

Metrology Services Market Report by Product (Coordinate Measuring Machines (CMM), Optical Digitizers and Scanners (ODS)), Application (Automotive, Aerospace, Industrial, Power Generation, and Others), and Region 2024-2032

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Abstracts

The global metrology services market size reached US\$ 812.1 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,264.2 Million by 2032, exhibiting a growth rate (CAGR) of 4.9% during 2024-2032.

Metrology services refer to the scientific field concerned with the study of measurements generally used by manufacturing industries to standardize machinery. They operate on the principle of measurement uncertainty, which represents an expression of the statistical dispersion. Metrology services involve testing, calibrating, and weight opening as the main procedures performed through coordinate measurement machines (CMM), optical digitizers, and laser scanners. These devices assist in providing precise measurement of customized components, performing three-dimensional (3D) color scanning, inspecting computer-aided designs (CADs), and examining multiple products with higher accuracy. Consequently, metrology services are extensively used across several sectors to analyze the product material, surface and grain sizing.

Metrology Services Market Trends:

The widespread adoption of metrology services across various industrial verticals can be attributed to the increasing need for effective product measuring solutions to evaluate the geometrical properties of assemblies while ensuring design accuracy and item quality at low-operational expenses. Additionally, the significant expansion in the automotive and aerospace sectors has facilitated the extensive utilization of metrology

services for mass manufacturing identical automobile components, including motors, rotators and other sophisticated equipment, which is acting as another growth-inducing factor. In line with this, the large-scale integration of the Industrial Internet of Things (IIoT) and computer-aided manufacturing (CAM) solutions for optimizing the production process and mitigating item defects are contributing to the market growth. Moreover, the introduction of several cloud-enabled metrology software packages, such as geometric dimensioning, laser scanning technology, and multisensory and robotic metrology, are supporting the market growth. Other factors, including the escalating demand for production automation in the manufacturing sector, continuous investments by governmental bodies to strengthen industrial infrastructure, and strategic collaborations amongst key players to engineer high-performance metrology services, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global metrology services market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product and application.

Breakup by Product:

- Coordinate Measuring Machines (CMM)
- Gantry Machines
- Bridge Machines
- Articulated Arm Machines
- Horizontal Arm Machines
- Optical Digitizers and Scanners (ODS)
- 3D Laser Scanners
- White Light Scanners
- Laser Trackers

Breakup by Application:

- Automotive
- Aerospace
- Industrial
- Power Generation
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Carl Zeiss AG, Creaform Inc. (AMETEK Inc.), FARO Technologies, Hexagon AB, Intertek Group plc, Jenoptik AG, KLA Corporation, Metrologic Group (Sandvik AB), Nikon Corporation, Renishaw plc and SGS S.A.

Key Questions Answered in This Report:

How has the global metrology services market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global metrology services market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global metrology services market and who are the key players?

What is the degree of competition in the industry?

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