3D Metrology Market is estimated to be US$ 18.2 billion by 2030 with a CAGR of 7.2% during the forecast period

3D Metrology market accounted for US$ 8.96 billion in 2020 and is estimated to be US$ 18.2 billion by 2030 and is anticipated to register a CAGR of 7.2%. 3D metrology is a catch-all term for a range of scanning technologies that can be used for quality control and a variety of other applications in a manufacturing or production environment. In the most common and effective method of 3D metrology, structured blue light and stereoscopic cameras are utilized to correctly scan and measure the part. To compute the dimensions of the part being scanned, these cameras use the idea of triangulation in combination with fringe patterns projected onto the part. 3D metrology creates a detailed 3D model of the component being measured, which can then show a color map of where tolerances are out of spec when compared to the nominal dimension.

The report "Global 3D Metrology Market, By Component (Hardware, Software and Services), By Product Type (VMM, CMM, ODS, RD AOI, 3D X-Ray and CT), By Application (Reverse Engineering, Quality Control, Virtual simulation and Others) and By Region (North America, Europe, Asia Pacific, Latin America, and Middle East & Africa) - Market Trends, Analysis, and Forecast till 2030"

Key Highlights:

- In April 2021, GOM has announced the upcoming launch of its new GOM Scan 1 fringe projection 3D scanning system. The GOM Scan 1 is a compact and mobile 3D scanner to digitally capture objects and achieve precise 3D meshes for applications such as 3D printing, reverse engineering and dimensional inspection. The system comes with the latest GOM inspect software walking users through the entire workflow.
- In March 2021, Capture 3D, the leading provider of innovative 3D measurement solutions and the official U.S. partner for GOM GmbH, a ZEISS company, today announced the GOM ScanCobot— a mobile automated 3D scanning system that integrates with GOM's blue light 3D scanners ATOS Q and ATOS Core. With support from GOM's intelligent software, users can create efficient automation routines that produce precise, accurate, and repeatable measurement results without any prior knowledge about robotics programming required.

Analyst View:

The high cost of building up a 3D metrology facility, as well as a lack of 3D metrology knowledge, are two major factors driving the growth of the market for 3D metrology services. Manufacturing companies are outsourcing their 3D metrology measurement and inspection work to service providers in order to have faster measurement times, lower measurement uncertainty, and improved process stability, which is driving the market for 3D metrology services. 3D AOI inspection technology is excellent for volumetric and co-planarity testing. It's challenging to achieve a targeted ROI that fits within a company plan due to the significant costs of creating a metrology department. On the other hand, new 3D metrology software on the market is difficult to use and requires substantial training. As a result, 3D metrology system vendors are hosting training sessions and supplying customers with customer care engineers that can provide product information on demand.

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Key Market Insights from the report:

The global 3D Metrology market accounted for US$ 8.96 billion in 2020 and is estimated to be US$ 18.2 billion by 2030 and is anticipated to register a CAGR of 7.2%. The Global 3D Metrology Market is segmented based on the component, product type, application and region.

- By Component, the Global 3D Metrology Market is segmented into Hardware, Software and Services.
- By Product Type, the market is segmented into VMM, CMM, ODS, RD AOI, 3D X-Ray and CT.
- By Application, the Global 3D Metrology Market is segmented into Reverse Engineering, Quality Control, Virtual simulation and Others.
- By Region, the Global 3D Metrology Market is segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. North America is expected to dominate the 3D Metrology market.

Competitive Landscape:

The key players operating in the global 3D Metrology market includes Nikon Corporation, 3D Systems, Inc., Perceptron, Inc., Zeiss International, FARO Technologies, Inc., Applied Materials, Intertek Group Plc., KLA Corporation, Keyence Corporation, Renishaw Plc., and Hexagon AB.

The market provides detailed information regarding the industrial base, productivity, strengths, manufacturers, and recent trends which will help companies enlarge the businesses and promote financial growth. Furthermore, the report exhibits dynamic factors including segments, sub-segments, regional marketplaces, competition, dominant key players, and market forecasts. In addition, the market includes recent collaborations, mergers, acquisitions, and partnerships along with regulatory frameworks across different regions impacting the market trajectory. Recent technological advances and innovations influencing the global market are included in the report.

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