

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

<https://marketpublishers.com/r/G05E86FDB606EN.html>

Date: July 2024

Pages: 100

Price: US\$ 3,480.00 (Single User License)

ID: G05E86FDB606EN

Abstracts

According to our (Global Info Research) latest study, the global Machine Vision 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.

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, 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 Machine Vision 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 Machine Vision 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 Machine Vision 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 Machine Vision 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 Machine Vision 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 Machine Vision Surface Defect Inspection System

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 Machine Vision 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 AMETEK,

Nordson, Vitronic GmbH, Omron and IMS Messsysteme GmbH, 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

Machine Vision 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

Stereo Vision Inspection

Mottle Detection

OCR Technology

Market segment by Application

Electronic Components Industry

Precision Parts Industry

New Energy Battery Industry

Automobile Industry

Medical Device Industry

Daily Chemical Industry

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 Machine Vision Surface Defect Inspection System product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Machine Vision 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 Machine Vision 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 Machine Vision 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 Machine Vision Surface Defect Inspection System.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Machine Vision Surface Defect Inspection System

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Machine Vision Surface Defect Inspection System

Consumption Value by Type: 2018 Versus 2022 Versus 2029

1.3.2 Stereo Vision Inspection

1.3.3 Mottle Detection

1.3.4 OCR Technology

1.4 Market Analysis by Application

1.4.1 Overview: Global Machine Vision Surface Defect Inspection System

Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 Electronic Components Industry

1.4.3 Precision Parts Industry

1.4.4 New Energy Battery Industry

1.4.5 Automobile Industry

1.4.6 Medical Device Industry

1.4.7 Daily Chemical Industry

1.4.8 Others

1.5 Global Machine Vision Surface Defect Inspection System Market Size & Forecast

1.5.1 Global Machine Vision Surface Defect Inspection System Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Machine Vision Surface Defect Inspection System Sales Quantity (2018-2029)

1.5.3 Global Machine Vision Surface Defect Inspection System Average Price (2018-2029)

2 MANUFACTURERS PROFILES

2.1 AMETEK

2.1.1 AMETEK Details

2.1.2 AMETEK Major Business

2.1.3 AMETEK Machine Vision Surface Defect Inspection System Product and Services

2.1.4 AMETEK Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.1.5 AMETEK Recent Developments/Updates
- 2.2 Nordson
 - 2.2.1 Nordson Details
 - 2.2.2 Nordson Major Business
 - 2.2.3 Nordson Machine Vision Surface Defect Inspection System Product and Services
 - 2.2.4 Nordson Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.2.5 Nordson Recent Developments/Updates
- 2.3 Vitronic GmbH
 - 2.3.1 Vitronic GmbH Details
 - 2.3.2 Vitronic GmbH Major Business
 - 2.3.3 Vitronic GmbH Machine Vision Surface Defect Inspection System Product and Services
 - 2.3.4 Vitronic GmbH Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.3.5 Vitronic GmbH Recent Developments/Updates
- 2.4 Omron
 - 2.4.1 Omron Details
 - 2.4.2 Omron Major Business
 - 2.4.3 Omron Machine Vision Surface Defect Inspection System Product and Services
 - 2.4.4 Omron Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.4.5 Omron Recent Developments/Updates
- 2.5 IMS Messsysteme GmbH
 - 2.5.1 IMS Messsysteme GmbH Details
 - 2.5.2 IMS Messsysteme GmbH Major Business
 - 2.5.3 IMS Messsysteme GmbH Machine Vision Surface Defect Inspection System Product and Services
 - 2.5.4 IMS Messsysteme GmbH Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.5.5 IMS Messsysteme GmbH Recent Developments/Updates
- 2.6 ISRA VISION AG
 - 2.6.1 ISRA VISION AG Details
 - 2.6.2 ISRA VISION AG Major Business
 - 2.6.3 ISRA VISION AG Machine Vision Surface Defect Inspection System Product and Services
 - 2.6.4 ISRA VISION AG Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 ISRA VISION AG Recent Developments/Updates

2.7 Synergx

2.7.1 Synergx Details

2.7.2 Synergx Major Business

2.7.3 Synergx Machine Vision Surface Defect Inspection System Product and Services

2.7.4 Synergx Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Synergx Recent Developments/Updates

2.8 Perceptron

2.8.1 Perceptron Details

2.8.2 Perceptron Major Business

2.8.3 Perceptron Machine Vision Surface Defect Inspection System Product and Services

2.8.4 Perceptron Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.8.5 Perceptron Recent Developments/Updates

2.9 Inovision

2.9.1 Inovision Details

2.9.2 Inovision Major Business

2.9.3 Inovision Machine Vision Surface Defect Inspection System Product and Services

2.9.4 Inovision Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.9.5 Inovision Recent Developments/Updates

2.10 Dark Field Technologies

2.10.1 Dark Field Technologies Details

2.10.2 Dark Field Technologies Major Business

2.10.3 Dark Field Technologies Machine Vision Surface Defect Inspection System Product and Services

2.10.4 Dark Field Technologies Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.10.5 Dark Field Technologies Recent Developments/Updates

2.11 Hitachi High-Tech

2.11.1 Hitachi High-Tech Details

2.11.2 Hitachi High-Tech Major Business

2.11.3 Hitachi High-Tech Machine Vision Surface Defect Inspection System Product and Services

2.11.4 Hitachi High-Tech Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.11.5 Hitachi High-Tech Recent Developments/Updates
- 2.12 Baumer Inspection
 - 2.12.1 Baumer Inspection Details
 - 2.12.2 Baumer Inspection Major Business
 - 2.12.3 Baumer Inspection Machine Vision Surface Defect Inspection System Product and Services
 - 2.12.4 Baumer Inspection Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.12.5 Baumer Inspection Recent Developments/Updates
- 2.13 Icemi
 - 2.13.1 Icemi Details
 - 2.13.2 Icemi Major Business
 - 2.13.3 Icemi Machine Vision Surface Defect Inspection System Product and Services
 - 2.13.4 Icemi Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.13.5 Icemi Recent Developments/Updates
- 2.14 AUTIS Engineering
 - 2.14.1 AUTIS Engineering Details
 - 2.14.2 AUTIS Engineering Major Business
 - 2.14.3 AUTIS Engineering Machine Vision Surface Defect Inspection System Product and Services
 - 2.14.4 AUTIS Engineering Machine Vision Surface Defect Inspection System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.14.5 AUTIS Engineering Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MACHINE VISION SURFACE DEFECT INSPECTION SYSTEM BY MANUFACTURER

- 3.1 Global Machine Vision Surface Defect Inspection System Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Machine Vision Surface Defect Inspection System Revenue by Manufacturer (2018-2023)
- 3.3 Global Machine Vision Surface Defect Inspection System Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
 - 3.4.1 Producer Shipments of Machine Vision Surface Defect Inspection System by Manufacturer Revenue (\$MM) and Market Share (%): 2022
 - 3.4.2 Top 3 Machine Vision Surface Defect Inspection System Manufacturer Market Share in 2022

3.4.2 Top 6 Machine Vision Surface Defect Inspection System Manufacturer Market Share in 2022

3.5 Machine Vision Surface Defect Inspection System Market: Overall Company Footprint Analysis

3.5.1 Machine Vision Surface Defect Inspection System Market: Region Footprint

3.5.2 Machine Vision Surface Defect Inspection System Market: Company Product Type Footprint

3.5.3 Machine Vision Surface Defect Inspection System Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Machine Vision Surface Defect Inspection System Market Size by Region

4.1.1 Global Machine Vision Surface Defect Inspection System Sales Quantity by Region (2018-2029)

4.1.2 Global Machine Vision Surface Defect Inspection System Consumption Value by Region (2018-2029)

4.1.3 Global Machine Vision Surface Defect Inspection System Average Price by Region (2018-2029)

4.2 North America Machine Vision Surface Defect Inspection System Consumption Value (2018-2029)

4.3 Europe Machine Vision Surface Defect Inspection System Consumption Value (2018-2029)

4.4 Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value (2018-2029)

4.5 South America Machine Vision Surface Defect Inspection System Consumption Value (2018-2029)

4.6 Middle East and Africa Machine Vision Surface Defect Inspection System Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)

5.2 Global Machine Vision Surface Defect Inspection System Consumption Value by Type (2018-2029)

5.3 Global Machine Vision Surface Defect Inspection System Average Price by Type

(2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)

6.2 Global Machine Vision Surface Defect Inspection System Consumption Value by Application (2018-2029)

6.3 Global Machine Vision Surface Defect Inspection System Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)

7.2 North America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)

7.3 North America Machine Vision Surface Defect Inspection System Market Size by Country

7.3.1 North America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2029)

7.3.2 North America Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)

8.2 Europe Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)

8.3 Europe Machine Vision Surface Defect Inspection System Market Size by Country

8.3.1 Europe Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2029)

8.3.2 Europe Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

- 8.3.4 France Market Size and Forecast (2018-2029)
- 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
- 8.3.6 Russia Market Size and Forecast (2018-2029)
- 8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)
- 9.2 Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)
- 9.3 Asia-Pacific Machine Vision Surface Defect Inspection System Market Size by Region
 - 9.3.1 Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Region (2018-2029)
 - 9.3.2 Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value by Region (2018-2029)
 - 9.3.3 China Market Size and Forecast (2018-2029)
 - 9.3.4 Japan Market Size and Forecast (2018-2029)
 - 9.3.5 Korea Market Size and Forecast (2018-2029)
 - 9.3.6 India Market Size and Forecast (2018-2029)
 - 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
 - 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)
- 10.2 South America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)
- 10.3 South America Machine Vision Surface Defect Inspection System Market Size by Country
 - 10.3.1 South America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2029)
 - 10.3.2 South America Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2029)
 - 10.3.3 Brazil Market Size and Forecast (2018-2029)
 - 10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa Machine Vision Surface Defect Inspection System Market Size by Country

11.3.1 Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

12.1 Machine Vision Surface Defect Inspection System Market Drivers

12.2 Machine Vision Surface Defect Inspection System Market Restraints

12.3 Machine Vision Surface Defect Inspection System Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

12.5 Influence of COVID-19 and Russia-Ukraine War

12.5.1 Influence of COVID-19

12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Machine Vision Surface Defect Inspection System and Key Manufacturers

13.2 Manufacturing Costs Percentage of Machine Vision Surface Defect Inspection System

13.3 Machine Vision Surface Defect Inspection System Production Process

13.4 Machine Vision Surface Defect Inspection System Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Machine Vision Surface Defect Inspection System Typical Distributors

14.3 Machine Vision Surface Defect Inspection System Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Machine Vision Surface Defect Inspection System Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global Machine Vision Surface Defect Inspection System Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. AMETEK Basic Information, Manufacturing Base and Competitors
- Table 4. AMETEK Major Business
- Table 5. AMETEK Machine Vision Surface Defect Inspection System Product and Services
- Table 6. AMETEK Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 7. AMETEK Recent Developments/Updates
- Table 8. Nordson Basic Information, Manufacturing Base and Competitors
- Table 9. Nordson Major Business
- Table 10. Nordson Machine Vision Surface Defect Inspection System Product and Services
- Table 11. Nordson Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 12. Nordson Recent Developments/Updates
- Table 13. Vitronic GmbH Basic Information, Manufacturing Base and Competitors
- Table 14. Vitronic GmbH Major Business
- Table 15. Vitronic GmbH Machine Vision Surface Defect Inspection System Product and Services
- Table 16. Vitronic GmbH Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 17. Vitronic GmbH Recent Developments/Updates
- Table 18. Omron Basic Information, Manufacturing Base and Competitors
- Table 19. Omron Major Business
- Table 20. Omron Machine Vision Surface Defect Inspection System Product and Services
- Table 21. Omron Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Omron Recent Developments/Updates

Table 23. IMS Messsysteme GmbH Basic Information, Manufacturing Base and Competitors

Table 24. IMS Messsysteme GmbH Major Business

Table 25. IMS Messsysteme GmbH Machine Vision Surface Defect Inspection System Product and Services

Table 26. IMS Messsysteme GmbH Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. IMS Messsysteme GmbH Recent Developments/Updates

Table 28. ISRA VISION AG Basic Information, Manufacturing Base and Competitors

Table 29. ISRA VISION AG Major Business

Table 30. ISRA VISION AG Machine Vision Surface Defect Inspection System Product and Services

Table 31. ISRA VISION AG Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. ISRA VISION AG Recent Developments/Updates

Table 33. Synergx Basic Information, Manufacturing Base and Competitors

Table 34. Synergx Major Business

Table 35. Synergx Machine Vision Surface Defect Inspection System Product and Services

Table 36. Synergx Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Synergx Recent Developments/Updates

Table 38. Perceptron Basic Information, Manufacturing Base and Competitors

Table 39. Perceptron Major Business

Table 40. Perceptron Machine Vision Surface Defect Inspection System Product and Services

Table 41. Perceptron Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. Perceptron Recent Developments/Updates

Table 43. Inovision Basic Information, Manufacturing Base and Competitors

Table 44. Inovision Major Business

Table 45. Inovision Machine Vision Surface Defect Inspection System Product and Services

Table 46. Inovision Machine Vision Surface Defect Inspection System Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. Inovision Recent Developments/Updates

Table 48. Dark Field Technologies Basic Information, Manufacturing Base and Competitors

Table 49. Dark Field Technologies Major Business

Table 50. Dark Field Technologies Machine Vision Surface Defect Inspection System Product and Services

Table 51. Dark Field Technologies Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. Dark Field Technologies Recent Developments/Updates

Table 53. Hitachi High-Tech Basic Information, Manufacturing Base and Competitors

Table 54. Hitachi High-Tech Major Business

Table 55. Hitachi High-Tech Machine Vision Surface Defect Inspection System Product and Services

Table 56. Hitachi High-Tech Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Hitachi High-Tech Recent Developments/Updates

Table 58. Baumer Inspection Basic Information, Manufacturing Base and Competitors

Table 59. Baumer Inspection Major Business

Table 60. Baumer Inspection Machine Vision Surface Defect Inspection System Product and Services

Table 61. Baumer Inspection Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Baumer Inspection Recent Developments/Updates

Table 63. Icemi Basic Information, Manufacturing Base and Competitors

Table 64. Icemi Major Business

Table 65. Icemi Machine Vision Surface Defect Inspection System Product and Services

Table 66. Icemi Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Icemi Recent Developments/Updates

Table 68. AUTIS Engineering Basic Information, Manufacturing Base and Competitors

Table 69. AUTIS Engineering Major Business

Table 70. AUTIS Engineering Machine Vision Surface Defect Inspection System

Product and Services

Table 71. AUTIS Engineering Machine Vision Surface Defect Inspection System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. AUTIS Engineering Recent Developments/Updates

Table 73. Global Machine Vision Surface Defect Inspection System Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 74. Global Machine Vision Surface Defect Inspection System Revenue by Manufacturer (2018-2023) & (USD Million)

Table 75. Global Machine Vision Surface Defect Inspection System Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 76. Market Position of Manufacturers in Machine Vision Surface Defect Inspection System, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 77. Head Office and Machine Vision Surface Defect Inspection System Production Site of Key Manufacturer

Table 78. Machine Vision Surface Defect Inspection System Market: Company Product Type Footprint

Table 79. Machine Vision Surface Defect Inspection System Market: Company Product Application Footprint

Table 80. Machine Vision Surface Defect Inspection System New Market Entrants and Barriers to Market Entry

Table 81. Machine Vision Surface Defect Inspection System Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Machine Vision Surface Defect Inspection System Sales Quantity by Region (2018-2023) & (K Units)

Table 83. Global Machine Vision Surface Defect Inspection System Sales Quantity by Region (2024-2029) & (K Units)

Table 84. Global Machine Vision Surface Defect Inspection System Consumption Value by Region (2018-2023) & (USD Million)

Table 85. Global Machine Vision Surface Defect Inspection System Consumption Value by Region (2024-2029) & (USD Million)

Table 86. Global Machine Vision Surface Defect Inspection System Average Price by Region (2018-2023) & (US\$/Unit)

Table 87. Global Machine Vision Surface Defect Inspection System Average Price by Region (2024-2029) & (US\$/Unit)

Table 88. Global Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 89. Global Machine Vision Surface Defect Inspection System Sales Quantity by Type (2024-2029) & (K Units)

Table 90. Global Machine Vision Surface Defect Inspection System Consumption Value by Type (2018-2023) & (USD Million)

Table 91. Global Machine Vision Surface Defect Inspection System Consumption Value by Type (2024-2029) & (USD Million)

Table 92. Global Machine Vision Surface Defect Inspection System Average Price by Type (2018-2023) & (US\$/Unit)

Table 93. Global Machine Vision Surface Defect Inspection System Average Price by Type (2024-2029) & (US\$/Unit)

Table 94. Global Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 95. Global Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 96. Global Machine Vision Surface Defect Inspection System Consumption Value by Application (2018-2023) & (USD Million)

Table 97. Global Machine Vision Surface Defect Inspection System Consumption Value by Application (2024-2029) & (USD Million)

Table 98. Global Machine Vision Surface Defect Inspection System Average Price by Application (2018-2023) & (US\$/Unit)

Table 99. Global Machine Vision Surface Defect Inspection System Average Price by Application (2024-2029) & (US\$/Unit)

Table 100. North America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 101. North America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2024-2029) & (K Units)

Table 102. North America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 103. North America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 104. North America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2023) & (K Units)

Table 105. North America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2024-2029) & (K Units)

Table 106. North America Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2023) & (USD Million)

Table 107. North America Machine Vision Surface Defect Inspection System Consumption Value by Country (2024-2029) & (USD Million)

Table 108. Europe Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 109. Europe Machine Vision Surface Defect Inspection System Sales Quantity by

Type (2024-2029) & (K Units)

Table 110. Europe Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 111. Europe Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 112. Europe Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2023) & (K Units)

Table 113. Europe Machine Vision Surface Defect Inspection System Sales Quantity by Country (2024-2029) & (K Units)

Table 114. Europe Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2023) & (USD Million)

Table 115. Europe Machine Vision Surface Defect Inspection System Consumption Value by Country (2024-2029) & (USD Million)

Table 116. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 117. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Type (2024-2029) & (K Units)

Table 118. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 119. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 120. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Region (2018-2023) & (K Units)

Table 121. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity by Region (2024-2029) & (K Units)

Table 122. Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value by Region (2018-2023) & (USD Million)

Table 123. Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value by Region (2024-2029) & (USD Million)

Table 124. South America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 125. South America Machine Vision Surface Defect Inspection System Sales Quantity by Type (2024-2029) & (K Units)

Table 126. South America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 127. South America Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 128. South America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2018-2023) & (K Units)

Table 129. South America Machine Vision Surface Defect Inspection System Sales Quantity by Country (2024-2029) & (K Units)

Table 130. South America Machine Vision Surface Defect Inspection System Consumption Value by Country (2018-2023) & (USD Million)

Table 131. South America Machine Vision Surface Defect Inspection System Consumption Value by Country (2024-2029) & (USD Million)

Table 132. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Type (2018-2023) & (K Units)

Table 133. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Type (2024-2029) & (K Units)

Table 134. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Application (2018-2023) & (K Units)

Table 135. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Application (2024-2029) & (K Units)

Table 136. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Region (2018-2023) & (K Units)

Table 137. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity by Region (2024-2029) & (K Units)

Table 138. Middle East & Africa Machine Vision Surface Defect Inspection System Consumption Value by Region (2018-2023) & (USD Million)

Table 139. Middle East & Africa Machine Vision Surface Defect Inspection System Consumption Value by Region (2024-2029) & (USD Million)

Table 140. Machine Vision Surface Defect Inspection System Raw Material

Table 141. Key Manufacturers of Machine Vision Surface Defect Inspection System Raw Materials

Table 142. Machine Vision Surface Defect Inspection System Typical Distributors

Table 143. Machine Vision Surface Defect Inspection System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Machine Vision Surface Defect Inspection System Picture
- Figure 2. Global Machine Vision Surface Defect Inspection System Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Type in 2022
- Figure 4. Stereo Vision Inspection Examples
- Figure 5. Mottle Detection Examples
- Figure 6. OCR Technology Examples
- Figure 7. Global Machine Vision Surface Defect Inspection System Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Application in 2022
- Figure 9. Electronic Components Industry Examples
- Figure 10. Precision Parts Industry Examples
- Figure 11. New Energy Battery Industry Examples
- Figure 12. Automobile Industry Examples
- Figure 13. Medical Device Industry Examples
- Figure 14. Daily Chemical Industry Examples
- Figure 15. Others Examples
- Figure 16. Global Machine Vision Surface Defect Inspection System Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 17. Global Machine Vision Surface Defect Inspection System Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 18. Global Machine Vision Surface Defect Inspection System Sales Quantity (2018-2029) & (K Units)
- Figure 19. Global Machine Vision Surface Defect Inspection System Average Price (2018-2029) & (US\$/Unit)
- Figure 20. Global Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Manufacturer in 2022
- Figure 21. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Manufacturer in 2022
- Figure 22. Producer Shipments of Machine Vision Surface Defect Inspection System by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 23. Top 3 Machine Vision Surface Defect Inspection System Manufacturer (Consumption Value) Market Share in 2022

Figure 24. Top 6 Machine Vision Surface Defect Inspection System Manufacturer (Consumption Value) Market Share in 2022

Figure 25. Global Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Region (2018-2029)

Figure 26. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Region (2018-2029)

Figure 27. North America Machine Vision Surface Defect Inspection System Consumption Value (2018-2029) & (USD Million)

Figure 28. Europe Machine Vision Surface Defect Inspection System Consumption Value (2018-2029) & (USD Million)

Figure 29. Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value (2018-2029) & (USD Million)

Figure 30. South America Machine Vision Surface Defect Inspection System Consumption Value (2018-2029) & (USD Million)

Figure 31. Middle East & Africa Machine Vision Surface Defect Inspection System Consumption Value (2018-2029) & (USD Million)

Figure 32. Global Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 33. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Type (2018-2029)

Figure 34. Global Machine Vision Surface Defect Inspection System Average Price by Type (2018-2029) & (US\$/Unit)

Figure 35. Global Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 36. Global Machine Vision Surface Defect Inspection System Consumption Value Market Share by Application (2018-2029)

Figure 37. Global Machine Vision Surface Defect Inspection System Average Price by Application (2018-2029) & (US\$/Unit)

Figure 38. North America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 39. North America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 40. North America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Country (2018-2029)

Figure 41. North America Machine Vision Surface Defect Inspection System Consumption Value Market Share by Country (2018-2029)

Figure 42. United States Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 43. Canada Machine Vision Surface Defect Inspection System Consumption

Value and Growth Rate (2018-2029) & (USD Million)

Figure 44. Mexico Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 45. Europe Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 46. Europe Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 47. Europe Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Country (2018-2029)

Figure 48. Europe Machine Vision Surface Defect Inspection System Consumption Value Market Share by Country (2018-2029)

Figure 49. Germany Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. France Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. United Kingdom Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Russia Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 53. Italy Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 54. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 55. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 56. Asia-Pacific Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Region (2018-2029)

Figure 57. Asia-Pacific Machine Vision Surface Defect Inspection System Consumption Value Market Share by Region (2018-2029)

Figure 58. China Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Japan Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Korea Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. India Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. Southeast Asia Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 63. Australia Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 64. South America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 65. South America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 66. South America Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Country (2018-2029)

Figure 67. South America Machine Vision Surface Defect Inspection System Consumption Value Market Share by Country (2018-2029)

Figure 68. Brazil Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 69. Argentina Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 70. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Type (2018-2029)

Figure 71. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Application (2018-2029)

Figure 72. Middle East & Africa Machine Vision Surface Defect Inspection System Sales Quantity Market Share by Region (2018-2029)

Figure 73. Middle East & Africa Machine Vision Surface Defect Inspection System Consumption Value Market Share by Region (2018-2029)

Figure 74. Turkey Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Egypt Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. Saudi Arabia Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 77. South Africa Machine Vision Surface Defect Inspection System Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 78. Machine Vision Surface Defect Inspection System Market Drivers

Figure 79. Machine Vision Surface Defect Inspection System Market Restraints

Figure 80. Machine Vision Surface Defect Inspection System Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of Machine Vision Surface Defect Inspection System in 2022

Figure 83. Manufacturing Process Analysis of Machine Vision Surface Defect Inspection System

Figure 84. Machine Vision Surface Defect Inspection System Industrial Chain

Figure 85. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source

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