

Global AI Automated Visual Inspection (AVI) System Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on AI Automated Visual Inspection (AVI) System competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. An AI automated visual inspection (AVI) system is an advanced automated device that utilizes artificial intelligence technology for image recognition and processing. It employs deep learning algorithms to extract features from a large amount of image data and make judgments on the quality and defects of objects. The introduction of this system significantly enhances the quality control level in production processes, reducing errors and costs associated with manual inspection. Additionally, it provides manufacturers with real-time production monitoring capabilities, enabling them to promptly adjust production processes to ensure product stability and reliability. Furthermore, the AI automated visual inspection machine can be integrated with other devices on the production line, facilitating seamless data transmission and automation, thereby further improving production efficiency.

The global AI Automated Visual Inspection (AVI) System market size was estimated at USD 828.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global AI Automated Visual Inspection (AVI) System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global AI Automated Visual Inspection (AVI) System market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the AI Automated Visual Inspection (AVI) System market.

Global AI Automated Visual Inspection (AVI) System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Mycronic
Saki Corporation
YASUNAGA CORPORATION
OMRON
SUNGWOO HITECH
Taiyo Industrial

SCREEN PE Solutions
Shirai Electronics Industrial
Wilco AG
Syntegon Technology
Axom
Bonfiglioli Engineering
Boonlogic
Zhuhai NEXTAS
MACHVISION
UTECHZONE
Suzhou TZTEK Technology
Guangdong Waisei Silicon Wafers Technology
Shanghai DeepSight Technology
Dongguan RKE Intelligent Technology
CIMS Suzhou
Guangdong Zhengye Technolog
Suzhou Boshsek Intelligent Equipment Technology
Nanjing Joint Stars Technology

Market Segmentation (by Type)

?99%
?99%

Market Segmentation (by Application)

Pharmaceutical
Semiconductor
Electronics
Manufacturing
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of

MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the AI Automated Visual Inspection (AVI) System Market

Overview of the regional outlook of the AI Automated Visual Inspection (AVI) System Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the AI Automated Visual Inspection (AVI) System Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the

industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of AI Automated Visual Inspection (AVI) System, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of AI Automated Visual Inspection (AVI) System
- 1.2 Key Market Segments
 - 1.2.1 AI Automated Visual Inspection (AVI) System Segment by Type
 - 1.2.2 AI Automated Visual Inspection (AVI) System Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global AI Automated Visual Inspection (AVI) System Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global AI Automated Visual Inspection (AVI) System Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global AI Automated Visual Inspection (AVI) System Product Life Cycle
- 3.3 Global AI Automated Visual Inspection (AVI) System Sales by Manufacturers (2020-2025)
- 3.4 Global AI Automated Visual Inspection (AVI) System Revenue Market Share by Manufacturers (2020-2025)
- 3.5 AI Automated Visual Inspection (AVI) System Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global AI Automated Visual Inspection (AVI) System Average Price by Manufacturers (2020-2025)

- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 AI Automated Visual Inspection (AVI) System Market Competitive Situation and Trends
 - 3.8.1 AI Automated Visual Inspection (AVI) System Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest AI Automated Visual Inspection (AVI) System Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM INDUSTRY CHAIN ANALYSIS

- 4.1 AI Automated Visual Inspection (AVI) System Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global AI Automated Visual Inspection (AVI) System Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to AI Automated Visual Inspection (AVI) System Market
- 5.7 ESG Ratings of Leading Companies

6 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global AI Automated Visual Inspection (AVI) System Sales Market Share by Type (2020-2025)
- 6.3 Global AI Automated Visual Inspection (AVI) System Market Size by Type (2020-2025)
- 6.4 Global AI Automated Visual Inspection (AVI) System Price by Type (2020-2025)

7 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global AI Automated Visual Inspection (AVI) System Market Sales by Application (2020-2025)
- 7.3 Global AI Automated Visual Inspection (AVI) System Market Size (M USD) by Application (2020-2025)
- 7.4 Global AI Automated Visual Inspection (AVI) System Sales Growth Rate by Application (2020-2025)

8 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET SALES BY REGION

- 8.1 Global AI Automated Visual Inspection (AVI) System Sales by Region
 - 8.1.1 Global AI Automated Visual Inspection (AVI) System Sales by Region
 - 8.1.2 Global AI Automated Visual Inspection (AVI) System Sales Market Share by Region
- 8.2 Global AI Automated Visual Inspection (AVI) System Market Size by Region
 - 8.2.1 Global AI Automated Visual Inspection (AVI) System Market Size by Region
 - 8.2.2 Global AI Automated Visual Inspection (AVI) System Market Size by Region
- 8.3 North America
 - 8.3.1 North America AI Automated Visual Inspection (AVI) System Sales by Country
 - 8.3.2 North America AI Automated Visual Inspection (AVI) System Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe AI Automated Visual Inspection (AVI) System Sales by Country

8.4.2 Europe AI Automated Visual Inspection (AVI) System Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific AI Automated Visual Inspection (AVI) System Sales by Region

8.5.2 Asia Pacific AI Automated Visual Inspection (AVI) System Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America AI Automated Visual Inspection (AVI) System Sales by Country

8.6.2 South America AI Automated Visual Inspection (AVI) System Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa AI Automated Visual Inspection (AVI) System Sales by Region

8.7.2 Middle East and Africa AI Automated Visual Inspection (AVI) System Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET PRODUCTION BY REGION

9.1 Global Production of AI Automated Visual Inspection (AVI) System by Region(2020-2025)

9.2 Global AI Automated Visual Inspection (AVI) System Revenue Market Share by Region (2020-2025)

9.3 Global AI Automated Visual Inspection (AVI) System Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America AI Automated Visual Inspection (AVI) System Production

9.4.1 North America AI Automated Visual Inspection (AVI) System Production Growth Rate (2020-2025)

9.4.2 North America AI Automated Visual Inspection (AVI) System Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe AI Automated Visual Inspection (AVI) System Production

9.5.1 Europe AI Automated Visual Inspection (AVI) System Production Growth Rate (2020-2025)

9.5.2 Europe AI Automated Visual Inspection (AVI) System Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan AI Automated Visual Inspection (AVI) System Production (2020-2025)

9.6.1 Japan AI Automated Visual Inspection (AVI) System Production Growth Rate (2020-2025)

9.6.2 Japan AI Automated Visual Inspection (AVI) System Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China AI Automated Visual Inspection (AVI) System Production (2020-2025)

9.7.1 China AI Automated Visual Inspection (AVI) System Production Growth Rate (2020-2025)

9.7.2 China AI Automated Visual Inspection (AVI) System Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Mycronic

10.1.1 Mycronic Basic Information

10.1.2 Mycronic AI Automated Visual Inspection (AVI) System Product Overview

10.1.3 Mycronic AI Automated Visual Inspection (AVI) System Product Market Performance

10.1.4 Mycronic Business Overview

10.1.5 Mycronic SWOT Analysis

10.1.6 Mycronic Recent Developments

10.2 Saki Corporation

10.2.1 Saki Corporation Basic Information

10.2.2 Saki Corporation AI Automated Visual Inspection (AVI) System Product Overview

- 10.2.3 Saki Corporation AI Automated Visual Inspection (AVI) System Product Market Performance
- 10.2.4 Saki Corporation Business Overview
- 10.2.5 Saki Corporation SWOT Analysis
- 10.2.6 Saki Corporation Recent Developments
- 10.3 YASUNAGA CORPORATION
 - 10.3.1 YASUNAGA CORPORATION Basic Information
 - 10.3.2 YASUNAGA CORPORATION AI Automated Visual Inspection (AVI) System Product Overview
 - 10.3.3 YASUNAGA CORPORATION AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.3.4 YASUNAGA CORPORATION Business Overview
 - 10.3.5 YASUNAGA CORPORATION SWOT Analysis
 - 10.3.6 YASUNAGA CORPORATION Recent Developments
- 10.4 OMRON
 - 10.4.1 OMRON Basic Information
 - 10.4.2 OMRON AI Automated Visual Inspection (AVI) System Product Overview
 - 10.4.3 OMRON AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.4.4 OMRON Business Overview
 - 10.4.5 OMRON Recent Developments
- 10.5 SUNGWOO HITECH
 - 10.5.1 SUNGWOO HITECH Basic Information
 - 10.5.2 SUNGWOO HITECH AI Automated Visual Inspection (AVI) System Product Overview
 - 10.5.3 SUNGWOO HITECH AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.5.4 SUNGWOO HITECH Business Overview
 - 10.5.5 SUNGWOO HITECH Recent Developments
- 10.6 Taiyo Industrial
 - 10.6.1 Taiyo Industrial Basic Information
 - 10.6.2 Taiyo Industrial AI Automated Visual Inspection (AVI) System Product Overview
 - 10.6.3 Taiyo Industrial AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.6.4 Taiyo Industrial Business Overview
 - 10.6.5 Taiyo Industrial Recent Developments
- 10.7 SCREEN PE Solutions
 - 10.7.1 SCREEN PE Solutions Basic Information
 - 10.7.2 SCREEN PE Solutions AI Automated Visual Inspection (AVI) System Product

Overview

10.7.3 SCREEN PE Solutions AI Automated Visual Inspection (AVI) System Product

Market Performance

10.7.4 SCREEN PE Solutions Business Overview

10.7.5 SCREEN PE Solutions Recent Developments

10.8 Shirai Electronics Industrial

10.8.1 Shirai Electronics Industrial Basic Information

10.8.2 Shirai Electronics Industrial AI Automated Visual Inspection (AVI) System

Product Overview

10.8.3 Shirai Electronics Industrial AI Automated Visual Inspection (AVI) System

Product Market Performance

10.8.4 Shirai Electronics Industrial Business Overview

10.8.5 Shirai Electronics Industrial Recent Developments

10.9 Wilco AG

10.9.1 Wilco AG Basic Information

10.9.2 Wilco AG AI Automated Visual Inspection (AVI) System Product Overview

10.9.3 Wilco AG AI Automated Visual Inspection (AVI) System Product Market

Performance

10.9.4 Wilco AG Business Overview

10.9.5 Wilco AG Recent Developments

10.10 Syntegon Technology

10.10.1 Syntegon Technology Basic Information

10.10.2 Syntegon Technology AI Automated Visual Inspection (AVI) System Product

Overview

10.10.3 Syntegon Technology AI Automated Visual Inspection (AVI) System Product

Market Performance

10.10.4 Syntegon Technology Business Overview

10.10.5 Syntegon Technology Recent Developments

10.11 Axom

10.11.1 Axom Basic Information

10.11.2 Axom AI Automated Visual Inspection (AVI) System Product Overview

10.11.3 Axom AI Automated Visual Inspection (AVI) System Product Market

Performance

10.11.4 Axom Business Overview

10.11.5 Axom Recent Developments

10.12 Bonfiglioli Engineering

10.12.1 Bonfiglioli Engineering Basic Information

10.12.2 Bonfiglioli Engineering AI Automated Visual Inspection (AVI) System Product

Overview

- 10.12.3 Bonfiglioli Engineering AI Automated Visual Inspection (AVI) System Product Market Performance
- 10.12.4 Bonfiglioli Engineering Business Overview
- 10.12.5 Bonfiglioli Engineering Recent Developments
- 10.13 Boonlogic
 - 10.13.1 Boonlogic Basic Information
 - 10.13.2 Boonlogic AI Automated Visual Inspection (AVI) System Product Overview
 - 10.13.3 Boonlogic AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.13.4 Boonlogic Business Overview
 - 10.13.5 Boonlogic Recent Developments
- 10.14 Zhuhai NEXTAS
 - 10.14.1 Zhuhai NEXTAS Basic Information
 - 10.14.2 Zhuhai NEXTAS AI Automated Visual Inspection (AVI) System Product Overview
 - 10.14.3 Zhuhai NEXTAS AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.14.4 Zhuhai NEXTAS Business Overview
 - 10.14.5 Zhuhai NEXTAS Recent Developments
- 10.15 MACHVISION
 - 10.15.1 MACHVISION Basic Information
 - 10.15.2 MACHVISION AI Automated Visual Inspection (AVI) System Product Overview
 - 10.15.3 MACHVISION AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.15.4 MACHVISION Business Overview
 - 10.15.5 MACHVISION Recent Developments
- 10.16 UTECHZONE
 - 10.16.1 UTECHZONE Basic Information
 - 10.16.2 UTECHZONE AI Automated Visual Inspection (AVI) System Product Overview
 - 10.16.3 UTECHZONE AI Automated Visual Inspection (AVI) System Product Market Performance
 - 10.16.4 UTECHZONE Business Overview
 - 10.16.5 UTECHZONE Recent Developments
- 10.17 Suzhou TZTEK Technology
 - 10.17.1 Suzhou TZTEK Technology Basic Information
 - 10.17.2 Suzhou TZTEK Technology AI Automated Visual Inspection (AVI) System Product Overview
 - 10.17.3 Suzhou TZTEK Technology AI Automated Visual Inspection (AVI) System

Product Market Performance

10.17.4 Suzhou TZTEK Technology Business Overview

10.17.5 Suzhou TZTEK Technology Recent Developments

10.18 Guangdong Waisei Silicon Wafers Technology

10.18.1 Guangdong Waisei Silicon Wafers Technology Basic Information

10.18.2 Guangdong Waisei Silicon Wafers Technology AI Automated Visual Inspection (AVI) System Product Overview

10.18.3 Guangdong Waisei Silicon Wafers Technology AI Automated Visual Inspection (AVI) System Product Market Performance

10.18.4 Guangdong Waisei Silicon Wafers Technology Business Overview

10.18.5 Guangdong Waisei Silicon Wafers Technology Recent Developments

10.19 Shanghai DeepSight Technology

10.19.1 Shanghai DeepSight Technology Basic Information

10.19.2 Shanghai DeepSight Technology AI Automated Visual Inspection (AVI)

System Product Overview

10.19.3 Shanghai DeepSight Technology AI Automated Visual Inspection (AVI)

System Product Market Performance

10.19.4 Shanghai DeepSight Technology Business Overview

10.19.5 Shanghai DeepSight Technology Recent Developments

10.20 Dongguan RKE Intelligent Technology

10.20.1 Dongguan RKE Intelligent Technology Basic Information

10.20.2 Dongguan RKE Intelligent Technology AI Automated Visual Inspection (AVI)

System Product Overview

10.20.3 Dongguan RKE Intelligent Technology AI Automated Visual Inspection (AVI)

System Product Market Performance

10.20.4 Dongguan RKE Intelligent Technology Business Overview

10.20.5 Dongguan RKE Intelligent Technology Recent Developments

10.21 CIMS Suzhou

10.21.1 CIMS Suzhou Basic Information

10.21.2 CIMS Suzhou AI Automated Visual Inspection (AVI) System Product Overview

10.21.3 CIMS Suzhou AI Automated Visual Inspection (AVI) System Product Market Performance

10.21.4 CIMS Suzhou Business Overview

10.21.5 CIMS Suzhou Recent Developments

10.22 Guangdong Zhengye Technolog

10.22.1 Guangdong Zhengye Technolog Basic Information

10.22.2 Guangdong Zhengye Technolog AI Automated Visual Inspection (AVI) System Product Overview

10.22.3 Guangdong Zhengye Technolog AI Automated Visual Inspection (AVI) System

Product Market Performance

10.22.4 Guangdong Zhengye Technolog Business Overview

10.22.5 Guangdong Zhengye Technolog Recent Developments

10.23 Suzhou Boshsek Intelligent Equipment Technology

10.23.1 Suzhou Boshsek Intelligent Equipment Technology Basic Information

10.23.2 Suzhou Boshsek Intelligent Equipment Technology AI Automated Visual Inspection (AVI) System Product Overview

10.23.3 Suzhou Boshsek Intelligent Equipment Technology AI Automated Visual Inspection (AVI) System Product Market Performance

10.23.4 Suzhou Boshsek Intelligent Equipment Technology Business Overview

10.23.5 Suzhou Boshsek Intelligent Equipment Technology Recent Developments

10.24 Nanjing Joint Stars Technology

10.24.1 Nanjing Joint Stars Technology Basic Information

10.24.2 Nanjing Joint Stars Technology AI Automated Visual Inspection (AVI) System Product Overview

10.24.3 Nanjing Joint Stars Technology AI Automated Visual Inspection (AVI) System Product Market Performance

10.24.4 Nanjing Joint Stars Technology Business Overview

10.24.5 Nanjing Joint Stars Technology Recent Developments

11 AI AUTOMATED VISUAL INSPECTION (AVI) SYSTEM MARKET FORECAST BY REGION

11.1 Global AI Automated Visual Inspection (AVI) System Market Size Forecast

11.2 Global AI Automated Visual Inspection (AVI) System Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe AI Automated Visual Inspection (AVI) System Market Size Forecast by Country

11.2.3 Asia Pacific AI Automated Visual Inspection (AVI) System Market Size Forecast by Region

11.2.4 South America AI Automated Visual Inspection (AVI) System Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of AI Automated Visual Inspection (AVI) System by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global AI Automated Visual Inspection (AVI) System Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of AI Automated Visual Inspection (AVI) System by Type (2026-2035)

12.1.2 Global AI Automated Visual Inspection (AVI) System Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of AI Automated Visual Inspection (AVI) System by Type (2026-2035)

12.2 Global AI Automated Visual Inspection (AVI) System Market Forecast by Application (2026-2035)

12.2.1 Global AI Automated Visual Inspection (AVI) System Sales (K Units) Forecast by Application

12.2.2 Global AI Automated Visual Inspection (AVI) System Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global AI Automated Visual Inspection (AVI) System Market Size by Type (M USD)

Table 4. Global AI Automated Visual Inspection (AVI) System Market Size by Application

Table 5. AI Automated Visual Inspection (AVI) System Market Size Comparison by Region (M USD)

Table 6. Global AI Automated Visual Inspection (AVI) System Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Manufacturers (2020-2025)

Table 8. Global AI Automated Visual Inspection (AVI) System Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global AI Automated Visual Inspection (AVI) System Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in AI Automated Visual Inspection (AVI) System as of 2025)

Table 11. Global Market AI Automated Visual Inspection (AVI) System Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global AI Automated Visual Inspection (AVI) System Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. AI Automated Visual Inspection (AVI) System Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading

Countries

Table 26. Global AI Automated Visual Inspection (AVI) System Sales by Type (K Units)

Table 27. Global AI Automated Visual Inspection (AVI) System Market Size by Type (M USD)

Table 28. Global AI Automated Visual Inspection (AVI) System Sales (K Units) by Type (2020-2025)

Table 29. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Type (2020-2025)

Table 30. Global AI Automated Visual Inspection (AVI) System Market Size (M USD) by Type (2020-2025)

Table 31. Global AI Automated Visual Inspection (AVI) System Market Share by Type (2020-2025)

Table 32. Global AI Automated Visual Inspection (AVI) System Price (USD/Unit) by Type (2020-2025)

Table 33. Global AI Automated Visual Inspection (AVI) System Sales (K Units) by Application

Table 34. Global AI Automated Visual Inspection (AVI) System Market Size by Application

Table 35. Global AI Automated Visual Inspection (AVI) System Sales by Application (2020-2025) & (K Units)

Table 36. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Application (2020-2025)

Table 37. Global AI Automated Visual Inspection (AVI) System Market Size by Application (2020-2025) & (M USD)

Table 38. Global AI Automated Visual Inspection (AVI) System Market Share by Application (2020-2025)

Table 39. Global AI Automated Visual Inspection (AVI) System Sales Growth Rate by Application (2020-2025)

Table 40. Global AI Automated Visual Inspection (AVI) System Sales by Region (2020-2025) & (K Units)

Table 41. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Region (2020-2025)

Table 42. Global AI Automated Visual Inspection (AVI) System Market Size by Region (2020-2025) & (M USD)

Table 43. Global AI Automated Visual Inspection (AVI) System Market Size by Region (2020-2025)

Table 44. North America AI Automated Visual Inspection (AVI) System Sales by Country (2020-2025) & (K Units)

Table 45. North America AI Automated Visual Inspection (AVI) System Market Size by

Country (2020-2025) & (M USD)

Table 46. Europe AI Automated Visual Inspection (AVI) System Sales by Country (2020-2025) & (K Units)

Table 47. Europe AI Automated Visual Inspection (AVI) System Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific AI Automated Visual Inspection (AVI) System Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific AI Automated Visual Inspection (AVI) System Market Size by Region (2020-2025) & (M USD)

Table 50. South America AI Automated Visual Inspection (AVI) System Sales by Country (2020-2025) & (K Units)

Table 51. South America AI Automated Visual Inspection (AVI) System Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa AI Automated Visual Inspection (AVI) System Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa AI Automated Visual Inspection (AVI) System Market Size by Region (2020-2025) & (M USD)

Table 54. Global AI Automated Visual Inspection (AVI) System Production (K Units) by Region(2020-2025)

Table 55. Global AI Automated Visual Inspection (AVI) System Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global AI Automated Visual Inspection (AVI) System Revenue Market Share by Region (2020-2025)

Table 57. Global AI Automated Visual Inspection (AVI) System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America AI Automated Visual Inspection (AVI) System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe AI Automated Visual Inspection (AVI) System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan AI Automated Visual Inspection (AVI) System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China AI Automated Visual Inspection (AVI) System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Mycronic Basic Information

Table 63. Mycronic AI Automated Visual Inspection (AVI) System Product Overview

Table 64. Mycronic AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Mycronic Business Overview

Table 66. Mycronic SWOT Analysis

- Table 67. Mycronic Recent Developments
- Table 68. Saki Corporation Basic Information
- Table 69. Saki Corporation AI Automated Visual Inspection (AVI) System Product Overview
- Table 70. Saki Corporation AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Saki Corporation Business Overview
- Table 72. Saki Corporation SWOT Analysis
- Table 73. Saki Corporation Recent Developments
- Table 74. YASUNAGA CORPORATION Basic Information
- Table 75. YASUNAGA CORPORATION AI Automated Visual Inspection (AVI) System Product Overview
- Table 76. YASUNAGA CORPORATION AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. YASUNAGA CORPORATION Business Overview
- Table 78. YASUNAGA CORPORATION SWOT Analysis
- Table 79. YASUNAGA CORPORATION Recent Developments
- Table 80. OMRON Basic Information
- Table 81. OMRON AI Automated Visual Inspection (AVI) System Product Overview
- Table 82. OMRON AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. OMRON Business Overview
- Table 84. OMRON Recent Developments
- Table 85. SUNGWOO HITECH Basic Information
- Table 86. SUNGWOO HITECH AI Automated Visual Inspection (AVI) System Product Overview
- Table 87. SUNGWOO HITECH AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. SUNGWOO HITECH Business Overview
- Table 89. SUNGWOO HITECH Recent Developments
- Table 90. Taiyo Industrial Basic Information
- Table 91. Taiyo Industrial AI Automated Visual Inspection (AVI) System Product Overview
- Table 92. Taiyo Industrial AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Taiyo Industrial Business Overview
- Table 94. Taiyo Industrial Recent Developments
- Table 95. SCREEN PE Solutions Basic Information
- Table 96. SCREEN PE Solutions AI Automated Visual Inspection (AVI) System Product

Overview

Table 97. SCREEN PE Solutions AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. SCREEN PE Solutions Business Overview

Table 99. SCREEN PE Solutions Recent Developments

Table 100. Shirai Electronics Industrial Basic Information

Table 101. Shirai Electronics Industrial AI Automated Visual Inspection (AVI) System Product Overview

Table 102. Shirai Electronics Industrial AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Shirai Electronics Industrial Business Overview

Table 104. Shirai Electronics Industrial Recent Developments

Table 105. Wilco AG Basic Information

Table 106. Wilco AG AI Automated Visual Inspection (AVI) System Product Overview

Table 107. Wilco AG AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Wilco AG Business Overview

Table 109. Wilco AG Recent Developments

Table 110. Syntegon Technology Basic Information

Table 111. Syntegon Technology AI Automated Visual Inspection (AVI) System Product Overview

Table 112. Syntegon Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Syntegon Technology Business Overview

Table 114. Syntegon Technology Recent Developments

Table 115. Axom Basic Information

Table 116. Axom AI Automated Visual Inspection (AVI) System Product Overview

Table 117. Axom AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Axom Business Overview

Table 119. Axom Recent Developments

Table 120. Bonfiglioli Engineering Basic Information

Table 121. Bonfiglioli Engineering AI Automated Visual Inspection (AVI) System Product Overview

Table 122. Bonfiglioli Engineering AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Bonfiglioli Engineering Business Overview

Table 124. Bonfiglioli Engineering Recent Developments

Table 125. Boonlogic Basic Information

- Table 126. Boonlogic AI Automated Visual Inspection (AVI) System Product Overview
- Table 127. Boonlogic AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Boonlogic Business Overview
- Table 129. Boonlogic Recent Developments
- Table 130. Zhuhai NEXTAS Basic Information
- Table 131. Zhuhai NEXTAS AI Automated Visual Inspection (AVI) System Product Overview
- Table 132. Zhuhai NEXTAS AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Zhuhai NEXTAS Business Overview
- Table 134. Zhuhai NEXTAS Recent Developments
- Table 135. MACHVISION Basic Information
- Table 136. MACHVISION AI Automated Visual Inspection (AVI) System Product Overview
- Table 137. MACHVISION AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. MACHVISION Business Overview
- Table 139. MACHVISION Recent Developments
- Table 140. UTECHZONE Basic Information
- Table 141. UTECHZONE AI Automated Visual Inspection (AVI) System Product Overview
- Table 142. UTECHZONE AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. UTECHZONE Business Overview
- Table 144. UTECHZONE Recent Developments
- Table 145. Suzhou TZTEK Technology Basic Information
- Table 146. Suzhou TZTEK Technology AI Automated Visual Inspection (AVI) System Product Overview
- Table 147. Suzhou TZTEK Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Suzhou TZTEK Technology Business Overview
- Table 149. Suzhou TZTEK Technology Recent Developments
- Table 150. Guangdong Waisei Silicon Wafers Technology Basic Information
- Table 151. Guangdong Waisei Silicon Wafers Technology AI Automated Visual Inspection (AVI) System Product Overview
- Table 152. Guangdong Waisei Silicon Wafers Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 153. Guangdong Waisei Silicon Wafers Technology Business Overview
- Table 154. Guangdong Waisei Silicon Wafers Technology Recent Developments
- Table 155. Shanghai DeepSight Technology Basic Information
- Table 156. Shanghai DeepSight Technology AI Automated Visual Inspection (AVI) System Product Overview
- Table 157. Shanghai DeepSight Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 158. Shanghai DeepSight Technology Business Overview
- Table 159. Shanghai DeepSight Technology Recent Developments
- Table 160. Dongguan RKE Intelligent Technology Basic Information
- Table 161. Dongguan RKE Intelligent Technology AI Automated Visual Inspection (AVI) System Product Overview
- Table 162. Dongguan RKE Intelligent Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 163. Dongguan RKE Intelligent Technology Business Overview
- Table 164. Dongguan RKE Intelligent Technology Recent Developments
- Table 165. CIMS Suzhou Basic Information
- Table 166. CIMS Suzhou AI Automated Visual Inspection (AVI) System Product Overview
- Table 167. CIMS Suzhou AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 168. CIMS Suzhou Business Overview
- Table 169. CIMS Suzhou Recent Developments
- Table 170. Guangdong Zhengye Technolog Basic Information
- Table 171. Guangdong Zhengye Technolog AI Automated Visual Inspection (AVI) System Product Overview
- Table 172. Guangdong Zhengye Technolog AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 173. Guangdong Zhengye Technolog Business Overview
- Table 174. Guangdong Zhengye Technolog Recent Developments
- Table 175. Suzhou Boshsek Intelligent Equipment Technology Basic Information
- Table 176. Suzhou Boshsek Intelligent Equipment Technology AI Automated Visual Inspection (AVI) System Product Overview
- Table 177. Suzhou Boshsek Intelligent Equipment Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. Suzhou Boshsek Intelligent Equipment Technology Business Overview

Table 179. Suzhou Boshsek Intelligent Equipment Technology Recent Developments

Table 180. Nanjing Joint Stars Technology Basic Information

Table 181. Nanjing Joint Stars Technology AI Automated Visual Inspection (AVI) System Product Overview

Table 182. Nanjing Joint Stars Technology AI Automated Visual Inspection (AVI) System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Nanjing Joint Stars Technology Business Overview

Table 184. Nanjing Joint Stars Technology Recent Developments

Table 185. Global AI Automated Visual Inspection (AVI) System Sales Forecast by Region (2026-2035) & (K Units)

Table 186. Global AI Automated Visual Inspection (AVI) System Market Size Forecast by Region (2026-2035) & (M USD)

Table 187. North America AI Automated Visual Inspection (AVI) System Sales Forecast by Country (2026-2035) & (K Units)

Table 188. North America AI Automated Visual Inspection (AVI) System Market Size Forecast by Country (2026-2035) & (M USD)

Table 189. Europe AI Automated Visual Inspection (AVI) System Sales Forecast by Country (2026-2035) & (K Units)

Table 190. Europe AI Automated Visual Inspection (AVI) System Market Size Forecast by Country (2026-2035) & (M USD)

Table 191. Asia Pacific AI Automated Visual Inspection (AVI) System Sales Forecast by Region (2026-2035) & (K Units)

Table 192. Asia Pacific AI Automated Visual Inspection (AVI) System Market Size Forecast by Region (2026-2035) & (M USD)

Table 193. South America AI Automated Visual Inspection (AVI) System Sales Forecast by Country (2026-2035) & (K Units)

Table 194. South America AI Automated Visual Inspection (AVI) System Market Size Forecast by Country (2026-2035) & (M USD)

Table 195. Middle East and Africa AI Automated Visual Inspection (AVI) System Sales Forecast by Country (2026-2035) & (Units)

Table 196. Middle East and Africa AI Automated Visual Inspection (AVI) System Market Size Forecast by Country (2026-2035) & (M USD)

Table 197. Global AI Automated Visual Inspection (AVI) System Sales Forecast by Type (2026-2035) & (K Units)

Table 198. Global AI Automated Visual Inspection (AVI) System Market Size Forecast by Type (2026-2035) & (M USD)

Table 199. Global AI Automated Visual Inspection (AVI) System Price Forecast by Type

(2026-2035) & (USD/Unit)

Table 200. Global AI Automated Visual Inspection (AVI) System Sales (K Units)

Forecast by Application (2026-2035)

Table 201. Global AI Automated Visual Inspection (AVI) System Market Size Forecast
by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of AI Automated Visual Inspection (AVI) System

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global AI Automated Visual Inspection (AVI) System Market Size (M USD), 2025-2035

Figure 5. Global AI Automated Visual Inspection (AVI) System Market Size (M USD) (2020-2035)

Figure 6. Global AI Automated Visual Inspection (AVI) System Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. AI Automated Visual Inspection (AVI) System Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global AI Automated Visual Inspection (AVI) System Product Life Cycle

Figure 13. AI Automated Visual Inspection (AVI) System Sales Share by Manufacturers in 2025

Figure 14. Global AI Automated Visual Inspection (AVI) System Revenue Share by Manufacturers in 2025

Figure 15. AI Automated Visual Inspection (AVI) System Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market AI Automated Visual Inspection (AVI) System Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by AI Automated Visual Inspection (AVI) System Revenue in 2025

Figure 18. Industry Chain Map of AI Automated Visual Inspection (AVI) System

Figure 19. Global AI Automated Visual Inspection (AVI) System Market PEST Analysis

Figure 20. Global AI Automated Visual Inspection (AVI) System Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

- Figure 26. Global AI Automated Visual Inspection (AVI) System Market Share by Type
- Figure 27. Sales Market Share of AI Automated Visual Inspection (AVI) System by Type (2020-2025)
- Figure 28. Sales Market Share of AI Automated Visual Inspection (AVI) System by Type in 2025
- Figure 29. Market Share of AI Automated Visual Inspection (AVI) System by Type (2020-2025)
- Figure 30. Market Share of AI Automated Visual Inspection (AVI) System by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global AI Automated Visual Inspection (AVI) System Market Share by Application
- Figure 33. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Application (2020-2025)
- Figure 34. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Application in 2025
- Figure 35. Global AI Automated Visual Inspection (AVI) System Market Share by Application (2020-2025)
- Figure 36. Global AI Automated Visual Inspection (AVI) System Market Share by Application in 2025
- Figure 37. Global AI Automated Visual Inspection (AVI) System Sales Growth Rate by Application (2020-2025)
- Figure 38. Global AI Automated Visual Inspection (AVI) System Sales Market Share by Region (2020-2025)
- Figure 39. Global AI Automated Visual Inspection (AVI) System Market Size by Region (2020-2025)
- Figure 40. North America AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America AI Automated Visual Inspection (AVI) System Sales Market Share by Country in 2024
- Figure 43. North America AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America AI Automated Visual Inspection (AVI) System Market Size by Country in 2024
- Figure 45. U.S. AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. AI Automated Visual Inspection (AVI) System Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 47. Canada AI Automated Visual Inspection (AVI) System Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada AI Automated Visual Inspection (AVI) System Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico AI Automated Visual Inspection (AVI) System Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico AI Automated Visual Inspection (AVI) System Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe AI Automated Visual Inspection (AVI) System Sales Market Share by Country in 2024

Figure 53. Europe AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe AI Automated Visual Inspection (AVI) System Market Size by Country in 2024

Figure 55. Germany AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific AI Automated Visual Inspection (AVI) System Sales and Growth Rate (K Units)

Figure 66. Asia Pacific AI Automated Visual Inspection (AVI) System Sales Market Share by Region in 2024

Figure 67. Asia Pacific AI Automated Visual Inspection (AVI) System Market Size by Region in 2024

Figure 68. China AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America AI Automated Visual Inspection (AVI) System Sales and Growth Rate (K Units)

Figure 79. South America AI Automated Visual Inspection (AVI) System Sales Market Share by Country in 2024

Figure 80. South America AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (M USD)

Figure 81. South America AI Automated Visual Inspection (AVI) System Market Size by Country in 2024

Figure 82. Brazil AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina AI Automated Visual Inspection (AVI) System Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa AI Automated Visual Inspection (AVI) System Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa AI Automated Visual Inspection (AVI) System Sales Market Share by Region in 2024

Figure 90. Middle East and Africa AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa AI Automated Visual Inspection (AVI) System Market Size by Region in 2024

Figure 92. Saudi Arabia AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa AI Automated Visual Inspection (AVI) System Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa AI Automated Visual Inspection (AVI) System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global AI Automated Visual Inspection (AVI) System Production Market Share by Region (2020-2025)

Figure 103. North America AI Automated Visual Inspection (AVI) System Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe AI Automated Visual Inspection (AVI) System Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan AI Automated Visual Inspection (AVI) System Production (K Units) Growth Rate (2020-2025)

Figure 106. China AI Automated Visual Inspection (AVI) System Production (K Units) Growth Rate (2020-2025)

Figure 107. Global AI Automated Visual Inspection (AVI) System Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global AI Automated Visual Inspection (AVI) System Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global AI Automated Visual Inspection (AVI) System Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global AI Automated Visual Inspection (AVI) System Market Share Forecast by Type (2026-2035)

Figure 111. Global AI Automated Visual Inspection (AVI) System Sales Forecast by Application (2026-2035)

Figure 112. Global AI Automated Visual Inspection (AVI) System Market Share Forecast by Application (2026-2035)

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