

Global Surface Inspection Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Surface Inspection Equipment market size was valued at USD 2342.2 million in 2023 and is forecast to a readjusted size of USD 3903.6 million by 2030 with a CAGR of 7.6% during review period.

Surface inspection equipment provides an automated approach to inspection for inclusions, foreign bodies, surface defects, cracks, fibres and missing materials across all industries.

Surface inspection equipment has a wide range of applications in the semiconductor industry and manufacturing.

In the manufacturing industry, surface inspection equipment is mainly used in several aspects:

Surface defect detection: In the manufacturing industry, surface inspection equipment is used to detect defects, scratches, cracks and other problems on the surface of products. This helps to eliminate defective products and improve product quality and reliability.

Coating quality inspection: Surface inspection equipment is used to detect parameters such as coating uniformity, thickness, adhesion and quality. They can help ensure coating consistency and prevent problems caused by coating defects such as corrosion, reduced wear resistance, etc.

Surface cleanliness detection: Surface detection equipment can be used to detect surface cleanliness during the manufacturing process to ensure that there are no residual pollutants, grease, dust, etc. on the product surface, thereby ensuring product quality.

Part size measurement: In the manufacturing process, surface inspection equipment can be used to measure the size, flatness, roundness and other parameters of parts. This helps verify that the geometry of the part meets specification.

Global 5 largest manufacturers of Surface Inspection Equipment are AMETEK, Nordson, Vitronic GmbH, Omron and IMS Messsysteme GmbH, which make up over 32%. Among them, AMETEK is the leader with about 16% market share.

North America is the largest market, with a share about 40%, followed by Europe and Asia Pacific, with the share about 31% and 22%. In terms of product type, based on Image Processing occupies the largest share of the total market, about 58%. And in terms of application, the largest application is Chemical Materials, followed by Automotive.

The Global Info Research report includes an overview of the development of the Surface Inspection Equipment industry chain, the market status of Chemical Material (Based on Image Processing, Based on NDT), Automotive (Based on Image Processing, Based on NDT), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Surface Inspection Equipment.

Regionally, the report analyzes the Surface Inspection Equipment markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Surface Inspection Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Surface Inspection Equipment market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Surface Inspection Equipment industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Unit), revenue generated, and market share of different by Type (e.g., Based on Image Processing, Based on NDT).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Surface Inspection Equipment market.

Regional Analysis: The report involves examining the Surface Inspection Equipment market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Surface Inspection Equipment market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Surface Inspection Equipment:

Company Analysis: Report covers individual Surface Inspection Equipment manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Surface Inspection Equipment This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Chemical Material, Automotive).

Technology Analysis: Report covers specific technologies relevant to Surface Inspection Equipment. It assesses the current state, advancements, and potential future developments in Surface Inspection Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Surface Inspection

Equipment market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Surface Inspection Equipment market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

- Based on Image Processing

- Based on NDT

Market segment by Application

- Chemical Material

- Automotive

- Semiconductors and Electronics

- Others

Major players covered

- AMETEK

- Nordson

- Vitronic GmbH

- Omron

IMS Messsysteme GmbH

ISRA VISION AG

Synergx

Perceptron

Inovision

Dark Field Technologies

Hitachi High-Tech

Baumer Inspection

Icemi

AUTIS Engineering

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Surface Inspection Equipment product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Surface Inspection Equipment, with price, sales, revenue and global market share of Surface Inspection Equipment from 2019 to 2024.

Chapter 3, the Surface Inspection Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Surface Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Surface Inspection Equipment market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Surface Inspection Equipment.

Chapter 14 and 15, to describe Surface Inspection Equipment sales channel, distributors, customers, research findings and conclusion.

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