

Global Semiconductor Inspection and Metrology Equipment Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Semiconductor Inspection and Metrology Equipment market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global Semiconductor Inspection and Metrology Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Inspection and Metrology Equipment, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Inspection and Metrology Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Inspection and Metrology Equipment total production and demand, 2018-2029, (Units)

Global Semiconductor Inspection and Metrology Equipment total production value, 2018-2029, (USD Million)

Global Semiconductor Inspection and Metrology Equipment production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Semiconductor Inspection and Metrology Equipment domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Inspection and Metrology Equipment production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Semiconductor Inspection and Metrology Equipment production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Semiconductor Inspection and Metrology Equipment market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KLA Corporation, Applied Materials, Hitachi High-Tech, NanoSystem Solutions, Onto Innovation, Camtek, Park System, ASML and ZEISS, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Inspection and Metrology Equipment market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Semiconductor Inspection and Metrology Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Inspection and Metrology Equipment Market, Segmentation by Type

Inspection Equipment

Metrology Equipment

Global Semiconductor Inspection and Metrology Equipment Market, Segmentation by Application

8 Inch Wafer

12-Inch Wafer

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Semiconductor Inspection and Metrology Equipment market?
2. What is the demand of the global Semiconductor Inspection and Metrology Equipment market?
3. What is the year over year growth of the global Semiconductor Inspection and Metrology Equipment market?
4. What is the production and production value of the global Semiconductor Inspection and Metrology Equipment market?
5. Who are the key producers in the global Semiconductor Inspection and Metrology Equipment market?

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