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Global Smart Visual Inspection Systems Market Growth 2025-2031

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Abstracts

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The global Automotive Active Grille Shutters market size is predicted to grow from US$ 1755 million in 2025 to US$ 2722 million in 2031; it is expected to grow at a CAGR of 7.6% from 2025 to 2031.

Automotive active grille shutters are a system of automatically controlled louvers or vanes positioned in front of a vehicle's radiator. These shutters open and close to regulate airflow to the engine compartment. When cooling is needed, the shutters open to allow air to flow through the radiator. When cooling is not required, such as during warm-up or highway cruising, the shutters close to improve aerodynamics, reducing drag and improving fuel efficiency.

The trend in active grille shutter technology is focused on improving performance, expanding functionality, and reducing complexity. Key trends include: enhanced control algorithms that consider a wider range of parameters, such as engine temperature, vehicle speed, ambient temperature, and even driving style, for more precise airflow management; improved actuator designs for faster opening and closing times, as well as increased durability and reliability in harsh environments; integration with other vehicle systems, such as the climate control system and engine management system, for optimized overall vehicle performance; the use of lighter-weight materials, such as plastics and composites, to reduce weight and improve fuel efficiency; and the development of more compact designs to allow for greater styling flexibility. Furthermore, there's a growing emphasis on predictive control strategies that anticipate cooling needs based on navigation data or traffic conditions, enabling proactive shutter adjustments. The trend is also towards more sophisticated diagnostic capabilities,

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allowing for early detection of potential issues. This aligns with the automotive industry's focus on improving fuel economy, reducing emissions, and enhancing vehicle performance and aerodynamics.

The Automotive Active Grille Shutters (AGS) market is part of the larger trend toward increasing vehicle fuel efficiency, aerodynamics, and reducing emissions. Active grille shutters are a key component in improving the overall performance and efficiency of modern vehicles by optimizing airflow to the engine and cooling systems. These shutters adjust automatically depending on driving conditions, contributing to better fuel economy and reduced environmental impact. As the automotive industry focuses on innovation, fuel efficiency, and emission standards, the active grille shutters market is witnessing significant growth.

Fuel efficiency and CO2 emission reduction are among the top priorities for automakers due to stringent government regulations, especially in regions like the European Union, North America, and China.

Active grille shutters improve aerodynamics by controlling airflow to the engine and cooling systems, reducing drag and fuel consumption, particularly at high speeds. By optimizing airflow, they enhance vehicle performance and contribute to meeting emission reduction standards.

Regulatory frameworks such as Euro 6, CAFE (Corporate Average Fuel Economy) standards, and fuel economy regulations in various countries continue to encourage the adoption of AGS to improve vehicle efficiency.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Active Grille Shutters Industry Forecast” looks at past sales and reviews total world Automotive Active Grille Shutters sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Active Grille Shutters sales for 2025 through 2031. With Automotive Active Grille Shutters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Active Grille Shutters industry.

This Insight Report provides a comprehensive analysis of the global Automotive Active Grille Shutters landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Active Grille Shutters portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Active Grille Shutters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Active Grille Shutters and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Active Grille Shutters.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Active Grille Shutters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Visible Type

Non-Visible Type

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

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

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

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

Rochling

Valeo

Magna International

Wirthwein

SRG Global

Batz

HBPO GmbH

Techniplas

Brose Fahrzeugteile

STARLITE

Mirror Controls International

Huatong Automotive Molding

Tong Yang Group

Sonceboz

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Active Grille Shutters market?

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What factors are driving Automotive Active Grille Shutters market growth, globally and by region?

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

How do Automotive Active Grille Shutters market opportunities vary by end market size?

How does Automotive Active Grille Shutters break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Smart Visual Inspection Systems Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Smart Visual Inspection Systems by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Smart Visual Inspection Systems by Country/Region, 2020, 2024 & 2031
2.2 Smart Visual Inspection Systems Segment by Type
  2.2.1 Computer Vision-based Systems
  2.2.2 Deep Learning-based Systems
  2.2.3 Machine Learning-based Systems
  2.2.4 Others
2.3 Smart Visual Inspection Systems Sales by Type
  2.3.1 Global Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
  2.3.2 Global Smart Visual Inspection Systems Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Smart Visual Inspection Systems Sale Price by Type (2020-2025)
2.4 Smart Visual Inspection Systems Segment by Application
  2.4.1 Industrial Manufacturing
  2.4.2 Electronics and Semiconductor
  2.4.3 Automotive
  2.4.4 Others
2.5 Smart Visual Inspection Systems Sales by Application
  2.5.1 Global Smart Visual Inspection Systems Sale Market Share by Application

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(2020-2025)
2.5.2 Global Smart Visual Inspection Systems Revenue and Market Share by Application (2020-2025)
2.5.3 Global Smart Visual Inspection Systems Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Smart Visual Inspection Systems Breakdown Data by Company
3.1.1 Global Smart Visual Inspection Systems Annual Sales by Company (2020-2025)
3.1.2 Global Smart Visual Inspection Systems Sales Market Share by Company (2020-2025)
3.2 Global Smart Visual Inspection Systems Annual Revenue by Company (2020-2025)
3.2.1 Global Smart Visual Inspection Systems Revenue by Company (2020-2025)
3.2.2 Global Smart Visual Inspection Systems Revenue Market Share by Company (2020-2025)
3.3 Global Smart Visual Inspection Systems Sale Price by Company
3.4 Key Manufacturers Smart Visual Inspection Systems Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Smart Visual Inspection Systems Product Location Distribution
3.4.2 Players Smart Visual Inspection Systems Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SMART VISUAL INSPECTION SYSTEMS BY GEOGRAPHIC REGION

4.1 World Historic Smart Visual Inspection Systems Market Size by Geographic Region (2020-2025)
4.1.1 Global Smart Visual Inspection Systems Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Smart Visual Inspection Systems Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Smart Visual Inspection Systems Market Size by Country/Region (2020-2025)
4.2.1 Global Smart Visual Inspection Systems Annual Sales by Country/Region

+357 96 030922
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(2020-2025)
4.2.2 Global Smart Visual Inspection Systems Annual Revenue by Country/Region (2020-2025)
4.3 Americas Smart Visual Inspection Systems Sales Growth
4.4 APAC Smart Visual Inspection Systems Sales Growth
4.5 Europe Smart Visual Inspection Systems Sales Growth
4.6 Middle East & Africa Smart Visual Inspection Systems Sales Growth

5 AMERICAS

5.1 Americas Smart Visual Inspection Systems Sales by Country
5.1.1 Americas Smart Visual Inspection Systems Sales by Country (2020-2025)
5.1.2 Americas Smart Visual Inspection Systems Revenue by Country (2020-2025)
5.2 Americas Smart Visual Inspection Systems Sales by Type (2020-2025)
5.3 Americas Smart Visual Inspection Systems Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Smart Visual Inspection Systems Sales by Region
6.1.1 APAC Smart Visual Inspection Systems Sales by Region (2020-2025)
6.1.2 APAC Smart Visual Inspection Systems Revenue by Region (2020-2025)
6.2 APAC Smart Visual Inspection Systems Sales by Type (2020-2025)
6.3 APAC Smart Visual Inspection Systems Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Smart Visual Inspection Systems by Country
7.1.1 Europe Smart Visual Inspection Systems Sales by Country (2020-2025)

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7.1.2 Europe Smart Visual Inspection Systems Revenue by Country (2020-2025)
7.2 Europe Smart Visual Inspection Systems Sales by Type (2020-2025)
7.3 Europe Smart Visual Inspection Systems Sales by Application (2020-2025)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Smart Visual Inspection Systems by Country
8.1.1 Middle East & Africa Smart Visual Inspection Systems Sales by Country (2020-2025)
8.1.2 Middle East & Africa Smart Visual Inspection Systems Revenue by Country (2020-2025)
8.2 Middle East & Africa Smart Visual Inspection Systems Sales by Type (2020-2025)
8.3 Middle East & Africa Smart Visual Inspection Systems Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Smart Visual Inspection Systems
10.3 Manufacturing Process Analysis of Smart Visual Inspection Systems
10.4 Industry Chain Structure of Smart Visual Inspection Systems

11 MARKETING, DISTRIBUTORS AND CUSTOMER

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info@marketpublishers.com

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Smart Visual Inspection Systems Distributors
11.3 Smart Visual Inspection Systems Customer

12 WORLD FORECAST REVIEW FOR SMART VISUAL INSPECTION SYSTEMS BY GEOGRAPHIC REGION

12.1 Global Smart Visual Inspection Systems Market Size Forecast by Region
12.1.1 Global Smart Visual Inspection Systems Forecast by Region (2026-2031)
12.1.2 Global Smart Visual Inspection Systems Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Smart Visual Inspection Systems Forecast by Type (2026-2031)
12.7 Global Smart Visual Inspection Systems Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Cognex
13.1.1 Cognex Company Information
13.1.2 Cognex Smart Visual Inspection Systems Product Portfolios and Specifications
13.1.3 Cognex Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 Cognex Main Business Overview
13.1.5 Cognex Latest Developments
13.2 Keyence
13.2.1 Keyence Company Information
13.2.2 Keyence Smart Visual Inspection Systems Product Portfolios and Specifications
13.2.3 Keyence Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 Keyence Main Business Overview
13.2.5 Keyence Latest Developments
13.3 Omron
13.3.1 Omron Company Information

+357 96 030922
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13.3.2 Omron Smart Visual Inspection Systems Product Portfolios and Specifications
13.3.3 Omron Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 Omron Main Business Overview
13.3.5 Omron Latest Developments
13.4 Basler
13.4.1 Basler Company Information
13.4.2 Basler Smart Visual Inspection Systems Product Portfolios and Specifications
13.4.3 Basler Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Basler Main Business Overview
13.4.5 Basler Latest Developments
13.5 SICK
13.5.1 SICK Company Information
13.5.2 SICK Smart Visual Inspection Systems Product Portfolios and Specifications
13.5.3 SICK Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 SICK Main Business Overview
13.5.5 SICK Latest Developments
13.6 ISRA Vision
13.6.1 ISRA Vision Company Information
13.6.2 ISRA Vision Smart Visual Inspection Systems Product Portfolios and Specifications
13.6.3 ISRA Vision Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 ISRA Vision Main Business Overview
13.6.5 ISRA Vision Latest Developments
13.7 Zebra Medical Vision
13.7.1 Zebra Medical Vision Company Information
13.7.2 Zebra Medical Vision Smart Visual Inspection Systems Product Portfolios and Specifications
13.7.3 Zebra Medical Vision Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Zebra Medical Vision Main Business Overview
13.7.5 Zebra Medical Vision Latest Developments
13.8 Seiko Instruments
13.8.1 Seiko Instruments Company Information
13.8.2 Seiko Instruments Smart Visual Inspection Systems Product Portfolios and Specifications

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info@marketpublishers.com

13.8.3 Seiko Instruments Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Seiko Instruments Main Business Overview
13.8.5 Seiko Instruments Latest Developments
13.9 Teledyne DALSA
13.9.1 Teledyne DALSA Company Information
13.9.2 Teledyne DALSA Smart Visual Inspection Systems Product Portfolios and Specifications
13.9.3 Teledyne DALSA Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 Teledyne DALSA Main Business Overview
13.9.5 Teledyne DALSA Latest Developments
13.10 FANUC
13.10.1 FANUC Company Information
13.10.2 FANUC Smart Visual Inspection Systems Product Portfolios and Specifications
13.10.3 FANUC Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 FANUC Main Business Overview
13.10.5 FANUC Latest Developments
13.11 Vision Engineering
13.11.1 Vision Engineering Company Information
13.11.2 Vision Engineering Smart Visual Inspection Systems Product Portfolios and Specifications
13.11.3 Vision Engineering Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 Vision Engineering Main Business Overview
13.11.5 Vision Engineering Latest Developments
13.12 Bright Machines
13.12.1 Bright Machines Company Information
13.12.2 Bright Machines Smart Visual Inspection Systems Product Portfolios and Specifications
13.12.3 Bright Machines Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 Bright Machines Main Business Overview
13.12.5 Bright Machines Latest Developments
13.13 Ametek Surface Vision
13.13.1 Ametek Surface Vision Company Information
13.13.2 Ametek Surface Vision Smart Visual Inspection Systems Product Portfolios

+357 96 030922
info@marketpublishers.com

and Specifications
13.13.3 Ametek Surface Vision Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.13.4 Ametek Surface Vision Main Business Overview
13.13.5 Ametek Surface Vision Latest Developments
13.14 Qualitas Technologies
13.14.1 Qualitas Technologies Company Information
13.14.2 Qualitas Technologies Smart Visual Inspection Systems Product Portfolios and Specifications
13.14.3 Qualitas Technologies Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.14.4 Qualitas Technologies Main Business Overview
13.14.5 Qualitas Technologies Latest Developments
13.15 Epson Robotics
13.15.1 Epson Robotics Company Information
13.15.2 Epson Robotics Smart Visual Inspection Systems Product Portfolios and Specifications
13.15.3 Epson Robotics Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.15.4 Epson Robotics Main Business Overview
13.15.5 Epson Robotics Latest Developments
13.16 KUKA
13.16.1 KUKA Company Information
13.16.2 KUKA Smart Visual Inspection Systems Product Portfolios and Specifications
13.16.3 KUKA Smart Visual Inspection Systems Sales, Revenue, Price and Gross Margin (2020-2025)
13.16.4 KUKA Main Business Overview
13.16.5 KUKA Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Smart Visual Inspection Systems Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Smart Visual Inspection Systems Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Computer Vision-based Systems
Table 4. Major Players of Deep Learning-based Systems
Table 5. Major Players of Machine Learning-based Systems
Table 6. Major Players of Others
Table 7. Global Smart Visual Inspection Systems Sales by Type (2020-2025) & (K Units)
Table 8. Global Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
Table 9. Global Smart Visual Inspection Systems Revenue by Type (2020-2025) & ($ million)
Table 10. Global Smart Visual Inspection Systems Revenue Market Share by Type (2020-2025)
Table 11. Global Smart Visual Inspection Systems Sale Price by Type (2020-2025) & (K US$/Unit)
Table 12. Global Smart Visual Inspection Systems Sale by Application (2020-2025) & (K Units)
Table 13. Global Smart Visual Inspection Systems Sale Market Share by Application (2020-2025)
Table 14. Global Smart Visual Inspection Systems Revenue by Application (2020-2025) & ($ million)
Table 15. Global Smart Visual Inspection Systems Revenue Market Share by Application (2020-2025)
Table 16. Global Smart Visual Inspection Systems Sale Price by Application (2020-2025) & (K US$/Unit)
Table 17. Global Smart Visual Inspection Systems Sales by Company (2020-2025) & (K Units)
Table 18. Global Smart Visual Inspection Systems Sales Market Share by Company (2020-2025)
Table 19. Global Smart Visual Inspection Systems Revenue by Company (2020-2025) & ($ millions)
Table 20. Global Smart Visual Inspection Systems Revenue Market Share by Company

+357 96 030922
info@marketpublishers.com

(2020-2025)
Table 21. Global Smart Visual Inspection Systems Sale Price by Company (2020-2025) & (K US$/Unit)
Table 22. Key Manufacturers Smart Visual Inspection Systems Producing Area Distribution and Sales Area
Table 23. Players Smart Visual Inspection Systems Products Offered
Table 24. Smart Visual Inspection Systems Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 25. New Products and Potential Entrants
Table 26. Market M&A Activity & Strategy
Table 27. Global Smart Visual Inspection Systems Sales by Geographic Region (2020-2025) & (K Units)
Table 28. Global Smart Visual Inspection Systems Sales Market Share Geographic Region (2020-2025)
Table 29. Global Smart Visual Inspection Systems Revenue by Geographic Region (2020-2025) & ($ millions)
Table 30. Global Smart Visual Inspection Systems Revenue Market Share by Geographic Region (2020-2025)
Table 31. Global Smart Visual Inspection Systems Sales by Country/Region (2020-2025) & (K Units)
Table 32. Global Smart Visual Inspection Systems Sales Market Share by Country/Region (2020-2025)
Table 33. Global Smart Visual Inspection Systems Revenue by Country/Region (2020-2025) & ($ millions)
Table 34. Global Smart Visual Inspection Systems Revenue Market Share by Country/Region (2020-2025)
Table 35. Americas Smart Visual Inspection Systems Sales by Country (2020-2025) & (K Units)
Table 36. Americas Smart Visual Inspection Systems Sales Market Share by Country (2020-2025)
Table 37. Americas Smart Visual Inspection Systems Revenue by Country (2020-2025) & ($ millions)
Table 38. Americas Smart Visual Inspection Systems Sales by Type (2020-2025) & (K Units)
Table 39. Americas Smart Visual Inspection Systems Sales by Application (2020-2025) & (K Units)
Table 40. APAC Smart Visual Inspection Systems Sales by Region (2020-2025) & (K Units)
Table 41. APAC Smart Visual Inspection Systems Sales Market Share by Region

+357 96 030922
info@marketpublishers.com

(2020-2025)
Table 42. APAC Smart Visual Inspection Systems Revenue by Region (2020-2025) & ($ millions)
Table 43. APAC Smart Visual Inspection Systems Sales by Type (2020-2025) & (K Units)
Table 44. APAC Smart Visual Inspection Systems Sales by Application (2020-2025) & (K Units)
Table 45. Europe Smart Visual Inspection Systems Sales by Country (2020-2025) & (K Units)
Table 46. Europe Smart Visual Inspection Systems Revenue by Country (2020-2025) & ($ millions)
Table 47. Europe Smart Visual Inspection Systems Sales by Type (2020-2025) & (K Units)
Table 48. Europe Smart Visual Inspection Systems Sales by Application (2020-2025) & (K Units)
Table 49. Middle East & Africa Smart Visual Inspection Systems Sales by Country (2020-2025) & (K Units)
Table 50. Middle East & Africa Smart Visual Inspection Systems Revenue Market Share by Country (2020-2025)
Table 51. Middle East & Africa Smart Visual Inspection Systems Sales by Type (2020-2025) & (K Units)
Table 52. Middle East & Africa Smart Visual Inspection Systems Sales by Application (2020-2025) & (K Units)
Table 53. Key Market Drivers & Growth Opportunities of Smart Visual Inspection Systems
Table 54. Key Market Challenges & Risks of Smart Visual Inspection Systems
Table 55. Key Industry Trends of Smart Visual Inspection Systems
Table 56. Smart Visual Inspection Systems Raw Material
Table 57. Key Suppliers of Raw Materials
Table 58. Smart Visual Inspection Systems Distributors List
Table 59. Smart Visual Inspection Systems Customer List
Table 60. Global Smart Visual Inspection Systems Sales Forecast by Region (2026-2031) & (K Units)
Table 61. Global Smart Visual Inspection Systems Revenue Forecast by Region (2026-2031) & ($ millions)
Table 62. Americas Smart Visual Inspection Systems Sales Forecast by Country (2026-2031) & (K Units)
Table 63. Americas Smart Visual Inspection Systems Annual Revenue Forecast by Country (2026-2031) & ($ millions)

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info@marketpublishers.com

Table 64. APAC Smart Visual Inspection Systems Sales Forecast by Region (2026-2031) & (K Units)
Table 65. APAC Smart Visual Inspection Systems Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 66. Europe Smart Visual Inspection Systems Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Europe Smart Visual Inspection Systems Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Middle East & Africa Smart Visual Inspection Systems Sales Forecast by Country (2026-2031) & (K Units)
Table 69. Middle East & Africa Smart Visual Inspection Systems Revenue Forecast by Country (2026-2031) & ($ millions)
Table 70. Global Smart Visual Inspection Systems Sales Forecast by Type (2026-2031) & (K Units)
Table 71. Global Smart Visual Inspection Systems Revenue Forecast by Type (2026-2031) & ($ millions)
Table 72. Global Smart Visual Inspection Systems Sales Forecast by Application (2026-2031) & (K Units)
Table 73. Global Smart Visual Inspection Systems Revenue Forecast by Application (2026-2031) & ($ millions)
Table 74. Cognex Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 75. Cognex Smart Visual Inspection Systems Product Portfolios and Specifications
Table 76. Cognex Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 77. Cognex Main Business
Table 78. Cognex Latest Developments
Table 79. Keyence Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 80. Keyence Smart Visual Inspection Systems Product Portfolios and Specifications
Table 81. Keyence Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 82. Keyence Main Business
Table 83. Keyence Latest Developments
Table 84. Omron Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 85. Omron Smart Visual Inspection Systems Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 86. Omron Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 87. Omron Main Business
Table 88. Omron Latest Developments
Table 89. Basler Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 90. Basler Smart Visual Inspection Systems Product Portfolios and Specifications
Table 91. Basler Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 92. Basler Main Business
Table 93. Basler Latest Developments
Table 94. SICK Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 95. SICK Smart Visual Inspection Systems Product Portfolios and Specifications
Table 96. SICK Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 97. SICK Main Business
Table 98. SICK Latest Developments
Table 99. ISRA Vision Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 100. ISRA Vision Smart Visual Inspection Systems Product Portfolios and Specifications
Table 101. ISRA Vision Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 102. ISRA Vision Main Business
Table 103. ISRA Vision Latest Developments
Table 104. Zebra Medical Vision Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 105. Zebra Medical Vision Smart Visual Inspection Systems Product Portfolios and Specifications
Table 106. Zebra Medical Vision Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 107. Zebra Medical Vision Main Business
Table 108. Zebra Medical Vision Latest Developments
Table 109. Seiko Instruments Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 110. Seiko Instruments Smart Visual Inspection Systems Product Portfolios and Specifications
Table 111. Seiko Instruments Smart Visual Inspection Systems Sales (K Units),

+357 96 030922
info@marketpublishers.com

Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 112. Seiko Instruments Main Business
Table 113. Seiko Instruments Latest Developments
Table 114. Teledyne DALSA Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 115. Teledyne DALSA Smart Visual Inspection Systems Product Portfolios and Specifications
Table 116. Teledyne DALSA Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 117. Teledyne DALSA Main Business
Table 118. Teledyne DALSA Latest Developments
Table 119. FANUC Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 120. FANUC Smart Visual Inspection Systems Product Portfolios and Specifications
Table 121. FANUC Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 122. FANUC Main Business
Table 123. FANUC Latest Developments
Table 124. Vision Engineering Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 125. Vision Engineering Smart Visual Inspection Systems Product Portfolios and Specifications
Table 126. Vision Engineering Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 127. Vision Engineering Main Business
Table 128. Vision Engineering Latest Developments
Table 129. Bright Machines Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 130. Bright Machines Smart Visual Inspection Systems Product Portfolios and Specifications
Table 131. Bright Machines Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 132. Bright Machines Main Business
Table 133. Bright Machines Latest Developments
Table 134. Ametek Surface Vision Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 135. Ametek Surface Vision Smart Visual Inspection Systems Product Portfolios and Specifications

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Table 136. Ametek Surface Vision Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 137. Ametek Surface Vision Main Business
Table 138. Ametek Surface Vision Latest Developments
Table 139. Qualitas Technologies Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 140. Qualitas Technologies Smart Visual Inspection Systems Product Portfolios and Specifications
Table 141. Qualitas Technologies Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 142. Qualitas Technologies Main Business
Table 143. Qualitas Technologies Latest Developments
Table 144. Epson Robotics Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 145. Epson Robotics Smart Visual Inspection Systems Product Portfolios and Specifications
Table 146. Epson Robotics Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 147. Epson Robotics Main Business
Table 148. Epson Robotics Latest Developments
Table 149. KUKA Basic Information, Smart Visual Inspection Systems Manufacturing Base, Sales Area and Its Competitors
Table 150. KUKA Smart Visual Inspection Systems Product Portfolios and Specifications
Table 151. KUKA Smart Visual Inspection Systems Sales (K Units), Revenue ($ Million), Price (K US$/Unit) and Gross Margin (2020-2025)
Table 152. KUKA Main Business
Table 153. KUKA Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Smart Visual Inspection Systems
Figure 2. Smart Visual Inspection Systems Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Smart Visual Inspection Systems Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Smart Visual Inspection Systems Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Smart Visual Inspection Systems Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Smart Visual Inspection Systems Sales Market Share by Country/Region (2024)
Figure 10. Smart Visual Inspection Systems Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Computer Vision-based Systems
Figure 12. Product Picture of Deep Learning-based Systems
Figure 13. Product Picture of Machine Learning-based Systems
Figure 14. Product Picture of Others
Figure 15. Global Smart Visual Inspection Systems Sales Market Share by Type in 2025
Figure 16. Global Smart Visual Inspection Systems Revenue Market Share by Type (2020-2025)
Figure 17. Smart Visual Inspection Systems Consumed in Industrial Manufacturing
Figure 18. Global Smart Visual Inspection Systems Market: Industrial Manufacturing (2020-2025) & (K Units)
Figure 19. Smart Visual Inspection Systems Consumed in Electronics and Semiconductor
Figure 20. Global Smart Visual Inspection Systems Market: Electronics and Semiconductor (2020-2025) & (K Units)
Figure 21. Smart Visual Inspection Systems Consumed in Automotive
Figure 22. Global Smart Visual Inspection Systems Market: Automotive (2020-2025) & (K Units)
Figure 23. Smart Visual Inspection Systems Consumed in Others
Figure 24. Global Smart Visual Inspection Systems Market: Others (2020-2025) & (K

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Units)
Figure 25. Global Smart Visual Inspection Systems Sale Market Share by Application (2024)
Figure 26. Global Smart Visual Inspection Systems Revenue Market Share by Application in 2025
Figure 27. Smart Visual Inspection Systems Sales by Company in 2025 (K Units)
Figure 28. Global Smart Visual Inspection Systems Sales Market Share by Company in 2025
Figure 29. Smart Visual Inspection Systems Revenue by Company in 2025 ($ millions)
Figure 30. Global Smart Visual Inspection Systems Revenue Market Share by Company in 2025
Figure 31. Global Smart Visual Inspection Systems Sales Market Share by Geographic Region (2020-2025)
Figure 32. Global Smart Visual Inspection Systems Revenue Market Share by Geographic Region in 2025
Figure 33. Americas Smart Visual Inspection Systems Sales 2020-2025 (K Units)
Figure 34. Americas Smart Visual Inspection Systems Revenue 2020-2025 ($ millions)
Figure 35. APAC Smart Visual Inspection Systems Sales 2020-2025 (K Units)
Figure 36. APAC Smart Visual Inspection Systems Revenue 2020-2025 ($ millions)
Figure 37. Europe Smart Visual Inspection Systems Sales 2020-2025 (K Units)
Figure 38. Europe Smart Visual Inspection Systems Revenue 2020-2025 ($ millions)
Figure 39. Middle East & Africa Smart Visual Inspection Systems Sales 2020-2025 (K Units)
Figure 40. Middle East & Africa Smart Visual Inspection Systems Revenue 2020-2025 ($ millions)
Figure 41. Americas Smart Visual Inspection Systems Sales Market Share by Country in 2025
Figure 42. Americas Smart Visual Inspection Systems Revenue Market Share by Country (2020-2025)
Figure 43. Americas Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
Figure 44. Americas Smart Visual Inspection Systems Sales Market Share by Application (2020-2025)
Figure 45. United States Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 46. Canada Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 47. Mexico Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)

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Figure 48. Brazil Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 49. APAC Smart Visual Inspection Systems Sales Market Share by Region in 2025
Figure 50. APAC Smart Visual Inspection Systems Revenue Market Share by Region (2020-2025)
Figure 51. APAC Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
Figure 52. APAC Smart Visual Inspection Systems Sales Market Share by Application (2020-2025)
Figure 53. China Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 54. Japan Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 55. South Korea Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 56. Southeast Asia Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 57. India Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 58. Australia Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 59. China Taiwan Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 60. Europe Smart Visual Inspection Systems Sales Market Share by Country in 2025
Figure 61. Europe Smart Visual Inspection Systems Revenue Market Share by Country (2020-2025)
Figure 62. Europe Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
Figure 63. Europe Smart Visual Inspection Systems Sales Market Share by Application (2020-2025)
Figure 64. Germany Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 65. France Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 66. UK Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 67. Italy Smart Visual Inspection Systems Revenue Growth 2020-2025 ($

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millions)
Figure 68. Russia Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 69. Middle East & Africa Smart Visual Inspection Systems Sales Market Share by Country (2020-2025)
Figure 70. Middle East & Africa Smart Visual Inspection Systems Sales Market Share by Type (2020-2025)
Figure 71. Middle East & Africa Smart Visual Inspection Systems Sales Market Share by Application (2020-2025)
Figure 72. Egypt Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 73. South Africa Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 74. Israel Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 75. Turkey Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 76. GCC Countries Smart Visual Inspection Systems Revenue Growth 2020-2025 ($ millions)
Figure 77. Manufacturing Cost Structure Analysis of Smart Visual Inspection Systems in 2025
Figure 78. Manufacturing Process Analysis of Smart Visual Inspection Systems
Figure 79. Industry Chain Structure of Smart Visual Inspection Systems
Figure 80. Channels of Distribution
Figure 81. Global Smart Visual Inspection Systems Sales Market Forecast by Region (2026-2031)
Figure 82. Global Smart Visual Inspection Systems Revenue Market Share Forecast by Region (2026-2031)
Figure 83. Global Smart Visual Inspection Systems Sales Market Share Forecast by Type (2026-2031)
Figure 84. Global Smart Visual Inspection Systems Revenue Market Share Forecast by Type (2026-2031)
Figure 85. Global Smart Visual Inspection Systems Sales Market Share Forecast by Application (2026-2031)
Figure 86. Global Smart Visual Inspection Systems Revenue Market Share Forecast by Application (2026-2031)

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