

# Global Semiconductor Inspection Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Inspection Equipment market size was valued at USD 9529.3 million in 2023 and is forecast to a readjusted size of USD 12880 million by 2030 with a CAGR of 4.4% during review period.

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 semiconductor inspection equipment key players include KLA-Tencor, Applied Materials, Hitachi High-Technologies, ASML, Onto Innovation, etc. Global top 1 manufacturer hold a share over 30%. Asia-Pacific accounts for the most market share, which have a share over 77%, followed by North America. In terms of product, defect Inspection is the largest segment, with a production market share over 55%. And in terms of application, the largest application is wafer Inspection, followed by Mask/Film Inspection.

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

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

#### Key Features:

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

**Regional Analysis:** The report involves examining the Semiconductor Inspection 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 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 Equipment:

**Company Analysis:** Report covers individual Semiconductor Inspection 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 Equipment. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Semiconductor Wafer Inspection, Semiconductor Mask/Film Inspection).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Semiconductor Inspection 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 Equipment market is split by Type and by Application. For the period 2019-2030, 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

Semiconductor Wafer Inspection

Semiconductor Mask/Film Inspection

## Major players covered

KLA-Tencor

Applied Materials

Hitachi High-Technologies

ASML

Onto Innovation

Lasertec

ZEISS

SCREEN Semiconductor Solutions

Camtek

Veeco Instruments

Toray Engineering

Muetec

Unity Semiconductor SAS

Microtronic

RSIC scientific instrument

## DJEL

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

Chapter 2, to profile the top manufacturers of Semiconductor Inspection Equipment, with price, sales, revenue and global market share of Semiconductor Inspection Equipment from 2019 to 2024.

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

Chapter 4, the Semiconductor Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023.and Semiconductor Inspection Equipment market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Equipment.

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

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