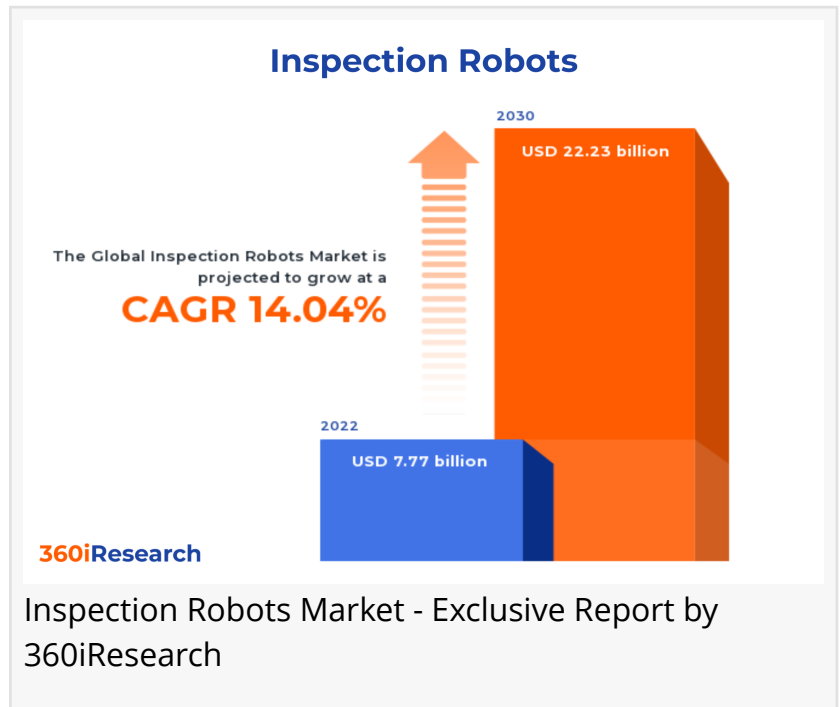


Inspection Robots Market worth \$22.23 billion by 2030, growing at a CAGR of 14.04% - Exclusive Report by 360iResearch

The Global Inspection Robots Market to grow from USD 7.77 billion in 2022 to USD 22.23 billion by 2030, at a CAGR of 14.04%.

PUNE, MAHARASHTRA, INDIA,
November 16, 2023 /
EINPresswire.com/ -- The "[Inspection Robots Market](#) by Testing Type (Automated Metrology, Non-Destructive Inspection), Robot Type (Mobile Robots, Stationary Robotic Arm), Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



The Global Inspection Robots Market to grow from USD 7.77 billion in 2022 to USD 22.23 billion by 2030, at a CAGR of 14.04%.

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The inspection robots are designed to navigate through complex environments, conduct visual or non-destructive inspections, detect flaws or damages, and gather data for analysis. Increasing demand for automatized processes that can reduce operational costs while maintaining or improving quality standards is accelerating the adoption of inspection robots across industries globally. Governments worldwide are implementing stringent safety regulations in various sectors, such as power generation and the oil & gas industry, allowing businesses to adopt inspection robot technologies to ensure compliance. However, high initial investment in adopting inspection robots may hinder their adoption by small and medium-scale enterprises. Moreover, ongoing development and advancements in collaborative robots are expected to encourage the deployment of inspection robots across end-use sectors globally.

Robot Type: Surging applications of mobile robots to perform critical industrial tasks

Mobile robots are autonomous or remotely controlled machines that can navigate various environments and perform multiple tasks. In the inspection industry, mobile robots are predominantly used for inspecting hard-to-reach areas, monitoring hazardous environments, and conducting routine inspections with increased efficiency and accuracy. A stationary robotic arm is a fixed-position robotic system that utilizes precision movements to perform inspection tasks. Stationary arms are well-suited for assembly lines or production environments where they can conduct repetitive inspections on products or components with minimal downtime. An inspection robot type selection should be based on factors such as environment constraints, required precision levels, task frequency, and maintenance needs.

Testing Type: Significant penetration of automated metrology across industries

Automated metrology refers to the use of advanced robotics and measurement devices to conduct precise, consistent, and accurate assessments of various industrial components. This technology is highly preferred in industries requiring high-precision measurements, such as aerospace, automotive, electronics, and manufacturing. The non-destructive inspection (NDI) process involves examining components' integrity without causing damage or altering their properties. NDI is indispensable in industries where failure prevention is crucial, such as energy production plants, transportation infrastructure systems, including railways and bridges, and aviation maintenance units. Automated metrology delivers precision measurements where consistent accuracy is critical, such as component production lines, while NDI focuses on preserving asset integrity through failure prevention without causing damage or alteration.

Application: Proliferating use of inspection robots in electronics sectors

Inspection robots are increasingly gaining traction in the electronics industry due to their ability to ensure precision, reliability, and efficiency in inspecting printed circuit boards (PCBs) and other electronic components. These robots can detect defects such as short circuits, misplaced components, and soldering errors that could compromise product quality and safety. The food & beverage industry has witnessed a surge in demand for inspection robots as companies strive to maintain strict hygiene standards and comply with regulatory requirements. Inspection robots can detect contaminants such as foreign objects or spoiled products on production lines, ensuring consumer safety and brand reputation. Inspection robots have become essential tools for the oil & gas industry to monitor pipelines and other critical infrastructure assets for leaks or corrosion damage that could lead to costly downtime or environmental disasters. The pharmaceutical industry has seen a growing preference for inspection robots to ensure quality control and compliance with stringent regulatory standards. These robots can efficiently inspect drug packaging, such as blister packs or vials, for inconsistencies, such as improper sealing or missing products that may compromise patient safety.

Regional Insights:

The inspection robots market is evolving in the Americas owing to the presence of well-established industries and the need to improve safety and efficiency in oil and gas, power generation, and infrastructure sectors. In Europe, countries within the European Union (EU) are

adopting inspection robots to address worker safety concerns in industries such as automotive manufacturing plants. In the Middle East & Africa region, oil-rich nations are increasingly investing in innovative technologies to enhance pipeline monitoring capabilities through autonomous inspection robots. Robust industrial growth, rapid industrialization, and an emphasis on smart factories drive demand for inspection robots in APAC countries. Besides, the integration of breakthrough technologies and algorithms in inspection robots is anticipated to increase their deployment across the end-use sectors across the globe.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Inspection Robots Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Inspection Robots Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Inspection Robots Market, highlighting leading vendors and their innovative profiles. These include ABB Group, Aetos Group, AZoRobotics, Baker Hughes Company, Cognex Corporation, Cross Company, Eddyfi Technologies, Fanuc Corporation, FARO Technologies, Inc., GE Inspection Robotics, Gecko Robotics, Inc., Genesis Systems, Honeybee Robotics, Invert Robotics Group Limited, JH Robotics Inc., Lakeview Vision & Robotics, Mitsubishi Electric Corporation, Robotic Automation Systems, SuperDroid Robots, Teradyne, Inc., Universal Robots, and Warren Industrial Solutions.

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Market Segmentation & Coverage:

This research report categorizes the Inspection Robots Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Testing Type, market is studied across Automated Metrology and Non-Destructive Inspection. The Non-Destructive Inspection is projected to witness significant market share during forecast period.

Based on Robot Type, market is studied across Mobile Robots and Stationary Robotic Arm. The Stationary Robotic Arm is projected to witness significant market share during forecast period.

Based on Application, market is studied across Electronics, Food & Beverage, Oil & Gas, and Pharmaceutical. The Electronics is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 40.04% in 2022, followed by Americas.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Inspection Robots Market, by Testing Type
7. Inspection Robots Market, by Robot Type
8. Inspection Robots Market, by Application
9. Americas Inspection Robots Market
10. Asia-Pacific Inspection Robots Market
11. Europe, Middle East & Africa Inspection Robots Market
12. Competitive Landscape
13. Competitive Portfolio
14. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and

analyzes penetration across mature segments of the markets

3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments

4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players

5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Inspection Robots Market?

2. Which are the products/segments/applications/areas to invest in over the forecast period in the Inspection Robots Market?

3. What is the competitive strategic window for opportunities in the Inspection Robots Market?

4. What are the technology trends and regulatory frameworks in the Inspection Robots Market?

5. What is the market share of the leading vendors in the Inspection Robots Market?

6. What modes and strategic moves are considered suitable for entering the Inspection Robots Market?

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Mr. Ketan Rohom

360iResearch

+ 1 530-264-8485

ketan@360iresearch.com

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