

Global Precision Vision Measurement System Market Growth 2026-2032

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Abstracts

The global Precision Vision Measurement System market size is predicted to grow from US\$ 929 million in 2025 to US\$ 1720 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 2032.

A Precision Vision Measuring Machine (VMM) is a high-precision, non-contact measuring device based on optical imaging and digital image processing technology. It acquires workpiece images through a high-resolution camera system and combines this with computer software for edge recognition, geometric calculation, and data analysis to achieve precise inspection of two-dimensional dimensions, geometric tolerances, and some three-dimensional features. This equipment is widely used in industries such as electronics, precision machinery, mold manufacturing, semiconductors, and medical devices, and features high measurement accuracy, good repeatability, ease of operation, and a high degree of automation.

The upstream of the Precision Vision Measuring Machine (VMM) industry chain mainly includes suppliers of core components such as optical elements (industrial lenses, light sources), high-resolution CCD/CMOS cameras, precision guide rails and lead screws, linear motors, granite bases, control systems, and image measurement software. The midstream consists of complete machine manufacturers and system integrators, responsible for structural design, motion control integration, software algorithm development, and complete machine assembly and debugging. Downstream applications cover industries such as electronics manufacturing, semiconductors, precision molds, automotive parts, medical devices, and aerospace. In terms of profitability, the industry's overall gross profit margin typically ranges from 30% to 50%. Domestically produced mid-range equipment boasts a gross profit margin of approximately 30% to 40%, while high-end fully automated and multi-sensor composite

equipment, due to higher technological barriers and software added value, can achieve gross profit margins of 45% or even higher. Core profits primarily originate from software algorithms, autonomous control systems, and high-end customized solutions.

The average price of the Precision Vision Measuring Machine in 2025 is projected to be \$9,500 per unit, with sales reaching 100 k units and a total production capacity of 140 k units.

United States market for Precision Vision Measurement System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Precision Vision Measurement System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Precision Vision Measurement System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Precision Vision Measurement System players cover ZEISS, Nikon, Mitutoyo, KEYENCE, Hexagon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

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

Segmentation by Type:

Manual Image Measuring Machine

Semi-Automatic Image Measuring Machine

Fully Automatic Image Measuring Machine

Segmentation by Measurement Function:

Two-Dimensional Image Measuring Machine

Three-Dimensional Composite Image Measuring Machine

Segmentation by Structural Form:

Bridge Type

Cantilever Type

Floor Type

Vertical Type

Segmentation by Driving Method:

Screw Drive Type

Linear Motor Drive Type

Belt Drive Type

Segmentation by Application:

Electronics and Consumer Electronics Industry

Semiconductor Industry

Precision Machinery and Mold Manufacturing

Automotive Manufacturing Industry

Medical Device Industry

Aerospace Industry

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 analysing the company's coverage, product portfolio, its market penetration.

ZEISS

Nikon

Mitutoyo

KEYENCE

Hexagon

OGP

Micro-Vu

Werth Messtechnik

Vision Engineering

Starrett Metrology Systems

Mahr

Bowers Group

Tianzhun Technology

Chotest

Serein

Jaten Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Precision Vision Measurement System market?

What factors are driving Precision Vision Measurement System market growth, globally and by region?

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

How do Precision Vision Measurement System market opportunities vary by end market size?

How does Precision Vision Measurement System break out by Type, by Application?

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 Precision Vision Measurement System Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Precision Vision Measurement System by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Precision Vision Measurement System by Country/Region, 2021, 2025 & 2032

2.2 Precision Vision Measurement System Segment by Type

- 2.2.1 Manual Image Measuring Machine
- 2.2.2 Semi-Automatic Image Measuring Machine
- 2.2.3 Fully Automatic Image Measuring Machine
- 2.2.4 Precision Vision Measurement System Sales by Type
 - 2.2.4.1 Global Precision Vision Measurement System Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Precision Vision Measurement System Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Precision Vision Measurement System Sale Price by Type (2021-2026)

2.3 Precision Vision Measurement System Segment by Measurement Function

- 2.3.1 Two-Dimensional Image Measuring Machine
- 2.3.2 Three-Dimensional Composite Image Measuring Machine
- 2.3.3 Precision Vision Measurement System Sales by Measurement Function
 - 2.3.3.1 Global Precision Vision Measurement System Sales Market Share by Measurement Function (2021-2026)
 - 2.3.3.2 Global Precision Vision Measurement System Revenue and Market Share by

Measurement Function (2021-2026)

2.3.3.3 Global Precision Vision Measurement System Sale Price by Measurement Function (2021-2026)

2.4 Precision Vision Measurement System Segment by Structural Form

2.4.1 Bridge Type

2.4.2 Cantilever Type

2.4.3 Floor Type

2.4.4 Vertical Type

2.4.5 Precision Vision Measurement System Sales by Structural Form

2.4.5.1 Global Precision Vision Measurement System Sales Market Share by Structural Form (2021-2026)

2.4.5.2 Global Precision Vision Measurement System Revenue and Market Share by Structural Form (2021-2026)

2.4.5.3 Global Precision Vision Measurement System Sale Price by Structural Form (2021-2026)

2.5 Precision Vision Measurement System Segment by Driving Method

2.5.1 Screw Drive Type

2.5.2 Linear Motor Drive Type

2.5.3 Belt Drive Type

2.5.4 Precision Vision Measurement System Sales by Driving Method

2.5.4.1 Global Precision Vision Measurement System Sales Market Share by Driving Method (2021-2026)

2.5.4.2 Global Precision Vision Measurement System Revenue and Market Share by Driving Method (2021-2026)

2.5.4.3 Global Precision Vision Measurement System Sale Price by Driving Method (2021-2026)

2.6 Precision Vision Measurement System Segment by Application

2.6.1 Electronics and Consumer Electronics Industry

2.6.2 Semiconductor Industry

2.6.3 Precision Machinery and Mold Manufacturing

2.6.4 Automotive Manufacturing Industry

2.6.5 Medical Device Industry

2.6.6 Aerospace Industry

2.6.7 Precision Vision Measurement System Sales by Application

2.6.7.1 Global Precision Vision Measurement System Sale Market Share by Application (2021-2026)

2.6.7.2 Global Precision Vision Measurement System Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Precision Vision Measurement System Sale Price by Application

(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Precision Vision Measurement System Breakdown Data by Company

3.1.1 Global Precision Vision Measurement System Annual Sales by Company
(2021-2026)

3.1.2 Global Precision Vision Measurement System Sales Market Share by Company
(2021-2026)

3.2 Global Precision Vision Measurement System Annual Revenue by Company
(2021-2026)

3.2.1 Global Precision Vision Measurement System Revenue by Company
(2021-2026)

3.2.2 Global Precision Vision Measurement System Revenue Market Share by
Company (2021-2026)

3.3 Global Precision Vision Measurement System Sale Price by Company

3.4 Key Manufacturers Precision Vision Measurement System Producing Area
Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Precision Vision Measurement System Product Location
Distribution

3.4.2 Players Precision Vision Measurement System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

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

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PRECISION VISION MEASUREMENT SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Precision Vision Measurement System Market Size by Geographic
Region (2021-2026)

4.1.1 Global Precision Vision Measurement System Annual Sales by Geographic
Region (2021-2026)

4.1.2 Global Precision Vision Measurement System Annual Revenue by Geographic
Region (2021-2026)

4.2 World Historic Precision Vision Measurement System Market Size by
Country/Region (2021-2026)

4.2.1 Global Precision Vision Measurement System Annual Sales by Country/Region

(2021-2026)

4.2.2 Global Precision Vision Measurement System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Precision Vision Measurement System Sales Growth

4.4 APAC Precision Vision Measurement System Sales Growth

4.5 Europe Precision Vision Measurement System Sales Growth

4.6 Middle East & Africa Precision Vision Measurement System Sales Growth

5 AMERICAS

5.1 Americas Precision Vision Measurement System Sales by Country

5.1.1 Americas Precision Vision Measurement System Sales by Country (2021-2026)

5.1.2 Americas Precision Vision Measurement System Revenue by Country (2021-2026)

5.2 Americas Precision Vision Measurement System Sales by Type (2021-2026)

5.3 Americas Precision Vision Measurement System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Precision Vision Measurement System Sales by Region

6.1.1 APAC Precision Vision Measurement System Sales by Region (2021-2026)

6.1.2 APAC Precision Vision Measurement System Revenue by Region (2021-2026)

6.2 APAC Precision Vision Measurement System Sales by Type (2021-2026)

6.3 APAC Precision Vision Measurement System Sales by Application (2021-2026)

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 Precision Vision Measurement System by Country

- 7.1.1 Europe Precision Vision Measurement System Sales by Country (2021-2026)
- 7.1.2 Europe Precision Vision Measurement System Revenue by Country (2021-2026)
- 7.2 Europe Precision Vision Measurement System Sales by Type (2021-2026)
- 7.3 Europe Precision Vision Measurement System Sales 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 Precision Vision Measurement System by Country
 - 8.1.1 Middle East & Africa Precision Vision Measurement System Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Precision Vision Measurement System Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Precision Vision Measurement System Sales by Type (2021-2026)
- 8.3 Middle East & Africa Precision Vision Measurement System Sales 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 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Precision Vision Measurement System
- 10.3 Manufacturing Process Analysis of Precision Vision Measurement System
- 10.4 Industry Chain Structure of Precision Vision Measurement System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Precision Vision Measurement System Distributors

11.3 Precision Vision Measurement System Customer

12 WORLD FORECAST REVIEW FOR PRECISION VISION MEASUREMENT SYSTEM BY GEOGRAPHIC REGION

12.1 Global Precision Vision Measurement System Market Size Forecast by Region

12.1.1 Global Precision Vision Measurement System Forecast by Region (2027-2032)

12.1.2 Global Precision Vision Measurement System Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Precision Vision Measurement System Forecast by Type (2027-2032)

12.7 Global Precision Vision Measurement System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 ZEISS

13.1.1 ZEISS Company Information

13.1.2 ZEISS Precision Vision Measurement System Product Portfolios and Specifications

13.1.3 ZEISS Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 ZEISS Main Business Overview

13.1.5 ZEISS Latest Developments

13.2 Nikon

13.2.1 Nikon Company Information

13.2.2 Nikon Precision Vision Measurement System Product Portfolios and Specifications

13.2.3 Nikon Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 Nikon Main Business Overview
- 13.2.5 Nikon Latest Developments
- 13.3 Mitutoyo
 - 13.3.1 Mitutoyo Company Information
 - 13.3.2 Mitutoyo Precision Vision Measurement System Product Portfolios and Specifications
 - 13.3.3 Mitutoyo Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Mitutoyo Main Business Overview
 - 13.3.5 Mitutoyo Latest Developments
- 13.4 KEYENCE
 - 13.4.1 KEYENCE Company Information
 - 13.4.2 KEYENCE Precision Vision Measurement System Product Portfolios and Specifications
 - 13.4.3 KEYENCE Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 KEYENCE Main Business Overview
 - 13.4.5 KEYENCE Latest Developments
- 13.5 Hexagon
 - 13.5.1 Hexagon Company Information
 - 13.5.2 Hexagon Precision Vision Measurement System Product Portfolios and Specifications
 - 13.5.3 Hexagon Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Hexagon Main Business Overview
 - 13.5.5 Hexagon Latest Developments
- 13.6 OGP
 - 13.6.1 OGP Company Information
 - 13.6.2 OGP Precision Vision Measurement System Product Portfolios and Specifications
 - 13.6.3 OGP Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 OGP Main Business Overview
 - 13.6.5 OGP Latest Developments
- 13.7 Micro-Vu
 - 13.7.1 Micro-Vu Company Information
 - 13.7.2 Micro-Vu Precision Vision Measurement System Product Portfolios and Specifications
 - 13.7.3 Micro-Vu Precision Vision Measurement System Sales, Revenue, Price and

Gross Margin (2021-2026)

13.7.4 Micro-Vu Main Business Overview

13.7.5 Micro-Vu Latest Developments

13.8 Werth Messtechnik

13.8.1 Werth Messtechnik Company Information

13.8.2 Werth Messtechnik Precision Vision Measurement System Product Portfolios and Specifications

13.8.3 Werth Messtechnik Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Werth Messtechnik Main Business Overview

13.8.5 Werth Messtechnik Latest Developments

13.9 Vision Engineering

13.9.1 Vision Engineering Company Information

13.9.2 Vision Engineering Precision Vision Measurement System Product Portfolios and Specifications

13.9.3 Vision Engineering Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Vision Engineering Main Business Overview

13.9.5 Vision Engineering Latest Developments

13.10 Starrett Metrology Systems

13.10.1 Starrett Metrology Systems Company Information

13.10.2 Starrett Metrology Systems Precision Vision Measurement System Product Portfolios and Specifications

13.10.3 Starrett Metrology Systems Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Starrett Metrology Systems Main Business Overview

13.10.5 Starrett Metrology Systems Latest Developments

13.11 Mahr

13.11.1 Mahr Company Information

13.11.2 Mahr Precision Vision Measurement System Product Portfolios and Specifications

13.11.3 Mahr Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Mahr Main Business Overview

13.11.5 Mahr Latest Developments

13.12 Bowers Group

13.12.1 Bowers Group Company Information

13.12.2 Bowers Group Precision Vision Measurement System Product Portfolios and Specifications

- 13.12.3 Bowers Group Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.12.4 Bowers Group Main Business Overview
- 13.12.5 Bowers Group Latest Developments
- 13.13 Tianzhun Technology
 - 13.13.1 Tianzhun Technology Company Information
 - 13.13.2 Tianzhun Technology Precision Vision Measurement System Product Portfolios and Specifications
 - 13.13.3 Tianzhun Technology Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Tianzhun Technology Main Business Overview
 - 13.13.5 Tianzhun Technology Latest Developments
- 13.14 Chotest
 - 13.14.1 Chotest Company Information
 - 13.14.2 Chotest Precision Vision Measurement System Product Portfolios and Specifications
 - 13.14.3 Chotest Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Chotest Main Business Overview
 - 13.14.5 Chotest Latest Developments
- 13.15 Serein
 - 13.15.1 Serein Company Information
 - 13.15.2 Serein Precision Vision Measurement System Product Portfolios and Specifications
 - 13.15.3 Serein Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Serein Main Business Overview
 - 13.15.5 Serein Latest Developments
- 13.16 Jaten Instruments
 - 13.16.1 Jaten Instruments Company Information
 - 13.16.2 Jaten Instruments Precision Vision Measurement System Product Portfolios and Specifications
 - 13.16.3 Jaten Instruments Precision Vision Measurement System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Jaten Instruments Main Business Overview
 - 13.16.5 Jaten Instruments Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Precision Vision Measurement System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Precision Vision Measurement System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Manual Image Measuring Machine

Table 4. Major Players of Semi-Automatic Image Measuring Machine

Table 5. Major Players of Fully Automatic Image Measuring Machine

Table 6. Global Precision Vision Measurement System Sales by Type (2021-2026) & (Units)

Table 7. Global Precision Vision Measurement System Sales Market Share by Type (2021-2026)

Table 8. Global Precision Vision Measurement System Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Precision Vision Measurement System Revenue Market Share by Type (2021-2026)

Table 10. Global Precision Vision Measurement System Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of Two-Dimensional Image Measuring Machine

Table 12. Major Players of Three-Dimensional Composite Image Measuring Machine

Table 13. Global Precision Vision Measurement System Sales by Measurement Function (2021-2026) & (Units)

Table 14. Global Precision Vision Measurement System Sales Market Share by Measurement Function (2021-2026)

Table 15. Global Precision Vision Measurement System Revenue by Measurement Function (2021-2026) & (\$ million)

Table 16. Global Precision Vision Measurement System Revenue Market Share by Measurement Function (2021-2026)

Table 17. Global Precision Vision Measurement System Sale Price by Measurement Function (2021-2026) & (K US\$/Unit)

Table 18. Major Players of Bridge Type

Table 19. Major Players of Cantilever Type

Table 20. Major Players of Floor Type

Table 21. Major Players of Vertical Type

Table 22. Global Precision Vision Measurement System Sales by Structural Form (2021-2026) & (Units)

Table 23. Global Precision Vision Measurement System Sales Market Share by Structural Form (2021-2026)

Table 24. Global Precision Vision Measurement System Revenue by Structural Form (2021-2026) & (\$ million)

Table 25. Global Precision Vision Measurement System Revenue Market Share by Structural Form (2021-2026)

Table 26. Global Precision Vision Measurement System Sale Price by Structural Form (2021-2026) & (K US\$/Unit)

Table 27. Major Players of Screw Drive Type

Table 28. Major Players of Linear Motor Drive Type

Table 29. Major Players of Belt Drive Type

Table 30. Global Precision Vision Measurement System Sales by Driving Method (2021-2026) & (Units)

Table 31. Global Precision Vision Measurement System Sales Market Share by Driving Method (2021-2026)

Table 32. Global Precision Vision Measurement System Revenue by Driving Method (2021-2026) & (\$ million)

Table 33. Global Precision Vision Measurement System Revenue Market Share by Driving Method (2021-2026)

Table 34. Global Precision Vision Measurement System Sale Price by Driving Method (2021-2026) & (K US\$/Unit)

Table 35. Global Precision Vision Measurement System Sale by Application (2021-2026) & (Units)

Table 36. Global Precision Vision Measurement System Sale Market Share by Application (2021-2026)

Table 37. Global Precision Vision Measurement System Revenue by Application (2021-2026) & (\$ million)

Table 38. Global Precision Vision Measurement System Revenue Market Share by Application (2021-2026)

Table 39. Global Precision Vision Measurement System Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 40. Global Precision Vision Measurement System Sales by Company (2021-2026) & (Units)

Table 41. Global Precision Vision Measurement System Sales Market Share by Company (2021-2026)

Table 42. Global Precision Vision Measurement System Revenue by Company (2021-2026) & (\$ millions)

Table 43. Global Precision Vision Measurement System Revenue Market Share by Company (2021-2026)

Table 44. Global Precision Vision Measurement System Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 45. Key Manufacturers Precision Vision Measurement System Producing Area Distribution and Sales Area

Table 46. Players Precision Vision Measurement System Products Offered

Table 47. Precision Vision Measurement System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 48. New Products and Potential Entrants

Table 49. Market M&A Activity & Strategy

Table 50. Global Precision Vision Measurement System Sales by Geographic Region (2021-2026) & (Units)

Table 51. Global Precision Vision Measurement System Sales Market Share Geographic Region (2021-2026)

Table 52. Global Precision Vision Measurement System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 53. Global Precision Vision Measurement System Revenue Market Share by Geographic Region (2021-2026)

Table 54. Global Precision Vision Measurement System Sales by Country/Region (2021-2026) & (Units)

Table 55. Global Precision Vision Measurement System Sales Market Share by Country/Region (2021-2026)

Table 56. Global Precision Vision Measurement System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 57. Global Precision Vision Measurement System Revenue Market Share by Country/Region (2021-2026)

Table 58. Americas Precision Vision Measurement System Sales by Country (2021-2026) & (Units)

Table 59. Americas Precision Vision Measurement System Sales Market Share by Country (2021-2026)

Table 60. Americas Precision Vision Measurement System Revenue by Country (2021-2026) & (\$ millions)

Table 61. Americas Precision Vision Measurement System Sales by Type (2021-2026) & (Units)

Table 62. Americas Precision Vision Measurement System Sales by Application (2021-2026) & (Units)

Table 63. APAC Precision Vision Measurement System Sales by Region (2021-2026) & (Units)

Table 64. APAC Precision Vision Measurement System Sales Market Share by Region (2021-2026)

- Table 65. APAC Precision Vision Measurement System Revenue by Region (2021-2026) & (\$ millions)
- Table 66. APAC Precision Vision Measurement System Sales by Type (2021-2026) & (Units)
- Table 67. APAC Precision Vision Measurement System Sales by Application (2021-2026) & (Units)
- Table 68. Europe Precision Vision Measurement System Sales by Country (2021-2026) & (Units)
- Table 69. Europe Precision Vision Measurement System Revenue by Country (2021-2026) & (\$ millions)
- Table 70. Europe Precision Vision Measurement System Sales by Type (2021-2026) & (Units)
- Table 71. Europe Precision Vision Measurement System Sales by Application (2021-2026) & (Units)
- Table 72. Middle East & Africa Precision Vision Measurement System Sales by Country (2021-2026) & (Units)
- Table 73. Middle East & Africa Precision Vision Measurement System Revenue Market Share by Country (2021-2026)
- Table 74. Middle East & Africa Precision Vision Measurement System Sales by Type (2021-2026) & (Units)
- Table 75. Middle East & Africa Precision Vision Measurement System Sales by Application (2021-2026) & (Units)
- Table 76. Key Market Drivers & Growth Opportunities of Precision Vision Measurement System
- Table 77. Key Market Challenges & Risks of Precision Vision Measurement System
- Table 78. Key Industry Trends of Precision Vision Measurement System
- Table 79. Precision Vision Measurement System Raw Material
- Table 80. Key Suppliers of Raw Materials
- Table 81. Precision Vision Measurement System Distributors List
- Table 82. Precision Vision Measurement System Customer List
- Table 83. Global Precision Vision Measurement System Sales Forecast by Region (2027-2032) & (Units)
- Table 84. Global Precision Vision Measurement System Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 85. Americas Precision Vision Measurement System Sales Forecast by Country (2027-2032) & (Units)
- Table 86. Americas Precision Vision Measurement System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 87. APAC Precision Vision Measurement System Sales Forecast by Region

(2027-2032) & (Units)

Table 88. APAC Precision Vision Measurement System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 89. Europe Precision Vision Measurement System Sales Forecast by Country (2027-2032) & (Units)

Table 90. Europe Precision Vision Measurement System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. Middle East & Africa Precision Vision Measurement System Sales Forecast by Country (2027-2032) & (Units)

Table 92. Middle East & Africa Precision Vision Measurement System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 93. Global Precision Vision Measurement System Sales Forecast by Type (2027-2032) & (Units)

Table 94. Global Precision Vision Measurement System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 95. Global Precision Vision Measurement System Sales Forecast by Application (2027-2032) & (Units)

Table 96. Global Precision Vision Measurement System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 97. ZEISS Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 98. ZEISS Precision Vision Measurement System Product Portfolios and Specifications

Table 99. ZEISS Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 100. ZEISS Main Business

Table 101. ZEISS Latest Developments

Table 102. Nikon Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 103. Nikon Precision Vision Measurement System Product Portfolios and Specifications

Table 104. Nikon Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 105. Nikon Main Business

Table 106. Nikon Latest Developments

Table 107. Mitutoyo Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 108. Mitutoyo Precision Vision Measurement System Product Portfolios and Specifications

Table 109. Mitutoyo Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 110. Mitutoyo Main Business

Table 111. Mitutoyo Latest Developments

Table 112. KEYENCE Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 113. KEYENCE Precision Vision Measurement System Product Portfolios and Specifications

Table 114. KEYENCE Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 115. KEYENCE Main Business

Table 116. KEYENCE Latest Developments

Table 117. Hexagon Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 118. Hexagon Precision Vision Measurement System Product Portfolios and Specifications

Table 119. Hexagon Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. Hexagon Main Business

Table 121. Hexagon Latest Developments

Table 122. OGP Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 123. OGP Precision Vision Measurement System Product Portfolios and Specifications

Table 124. OGP Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. OGP Main Business

Table 126. OGP Latest Developments

Table 127. Micro-Vu Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 128. Micro-Vu Precision Vision Measurement System Product Portfolios and Specifications

Table 129. Micro-Vu Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. Micro-Vu Main Business

Table 131. Micro-Vu Latest Developments

Table 132. Werth Messtechnik Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 133. Werth Messtechnik Precision Vision Measurement System Product

Portfolios and Specifications

Table 134. Werth Messtechnik Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 135. Werth Messtechnik Main Business

Table 136. Werth Messtechnik Latest Developments

Table 137. Vision Engineering Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 138. Vision Engineering Precision Vision Measurement System Product Portfolios and Specifications

Table 139. Vision Engineering Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 140. Vision Engineering Main Business

Table 141. Vision Engineering Latest Developments

Table 142. Starrett Metrology Systems Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 143. Starrett Metrology Systems Precision Vision Measurement System Product Portfolios and Specifications

Table 144. Starrett Metrology Systems Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 145. Starrett Metrology Systems Main Business

Table 146. Starrett Metrology Systems Latest Developments

Table 147. Mahr Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 148. Mahr Precision Vision Measurement System Product Portfolios and Specifications

Table 149. Mahr Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 150. Mahr Main Business

Table 151. Mahr Latest Developments

Table 152. Bowers Group Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 153. Bowers Group Precision Vision Measurement System Product Portfolios and Specifications

Table 154. Bowers Group Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 155. Bowers Group Main Business

Table 156. Bowers Group Latest Developments

Table 157. Tianzhun Technology Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 158. Tianzhun Technology Precision Vision Measurement System Product Portfolios and Specifications

Table 159. Tianzhun Technology Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 160. Tianzhun Technology Main Business

Table 161. Tianzhun Technology Latest Developments

Table 162. Chotest Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 163. Chotest Precision Vision Measurement System Product Portfolios and Specifications

Table 164. Chotest Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 165. Chotest Main Business

Table 166. Chotest Latest Developments

Table 167. Serein Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 168. Serein Precision Vision Measurement System Product Portfolios and Specifications

Table 169. Serein Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 170. Serein Main Business

Table 171. Serein Latest Developments

Table 172. Jaten Instruments Basic Information, Precision Vision Measurement System Manufacturing Base, Sales Area and Its Competitors

Table 173. Jaten Instruments Precision Vision Measurement System Product Portfolios and Specifications

Table 174. Jaten Instruments Precision Vision Measurement System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 175. Jaten Instruments Main Business

Table 176. Jaten Instruments Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Precision Vision Measurement System
- Figure 2. Precision Vision Measurement System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Precision Vision Measurement System Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Precision Vision Measurement System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Precision Vision Measurement System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Precision Vision Measurement System Sales Market Share by Country/Region (2025)
- Figure 10. Precision Vision Measurement System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Manual Image Measuring Machine
- Figure 12. Product Picture of Semi-Automatic Image Measuring Machine
- Figure 13. Product Picture of Fully Automatic Image Measuring Machine
- Figure 14. Global Precision Vision Measurement System Sales Market Share by Type in 2026
- Figure 15. Global Precision Vision Measurement System Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Two-Dimensional Image Measuring Machine
- Figure 17. Product Picture of Three-Dimensional Composite Image Measuring Machine
- Figure 18. Global Precision Vision Measurement System Sales Market Share by Measurement Function in 2026
- Figure 19. Global Precision Vision Measurement System Revenue Market Share by Measurement Function (2021-2026)
- Figure 20. Product Picture of Bridge Type
- Figure 21. Product Picture of Cantilever Type
- Figure 22. Product Picture of Floor Type
- Figure 23. Product Picture of Vertical Type
- Figure 24. Global Precision Vision Measurement System Sales Market Share by Structural Form in 2026
- Figure 25. Global Precision Vision Measurement System Revenue Market Share by

Structural Form (2021-2026)

Figure 26. Product Picture of Screw Drive Type

Figure 27. Product Picture of Linear Motor Drive Type

Figure 28. Product Picture of Belt Drive Type

Figure 29. Global Precision Vision Measurement System Sales Market Share by Driving Method in 2026

Figure 30. Global Precision Vision Measurement System Revenue Market Share by Driving Method (2021-2026)

Figure 31. Precision Vision Measurement System Consumed in Electronics and Consumer Electronics Industry

Figure 32. Global Precision Vision Measurement System Market: Electronics and Consumer Electronics Industry (2021-2026) & (Units)

Figure 33. Precision Vision Measurement System Consumed in Semiconductor Industry

Figure 34. Global Precision Vision Measurement System Market: Semiconductor Industry (2021-2026) & (Units)

Figure 35. Precision Vision Measurement System Consumed in Precision Machinery and Mold Manufacturing

Figure 36. Global Precision Vision Measurement System Market: Precision Machinery and Mold Manufacturing (2021-2026) & (Units)

Figure 37. Precision Vision Measurement System Consumed in Automotive Manufacturing Industry

Figure 38. Global Precision Vision Measurement System Market: Automotive Manufacturing Industry (2021-2026) & (Units)

Figure 39. Precision Vision Measurement System Consumed in Medical Device Industry

Figure 40. Global Precision Vision Measurement System Market: Medical Device Industry (2021-2026) & (Units)

Figure 41. Precision Vision Measurement System Consumed in Aerospace Industry

Figure 42. Global Precision Vision Measurement System Market: Aerospace Industry (2021-2026) & (Units)

Figure 43. Global Precision Vision Measurement System Sale Market Share by Application (2025)

Figure 44. Global Precision Vision Measurement System Revenue Market Share by Application in 2025

Figure 45. Precision Vision Measurement System Sales by Company in 2025 (Units)

Figure 46. Global Precision Vision Measurement System Sales Market Share by Company in 2025

Figure 47. Precision Vision Measurement System Revenue by Company in 2025 (\$ millions)

Figure 48. Global Precision Vision Measurement System Revenue Market Share by

Company in 2025

Figure 49. Global Precision Vision Measurement System Sales Market Share by Geographic Region (2021-2026)

Figure 50. Global Precision Vision Measurement System Revenue Market Share by Geographic Region in 2025

Figure 51. Americas Precision Vision Measurement System Sales 2021-2026 (Units)

Figure 52. Americas Precision Vision Measurement System Revenue 2021-2026 (\$ millions)

Figure 53. APAC Precision Vision Measurement System Sales 2021-2026 (Units)

Figure 54. APAC Precision Vision Measurement System Revenue 2021-2026 (\$ millions)

Figure 55. Europe Precision Vision Measurement System Sales 2021-2026 (Units)

Figure 56. Europe Precision Vision Measurement System Revenue 2021-2026 (\$ millions)

Figure 57. Middle East & Africa Precision Vision Measurement System Sales 2021-2026 (Units)

Figure 58. Middle East & Africa Precision Vision Measurement System Revenue 2021-2026 (\$ millions)

Figure 59. Americas Precision Vision Measurement System Sales Market Share by Country in 2025

Figure 60. Americas Precision Vision Measurement System Revenue Market Share by Country (2021-2026)

Figure 61. Americas Precision Vision Measurement System Sales Market Share by Type (2021-2026)

Figure 62. Americas Precision Vision Measurement System Sales Market Share by Application (2021-2026)

Figure 63. United States Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 64. Canada Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 65. Mexico Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 66. Brazil Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 67. APAC Precision Vision Measurement System Sales Market Share by Region in 2025

Figure 68. APAC Precision Vision Measurement System Revenue Market Share by Region (2021-2026)

Figure 69. APAC Precision Vision Measurement System Sales Market Share by Type

(2021-2026)

Figure 70. APAC Precision Vision Measurement System Sales Market Share by Application (2021-2026)

Figure 71. China Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 72. Japan Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 73. South Korea Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 74. Southeast Asia Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 75. India Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 76. Australia Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 77. China Taiwan Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 78. Europe Precision Vision Measurement System Sales Market Share by Country in 2025

Figure 79. Europe Precision Vision Measurement System Revenue Market Share by Country (2021-2026)

Figure 80. Europe Precision Vision Measurement System Sales Market Share by Type (2021-2026)

Figure 81. Europe Precision Vision Measurement System Sales Market Share by Application (2021-2026)

Figure 82. Germany Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 83. France Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 84. UK Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Italy Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 86. Russia Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 87. Middle East & Africa Precision Vision Measurement System Sales Market Share by Country (2021-2026)

Figure 88. Middle East & Africa Precision Vision Measurement System Sales Market Share by Type (2021-2026)

Figure 89. Middle East & Africa Precision Vision Measurement System Sales Market Share by Application (2021-2026)

Figure 90. Egypt Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 91. South Africa Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 92. Israel Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 93. Turkey Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 94. GCC Countries Precision Vision Measurement System Revenue Growth 2021-2026 (\$ millions)

Figure 95. Manufacturing Cost Structure Analysis of Precision Vision Measurement System in 2026

Figure 96. Manufacturing Process Analysis of Precision Vision Measurement System

Figure 97. Industry Chain Structure of Precision Vision Measurement System

Figure 98. Channels of Distribution

Figure 99. Global Precision Vision Measurement System Sales Market Forecast by Region (2027-2032)

Figure 100. Global Precision Vision Measurement System Revenue Market Share Forecast by Region (2027-2032)

Figure 101. Global Precision Vision Measurement System Sales Market Share Forecast by Type (2027-2032)

Figure 102. Global Precision Vision Measurement System Revenue Market Share Forecast by Type (2027-2032)

Figure 103. Global Precision Vision Measurement System Sales Market Share Forecast by Application (2027-2032)

Figure 104. Global Precision Vision Measurement System Revenue Market Share Forecast by Application (2027-2032)

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