

Global Semiconductor Metrology and Inspection Equipment Market Growth 2025-2031

<https://marketpublishers.com/r/GA9AD97BF7FCEN.html>

Date: September 2025

Pages: 107

Price: US\$ 3,660.00 (Single User License)

ID: GA9AD97BF7FCEN

Abstracts

The global Semiconductor Metrology and Inspection Equipment market size is predicted to grow from US\$ 17650 million in 2025 to US\$ 27880 million in 2031; it is expected to grow at a CAGR of 7.9% 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.

Semiconductor metrology/inspection equipment is widely used in the front-end and back-end production of integrated circuits. It is the cornerstone to ensure the precision of wafer lithography, etching, thin film deposition and other links. It is crucial for silicon wafer factories/wafer factories to ensure product yield, product consistency, and reduce costs. Depending on the application scenario, metrology/inspection equipment is mainly divided into two categories: metrology equipment and inspection equipment.

Major players in the market include KLA Corporation, Applied Materials, Inc., ASML Holdings N.V., Hitachi High-Technologies Corporation, Onto Innovation, etc.

As one of the world's largest semiconductor markets, China's demand for semiconductor metrology and inspection equipment continues to grow. With the rapid development of the domestic semiconductor industry and the acceleration of the localization process, the scale of China's semiconductor metrology and inspection equipment market is expected to expand further.

Market growth drivers:

The advancement of 5G technology and the application of IoT technology have driven the demand for larger data traffic and higher computing power. The growing demand for related equipment products has driven the rapid growth of demand for semiconductor metrology and inspection equipment.

In the post-epidemic era, the overall demand for the medical electronics industry is expected to continue to rise, driving the expansion of the upstream semiconductor metrology and inspection equipment market.

Market trends:

Semiconductor equipment will develop in the direction of high precision and high integration. With the vigorous development of downstream industries, the demand for chips continues to grow, especially advanced process chips that require complex and numerous processes. The same output requires more processes, which means more metrology and inspection equipment.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Metrology and Inspection Equipment 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 Metrology and Inspection Equipment.

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

Segmentation by Type:

Optical

E-Beam

Segmentation by Application:

Lithography Metrology

Wafer Inspection

Thin Film Metrology

Others

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

Hitachi High-Technologies

ASML

Onto Innovation

Lasertec

SCREEN Semiconductor Solutions

ZEISS

Camtek

Toray Engineering

Muetec

Unity Semiconductor SAS

Microtronic

Skyverse

Nova

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Metrology and Inspection Equipment market?

What factors are driving Semiconductor Metrology and Inspection Equipment market growth, globally and by region?

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

How do Semiconductor Metrology and Inspection Equipment market opportunities vary by end market size?

How does Semiconductor Metrology and Inspection Equipment break out by Type, by Application?

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