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Global Surface Defect Inspection Equipment Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

https://marketpublishers.com/r/GD041EA3F7BDEN.html
Date: July 2024
Pages: 102
Price: US$ 3,480.00 (Single User License)
ID: GD041EA3F7BDEN

Abstracts

According to our (Global Info Research) latest study, the global Surface Defect Inspection Equipment market size was valued at USD 1214.2 million in 2022 and is forecast to a readjusted size of USD 2023.5 million by 2029 with a CAGR of 7.6% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Customers of today's consumer electronic devices expect flawless products right out of the box. Scratches, dents, smudges, and other imperfections can lead to costly returns and can damage your brand's reputation and future business. At the same time, reflective surfaces are often very sensitive, which is a challenge for optical metrology. Manual inspections are tedious, expensive, and ultimately always subject to subjective decision-making criteria. During production, wrong painting or coating processes lead to high scrap rates. Defects that go undetected even during final inspection can lead to costly complaints and, in worst cases, loss of customers. Only efficient, automated surface inspection can achieve the highest quality at an acceptable cost. With comprehensive expertise in measurement technology, robotics and automation, surface defect inspection equipment enables you to detect defects in a timely manner and improve product quality in the production cycle.

The surface defect detection equipment condenses a number of advanced technology applications in the field of machine vision, and uses optical principles to detect possible defects on the product surface through image processing and analysis. When there is a defect in the inspected product, the gray value of the image at the defect is different from the gray value of the standard image. By extracting and selecting the features of the defect image, and then comparing the gray value of the defect image with the gray

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value of the standard image, it is judged whether the difference exceeds the preset threshold range, thereby judging the detected Whether the product is defective. This is a basic method for surface blemish detection. In the specific detection process, firstly, the CCD industrial camera converts the ingested target into an image signal, transmits it to a dedicated image processing system, and converts it into a digital signal according to the pixel distribution, brightness, color and other information. Then the image system performs various operations on these signals to extract the characteristics of the target, such as: area, length, quantity, position, etc. Output results according to preset tolerances and other conditions, such as: defect, size, angle, offset, number, pass/fail, yes/no, etc.

This report is a detailed and comprehensive analysis for global Surface Defect Inspection Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, 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 product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Surface Defect Inspection Equipment market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global Surface Defect Inspection Equipment market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global Surface Defect Inspection Equipment market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2018-2029

Global Surface Defect Inspection Equipment market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2018-2023

The Primary Objectives in This Report Are:

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

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To assess the growth potential for Surface Defect Inspection Equipment

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 Surface Defect Inspection Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Yamashita Denso, TSI, Industrial Vision Systems, Hitachi High-Tech and AMETEK Surface Vision, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Surface Defect Inspection Equipment market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Visual Inspection Equipment

Reflective Structured Light Equipment

Market segment by Application

Electronic Components Industry

Precision Parts Industry

New Energy Battery Industry

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Automobile Industry

Medical Device Industry

Daily Chemical Industry

Others

Major players covered

Yamashita Denso

TSI

Industrial Vision Systems

Hitachi High-Tech

AMETEK Surface Vision

Radiant Vision Systems

KLA

ISRA VISION

Nanotronics

Zhongke Zhuoer

Wuxi Hammerhead Smart Technology

Intide Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

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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 Defect Inspection Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Surface Defect Inspection Equipment, with price, sales, revenue and global market share of Surface Defect Inspection Equipment from 2018 to 2023.

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

Chapter 4, the Surface Defect Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022.and Surface Defect Inspection Equipment market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

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

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

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