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

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Abstracts

According to our (Global Info Research) latest study, the global Metal Surface Defect Inspection System 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.

In the era of Industry 4.0, any flaw in any product will be infinitely magnified and bring about negative effects. The production and operation environment of metal materials is relatively harsh, which leads to various defects on the metal surface, which seriously affects product quality and corporate profits. Therefore, it is particularly important to automatically detect metal surface defects.

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 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,

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

Global Metal Surface Defect Inspection System 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 Metal Surface Defect Inspection System 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 Metal Surface Defect Inspection System 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

To assess the growth potential for Metal Surface Defect Inspection System

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

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Metal Surface Defect Inspection System 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

Metal Surface Defect Inspection System 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

Automobile Industry

Medical Device Industry

Others

Major players covered

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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)

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)

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

Chapter 1, to describe Metal Surface Defect Inspection System product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Metal Surface Defect Inspection System 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 Metal Surface Defect Inspection System 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.

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

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

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