

Global Coordinate Measuring Machines (CMMs) Market 2023

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Abstracts

Description

The global coordinate measuring machine (CMM) market is poised for substantial growth in the coming years, as recent data projections indicate an anticipated increase of USD 1.5 billion, with a projected compound annual growth rate (CAGR) of 7.2% by the end of 2029. Coordinate measuring machines, commonly referred to as CMMs, represent a sophisticated class of dimensional metrology systems that utilize probing sensors to precisely determine an object's geometric characteristics based on defined spatial coordinates. This capability enables detailed quality assurance testing against engineering specifications, making CMMs indispensable tools in modern manufacturing and industrial settings.

Manufacturing organizations are increasingly turning to CMMs as their preferred dimensional metrology systems due to the multitude of benefits they offer over conventional Go/No-Go gauging methods. As production processes become more intricate and demanding, there has been a surge in the demand for cost-effective, highly-accurate measurement solutions capable of validating complex part geometries across diverse industries. CMMs are uniquely positioned to address this need, offering programmable verification of diverse components within specified tolerances, thereby ensuring the precision and quality of manufactured parts.

Moreover, the continuous technical evolution of CMM technologies over the past four decades has solidified their functionality and expanded their applicability across various industries. This evolution has given rise to a diverse range of CMM variants, including bridge CMMs, gantry CMMs, horizontal-arm CMMs, articulated-arm CMMs, and handheld CMMs, each tailored to address a widening span of applications based on

their unique capabilities. From research and development to the manufacturing cycle, these CMM variants have played a pivotal role in meeting the escalating precision requirements in industries such as automotive and aerospace manufacturing.

The automotive industry, in particular, has witnessed a significant increase in the adoption of CMMs, driven by the need for stringent quality control and precision measurement in the production of complex automotive components. CMMs enable automotive manufacturers to conduct comprehensive dimensional inspections, ensuring that critical components such as engine parts, chassis components, and body panels meet exacting quality standards. This has not only enhanced the overall quality and reliability of automotive products but has also contributed to the optimization of manufacturing processes and the reduction of production costs.

Similarly, the aerospace manufacturing sector has embraced CMMs as indispensable tools for ensuring the precision and accuracy of critical aircraft components. The stringent regulatory requirements and uncompromising safety standards in the aerospace industry necessitate the use of advanced metrology systems like CMMs to validate the dimensional integrity of components such as turbine blades, airframe structures, and landing gear. The ability of CMMs to perform detailed and accurate measurements has been instrumental in upholding the highest standards of quality and safety in aerospace manufacturing.

Market Segmentation

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, end user, and region.

Product: portable CMMs, stationary CMMs

Stationary CMMs: bridge CMM, gantry CMM, horizontal-arm CMM

Portable CMMs: articulated-arm CMM, handheld CMM

End user: aerospace and defense, automotive, electrical and electronics, energy and power, heavy machinery, others

Region: North America, Asia-Pacific, Europe, Rest of the World (ROW)

The global market for coordinate measuring machines (CMMs) can be segmented by product into portable CMMs and stationary CMMs. According to recent research, the stationary CMMs segment held the largest share in the global CMMs market. Within the stationary CMMs segment, further segmentation includes bridge CMMs, gantry CMMs, and horizontal-arm CMMs. The latest analysis indicates that the bridge CMM segment occupied the largest share of this market in 2022 and is expected to continue drawing the highest demand in the coming years. Additionally, the portable CMMs market has been categorized into articulated-arm CMMs and handheld CMMs, with the articulated-arm CMM segment representing the largest share of the global CMMs market.

Furthermore, the CMMs market is segmented by end user, encompassing industries such as aerospace and defense, automotive, electrical and electronics, energy and power, heavy machinery, and others. Notably, the automotive industry emerged as the largest revenue contributor to the global coordinate measuring machines market, representing 35.1% of the market in 2022. During the forecast period, the automotive segment is projected to witness the highest growth rate.

In terms of regional segmentation, the CMMs market is divided into North America, Asia-Pacific, Europe, and the Rest of the World (ROW). Among these, Asia-Pacific accounted for the highest revenue generation in 2022, establishing itself as the largest CMMs market by region, contributing over 40% of the global revenue. The region's mix of developed and emerging economies has collectively driven the increased demand for CMMs for manufacturing and development applications. Notably, China leads the demand for CMMs across all verticals due to its well-established manufacturing ecosystem. Within the Asia-Pacific region, bridge CMMs and the automotive vertical are expected to lead the revenue generation.

Major Companies and Competitive Landscape

The report explores the recent developments and profiles of key vendors in the Global Coordinate Measuring Machines Market, including Aberlink Ltd., Accurate Gauging & Instruments Pvt Ltd, Automated Precision, Inc (API), Carl Zeiss AG, Creaform Inc., Dukin Co., Ltd., Eley Metrology Ltd., FARO Technologies, Inc., GOM GmbH, Helmel Engineering Products, Inc., Hexagon AB, Innovalia Metrology, ITP Group Ltd, Keyence Corporation, Kreon Technologies, Metronor AS, Mitutoyo Corporation, MORA Metrology GmbH, Nikon Metrology NV, Perceptron, Inc., Stiefelmayer GmbH & Co Kg, TARUS Products Inc, Tokyo Seimitsu Co., Ltd., TRIMOS SA, WENZEL Group GmbH & Co. KG, Werth Messtechnik GmbH, Xi'an High-Tech AEH Industrial Metrology Co., Ltd., among others. In this report, key players and their strategies are thoroughly analyzed to

understand the competitive outlook of the market.

Scope of the Report

To analyze and forecast the market size of the global CMMs market.

To classify and forecast the global CMMs market based on product, end user, region.

To identify drivers and challenges for the global CMMs market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global CMMs market.

To identify and analyze the profile of leading players operating in the global CMMs market.

Why Choose This Report

Gain a reliable outlook of the global CMMs market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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