

North America 3D Metrology Market Forecast to 2031 - Regional Analysis - by Product (Hardware, Services, and Software), Hardware (Coordinate Measuring Machine, Optical Digitizer and Scanner, Video Measuring Machine, 3D Automated Optical Inspection, and Others), Application (Quality Control and Inspection, Reverse Engineering, Virtual Simulation, and Others), and End User (Automotive, Electronics, Aerospace and Defense, Medical, Energy and Power, Heavy Machinery, and Others)

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Abstracts

The North America 3D metrology market was valued at US\$ 3,524.50 million in 2023 and is expected to reach US\$ 7,035.73 million by 2031; it is estimated to register a CAGR of 9.0% from 2023 to 2031.

Growing Adoption of Cloud Computing Fuel North America 3D Metrology Market

Cloud computing enhances manufacturing operations by leveraging computing power, big data processing, and decision-making based on insights. Hence, it is a vital tool for the modern manufacturing sector. The use of cloud computing in manufacturing has increased dramatically, from supply chain management to acquiring machine environmental data through Internet of Things apps and other cutting-edge technology. Manufacturers can use cloud-based IoT solutions to obtain machine data in real time from the shop floor. Machine data assists producers in monitoring the machine's availability at the plant, productivity, energy consumption, machine maintenance, and



output quality. This aids manufacturers in the planning of production activities based on the availability and performance of their machines. Additionally, because cloud services offer a wide range of security solutions, cloud-based tools guarantee improved data security. The data encryption and deterrents offered by all cloud computing technologies enable manufacturers to use cloud-based solutions. Moreover, one of the main reasons for the adoption of cloud technologies by manufacturing organizations is cost reduction. Manufacturers can save a lot of money on online solutions, processing power, data storage, and other IT resource expenditures by utilizing cloud computing. As cloud computing provides a flexible and scalable infrastructure that helps in machine monitoring, data storage and security, and cost reduction, its adoption is increasing. The growing adoption of cloud computing is anticipated to be a major trend in the North America 3D metrology market during the forecast period.

North America 3D Metrology Market Overview

North America includes the US, Canada, and Mexico. The availability of efficient infrastructure in these countries has enabled manufacturing companies to expand in the region. The US possesses modern technology, a high standard of living, well-developed infrastructure, and many other aspects of being a developed nation. In addition, for the growth of the manufacturing industry, the governments of various North American countries are taking various steps. The US legislation encourages manufacturing enterprises to develop, construct, and deliver in North America. The bipartisan CHIPS and Science Act of 2022 was created mainly to oppose China, with the goal of increasing local high-tech research and chip production. By offering resources and incentives to develop manufacturing jobs, improve supply chains, and strengthen American leadership in emerging technologies, the law significantly impacts the manufacturing sector in the US. Thus, the government's support for the growth of the manufacturing sector is driving the North America 3D metrology market in the region.

The region has a very strong automotive sector. Also, countries in the region are witnessing a rise in EV production. According to the National Automobile Dealers Association (NADA), fully electric vehicles accounted for approximately 7% of North America's total car production in December 2022, which increased from 4.7% in December 2021. This rise in the production of EVs is increasing the demand for 3D metrology in the region. All these factors are fueling the growth of the North America 3D metrology market.

North America 3D Metrology Market Revenue and Forecast to 2031 (US\$ Million)



North America 3D Metrology Market Segmentation

The North America 3D metrology market is categorized into product, hardware, application, end user, and country.

Based on product, the North America 3D metrology market is segmented hardware, services, and software. The hardware segment held the largest market share in 2023. The hardware segment is further subsegmented into coordinate measuring machine, optical digitizer and scanner, video measuring machine, 3D automated optical inspection, and others.

Based on application, the North America 3D metrology market is segmented into quality control and inspection, reverse engineering, virtual simulation, and others. The quality control and inspection segment held the largest market share in 2023.

In terms of end user, the North America 3D metrology market is segmented into automotive, electronics, aerospace and defense, medical, energy and power, heavy machinery, and others. The automotive segment held the largest market share in 2023.

By country, the North America 3D metrology market is segmented into the US, Canada, and Mexico. The US dominated the North America 3D metrology market share in 2023.

Artec Europe, Creaform Inc, FARO Technologies Inc, Hexagon AB, Intertek Group Plc, Keyence Corp, Mitutoyo America Corporation, Nikon Metrology NV, Shining 3D Tech Co Ltd, and ZEISS Group are among the leading companies operating in the North America 3D metrology market.



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