

Global Semiconductor Process Equipment (SPE) Market Growth 2025-2031

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Abstracts

The global Semiconductor Process Equipment (SPE) market size is predicted to grow from US\$ 108900 million in 2025 to US\$ 164310 million in 2031; it is expected to grow at a CAGR of 7.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "Semiconductor Process Equipment (SPE) Industry Forecast" looks at past sales and reviews total world Semiconductor Process Equipment (SPE) sales in 2024, providing a comprehensive analysis by region and market sector of projected Semiconductor Process Equipment (SPE) sales for 2025 through 2031. With Semiconductor Process Equipment (SPE) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Process Equipment (SPE) industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Process Equipment (SPE) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with

a focus on Semiconductor Process Equipment (SPE) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Process Equipment (SPE) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Process Equipment (SPE) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Semiconductor Process Equipment (SPE).

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Process Equipment (SPE) market by product type, application, key manufacturers and key regions and countries.

Segmentation 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

Segmentation by Application:

- Foundry and Logic Equipment

NAND Equipment

DRAM Equipment

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Process Equipment (SPE) market?

What factors are driving Semiconductor Process Equipment (SPE) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Semiconductor Process Equipment (SPE) market opportunities vary by end market size?

How does Semiconductor Process Equipment (SPE) break out by Type, by Application?

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