

Global Machine Vision for Semiconductor Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Machine Vision for Semiconductor market size is predicted to grow from US\$ 1592 million in 2025 to US\$ 2443 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Machine Vision is a technology that uses image sensors, optical systems, image processing and analysis algorithms, computer hardware and software and other technical means to enable machines to have visual perception capabilities similar to those of the human eye, and to make decisions, judgments and controls based on visual information. .

Machine vision systems can replace or assist humans in performing various complex visual tasks, such as object recognition, defect detection, size measurement, motion tracking, target positioning, etc.

Machine vision systems are divided into two categories: embedded systems and PC-Base systems. The PC-Base system is mainly composed of machine vision standard accessories. Embedded vision systems are primarily smart cameras/vision sensors.

Semiconductor machine vision refers to the use of advanced image acquisition, processing and analysis technologies in the semiconductor manufacturing and inspection process to achieve automated, high-precision and high-efficiency visual inspection and control of semiconductor devices, wafers, packaging, etc. The semiconductor industry has extremely high requirements for product quality, process accuracy and production efficiency. As an important automation tool, machine vision technology provides key support for all aspects of semiconductor manufacturing.

Globally, the core suppliers of the machine vision market are mainly KEYENCE, Cognex, Basler, DAHENG IMAGING, OPT Machine Vision Tech, Hangzhou Hikrobot, Teledyne DALSA, etc., and the global TOP10 companies account for more than 85%.

LPI (LP Information)' newest research report, the "Machine Vision for Semiconductor Industry Forecast" looks at past sales and reviews total world Machine Vision for Semiconductor sales in 2025, providing a comprehensive analysis by region and market sector of projected Machine Vision for Semiconductor sales for 2026 through 2032. With Machine Vision for Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Machine Vision for Semiconductor industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Machine Vision for Semiconductor market by product type, application, key players and key regions and countries.

Segmentation by Type:

PC-Base Vision System

Embedded Vision System

Segmentation by Application:

Wafer Inspection

Package Inspection

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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

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

KEYENCE

LMI

Basler

Cognex

Hangzhou Hikrobot

Omron

Sick

Banner

MVTec

DAHENG IMAGING

OPT Machine Vision Tech

Hefei I-TEK OptoElectronics

LUSTER LIGHTTECH

JAI

Emergent Vision Technologies

Teledyne DALSA

SVS-Vistek

IMPERX

Allied Vision Technologies

Hamamatsu Photonics

Advantech

Shenzhen Shenshi Intelligent Technology

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 Machine Vision for Semiconductor Market Size (2021-2032)
 - 2.1.2 Machine Vision for Semiconductor Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Machine Vision for Semiconductor by Country/Region (2021, 2025 & 2032)
- 2.2 Machine Vision for Semiconductor Segment by Type
 - 2.2.1 PC-Base Vision System
 - 2.2.2 Embedded Vision System
 - 2.2.3 Machine Vision for Semiconductor Market Size by Type
 - 2.2.3.1 Machine Vision for Semiconductor Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.3.2 Global Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)
- 2.3 Machine Vision for Semiconductor Segment by Application
 - 2.3.1 Wafer Inspection
 - 2.3.2 Package Inspection
 - 2.3.3 Others
 - 2.3.4 Machine Vision for Semiconductor Market Size by Application
 - 2.3.4.1 Machine Vision for Semiconductor Market Size CAGR by Application (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

3 MACHINE VISION FOR SEMICONDUCTOR MARKET SIZE BY PLAYER

3.1 Machine Vision for Semiconductor Market Size Market Share by Player

3.1.1 Global Machine Vision for Semiconductor Revenue by Player (2021-2026)

3.1.2 Global Machine Vision for Semiconductor Revenue Market Share by Player (2021-2026)

3.2 Global Machine Vision for Semiconductor Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 MACHINE VISION FOR SEMICONDUCTOR BY REGION

4.1 Machine Vision for Semiconductor Market Size by Region (2021-2026)

4.2 Global Machine Vision for Semiconductor Annual Revenue by Country/Region (2021-2026)

4.3 Americas Machine Vision for Semiconductor Market Size Growth (2021-2026)

4.4 APAC Machine Vision for Semiconductor Market Size Growth (2021-2026)

4.5 Europe Machine Vision for Semiconductor Market Size Growth (2021-2026)

4.6 Middle East & Africa Machine Vision for Semiconductor Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Machine Vision for Semiconductor Market Size by Country (2021-2026)

5.2 Americas Machine Vision for Semiconductor Market Size by Type (2021-2026)

5.3 Americas Machine Vision for Semiconductor Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Machine Vision for Semiconductor Market Size by Region (2021-2026)

6.2 APAC Machine Vision for Semiconductor Market Size by Type (2021-2026)

6.3 APAC Machine Vision for Semiconductor Market Size by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Machine Vision for Semiconductor Market Size by Country (2021-2026)

7.2 Europe Machine Vision for Semiconductor Market Size by Type (2021-2026)

7.3 Europe Machine Vision for Semiconductor Market Size by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Machine Vision for Semiconductor by Region (2021-2026)

8.2 Middle East & Africa Machine Vision for Semiconductor Market Size by Type (2021-2026)

8.3 Middle East & Africa Machine Vision for Semiconductor Market Size by Application (2021-2026)

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 GLOBAL MACHINE VISION FOR SEMICONDUCTOR MARKET FORECAST

- 10.1 Global Machine Vision for Semiconductor Forecast by Region (2027-2032)
 - 10.1.1 Global Machine Vision for Semiconductor Forecast by Region (2027-2032)
 - 10.1.2 Americas Machine Vision for Semiconductor Forecast
 - 10.1.3 APAC Machine Vision for Semiconductor Forecast
 - 10.1.4 Europe Machine Vision for Semiconductor Forecast
 - 10.1.5 Middle East & Africa Machine Vision for Semiconductor Forecast
- 10.2 Americas Machine Vision for Semiconductor Forecast by Country (2027-2032)
 - 10.2.1 United States Market Machine Vision for Semiconductor Forecast
 - 10.2.2 Canada Market Machine Vision for Semiconductor Forecast
 - 10.2.3 Mexico Market Machine Vision for Semiconductor Forecast
 - 10.2.4 Brazil Market Machine Vision for Semiconductor Forecast
- 10.3 APAC Machine Vision for Semiconductor Forecast by Region (2027-2032)
 - 10.3.1 China Machine Vision for Semiconductor Market Forecast
 - 10.3.2 Japan Market Machine Vision for Semiconductor Forecast
 - 10.3.3 Korea Market Machine Vision for Semiconductor Forecast
 - 10.3.4 Southeast Asia Market Machine Vision for Semiconductor Forecast
 - 10.3.5 India Market Machine Vision for Semiconductor Forecast
 - 10.3.6 Australia Market Machine Vision for Semiconductor Forecast
- 10.4 Europe Machine Vision for Semiconductor Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Machine Vision for Semiconductor Forecast
 - 10.4.2 France Market Machine Vision for Semiconductor Forecast
 - 10.4.3 UK Market Machine Vision for Semiconductor Forecast
 - 10.4.4 Italy Market Machine Vision for Semiconductor Forecast
 - 10.4.5 Russia Market Machine Vision for Semiconductor Forecast
- 10.5 Middle East & Africa Machine Vision for Semiconductor Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Machine Vision for Semiconductor Forecast
 - 10.5.2 South Africa Market Machine Vision for Semiconductor Forecast
 - 10.5.3 Israel Market Machine Vision for Semiconductor Forecast
 - 10.5.4 Turkey Market Machine Vision for Semiconductor Forecast
- 10.6 Global Machine Vision for Semiconductor Forecast by Type (2027-2032)
- 10.7 Global Machine Vision for Semiconductor Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Machine Vision for Semiconductor Forecast

11 KEY PLAYERS ANALYSIS

11.1 KEYENCE

- 11.1.1 KEYENCE Company Information
- 11.1.2 KEYENCE Machine Vision for Semiconductor Product Offered
- 11.1.3 KEYENCE Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 KEYENCE Main Business Overview
- 11.1.5 KEYENCE Latest Developments
- 11.2 LMI
 - 11.2.1 LMI Company Information
 - 11.2.2 LMI Machine Vision for Semiconductor Product Offered
 - 11.2.3 LMI Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 LMI Main Business Overview
 - 11.2.5 LMI Latest Developments
- 11.3 Basler
 - 11.3.1 Basler Company Information
 - 11.3.2 Basler Machine Vision for Semiconductor Product Offered
 - 11.3.3 Basler Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Basler Main Business Overview
 - 11.3.5 Basler Latest Developments
- 11.4 Cognex
 - 11.4.1 Cognex Company Information
 - 11.4.2 Cognex Machine Vision for Semiconductor Product Offered
 - 11.4.3 Cognex Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Cognex Main Business Overview
 - 11.4.5 Cognex Latest Developments
- 11.5 Hangzhou Hikrobot
 - 11.5.1 Hangzhou Hikrobot Company Information
 - 11.5.2 Hangzhou Hikrobot Machine Vision for Semiconductor Product Offered
 - 11.5.3 Hangzhou Hikrobot Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Hangzhou Hikrobot Main Business Overview
 - 11.5.5 Hangzhou Hikrobot Latest Developments
- 11.6 Omron
 - 11.6.1 Omron Company Information
 - 11.6.2 Omron Machine Vision for Semiconductor Product Offered
 - 11.6.3 Omron Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

- 11.6.4 Omron Main Business Overview
- 11.6.5 Omron Latest Developments
- 11.7 Sick
 - 11.7.1 Sick Company Information
 - 11.7.2 Sick Machine Vision for Semiconductor Product Offered
 - 11.7.3 Sick Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Sick Main Business Overview
 - 11.7.5 Sick Latest Developments
- 11.8 Banner
 - 11.8.1 Banner Company Information
 - 11.8.2 Banner Machine Vision for Semiconductor Product Offered
 - 11.8.3 Banner Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 Banner Main Business Overview
 - 11.8.5 Banner Latest Developments
- 11.9 MVTec
 - 11.9.1 MVTec Company Information
 - 11.9.2 MVTec Machine Vision for Semiconductor Product Offered
 - 11.9.3 MVTec Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 MVTec Main Business Overview
 - 11.9.5 MVTec Latest Developments
- 11.10 DAHENG IMAGING
 - 11.10.1 DAHENG IMAGING Company Information
 - 11.10.2 DAHENG IMAGING Machine Vision for Semiconductor Product Offered
 - 11.10.3 DAHENG IMAGING Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 DAHENG IMAGING Main Business Overview
 - 11.10.5 DAHENG IMAGING Latest Developments
- 11.11 OPT Machine Vision Tech
 - 11.11.1 OPT Machine Vision Tech Company Information
 - 11.11.2 OPT Machine Vision Tech Machine Vision for Semiconductor Product Offered
 - 11.11.3 OPT Machine Vision Tech Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 OPT Machine Vision Tech Main Business Overview
 - 11.11.5 OPT Machine Vision Tech Latest Developments
- 11.12 Hefei I-TEK OptoElectronics
 - 11.12.1 Hefei I-TEK OptoElectronics Company Information

11.12.2 Hefei I-TEK OptoElectronics Machine Vision for Semiconductor Product Offered

11.12.3 Hefei I-TEK OptoElectronics Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.12.4 Hefei I-TEK OptoElectronics Main Business Overview

11.12.5 Hefei I-TEK OptoElectronics Latest Developments

11.13 LUSTER LIGHTTECH

11.13.1 LUSTER LIGHTTECH Company Information

11.13.2 LUSTER LIGHTTECH Machine Vision for Semiconductor Product Offered

11.13.3 LUSTER LIGHTTECH Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.13.4 LUSTER LIGHTTECH Main Business Overview

11.13.5 LUSTER LIGHTTECH Latest Developments

11.14 JAI

11.14.1 JAI Company Information

11.14.2 JAI Machine Vision for Semiconductor Product Offered

11.14.3 JAI Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 JAI Main Business Overview

11.14.5 JAI Latest Developments

11.15 Emergent Vision Technologies

11.15.1 Emergent Vision Technologies Company Information

11.15.2 Emergent Vision Technologies Machine Vision for Semiconductor Product Offered

11.15.3 Emergent Vision Technologies Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.15.4 Emergent Vision Technologies Main Business Overview

11.15.5 Emergent Vision Technologies Latest Developments

11.16 Teledyne DALSA

11.16.1 Teledyne DALSA Company Information

11.16.2 Teledyne DALSA Machine Vision for Semiconductor Product Offered

11.16.3 Teledyne DALSA Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.16.4 Teledyne DALSA Main Business Overview

11.16.5 Teledyne DALSA Latest Developments

11.17 SVS-Vistek

11.17.1 SVS-Vistek Company Information

11.17.2 SVS-Vistek Machine Vision for Semiconductor Product Offered

11.17.3 SVS-Vistek Machine Vision for Semiconductor Revenue, Gross Margin and

Market Share (2021-2026)

11.17.4 SVS-Vistek Main Business Overview

11.17.5 SVS-Vistek Latest Developments

11.18 IMPERX

11.18.1 IMPERX Company Information

11.18.2 IMPERX Machine Vision for Semiconductor Product Offered

11.18.3 IMPERX Machine Vision for Semiconductor Revenue, Gross Margin and

Market Share (2021-2026)

11.18.4 IMPERX Main Business Overview

11.18.5 IMPERX Latest Developments

11.19 Allied Vision Technologies

11.19.1 Allied Vision Technologies Company Information

11.19.2 Allied Vision Technologies Machine Vision for Semiconductor Product Offered

11.19.3 Allied Vision Technologies Machine Vision for Semiconductor Revenue, Gross

Margin and Market Share (2021-2026)

11.19.4 Allied Vision Technologies Main Business Overview

11.19.5 Allied Vision Technologies Latest Developments

11.20 Hamamatsu Photonics

11.20.1 Hamamatsu Photonics Company Information

11.20.2 Hamamatsu Photonics Machine Vision for Semiconductor Product Offered

11.20.3 Hamamatsu Photonics Machine Vision for Semiconductor Revenue, Gross

Margin and Market Share (2021-2026)

11.20.4 Hamamatsu Photonics Main Business Overview

11.20.5 Hamamatsu Photonics Latest Developments

11.21 Advantech

11.21.1 Advantech Company Information

11.21.2 Advantech Machine Vision for Semiconductor Product Offered

11.21.3 Advantech Machine Vision for Semiconductor Revenue, Gross Margin and

Market Share (2021-2026)

11.21.4 Advantech Main Business Overview

11.21.5 Advantech Latest Developments

11.22 Shenzhen Shenshi Intelligent Technology

11.22.1 Shenzhen Shenshi Intelligent Technology Company Information

11.22.2 Shenzhen Shenshi Intelligent Technology Machine Vision for Semiconductor Product Offered

11.22.3 Shenzhen Shenshi Intelligent Technology Machine Vision for Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 Shenzhen Shenshi Intelligent Technology Main Business Overview

11.22.5 Shenzhen Shenshi Intelligent Technology Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Machine Vision for Semiconductor Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Machine Vision for Semiconductor Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of PC-Base Vision System

Table 4. Major Players of Embedded Vision System

Table 5. Machine Vision for Semiconductor Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 6. Global Machine Vision for Semiconductor Market Size by Type (2021-2026) & (\$ millions)

Table 7. Global Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)

Table 8. Machine Vision for Semiconductor Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 9. Global Machine Vision for Semiconductor Market Size by Application (2021-2026) & (\$ millions)

Table 10. Global Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

Table 11. Global Machine Vision for Semiconductor Revenue by Player (2021-2026) & (\$ millions)

Table 12. Global Machine Vision for Semiconductor Revenue Market Share by Player (2021-2026)

Table 13. Machine Vision for Semiconductor Key Players Head office and Products Offered

Table 14. Machine Vision for Semiconductor Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 15. New Products and Potential Entrants

Table 16. Mergers & Acquisitions, Expansion

Table 17. Global Machine Vision for Semiconductor Market Size by Region (2021-2026) & (\$ millions)

Table 18. Global Machine Vision for Semiconductor Market Size Market Share by Region (2021-2026)

Table 19. Global Machine Vision for Semiconductor Revenue by Country/Region (2021-2026) & (\$ millions)

Table 20. Global Machine Vision for Semiconductor Revenue Market Share by

Country/Region (2021-2026)

Table 21. Americas Machine Vision for Semiconductor Market Size by Country (2021-2026) & (\$ millions)

Table 22. Americas Machine Vision for Semiconductor Market Size Market Share by Country (2021-2026)

Table 23. Americas Machine Vision for Semiconductor Market Size by Type (2021-2026) & (\$ millions)

Table 24. Americas Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)

Table 25. Americas Machine Vision for Semiconductor Market Size by Application (2021-2026) & (\$ millions)

Table 26. Americas Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

Table 27. APAC Machine Vision for Semiconductor Market Size by Region (2021-2026) & (\$ millions)

Table 28. APAC Machine Vision for Semiconductor Market Size Market Share by Region (2021-2026)

Table 29. APAC Machine Vision for Semiconductor Market Size by Type (2021-2026) & (\$ millions)

Table 30. APAC Machine Vision for Semiconductor Market Size by Application (2021-2026) & (\$ millions)

Table 31. Europe Machine Vision for Semiconductor Market Size by Country (2021-2026) & (\$ millions)

Table 32. Europe Machine Vision for Semiconductor Market Size Market Share by Country (2021-2026)

Table 33. Europe Machine Vision for Semiconductor Market Size by Type (2021-2026) & (\$ millions)

Table 34. Europe Machine Vision for Semiconductor Market Size by Application (2021-2026) & (\$ millions)

Table 35. Middle East & Africa Machine Vision for Semiconductor Market Size by Region (2021-2026) & (\$ millions)

Table 36. Middle East & Africa Machine Vision for Semiconductor Market Size by Type (2021-2026) & (\$ millions)

Table 37. Middle East & Africa Machine Vision for Semiconductor Market Size by Application (2021-2026) & (\$ millions)

Table 38. Key Market Drivers & Growth Opportunities of Machine Vision for Semiconductor

Table 39. Key Market Challenges & Risks of Machine Vision for Semiconductor

Table 40. Key Industry Trends of Machine Vision for Semiconductor

Table 41. Global Machine Vision for Semiconductor Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 42. Global Machine Vision for Semiconductor Market Size Market Share Forecast by Region (2027-2032)

Table 43. Global Machine Vision for Semiconductor Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 44. Global Machine Vision for Semiconductor Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 45. KEYENCE Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 46. KEYENCE Machine Vision for Semiconductor Product Offered

Table 47. KEYENCE Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 48. KEYENCE Main Business

Table 49. KEYENCE Latest Developments

Table 50. LMI Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 51. LMI Machine Vision for Semiconductor Product Offered

Table 52. LMI Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 53. LMI Main Business

Table 54. LMI Latest Developments

Table 55. Basler Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 56. Basler Machine Vision for Semiconductor Product Offered

Table 57. Basler Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 58. Basler Main Business

Table 59. Basler Latest Developments

Table 60. Cognex Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 61. Cognex Machine Vision for Semiconductor Product Offered

Table 62. Cognex Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 63. Cognex Main Business

Table 64. Cognex Latest Developments

Table 65. Hangzhou Hikrobot Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 66. Hangzhou Hikrobot Machine Vision for Semiconductor Product Offered

Table 67. Hangzhou Hikrobot Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 68. Hangzhou Hikrobot Main Business

Table 69. Hangzhou Hikrobot Latest Developments

Table 70. Omron Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 71. Omron Machine Vision for Semiconductor Product Offered

Table 72. Omron Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 73. Omron Main Business

Table 74. Omron Latest Developments

Table 75. Sick Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 76. Sick Machine Vision for Semiconductor Product Offered

Table 77. Sick Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 78. Sick Main Business

Table 79. Sick Latest Developments

Table 80. Banner Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 81. Banner Machine Vision for Semiconductor Product Offered

Table 82. Banner Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 83. Banner Main Business

Table 84. Banner Latest Developments

Table 85. MVTec Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 86. MVTec Machine Vision for Semiconductor Product Offered

Table 87. MVTec Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 88. MVTec Main Business

Table 89. MVTec Latest Developments

Table 90. DAHENG IMAGING Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 91. DAHENG IMAGING Machine Vision for Semiconductor Product Offered

Table 92. DAHENG IMAGING Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 93. DAHENG IMAGING Main Business

Table 94. DAHENG IMAGING Latest Developments

Table 95. OPT Machine Vision Tech Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 96. OPT Machine Vision Tech Machine Vision for Semiconductor Product Offered
Table 97. OPT Machine Vision Tech Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 98. OPT Machine Vision Tech Main Business
Table 99. OPT Machine Vision Tech Latest Developments
Table 100. Hefei I-TEK OptoElectronics Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 101. Hefei I-TEK OptoElectronics Machine Vision for Semiconductor Product Offered
Table 102. Hefei I-TEK OptoElectronics Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 103. Hefei I-TEK OptoElectronics Main Business
Table 104. Hefei I-TEK OptoElectronics Latest Developments
Table 105. LUSTER LIGHTTECH Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 106. LUSTER LIGHTTECH Machine Vision for Semiconductor Product Offered
Table 107. LUSTER LIGHTTECH Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 108. LUSTER LIGHTTECH Main Business
Table 109. LUSTER LIGHTTECH Latest Developments
Table 110. JAI Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 111. JAI Machine Vision for Semiconductor Product Offered
Table 112. JAI Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 113. JAI Main Business
Table 114. JAI Latest Developments
Table 115. Emergent Vision Technologies Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 116. Emergent Vision Technologies Machine Vision for Semiconductor Product Offered
Table 117. Emergent Vision Technologies Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 118. Emergent Vision Technologies Main Business
Table 119. Emergent Vision Technologies Latest Developments
Table 120. Teledyne DALSA Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 121. Teledyne DALSA Machine Vision for Semiconductor Product Offered
Table 122. Teledyne DALSA Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 123. Teledyne DALSA Main Business
Table 124. Teledyne DALSA Latest Developments
Table 125. SVS-Vistek Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 126. SVS-Vistek Machine Vision for Semiconductor Product Offered
Table 127. SVS-Vistek Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 128. SVS-Vistek Main Business
Table 129. SVS-Vistek Latest Developments
Table 130. IMPERX Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 131. IMPERX Machine Vision for Semiconductor Product Offered
Table 132. IMPERX Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 133. IMPERX Main Business
Table 134. IMPERX Latest Developments
Table 135. Allied Vision Technologies Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 136. Allied Vision Technologies Machine Vision for Semiconductor Product Offered
Table 137. Allied Vision Technologies Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 138. Allied Vision Technologies Main Business
Table 139. Allied Vision Technologies Latest Developments
Table 140. Hamamatsu Photonics Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 141. Hamamatsu Photonics Machine Vision for Semiconductor Product Offered
Table 142. Hamamatsu Photonics Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 143. Hamamatsu Photonics Main Business
Table 144. Hamamatsu Photonics Latest Developments
Table 145. Advantech Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors
Table 146. Advantech Machine Vision for Semiconductor Product Offered
Table 147. Advantech Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 148. Advantech Main Business

Table 149. Advantech Latest Developments

Table 150. Shenzhen Shenshi Intelligent Technology Details, Company Type, Machine Vision for Semiconductor Area Served and Its Competitors

Table 151. Shenzhen Shenshi Intelligent Technology Machine Vision for Semiconductor Product Offered

Table 152. Shenzhen Shenshi Intelligent Technology Machine Vision for Semiconductor Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 153. Shenzhen Shenshi Intelligent Technology Main Business

Table 154. Shenzhen Shenshi Intelligent Technology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Machine Vision for Semiconductor Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Machine Vision for Semiconductor Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Machine Vision for Semiconductor Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Machine Vision for Semiconductor Sales Market Share by Country/Region (2025)

Figure 8. Machine Vision for Semiconductor Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Machine Vision for Semiconductor Market Size Market Share by Type in 2025

Figure 10. Machine Vision for Semiconductor in Wafer Inspection

Figure 11. Global Machine Vision for Semiconductor Market: Wafer Inspection (2021-2026) & (\$ millions)

Figure 12. Machine Vision for Semiconductor in Package Inspection

Figure 13. Global Machine Vision for Semiconductor Market: Package Inspection (2021-2026) & (\$ millions)

Figure 14. Machine Vision for Semiconductor in Others

Figure 15. Global Machine Vision for Semiconductor Market: Others (2021-2026) & (\$ millions)

Figure 16. Global Machine Vision for Semiconductor Market Size Market Share by Application in 2025

Figure 17. Global Machine Vision for Semiconductor Revenue Market Share by Player in 2025

Figure 18. Global Machine Vision for Semiconductor Market Size Market Share by Region (2021-2026)

Figure 19. Americas Machine Vision for Semiconductor Market Size 2021-2026 (\$ millions)

Figure 20. APAC Machine Vision for Semiconductor Market Size 2021-2026 (\$ millions)

Figure 21. Europe Machine Vision for Semiconductor Market Size 2021-2026 (\$ millions)

Figure 22. Middle East & Africa Machine Vision for Semiconductor Market Size

2021-2026 (\$ millions)

Figure 23. Americas Machine Vision for Semiconductor Value Market Share by Country in 2025

Figure 24. United States Machine Vision for Semiconductor Market Size Growth

2021-2026 (\$ millions)

Figure 25. Canada Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 26. Mexico Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 27. Brazil Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 28. APAC Machine Vision for Semiconductor Market Size Market Share by Region in 2025

Figure 29. APAC Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)

Figure 30. APAC Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

Figure 31. China Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 32. Japan Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 33. South Korea Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 34. Southeast Asia Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 35. India Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 36. Australia Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 37. Europe Machine Vision for Semiconductor Market Size Market Share by Country in 2025

Figure 38. Europe Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)

Figure 39. Europe Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

Figure 40. Germany Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 41. France Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 42. UK Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 43. Italy Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 44. Russia Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 45. Middle East & Africa Machine Vision for Semiconductor Market Size Market Share by Region (2021-2026)

Figure 46. Middle East & Africa Machine Vision for Semiconductor Market Size Market Share by Type (2021-2026)

Figure 47. Middle East & Africa Machine Vision for Semiconductor Market Size Market Share by Application (2021-2026)

Figure 48. Egypt Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 49. South Africa Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 50. Israel Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 51. Turkey Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 52. GCC Countries Machine Vision for Semiconductor Market Size Growth 2021-2026 (\$ millions)

Figure 53. Americas Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 54. APAC Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 55. Europe Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 56. Middle East & Africa Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 57. United States Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 58. Canada Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 59. Mexico Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 60. Brazil Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 61. China Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 62. Japan Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 63. Korea Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 64. Southeast Asia Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 65. India Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 66. Australia Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 67. Germany Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 68. France Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 69. UK Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 70. Italy Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 71. Russia Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 72. Egypt Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 73. South Africa Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 74. Israel Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 75. Turkey Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

Figure 76. Global Machine Vision for Semiconductor Market Size Market Share Forecast by Type (2027-2032)

Figure 77. Global Machine Vision for Semiconductor Market Size Market Share Forecast by Application (2027-2032)

Figure 78. GCC Countries Machine Vision for Semiconductor Market Size 2027-2032 (\$ millions)

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