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Industrial Metrology Market Size, Share & Trends Analysis Report By Offering (Hardware, Software, Services), By Application (Reverse Engineering, Mapping & Modeling, Quality Control & Inspection), By Equipment, By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Industrial Metrology Market Size & Trends

The global industrial metrology market size was estimated at USD 13.27 billion in 2024 and is projected to grow at a CAGR of 6.1% from 2025 to 2030. This growth is largely fueled by the increasing need for precision in smart manufacturing environments.

As manufacturers embrace automation, digital twins, and real-time quality monitoring, metrology tools have become essential for maintaining dimensional accuracy and optimizing process efficiency. Industries such as aerospace, automotive, and electronics are particularly reliant on advanced technologies like high-resolution scanners and computed tomography systems to ensure product compliance.

This rising reliance on cutting-edge inspection solutions is solidifying industrial metrology's position as a key enabler of productivity and operational excellence, driving the market's continued expansion.

The growing complexity of components in sectors such as aerospace, electronics, and medical devices is driving increased demand for non-contact measurement within the industrial metrology industry. Laser scanners and optical systems provide fast, accurate, and damage-free inspection, making them ideal for fragile, small, or intricately shaped parts where traditional contact methods are insufficient. The precision and speed of non-contact systems are rapidly establishing them as essential tools in modern quality control processes.

3D scanning technologies are gaining significant traction in the industrial metrology industry as manufacturers seek efficient methods to capture accurate data for reverse engineering, prototyping, and inspection. The high-fidelity digitization of parts supports digital twin initiatives and shortens product development cycles. Industries like automotive and construction are leveraging 3D scanning to accelerate innovation, reinforcing metrology’s role in comprehensive product lifecycle management.

Cloud computing is emerging as a crucial enabler within the industrial metrology industry, facilitating remote measurement, centralized data management, and cross-facility collaboration. Manufacturers are adopting cloud-based metrology software to streamline operations and integrate metrology into broader global digital platforms. This shift enhances scalability, improves version control, and provides real-time visibility into quality metrics, transforming metrology into a connected, enterprise-level solution.

The rise of 3D printing is fueling demand in the industrial metrology industry for solutions capable of validating complex internal geometries and unconventional part designs. Computed tomography (CT) scanning and high-resolution 3D scanning technologies are enabling effective inspection of additive manufacturing components. As additive manufacturing advances into high-value production, the need for reliable measurement grows, driving innovation in inspection tools tailored to additive workflows.

Industries with strict quality standards-such as aerospace, automotive, and medical devices-are increasingly relying on the industrial metrology industry to meet compliance requirements. Automated data capture and audit-ready documentation are essential for adhering to international regulations. This regulatory pressure is accelerating the adoption of advanced metrology systems across supply chains, positioning metrology as a strategic enabler of certification, traceability, and quality assurance.

Global Industrial Metrology Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest technological trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global industrial

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metrology market report based on offering, equipment, application, end-use, and region:

Offering Outlook (Revenue, USD Billion, 2018 - 2030)

Hardware

Software

Services

Equipment Outlook (Revenue, USD Billion, 2018 - 2030)

Optical Digitizer and Scanner (ODS)

Measuring Instruments

X-Ray and Computed Tomography

Coordinate Measuring Machine (CMM)

Others

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Reverse Engineering

Mapping and Modeling

Quality Control & Inspection

Others

End-use Outlook (Revenue, USD Billion, 2018 - 2030)

Aerospace & Defense

Automotive

Architecture & Construction

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Medical

Semiconductor & Electronics

Energy and Power

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

- U.S.
- Canada
- Mexico

Europe

- UK
- Germany
- France

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia

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Latin America

Brazil

Middle East & Africa

Saudi Arabia

South Africa

UAE

Companies Mentioned

AccuScan
Baker Hughes Company
Carl Zeiss AG
Creaform
FARO
Hexagon AB
JENOPTIK
KEYENCE CORPORATION
KLA Corporation
Mitutoyo Corporation
Nikon Corporation
Nordson Corporation

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