

Global 3D Metrology Market 2023-2029

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Abstracts

3D metrology is a blanket term for a range of scanning technologies that can be used for quality control and various other applications in a manufacturing or production environment. 3D metrology creates a full 3D representation of the component being measured and can then present a colour map of where on the part the tolerances are out of spec when compared to its nominal dimensions. This information can then be fed back into the manufacturing of new parts to improve each consecutive part and maintain the highest levels of accuracy. The global 3D metrology market size is projected to grow by USD 6.2 billion from 2023 to 2029, registering a CAGR of 9.1 percent, according to a new report by Gen Consulting Company.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global 3D metrology market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the component, product, application, end user, and region. The global market for 3D metrology can be segmented by component: hardware, software, services. The hardware segment is estimated to account for the largest share of the global 3D metrology market. 3D metrology market is further segmented by product: coordinate measuring machine (CMM), optical digitizer and scanner (ODS), video measuring machine (VMM), 3D automated optical inspection (AOI), form measurement. The CMM segment held the largest revenue share in 2022. Based on application, the 3D metrology market is segmented into: 3D scanning, quality control and inspection, reverse engineering, virtual simulation. Globally, the quality control and inspection segment made up the largest share of the 3D metrology market. On the basis of end user, the 3D metrology market also can be divided into: aerospace and defense,

automotive, construction and engineering, electronics, energy and power, healthcare, heavy machinery, mining, others. The automotive segment was the largest contributor to the global 3D metrology market in 2022. 3D metrology market by region is categorized into: Asia Pacific, Europe, North America, Rest of the World (RoW).

Market Segmentation

By component: hardware, software, services

By product: coordinate measuring machine (CMM), optical digitizer and scanner (ODS), video measuring machine (VMM), 3D automated optical inspection (AOI), form measurement

By application: 3D scanning, quality control and inspection, reverse engineering, virtual simulation

By end user: aerospace and defense, automotive, construction and engineering, electronics, energy and power, healthcare, heavy machinery, mining, others

By region: Asia Pacific, Europe, North America, Rest of the World (RoW)

The report has also analysed the competitive landscape of the global 3D metrology market with some of the key players being Aberlink Ltd., Accurate Gauging & Instruments Pvt Ltd, Applied Materials, Inc., 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, Jenoptik AG, Keyence Corporation, KLA 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.

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Scope of the Report

To analyze and forecast the market size of the global 3D metrology market.

To classify and forecast the global 3D metrology market based on component, product, application, end user, region.

To identify drivers and challenges for the global 3D metrology market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global 3D metrology market.

To identify and analyze the profile of leading players operating in the global 3D metrology market.

Why Choose This Report

Gain a reliable outlook of the global 3D metrology 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.

Print authentication provided for the single-user license.

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Quality control and inspection

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Construction and engineering
Electronics
Energy and power
Healthcare
Heavy machinery
Mining
Others

PART 9. MARKET BREAKDOWN BY REGION

Asia Pacific
Europe
North America
Rest of the World (RoW)

PART 10. KEY COMPANIES

Aberlink Ltd.
Accurate Gauging & Instruments Pvt Ltd
Applied Materials, Inc.
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
Jenoptik AG

Keyence Corporation

KLA 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.

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