

Metrology Services Market to Reach USD 2 Billion by 2035 | KLA Corporation, Hexagon AB, Carl Zeiss AG Lead – Fact.MR

Metrology Services Market Analysis - Size, Share and Forecast 2025 to 2035

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The global [metrology services market](#) is forecast to reach USD 2 billion by 2035, up from USD 1.1 billion in 2025. During the forecast period, the industry is projected to register at a CAGR of 6.1%. This robust expansion is driven by increasing demand for precision measurement solutions

across industries such as aerospace, automotive, and power generation, fueled by advancements in industrial automation, Industry 4.0 practices, and stringent quality standards. The United States, China, and Japan are key growth regions, with aerospace remaining the dominant application segment. However, challenges such as high equipment costs, a shortage of skilled metrologists, and integration complexities may pose hurdles. Despite these, technological innovations and the rise of smart manufacturing are creating significant opportunities for market players to capitalize on over the forecast period.

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Metrology Services Market Technology Development

Technological advancements are transforming the metrology services market, with a strong emphasis on automation, precision, and digital integration. The adoption of advanced tools like Coordinate Measuring Machines (CMMs), 3D laser scanners, and optical digitizers is enhancing measurement accuracy and efficiency. CMMs remain the dominant technology due to their precision and versatility in measuring complex geometries, particularly in aerospace and automotive applications. Meanwhile, Optical Digitizers and Scanners (ODS) are the fastest-



Metrology Services Market

growing segment, driven by their non-contact, high-speed capabilities, which are ideal for delicate materials and intricate designs in electronics and medical device manufacturing.

The integration of artificial intelligence (AI) and cloud-based metrology software is revolutionizing the industry. AI-powered systems reduce inspection times and improve data analysis, enabling real-time quality control and predictive maintenance. For example, Hexagon AB's September 2024 innovation combines laser tracking with radar functionality, allowing manufacturers to measure detailed features from a distance, streamlining large-scale inspections.

Metrology Services Market Demand and Impact Analysis

The demand for metrology services is driven by the need for precision in manufacturing, particularly in industries with stringent quality and safety standards. The aerospace sector, which commands the largest market share, relies heavily on metrology to ensure compliance with global regulations for components like turbine blades and fuselage panels. The automotive and electronics industries also contribute significantly, driven by product miniaturization and zero-defect quality systems. The power generation sector is emerging as the fastest-growing end-use application, fueled by investments in renewable energy and smart grid infrastructure, which require precise measurements for components like wind turbine blades and nuclear containment vessels.

Metrology Services Market Analysis by Top Investment Segments

The metrology services market is segmented by type (Coordinate Measuring Machines and Optical Digitizers and Scanners) and end-use application (aerospace, automotive, power generation, industrial, and others). CMMs dominate the type segment due to their high precision, repeatability, and compatibility with automated production lines. They are widely used in industries requiring complex dimensional inspections, such as aerospace and heavy machinery. ODS, however, are the fastest-growing segment, driven by their portability, speed, and ability to capture detailed surface data, making them ideal for additive manufacturing and electronics.

Metrology Services Market Across Top Countries

1. United States: The U.S. market is growing at a CAGR of 5.8% through 2035, fueled by its advanced manufacturing sector and early adoption of Industry 4.0 practices. Aerospace, automotive, and defense industries drive demand, with innovations like AI-integrated metrology and cloud-based platforms enhancing efficiency. Challenges include a shortage of skilled metrologists and complex calibration needs in emerging sectors like semiconductors and electric vehicle (EV) battery production.

2. Europe: Countries like Germany, France, and the UK are seeing steady growth, driven by precision engineering and strict compliance standards. The region's focus on nano-metrology

and R&D in advanced manufacturing supports market expansion. Asia-Pacific, led by China and India, is the fastest-growing region due to rapid urbanization and export-driven manufacturing.

Leading Metrology Services Companies and Their Industry Share

The metrology services market is competitive, with global leaders like KLA Corporation, Hexagon AB, Carl Zeiss AG, Jenoptik, SGS Group, Intertek Group Plc., Renishaw PLC, and Faro Technologies dominating the landscape. These companies leverage advanced technologies, strategic partnerships, and extensive service networks to maintain market share. Hexagon AB and Carl Zeiss AG are notable for their innovations, such as Hexagon's laser tracking solution and ZEISS's Smartzoom 100 microscope. SGS Group and Intertek Group Plc. excel in providing outsourced calibration and inspection services, catering to global supply chains.

Metrology Services Market Historic and Future Pathway Analysis

Historically, the metrology services market has grown steadily, driven by increasing quality requirements and manufacturing complexity. From 2020 to 2024, the market saw a shift toward automated and non-contact metrology solutions, spurred by Industry 4.0 adoption and the rise of additive manufacturing. The market size is projected to grow from USD 1.1 billion in 2025 to USD 2 billion by 2035, reflecting a CAGR of 6.1%. The first half of the forecast period (2025–2030) will see steady growth, reaching USD 1.48 billion, driven by aerospace, automotive, and electronics demand.

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Metrology Services Industry News

Recent developments highlight the market's innovation-driven growth. In May 2025, ZEISS launched the Smartzoom 100, a digital microscope for rapid quality checks, enhancing optical inspection capabilities. In September 2024, Hexagon AB introduced a laser tracking and radar hybrid technology, reducing inspection delays in large-scale manufacturing. These advancements reflect the industry's focus on speed, precision, and automation. Strategic partnerships, such as those between metrology providers and OEMs, are expanding service offerings.

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