

# Next Generation Industrial Metrology and Inspection Market Key Players, Revenues and Forecast by 2030

*The next generation industrial metrology and inspection market is registering a CAGR of 6.9% from 2021 to 2030*

PORTLAND, OREGON, UNITED STATES, December 5, 2023 /EINPresswire.com/ -- The next-generation industrial metrology and inspection market size is expected to reach \$16,104.2 million by 2030, from \$8,125.0 million in 2020, registering a CAGR of 6.9% from 2021 to 2030



The [Next Generation Industrial Metrology and Inspection Market](#) play a crucial role in ensuring that manufactured products meet stringent quality standards. Traditional methods, while effective, are being superseded by innovative technologies that promise enhanced speed, accuracy, and automation. Automated systems equipped with robotic arms can perform repetitive tasks with unparalleled precision, reducing human error and significantly speeding up inspection cycles. These systems utilize advanced sensors, such as laser scanners and structured light, to create detailed, high-resolution 3D models of components.

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Top Leading Companies: Hexagon AB, Renishaw PLC, Carl Zeiss AG, FARO Technologies, Jenoptik AG, Automated Precision Inc, KLA Corporation, Applied Materials Inc, Nikon Metrology, Trimet Group.

A rise in adoption of industrial metrology practices in various industries such as aerospace, automotive, and other manufacturing sectors drives the growth of the next generation industrial metrology and inspection market. Major players such as Nikon Metrology, FARO Technologies and others adopting product launch as a key developmental strategy to improve the product portfolio of metrology products. For instance, in June 2021, Nikon Metrology launched a new

CNC video measurement system named NEXIV VMZ -S4540. It is the most suitable for the automotive and transportation industries.

It has features such as fully automatic, and higher performance. It has dimensions of 3000 X 3000 mm. A rise in need of big data analytics is rising in the metrology industry, to maximize productivity and accuracy. In addition, growing demand for precision inspection services and rise in focus on quality control in manufacturing industries, fuels the growth of the market.

Optical metrology techniques, including interferometry and holography, are gaining traction for their ability to provide extremely precise measurements. These methods are particularly valuable in industries such as aerospace and semiconductor manufacturing. The market is witnessing a surge in portable and handheld metrology devices. These compact tools enable on-the-spot inspections, reducing the need for transporting large components to dedicated metrology labs.

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The next generation industrial metrology and inspection market is experiencing robust growth, driven by factors such as increased adoption of Industry 4.0 principles, globalization of supply chains, and a growing emphasis on quality control across various industries. AR is being utilized to overlay digital information onto the physical world, aiding inspectors in real-time analysis. This not only enhances the efficiency of inspection processes but also facilitates remote collaboration and training.

While the market is flourishing, challenges such as the high initial cost of advanced metrology systems and the need for skilled operators remain. However, these challenges also present opportunities for the development of cost-effective solutions and specialized training programs. These technologies can quickly process vast amounts of data, identify patterns, and predict potential defects.

The next generation of industrial metrology and inspection is ushering in a new era of precision and efficiency. As technology continues to advance, manufacturers can expect increased accuracy, reduced inspection times, and ultimately, enhanced product quality. Embracing these innovations is not just a choice but a necessity for industries striving to stay competitive. The future is undoubtedly bright for those who dare to embrace the precision revolution.

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