

# Global Semiconductor Process Control Systems Market Growth 2026-2032

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## Abstracts

The global Semiconductor Process Control Systems market size is predicted to grow from US\$ 14580 million in 2025 to US\$ 23360 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Semiconductor manufacturers use semiconductor process control systems to understand process quality and to optimize tool performance. Used during process and tool development, semiconductor process control systems produce information used to visualize, diagnose and control process conditions ? enabling the equipment manufacturers to fully characterize and understand their tools? performance. Currently KLA is the largest producer of semiconductor process control systems, KLA?s inspection, metrology and in situ process monitoring solutions are also used to qualify process tool performance before shipment. KLA?s process control systems help equipment suppliers build reliable, production-worthy process tools.

This report studies the semiconductor process control equipment, include Patterned Wafer Defect Inspection System, Non-patterned Wafer Defect Inspection System, E-beam Wafer Defect Inspection and Classification System, Wafer Macro Defects Detection and Classification, Wafer Inspection & Metrology System for Advanced Packaging, Critical Dimension SEM (CD-SEM), Overlay Metrology System, Optical Critical Dimension (OCD) Metrology Equipment and Mask Inspection & Metrology System, etc.

Currently the key manufacturers of Semiconductor Process Control Systems KLA Corporation, Applied Materials, Lasertec, Hitachi High-Tech Corporation, ASML, Onto Innovation, Camtek, SCREEN Semiconductor Solutions, Skyverse Technology and Nova Ltd, etc. The global top eight players hold a share nearly 90%.

In Patterned Wafer Defect Inspection Systems segment are dominated by KLA and Applied Materials; Optical Critical Dimension (OCD) Metrology Equipment is dominated by KLA, Nova and Onto Innovation; Unpatterned Wafer Inspection Systems are dominated by KLA and Hitachi High-Tech Corporation; CD-SEM are dominated by Hitachi High-Tech Corporation and Applied Materials; Overlay Metrology Systems are dominated by KLA and ASML; e-Beam Wafer Defect Review and Classification Systems are dominated by ASML and Applied Materials.

LP Information, Inc. (LPI) ' newest research report, the "Semiconductor Process Control Systems Industry Forecast" looks at past sales and reviews total world Semiconductor Process Control Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Semiconductor Process Control Systems sales for 2026 through 2032. With Semiconductor Process Control Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Process Control Systems industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Process Control Systems 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 Control Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Process Control Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Process Control Systems 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 Control Systems.

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

Segmentation by Type:

Patterned Wafer Defect Inspection System

Non-patterned Wafer Defect Inspection System

E-beam Wafer Defect Inspection and Classification System

Wafer Macro Defects Detection and Classification

Wafer Inspection & Metrology System for Advanced Packaging

Critical Dimension SEM (CD-SEM)

Overlay Metrology System

Optical Critical Dimension (OCD) Metrology Equipment

Mask Inspection & Metrology System

Others

Segmentation by Application:

Semiconductor Wafer Metrology & Inspection

Semiconductor Mask Metrology & Inspection

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.

KLA Corporation

Applied Materials

Lasertec

Hitachi High-Tech Corporation

ASML

Onto Innovation

Camtek

SCREEN Semiconductor Solutions

Nova Ltd

Park Systems

ZEISS

Skyverse Technology

Toray Engineering

NEXTIN

Suzhou TZTEK (Muetec)

Microtronic

Bruker

SMEE

Hangzhou Changchuan Technology

Wuhan Jingce Electronic Group

Angkun Vision (Beijing) Technology

Nanotronics

Visiontec Group

Hefei Yuwei Semiconductor Technology

Suzhou Secote (Optima)

DJEL

Jiangsu VPTEK

Ever Red New Technology

Confovis

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Suzhou Xinshi Technology

RSIC scientific instrument (Shanghai)

Gaoshi Technology (Suzhou)

Unity Semiconductor SAS

JUTZE Intelligence Technology

Chroma ATE Inc

CMIT

Engitist Corporation

HYE Technology

Shuztung Group

Cortex Robotics

Takano

Shanghai Techsense

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Process Control Systems market?

What factors are driving Semiconductor Process Control Systems market growth, globally and by region?

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

How do Semiconductor Process Control Systems market opportunities vary by end market size?

How does Semiconductor Process Control Systems break out by Type, by Application?

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