

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

<https://marketpublishers.com/r/GEAE277872D1EN.html>

Date: August 2023

Pages: 115

Price: US\$ 4,480.00 (Single User License)

ID: GEAE277872D1EN

Abstracts

The global Semiconductor Metrology and Inspection market size is expected to reach \$ 18400 million by 2029, rising at a market growth of 5.3% CAGR during the forecast period (2023-2029).

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.

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.

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

This report is a detailed and comprehensive analysis of the world market for Semiconductor Metrology and Inspection, 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 Metrology and Inspection that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This reports profiles key players in the global Semiconductor Metrology and Inspection 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-Technologies, ASML, Onto Innovation, Lasertec, SCREEN Semiconductor Solutions, ZEISS and Camtek, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Metrology and Inspection Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Metrology and Inspection Market, Segmentation by Type

Defect Inspection Equipment

Metrology Equipment

Global Semiconductor Metrology and Inspection Market, Segmentation by Application

Wafer

Mask/Film

Others

Companies Profiled:

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

Key Questions Answered

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

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