUSS MicroTec REMAN GmbH

ULVAC TECHNO, Ltd.

Kingsemi

Eugene Technology

PSK Group

Jusung Engineering

Oxford Instruments

Skyverse Technology

PNC Technology Group

TES CO., LTD

Samco Inc.

Wuhan Jingce Electronic Group

Plasma-Therm

Grand Process Technology

Advanced Ion Beam Technology, Inc. (AIBT)

Skytech Group

CVD Equipment

RSIC scientific instrument (Shanghai)

GigaLane

Shanghai Micro Electronics Equipment

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Semiconductor Process Equipment (SPE) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Process Equipment (SPE), with price, sales quantity, revenue, and global market share of Semiconductor Process Equipment (SPE) from 2020 to 2025.

Chapter 3, the Semiconductor Process Equipment (SPE) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Process Equipment (SPE) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025.and Semiconductor Process Equipment (SPE) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semiconductor Process Equipment (SPE).

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