

Global Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

Semiconductor Inspection and Metrology Equipment is one of the core equipment in the integrated circuit production process and is the key to ensuring the yield rate of chip production. There are many steps in the integrated circuit manufacturing process and the process is extremely complex. There are hundreds of processes in the integrated circuit front-end manufacturing process alone. With the improvement of integrated circuit process nodes, the steps of the manufacturing process will continue to increase, and the number of fatal defects generated in the process will also increase. Therefore, the yield rate of each process must be maintained at an extremely high level of almost 'zero defects' Only in this way can the yield rate of the final chip be guaranteed.

Semiconductor Inspection and Metrology Equipment is mainly used in wafer manufacturing and advanced packaging. It mainly uses non-contact methods such as optical and electron beams for photolithography, etching, thin film deposition, cleaning, CMP, rewiring structures, bumps and Through silicon vias and other links are tested.

Inspection refers to detecting whether there are heterogeneous conditions on the wafer surface or in the circuit structure, such as particle contamination, surface scratches, open and short circuits and other characteristic structural defects that have a negative impact on the chip process performance;

Metrology refers to the quantitative description of the structural dimensions and material

properties of the observed wafer circuit, such as the measurement of physical parameters such as film thickness, critical dimensions, etching depth, and surface morphology.

According to the SEMI, global sales of semiconductor equipment was US\$ 109 billion in 2022, a year-on-year increase of 5.6%. Mainland China is the largest semiconductor equipment market in the world. For the third consecutive year, China remained the largest semiconductor equipment market in 2022 despite a 5% slowdown in the pace of investments in the region year over year, accounting for \$28.3 billion in billings. China Taiwan, the second-largest destination for equipment spending, recorded an increase of 8% to \$26.8 billion, marking the fourth straight year of growth for the region. Equipment sales to Korea contracted 14% to \$21.5 billion. Annual semiconductor equipment investments in Europe surged 93%, while North America logged a 38% increase. Sales to the Rest of World and Japan increased 34% and 7% year over year, respectively.

The Global Info Research report includes an overview of the development of the Semiconductor Inspection and Metrology Equipment industry chain, the market status of 8 Inch Wafer (Inspection Equipment, Metrology Equipment), 12-Inch Wafer (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 Inspection and Metrology Equipment.

Regionally, the report analyzes the Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment 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., 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 Inspection and Metrology Equipment market.

Regional Analysis: The report involves examining the Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment 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 Inspection and Metrology Equipment:

Company Analysis: Report covers individual Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (8 Inch Wafer, 12-Inch Wafer).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers,

the report present insights into the competitive landscape of the Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment 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

Inspection Equipment

Metrology Equipment

Market segment by Application

8 Inch Wafer

12-Inch Wafer

Others

Major players covered

KLA Corporation

Applied Materials

Hitachi High-Tech

NanoSystem Solutions

Onto Innovation

Camtek

Park System

ASML

ZEISS

Microtronic

Lasertec

Toray Engineering

Muetec

UnitySC

Takano Corporation

Wuhan Jingce Electronic Group

Shenzhen Nanolighting Technology

Zhongdao Optoelectronic Equipment

RSIC scientific instrument

Suzhou Secote Precision Electronic

Dongfang Jingyuan Electron

Yuwei Semiconductor Technology

Shenzhen Angstrom Excellence Technology

Nanjing Zhongan Semiconductor Equipment

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

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

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

Chapter 4, the Semiconductor Inspection and Metrology Equipment 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 Inspection and Metrology Equipment market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

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

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

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