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Global Aircraft Wheel Scanning System Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Aircraft Wheel Scanning System market size was valued at US$ 762 million in 2024 and is forecast to a readjusted size of USD 1196 million by 2031 with a CAGR of 6.7% during review period.

Aircraft Wheel Scanning Systems play a vital role in the quality control of landing gear components. Robust structure, timely maintenance, repair, and overhaul of aircraft wheels and brakes are important as they undergo extreme wear and tear friction during landing and take-off. These systems are broadly used by aircraft manufacturers to identify early defects and ensure safe aircraft take-off and landing.

The global aircraft wheel scanning system market refers to the industry that produces and sells scanning systems used for inspecting and evaluating the condition of aircraft wheels. Aircraft wheel scanning systems are designed to detect and monitor various wheel defects, such as cracks, corrosion, and other forms of damage, to ensure the safety and reliability of aircraft operations.

Key factors contributing to the growth of the global aircraft wheel scanning system market include:

Increasing aircraft fleet size: The global aviation industry is witnessing significant growth in commercial and military aircraft fleets. With the growing number of aircraft in operation, the need for efficient and accurate inspection systems, such as wheel scanning systems, is crucial to ensure the airworthiness and reliability of aircraft wheels.

Stringent safety regulations: Safety is of utmost importance in the aviation industry.

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Regulatory bodies and governing authorities, such as the Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA), impose strict regulations and standards for aircraft maintenance and inspections. The use of advanced scanning systems for regular wheel inspections helps meet these requirements and ensures compliance with safety standards.

Focus on operational efficiency: Airlines and aircraft operators are constantly seeking ways to enhance operational efficiency and reduce downtime. Wheel scanning systems provide quick and accurate inspection results, allowing for timely maintenance and repair of aircraft wheels. This helps minimize aircraft turnaround time and optimize fleet operations.

Technological advancements: The development of advanced scanning technologies, such as laser scanning, ultrasonic scanning, and magnetic particle inspection, has significantly improved the efficiency and accuracy of aircraft wheel inspection. These systems offer faster scanning speeds, higher precision, and better detection capabilities, contributing to market growth.

Cost-effective maintenance: The implementation of regular wheel inspections using scanning systems can help prevent costly repairs and downtime caused by wheel failures. By identifying and addressing potential issues at an early stage, operators can minimize maintenance costs and extend the lifespan of aircraft wheels.

The global aircraft wheel scanning system market is competitive, with several key players offering a range of scanning technologies and solutions. These systems can be integrated into existing aircraft maintenance processes or used as standalone inspection tools.

In summary, the global aircraft wheel scanning system market is driven by the increasing aircraft fleet size, stringent safety regulations, the focus on operational efficiency, technological advancements, and the need for cost-effective maintenance. As the aviation industry continues to prioritize safety and efficiency, the demand for advanced wheel scanning systems is expected to grow.

This report is a detailed and comprehensive analysis for global Aircraft Wheel Scanning System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

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product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aircraft Wheel Scanning System market size and forecasts, in consumption value ($ Million), 2020-2031

Global Aircraft Wheel Scanning System market size and forecasts by region and country, in consumption value ($ Million), 2020-2031

Global Aircraft Wheel Scanning System market size and forecasts, by Type and by Application, in consumption value ($ Million), 2020-2031

Global Aircraft Wheel Scanning System market shares of main players, in revenue ($ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aircraft Wheel Scanning System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aircraft Wheel Scanning System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aeroscan, Carl Zeiss Optotechnik GmBH, Nikon Metrology NV, Creaform Inc., FARO Technologies, Inc., Fuel3D Technologies Limited, Autodesk Inc., Capture 3D, Inc., Hexagon AB, Shenzhen HOLON Technology Co., Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

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Aircraft Wheel Scanning System market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Laser 3D Scanner
- Structured Light 3D Scanner
- Others

Market segment by Application

- Commercial Aircraft
- Business Aircraft
- Military Aircraft
- General Aviation Aircraft
- Others

Market segment by players, this report covers

- Aeroscan
- Carl Zeiss Optotechnik GmbH
- Nikon Metrology NV
- Creaform Inc.
- FARO Technologies, Inc.

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Fuel3D Technologies Limited

Autodesk Inc.

Capture 3D, Inc.

Hexagon AB

Shenzhen HOLON Technology Co., Ltd

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Aircraft Wheel Scanning System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Aircraft Wheel Scanning System, with revenue, gross margin, and global market share of Aircraft Wheel Scanning System from 2020 to 2025.

Chapter 3, the Aircraft Wheel Scanning System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

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Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.and Aircraft Wheel Scanning System market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Aircraft Wheel Scanning System.

Chapter 13, to describe Aircraft Wheel Scanning System research findings and conclusion.

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