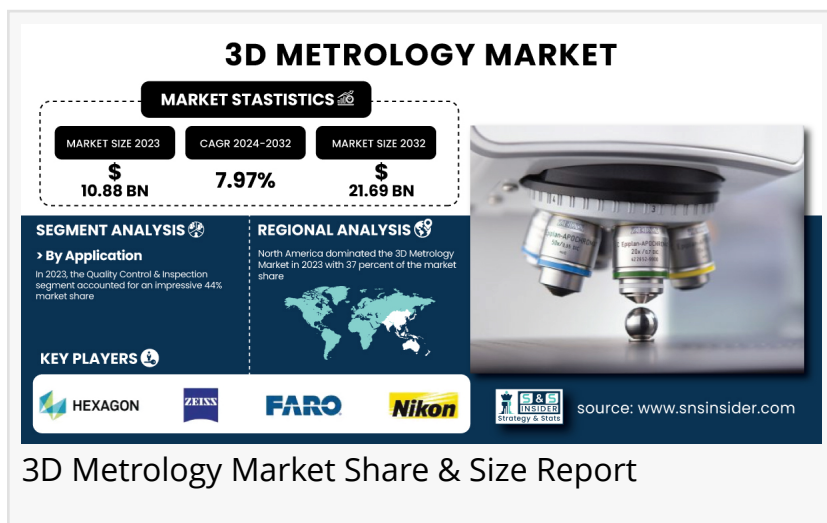


# 3D Metrology Market to Exceed USD 21.69B by 2032 Driven by Growing Adoption of Advanced Metrology Solutions

*The 3D Metrology Market is growing rapidly due to rising demand for precision in automotive, aerospace, and electronics.*

AUSTIN, TX, UNITED STATES, January 24, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

According to the SNS Insider Report, "The [3D Metrology Market size](#) was USD 10.88 Billion in 2023 and is expected to reach USD 21.69 Billion by 2032, growing at a CAGR of 7.97% over the forecast period of 2024-2032."



Global Growth and Innovation Drive the 3D Metrology Market.

The 3D Metrology Market has seen significant growth, fueled by increasing demand for precision in industries like automotive, aerospace, and electronics. Japan, China, the USA, Germany, and India are at the forefront of adopting advanced metrology solutions. Government initiatives such as Japan's Industry 4.0 and China's Made in China 2025 are driving the adoption of these solutions. Technological advancements such as AI-driven tools and next-generation laser scanners are revolutionizing the market. Investments in smart manufacturing and IoT are creating new opportunities for real-time monitoring and optimizing production processes, further pushing the market's development.

Get a Sample PDF of 3D Metrology Market (with Full TOC & Graphs) @ <https://www.snsinsider.com/sample-request/1470>

SWOT Analysis of Key Players as follows:

- Hexagon AB
- Carl Zeiss AG
- FARO Technologies Inc.

- Nikon Metrology NV
- Mitutoyo Corporation
- Creaform Inc.
- Keyence Corporation
- GOM GmbH
- Renishaw Plc
- Perceptron Inc.
- 3D Systems Corporation
- Wenzel Group
- KLA Corporation
- Trimble Inc.
- Ametek Inc.
- Leica Microsystems
- Automated Precision Inc.
- Eley Metrology
- InnovMetric Software Inc.
- Photoneo.

## Segment Analysis

### By Applications

In 2023, the Quality Control & Inspection segment led the market, accounting for 44% of the market share. This is because defect detection and process optimization in industries such as automotive, aerospace, and electronics are becoming major concerns. There is a need for accurate quality control that will meet the specified product requirements to minimize waste and raise customer satisfaction levels.

The 3D Scanning segment is expected to grow at the fastest CAGR of 11.77% between 2024 and 2032. This growth, having the rapidity of having advanced scanning technologies adopted by more and more, analyzes complex geometries and directly helps industries in doing work with greater precision and efficiency. With the integration of 3D scanning and merging into technologies with digital twin and IoT platforms.

### By Offerings

The Hardware segment dominated the market in 2023, accounting for the largest share of 29%. This is because hardware components such as 3D scanners, coordinate measuring machines (CMMs), and laser trackers are vital for precision measurement and quality control in various industries. Continuous advancements in sensor technologies and the increasing demand for precise measurement instruments drive the dominance of the hardware segment.

The Services segment, however, is expected to grow at the fastest rate, with a projected CAGR of

12.47% over the forecast period. The increasing demand for specialized metrology services, such as calibration, maintenance, and data analysis, is driving this segment. Moreover, the increasing trend of cloud-based solutions and data analytics contributes to the growth of services like real-time monitoring and predictive maintenance.

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#### KEY MARKET SEGMENTS:

##### By Offering

Hardware

Software

Services

After-Sales Service

Software-as-a-Service

Storage-as-a-Service

Measurement Services

##### By Product

Coordinate Measuring Machine (CMM)

Video Measuring Machine (VMM)

Optical Digitizing and Scanning (ODS)

3D Automated Optical Inspection System

Form Measurement

Others

##### By Application

Quality Control & Inspection

Virtual Simulation

3D Scanning

Reverse Engineering

Others

##### By End-User

Aerospace & Defense

Automotive

Architecture & Construction

Medical

Semiconductors & Electronics

Energy & Power

Heavy Machinery

Mining

Others

## Regional Development

In 2023, North America led the 3D Metrology Market, capturing 37% of the market share. Such a region is dominated by major industries like aerospace, automotive, and electronics. Out of these three, the United States is larger in this region simply because it has a higher adoption level for more advanced metrology solutions due to the huge investment in research and development, as well as government policies that favor manufacturing excellence and innovation.

The Asia Pacific region, however, is expected to lead in terms of growth, with a projected CAGR of 8.35% between 2024 and 2032. This region has experienced massive industrialization and expansion in the manufacturing sectors, mainly in China, Japan, and India. The adoption of 3D metrology solutions is growing in these countries because of huge manufacturing operations and government initiatives like Made in China 2025 and Japan's promotion of precision engineering.

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## Recent Developments

May 2024: Hexagon introduced two portable 3D scanners for aerospace manufacturing and MRO (Maintenance, Repair, and Overhaul) inspections. The Atlascan Max and Marvelscan are handheld 3D scanning products that can be used indoors and outdoors, including on the factory shopfloor. These scanners are ideal for handheld scanning, automated quality inspection, and reverse engineering applications.

September 2024: Nikon Metrology issued a comprehensive update to the automotive measurement standards in collaboration with the German Association of the Automotive Industry (VDA). The update, which is included in Volume 5.1 of the VDA standards, reflects the growing demand for diverse and sophisticated metrology solutions within the automotive industry.

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