

Shape Measuring Devices Market Expected to Reach \$2.1 Billion by 2031

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NEW CASTLE, DE, UNITED STATES, December 10, 2024 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "[Shape Measuring Devices Market](#)," The shape measuring devices market size was valued at \$1.3 billion in 2021, and is estimated to reach \$2.1 billion by 2031, growing at a CAGR of 4.6% from 2022 to 2031.

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Shape measuring discloses minute surface flaws and irregularities such as burrs and scratches as well as markings on the products' surfaces. A shape measuring device is an optical measuring equipment that is equipped with a projection unit and uses the light section method. It is configured to project a predetermined pattern such as slit light onto an object to be measured. The object under investigation is truly defined by the shape measurement equipment.

The use of shape measuring devices is widespread in a number of industries, including those that produce steel & metal, electronics, healthcare, aerospace, defense, and micro-precise goods. For small-scale metal manufacturing companies, major participants in the market, including Bruker, HORIBA Scientific, and Retsch, provide specialized shape measurement machines.

The market for shape measuring devices is anticipated to be driven by rapid automation and advances in form measurement equipment. Moreover, shape measuring devices are a crucial aspect of the manufacturing business since they are used to evaluate the micro-level measurements of tools that are utilized in the production of automotive parts. A specific tool is offered by major participants in the sector for usage in the automotive sector. The main industries that use shape measurement devices are microprecision manufacturing, steel & metal, aerospace, and military. Thus, all these factors are anticipated to aid in the development of the shape measuring devices industry.

However, high investment costs are required for both establishing testing facilities and installing shape measurement hardware, which majorly hamper the market growth. Moreover, a range of

equipment is required to carry out various testing and measuring tasks, which incur additional costs. In addition, the end users of shape assessment equipment are particularly cost-conscious. They want reasonably priced shape measurement tools, however, they do not accept any compromise in the functionality or quality of the tool. As a result, the manufacturers of shape measurement devices face more pressure to reduce their prices, which restrains the shape measuring devices market growth.

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In addition, the outbreak of COVID-19 has led to a halt in logistic and manufacturing activities across the globe, which, in turn, has led to the interruption of the supply chain, thereby hindering growth of the shape measuring devices market.

On the contrary, industry growth in the manufacturing, aerospace, and other sectors is largely driven by the Internet of Things (IoT), which is incorporated present in shape measuring tools and intelligent application platforms. Moreover, major industry participants are concentrating on creating new products to improve their product portfolio. For example, in January 2023, Bruker Corporation announced its two new white light interferometry (WLI) systems., optical profilometers ContourX-1000 and NPFLEX-1000. These floor-standing platforms enable fast automated planimetry of surface texture and roughness. For instance, in February 2023, Bruker launched its new SKYSCAN 2214 CMOS Edition, a multiscale X-ray microscope based on nano-CT (computed tomography) for industrial and academic research. With the CMOS Edition, the highly successful and proven SKYSCAN 2214 platform now incorporates the latest scientific CMOS (sCMOS) detector technology and brings cutting-edge X-ray imaging at the highest resolution to the next level. Therefore, these factors are expected to offer lucrative prospects for the growth of the shape measuring devices market share during the forecast period.

The global shape measuring devices market is segmented into type, application, sales channel, and region. Depending on type, the market is divided into optical, 3d, and others. By application, it is fragmented into cutting-edge, cutting tool, and others. Depending on the sales channel, it is bifurcated into in store and online.

Region wise, the shape measuring devices market analysis is conducted across North America (the U.S., Canada, and Mexico), Europe (the UK, France, Germany, Italy, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

Competition Analysis

The major players profiled in the shape measuring devices market include Alicona Imaging GmbH, Alpa Metrology S.r.l., AMETEK.Inc, Clemex, HORIBA Scientific, Obishi Keiki Seisakusho Co., QPT Innovative Technik Handels GmbH, Retsch, Scantron Industrial Products Ltd., and Smart Vision.

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Key Findings of the Study

The report provides an extensive analysis of the current and emerging global shape measuring devices market trends and dynamics.

Depending on the type, the optical segment dominated the market in 2021.

On the basis of application, the cutting-edge segment led the market in 2021.

By sales channel, the in-store segment generated the highest revenue in 2021.

Region wise, Asia-Pacific dominated the market in 2021; however, LAMEA is anticipated to dominate the market, exhibiting the highest CAGR during the shape measuring devices market forecast period.

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