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Global Machine Vision Surface Defect Inspection System Market Growth 2023-2029

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Machine Vision Surface Defect Inspection System market size is projected to grow from US$ 1154.3 million in 2022 to US$ 2004.8 million in 2029; it is expected to grow at a CAGR of 8.2% from 2023 to 2029.

United States market for Machine Vision Surface Defect Inspection System is estimated to increase from US$ million in 2022 to US$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Machine Vision Surface Defect Inspection System is estimated to increase from US$ million in 2022 to US$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Machine Vision Surface Defect Inspection System is estimated to increase from US$ million in 2022 to US$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Machine Vision Surface Defect Inspection System players cover AMETEK, Nordson, Vitronic GmbH, Omron, IMS Messsysteme GmbH, ISRA VISION AG, Synergx, Perceptron and Inovision, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

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

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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, 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.

LPI (LP Information)' newest research report, the “Machine Vision Surface Defect Inspection System Industry Forecast” looks at past sales and reviews total world Machine Vision Surface Defect Inspection System sales in 2022, providing a comprehensive analysis by region and market sector of projected Machine Vision Surface Defect Inspection System sales for 2023 through 2029. With Machine Vision Surface Defect Inspection System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Machine Vision Surface Defect Inspection System industry.

This Insight Report provides a comprehensive analysis of the global Machine Vision Surface Defect Inspection System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Machine Vision Surface Defect Inspection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Machine Vision Surface Defect Inspection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Machine Vision Surface Defect Inspection System and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Machine Vision Surface Defect Inspection System.

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This report presents a comprehensive overview, market shares, and growth opportunities of Machine Vision Surface Defect Inspection System market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

- Stereo Vision Inspection
- Mottle Detection
- OCR Technology

Segmentation by application

- Electronic Components Industry
- Precision Parts Industry
- New Energy Battery Industry
- Automobile Industry
- Medical Device Industry
- Daily Chemical Industry
- Others

This report also splits the market by region:

- Americas
  - United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Machine Vision Surface Defect Inspection System market?

What factors are driving Machine Vision Surface Defect Inspection System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Machine Vision Surface Defect Inspection System market opportunities vary by end market size?

How does Machine Vision Surface Defect Inspection System break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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