

Asia Pacific 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 Asia Pacific 3D metrology market was valued at US\$ 4,107.29 million in 2023 and is expected to reach US\$ 8,602.59 million by 2031; it is estimated to register a CAGR of 9.7% from 2023 to 2031.

Rising Demand for Industry 4.0 Boosts Asia Pacific 3D Metrology Market

Industry 4.0 includes automation, enhanced analytics, data interchange, and digital technology integration. These latest advancements facilitate communication between the dynamic digital world and the physical world. Industry 4.0 has resulted in the development and deployment of cutting-edge sensors capable of capturing data with unprecedented precision and detail. Their incorporation into automated systems improves efficiency and streamlines procedures while enabling multidimensional assessments, real-time monitoring, and non-contact measures, which is expected to fuel the market growth during the forecast period. In addition, the integration of IoT is

also increasing worldwide. IoT devices are integrated into machinery, production equipment, and even finished goods. Throughout the production process, these devices can supply real-time data to engineers, alerting them to deviations, abnormalities, quality problems, and other pertinent information. Additionally, a major component of Industry 4.0 is the integration of the digital and physical worlds. A digital twin is a virtual representation of a component or system that allows one to test, measure, and even model its response to various scenarios. It is similar to having a clone that allows one to experiment without actually touching the original. Thus, digital twins are improving the intelligence and efficiency of manufacturing by fusing real-world and virtual components. Hence, the rising demand for Industry 4.0 is expected to propel the growth of the 3D metrology market during the forecast period.

Asia Pacific 3D Metrology Market Overview

Asia Pacific encompasses China, Japan, South Korea, India, Australia, and the Rest of Asia Pacific. The demand for electronic products is increasing worldwide. This is raising the need to increase productivity in the electronic manufacturing sector. Hence, to expand their manufacturing capabilities, various countries in the region are taking several initiatives. According to Nikkei Inc., the Chinese government invested ~US\$ 327 billion till 2023 to expand the country's domestic electronic market. Similarly, the Indian government is also expanding the electronics market in the country. According to the Indian budget for 2023-2024, the government of India allocated US\$ 200 million to the Ministry of Electronics and Information Technology, marking a 40% year-on-year increase. In addition, the Indian government also provides various schemes to boost the electronics sector, which include the Production Linked Incentive (PLI) Schemes, the Scheme for Promotion of Manufacturing of Electronic Components and Semiconductors (SPECS), and the Modified Electronics Manufacturing Cluster (EMC 2.0) Scheme. Thus, the increase in government initiatives to promote the electronic manufacturing sector is expected to fuel the growth of the Asia Pacific 3D metrology market.

The region is witnessing rising adoption of EVs as the governments of different countries are developing several policies. The Association of Southeast Asian Nations (ASEAN) developed a favorable policy to encourage EV adoption. According to the International Renewable Energy Agency (IRENA), ~20% of vehicles in Southeast Asia will be EVs by 2025, including 59 million two-wheelers and three-wheelers and 8.9 million cars. In addition, India, South Korea, Taiwan, Vietnam, and other APAC countries are constantly working on attracting several businesses that want to relocate their car manufacturing facilities to the above countries because of low labor costs. For this, the above countries are offering tax rebates, funds, and subsidies, attracting more

manufacturing companies to set up their plants. Furthermore, various EV manufacturers are working on increasing their production capacity to meet the rising customer demand. For instance, in March 2023, Chinese EV manufacturer BYD announced that it had started the construction of its new EV manufacturing facility in Thailand, which will be producing 150,000 passenger cars per year from 2024. Thus, the growing adoption of EVs is expected to increase the adoption of 3D metrology, which will further fuel the growth of the market during the forecast period.

Asia Pacific 3D Metrology Market Revenue and Forecast to 2031 (US\$ Million)

Asia Pacific 3D Metrology Market Segmentation

The Asia Pacific 3D metrology market is categorized into product, application, end user, and country.

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

Based on application, the Asia Pacific 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 Asia Pacific 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 Asia Pacific 3D metrology market is segmented into China, Japan, South Korea, India, Australia, and the Rest of Asia Pacific. China dominated the Asia Pacific 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 some of the leading companies operating in the Asia Pacific 3D metrology market.

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