

# Global Semiconductor Metrology and Inspection Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Semiconductor Metrology and Inspection market size will reach 19,740 Million USD in 2025 and is projected to reach 33,503 Million USD by 2032, with a CAGR of 7.85% (2025-2032). Notably, the China Semiconductor Metrology and Inspection market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Semiconductor metrology and inspection encompass the essential processes of measuring, analyzing, and inspecting semiconductor materials and devices throughout their manufacturing lifecycle. Metrology focuses on precise measurement and characterization of critical dimensions, structures, and properties of semiconductor components using advanced techniques such as scanning electron microscopy (SEM), atomic force microscopy (AFM), and X-ray diffraction (XRD). This ensures that semiconductor devices meet stringent design specifications and performance criteria. Inspection, on the other hand, involves the detection and identification of defects, anomalies, and irregularities in semiconductor wafers and chips using methods like optical inspection, electron beam inspection (EBI), and focused ion beam (FIB) techniques. These processes are vital for maintaining high manufacturing standards, optimizing yield, and ensuring the reliability and functionality of semiconductor devices used in electronics, telecommunications, automotive, and other industries.

The major global suppliers of Semiconductor Metrology and Inspection include KLA Corporation, Applied Materials, Onto Innovation (Rudolph Technologies), Thermo Fisher Scientific, Hitachi Hi-Technologies Corporation, Nova Measuring Instruments, ASML Holding, Lasertec Corporation, JEOL, Nikon Metrology, Camtek, Ueno Seiki, Microtronic, Toray Engineering, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Semiconductor Metrology and Inspection. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Semiconductor Metrology and Inspection market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Semiconductor Metrology and Inspection market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Semiconductor Metrology and Inspection industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Semiconductor Metrology and Inspection Include:

KLA Corporation

Applied Materials

Onto Innovation (Rudolph Technologies)

Thermo Fisher Scientific

Hitachi Hi-Technologies Corporation

Nova Measuring Instruments

ASML Holding

Lasertec Corporation

JEOL

Nikon Metrology

Camtek

Ueno Seiki

Microtronic

Toray Engineering

Semiconductor Metrology and Inspection Product Segment Include:

Wafer Inspection System

Mask Inspection Systems

Semiconductor Metrology and Inspection Product Application Include:

Large Enterprise

Small and Medium Enterprises (SMEs)

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Semiconductor Metrology and Inspection Industry PESTEL Analysis

Chapter 3: Global Semiconductor Metrology and Inspection Industry Porter's Five Forces Analysis

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