

Semiconductor Metrology and Inspection Equipment Market Revenues to Reach USD 12.82 billion by 2028 - Market Size, Share, Forecasts, & Trends Analysis Report by Mordor Intelligence

According to a new market research report titled "[Global Semiconductor Metrology and Inspection Equipment Market Report \(2023-2028\)](#)," the market is estimated at USD 9.95 billion in 2023. It is expected to register a CAGR of 5.20% during the forecast period.

The semiconductor manufacturing process involves 400 to 600 steps and takes one to two months to complete. Semiconductor manufacturers need additional metrology support at times to avoid wastage of time and resources, as the demand for semiconductors is increasing day by day. This is where semiconductor metrology and inspection play a crucial role in this process.

Report Summary:

Report Attribute	Details
Market Size (2023)	USD 9.95 billion
Market Size (2028)	USD 12.82 billion
CAGR (2023-2028)	5.20%
Study Period	2018-2028
Fastest Growing Market	Asia-Pacific
Largest Market	Asia-Pacific
Forecast Units	Value (USD billion)
Report Scope	Market Dynamics, Revenue Forecast and Segmentation, Competitive Landscape and Recent Developments, Market Growth, Future Opportunities, and Trends
Key Market Drivers	The emergence of the Internet of Things (IoT).
	New manufacturing techniques and device architectures in production.
	Increasing demand for electronic products.

Who are the Top Companies in the Global Semiconductor Metrology and Inspection Equipment Market?

There are several regional and international players in the global semiconductor metrology and inspection equipment market, making it highly competitive in nature. Every player is investing heavily in innovation and is coming up with novel product offerings.

The significant players in the global semiconductor metrology and inspection equipment market in 2023 are:

- KLA Corporation
- Applied Materials Inc.
- Onto Innovation Inc.

- Thermo Fisher Scientific Inc.
- Hitachi Hi-Technologies Corporation (Hitachi Limited)
- Nova Measuring Instruments Ltd
- ASML Holding NV
- Lasertec Corporation
- JEOL Ltd
- Nikon Metrology NV
- Camtek Limited

Other Reports That Might Be of Your Interest:

- [Semiconductor Advanced Substrate Market Report](#) - The semiconductor advanced substrate market is anticipated to register a CAGR of 6.81% over the next five years.
- [Semiconductor Foundry Market Report](#) - The semiconductor foundry market size is expected to grow from USD 143.12 billion in 2023 to USD 203.94 billion by 2028, at a CAGR of 7.34% during the forecast period (2023-2028).

Key Highlights from the Global Semiconductor Metrology and Inspection Equipment Market Report:

Consumer Electronics Pushing the Demand for Semiconductor Wafers

- As the world is adopting more and more connected smart devices, semiconductor metrology technology is witnessing innovation to enable large-scale production of semiconductors with low error rates.
- The smartphone market, for example, is extremely competitive and requires a lot of semiconductors. The widespread adoption of 5G technology globally is expected to boost the demand for semiconductors further, making metrology for the next generation of semiconductor devices even more important.

Semiconductor Race in Asia-Pacific

- In terms of consumption and manufacture of semiconductors, Asia-Pacific holds tremendous possibilities and prominence in the global space.
- China accounts for the most significant share of the semiconductor industry in the region. However, trade disturbance between the United States and China is a matter of concern. Despite this challenge, domestic semiconductor companies are investing more to increase their capacity, indicating a positive time ahead.

What are the Latest Developments in the Global Semiconductor Metrology and Inspection Equipment Market?

- In December 2022, KLA Corporation launched the new Axion T2000 X-ray metrology system for advanced memory chip manufacturers. It offers unprecedented resolution, accuracy, precision, and speed.
- In June 2022, Onto Innovation Inc. shipped the Dragonfly G3 system with the new EB40 module that has advanced capabilities to address yield loss to a top-three semiconductor manufacturer.

Mordor Intelligence has Segmented the Global Semiconductor Metrology and Inspection Equipment Market Based on Type and Geography.

- By Type (Market Size and Forecast based on Value (USD billion), 2018-2028)
 - Lithography Metrology
 - Overlay
 - Dimension Equipment
 - Mask Inspection and Metrology
 - Wafer Inspection
 - Thin Film Metrology
 - Other Process Control Systems

- By Geography (Market Size and Forecast based on Value (USD billion), 2018-2028)
 - North America
 - Europe
 - Asia Pacific
 - Rest of the World

In a nutshell, the Mordor Intelligence market research report is a must-read for start-ups, industry players, investors, researchers, consultants, business strategists, and all those who are looking to understand this industry. Get a glance at the [Global Semiconductor Metrology and Inspection Equipment Market Report \(2023-2028\)](#).

Mordor Intelligence constantly tracks industry trends. Some relevant market reports from the analysts that might be of interest to you:

- [Semiconductor Wafer Polishing and Grinding Equipment Market Report](#) - The semiconductor wafer polishing and grinding equipment market is expected to register a CAGR of 4.1% over the next five years.
- [Laser Market for Semiconductor Industry Report](#) - The laser market for the semiconductor industry is anticipated to register a CAGR of 7.4% over the next five years.
- [Semiconductor Laser Equipment Market Report](#) - The semiconductor laser equipment market is expected to register an approximate CAGR of 5.6% throughout the next five years.

About Mordor Intelligence:

[Mordor Intelligence](#) is a market intelligence and advisory firm. At Mordor Intelligence, we believe in predicting butterfly effects that have the potential to change or significantly impact market dynamics.

Our market research reports are comprehensive and provide exclusive data, facts and figures, trends, and the competitive landscape of the industry.