

Global Semiconductor Metrology and Inspection Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Metrology and Inspection market size was valued at USD 12830 million in 2022 and is forecast to a readjusted size of USD 18400 million by 2029 with a CAGR of 5.3% during review period.

Semiconductor Metrology and Inspection are important for the management of the semiconductor manufacturing process. There are 400 to 600 steps in the overall manufacturing process of semiconductor wafers, which are undertaken in the course of one to two months. If any defects occur early on in the process, all the work undertaken in the subsequent time-consuming steps will be wasted. The main segment in the report includes mask inspection, film inspection, optical inspection, wafer defect inspection, macro defect inspection and image wafer inspection, etc.

Global 5 largest manufacturers of Semiconductor Metrology and Inspection are KLA Corporation, Applied Materials, Hitachi High-Technologies, ASML and Onto Innovation, which make up over 75%. Among them, TELD is the leader with about 40% market share. Asia-Pacific is the largest market, with a share about 80%, followed by North America and Europe, with the share about 12% and 7%. In terms of product type, Defect Inspection Equipment occupy the largest share of the total market, about 58%. And in terms of product Application, the largest application is Wafer, followed by Mask/Film.

The Global Info Research report includes an overview of the development of the Semiconductor Metrology and Inspection industry chain, the market status of Wafer (Defect Inspection Equipment, Metrology Equipment), Mask/Film (Defect Inspection

Equipment, Metrology Equipment), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Semiconductor Metrology and Inspection.

Regionally, the report analyzes the Semiconductor Metrology and Inspection markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Semiconductor Metrology and Inspection market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Semiconductor Metrology and Inspection market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Semiconductor Metrology and Inspection industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Defect Inspection Equipment, Metrology Equipment).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Semiconductor Metrology and Inspection market.

Regional Analysis: The report involves examining the Semiconductor Metrology and Inspection market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Semiconductor Metrology and Inspection market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Semiconductor Metrology and Inspection:

Company Analysis: Report covers individual Semiconductor Metrology and Inspection manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Semiconductor Metrology and Inspection. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Wafer, Mask/Film).

Technology Analysis: Report covers specific technologies relevant to Semiconductor Metrology and Inspection. It assesses the current state, advancements, and potential future developments in Semiconductor Metrology and Inspection areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Semiconductor Metrology and Inspection market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Semiconductor Metrology and Inspection market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Defect Inspection Equipment

Metrology Equipment

Market segment by Application

Wafer

Mask/Film

Others

Major players covered

KLA Corporation

Applied Materials

Hitachi High-Technologies

ASML

Onto Innovation

Lasertec

SCREEN Semiconductor Solutions

ZEISS

Camtek

Toray Engineering

Muetec

Unity Semiconductor SAS

Microtronic

RSIC

Nova

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 Metrology and Inspection product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Metrology and Inspection, with price, sales, revenue and global market share of Semiconductor Metrology and Inspection from 2018 to 2023.

Chapter 3, the Semiconductor Metrology and Inspection competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Metrology and Inspection breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017

to 2022.and Semiconductor Metrology and Inspection market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semiconductor Metrology and Inspection.

Chapter 14 and 15, to describe Semiconductor Metrology and Inspection sales channel, distributors, customers, research findings and conclusion.

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