

Global Wheel Parameter Measurement System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wheel Parameter Measurement System market size was valued at US\$ 5187 million in 2025 and is forecast to a readjusted size of US\$ 8199 million by 2032 with a CAGR of 6.7% during review period.

In 2025, global sales of wheel parameter measurement systems reached 28,000 units, with an average selling price of 180,000 yuan per unit. Wheel parameter measurement systems are intelligent devices used for comprehensive detection of wheel geometry and operating status. They can simultaneously measure key parameters such as diameter, flange thickness, flange height, tread wear, and roundness. Widely used in rail transit vehicles, automobile manufacturing, and heavy engineering machinery, these systems feature non-contact measurement, high-precision data acquisition, and data analysis capabilities, making them crucial inspection tools for ensuring vehicle operation safety and manufacturing quality. Global total production capacity is approximately 38,000 units, with an average industry gross profit margin of approximately 35%. Upstream components mainly include laser sensors, industrial cameras, precision optical components, control systems, and structural parts; downstream demand primarily comes from rail transit, automobile manufacturing, engineering machinery, and other fields. In the downstream consumption structure, the proportion of demand for vehicle operation and maintenance testing continues to increase, and the penetration rate of online testing systems is gradually rising.

Upstream material consumption is centered on high-end sensors and optical devices, with steel structures and electronic components as basic supporting components. The demand growth is mainly driven by the improvement of rail transit safety standards and

the construction of intelligent operation and maintenance systems. In the future, the system will develop towards online, intelligent diagnosis and data platformization, and be deeply integrated with the vehicle health management system. Manufacturers with software algorithms and system integration capabilities will have greater business opportunities in the high-end market.

The market for wheel parameter measurement systems is steadily growing alongside the intelligent upgrade of the automotive industry and the improvement of safety standards in rail transit. As a crucial component of high-end industrial testing equipment, this system is primarily used for high-precision measurement of the geometric parameters, dynamic state, and assembly accuracy of wheels and wheelsets, covering key indicators such as wheel diameter, wheelbase, circular runout, yaw, profile shape, and wear condition. With the transformation of vehicle manufacturing towards high-precision assembly and digital quality control, and the increasing demands for operational safety and maintenance efficiency in rail transit, the application of wheel parameter measurement systems in online production line inspection and maintenance testing is expanding.

From a market demand structure perspective, the automotive manufacturing industry remains the largest application area. New energy vehicle production lines have higher requirements for wheel consistency and assembly accuracy, leading to continued growth in demand for automated, high-speed online measurement systems. Meanwhile, the rail transit industry has a stable and long-term demand for high-reliability testing equipment in the wheelset inspection and scheduled maintenance of high-speed rail, subway, and intercity railways. Furthermore, wheel manufacturers, automotive parts processing companies, and third-party testing institutions are accelerating the adoption of automated testing systems to improve product quality control capabilities and production efficiency.

From a technological development perspective, wheel parameter measurement systems are upgrading towards intelligence, online operation, and digitalization. The application of AI visual recognition, 3D laser scanning, machine learning error compensation, and digital twin technology is continuously improving measurement accuracy and automation levels. Simultaneously, equipment is shifting from offline inspection to online real-time inspection, enabling real-time quality control during the production process. Furthermore, cloud data management and remote diagnostic functions are gradually becoming important features of high-end equipment, helping to enhance cross-factory collaborative quality management capabilities.

Overall, the wheel parameter measurement system market is a significant sub-segment of high-end industrial inspection equipment, with its growth primarily driven by the upgrading of the new energy vehicle industry, the expansion of rail transit, and the development of intelligent manufacturing. In the future, with the continued advancement of Industry 4.0 and smart factory construction, high-precision, online, and AI-driven inspection systems will become the main development direction of the industry. Companies with optoelectronic measurement technology, industrial software capabilities, and system integration experience are expected to gain a higher market share and long-term growth potential in future market competition.

This report is a detailed and comprehensive analysis for global Wheel Parameter Measurement System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Wheel Parameter Measurement System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wheel Parameter Measurement System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wheel Parameter Measurement System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Wheel Parameter Measurement System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Wheel Parameter Measurement System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Wheel Parameter Measurement System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MERMEC GROUP, Bulox Equipment, Kubler, Riftek, GRAW Sp, Dr. Wehrhahn, Hexagon, Wabtec, ApnaTech, DURR GROUP, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Wheel Parameter Measurement System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Laser Displacement Sensing Measurement

Line Laser Profile Scanning

Image Vision Measurement

Others

Market segment by Measurement Parameters

Wheel Diameter

Flange Parameters

Tread Parameters

Others

Market segment by Accuracy

Accuracy: $\pm 0.03\text{mm}$

Accuracy: $\pm 0.02\text{mm}$

Others

Market segment by Application

Rail Transit Vehicles

Automobile Manufacturing

Heavy Machinery

Others

Major players covered

MERMEC GROUP

Bulox Equipment

Kubler

Riftek

GRAW Sp

Dr. Wehrhahn

Hexagon

Wabtec

ApnaTech

DURR GROUP

Kistler

Shinyei Technology

Keyence

DINGHAN

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Wheel Parameter Measurement System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wheel Parameter Measurement System, with price, sales quantity, revenue, and global market share of Wheel Parameter Measurement System from 2021 to 2026.

Chapter 3, the Wheel Parameter Measurement System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wheel Parameter Measurement System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Wheel Parameter Measurement System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Wheel Parameter Measurement System.

Chapter 14 and 15, to describe Wheel Parameter Measurement System sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Wheel Parameter Measurement System Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Laser Displacement Sensing Measurement

1.3.3 Line Laser Profile Scanning

1.3.4 Image Vision Measurement

1.3.5 Others

1.4 Market Analysis by Measurement Parameters

1.4.1 Overview: Global Wheel Parameter Measurement System Consumption Value by Measurement Parameters: 2021 Versus 2025 Versus 2032

1.4.2 Wheel Diameter

1.4.3 Flange Parameters

1.4.4 Tread Parameters

1.4.5 Others

1.5 Market Analysis by Accuracy

1.5.1 Overview: Global Wheel Parameter Measurement System Consumption Value by Accuracy: 2021 Versus 2025 Versus 2032

1.5.2 Accuracy: $\pm 0.03\text{mm}$

1.5.3 Accuracy: $\pm 0.02\text{mm}$

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Wheel Parameter Measurement System Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Rail Transit Vehicles

1.6.3 Automobile Manufacturing

1.6.4 Heavy Machinery

1.6.5 Others

1.7 Global Wheel Parameter Measurement System Market Size & Forecast

1.7.1 Global Wheel Parameter Measurement System Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Wheel Parameter Measurement System Sales Quantity (2021-2032)

1.7.3 Global Wheel Parameter Measurement System Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 MERMEC GROUP

2.1.1 MERMEC GROUP Details

2.1.2 MERMEC GROUP Major Business

2.1.3 MERMEC GROUP Wheel Parameter Measurement System Product and Services

2.1.4 MERMEC GROUP Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 MERMEC GROUP Recent Developments/Updates

2.2 Bulox Equipment

2.2.1 Bulox Equipment Details

2.2.2 Bulox Equipment Major Business

2.2.3 Bulox Equipment Wheel Parameter Measurement System Product and Services

2.2.4 Bulox Equipment Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Bulox Equipment Recent Developments/Updates

2.3 Kubler

2.3.1 Kubler Details

2.3.2 Kubler Major Business

2.3.3 Kubler Wheel Parameter Measurement System Product and Services

2.3.4 Kubler Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Kubler Recent Developments/Updates

2.4 Riftek

2.4.1 Riftek Details

2.4.2 Riftek Major Business

2.4.3 Riftek Wheel Parameter Measurement System Product and Services

2.4.4 Riftek Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Riftek Recent Developments/Updates

2.5 GRAW Sp

2.5.1 GRAW Sp Details

2.5.2 GRAW Sp Major Business

2.5.3 GRAW Sp Wheel Parameter Measurement System Product and Services

2.5.4 GRAW Sp Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 GRAW Sp Recent Developments/Updates

2.6 Dr. Wehrhahn

- 2.6.1 Dr. Wehrhahn Details
- 2.6.2 Dr. Wehrhahn Major Business
- 2.6.3 Dr. Wehrhahn Wheel Parameter Measurement System Product and Services
- 2.6.4 Dr. Wehrhahn Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Dr. Wehrhahn Recent Developments/Updates
- 2.7 Hexagon
 - 2.7.1 Hexagon Details
 - 2.7.2 Hexagon Major Business
 - 2.7.3 Hexagon Wheel Parameter Measurement System Product and Services
 - 2.7.4 Hexagon Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Hexagon Recent Developments/Updates
- 2.8 Wabtec
 - 2.8.1 Wabtec Details
 - 2.8.2 Wabtec Major Business
 - 2.8.3 Wabtec Wheel Parameter Measurement System Product and Services
 - 2.8.4 Wabtec Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Wabtec Recent Developments/Updates
- 2.9 ApnaTech
 - 2.9.1 ApnaTech Details
 - 2.9.2 ApnaTech Major Business
 - 2.9.3 ApnaTech Wheel Parameter Measurement System Product and Services
 - 2.9.4 ApnaTech Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 ApnaTech Recent Developments/Updates
- 2.10 DURR GROUP
 - 2.10.1 DURR GROUP Details
 - 2.10.2 DURR GROUP Major Business
 - 2.10.3 DURR GROUP Wheel Parameter Measurement System Product and Services
 - 2.10.4 DURR GROUP Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 DURR GROUP Recent Developments/Updates
- 2.11 Kistler
 - 2.11.1 Kistler Details
 - 2.11.2 Kistler Major Business
 - 2.11.3 Kistler Wheel Parameter Measurement System Product and Services
 - 2.11.4 Kistler Wheel Parameter Measurement System Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Kistler Recent Developments/Updates

2.12 Shinyei Technology

2.12.1 Shinyei Technology Details

2.12.2 Shinyei Technology Major Business

2.12.3 Shinyei Technology Wheel Parameter Measurement System Product and Services

2.12.4 Shinyei Technology Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Shinyei Technology Recent Developments/Updates

2.13 Keyence

2.13.1 Keyence Details

2.13.2 Keyence Major Business

2.13.3 Keyence Wheel Parameter Measurement System Product and Services

2.13.4 Keyence Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Keyence Recent Developments/Updates

2.14 DINGHAN

2.14.1 DINGHAN Details

2.14.2 DINGHAN Major Business

2.14.3 DINGHAN Wheel Parameter Measurement System Product and Services

2.14.4 DINGHAN Wheel Parameter Measurement System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 DINGHAN Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: WHEEL PARAMETER MEASUREMENT SYSTEM BY MANUFACTURER

3.1 Global Wheel Parameter Measurement System Sales Quantity by Manufacturer (2021-2026)

3.2 Global Wheel Parameter Measurement System Revenue by Manufacturer (2021-2026)

3.3 Global Wheel Parameter Measurement System Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Wheel Parameter Measurement System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Wheel Parameter Measurement System Manufacturer Market Share in 2025

3.4.3 Top 6 Wheel Parameter Measurement System Manufacturer Market Share in 2025

3.5 Wheel Parameter Measurement System Market: Overall Company Footprint Analysis

3.5.1 Wheel Parameter Measurement System Market: Region Footprint

3.5.2 Wheel Parameter Measurement System Market: Company Product Type Footprint

3.5.3 Wheel Parameter Measurement System Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Wheel Parameter Measurement System Market Size by Region

4.1.1 Global Wheel Parameter Measurement System Sales Quantity by Region (2021-2032)

4.1.2 Global Wheel Parameter Measurement System Consumption Value by Region (2021-2032)

4.1.3 Global Wheel Parameter Measurement System Average Price by Region (2021-2032)

4.2 North America Wheel Parameter Measurement System Consumption Value (2021-2032)

4.3 Europe Wheel Parameter Measurement System Consumption Value (2021-2032)

4.4 Asia-Pacific Wheel Parameter Measurement System Consumption Value (2021-2032)

4.5 South America Wheel Parameter Measurement System Consumption Value (2021-2032)

4.6 Middle East & Africa Wheel Parameter Measurement System Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

5.2 Global Wheel Parameter Measurement System Consumption Value by Type (2021-2032)

5.3 Global Wheel Parameter Measurement System Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

6.2 Global Wheel Parameter Measurement System Consumption Value by Application (2021-2032)

6.3 Global Wheel Parameter Measurement System Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

7.2 North America Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

7.3 North America Wheel Parameter Measurement System Market Size by Country

7.3.1 North America Wheel Parameter Measurement System Sales Quantity by Country (2021-2032)

7.3.2 North America Wheel Parameter Measurement System Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

8.2 Europe Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

8.3 Europe Wheel Parameter Measurement System Market Size by Country

8.3.1 Europe Wheel Parameter Measurement System Sales Quantity by Country (2021-2032)

8.3.2 Europe Wheel Parameter Measurement System Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Wheel Parameter Measurement System Market Size by Region

9.3.1 Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Wheel Parameter Measurement System Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

10.2 South America Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

10.3 South America Wheel Parameter Measurement System Market Size by Country

10.3.1 South America Wheel Parameter Measurement System Sales Quantity by Country (2021-2032)

10.3.2 South America Wheel Parameter Measurement System Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Wheel Parameter Measurement System Market Size by Country

11.3.1 Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Wheel Parameter Measurement System Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Wheel Parameter Measurement System Market Drivers

12.2 Wheel Parameter Measurement System Market Restraints

12.3 Wheel Parameter Measurement System Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Wheel Parameter Measurement System and Key Manufacturers

13.2 Manufacturing Costs Percentage of Wheel Parameter Measurement System

13.3 Wheel Parameter Measurement System Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Wheel Parameter Measurement System Typical Distributors

14.3 Wheel Parameter Measurement System Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Wheel Parameter Measurement System Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Wheel Parameter Measurement System Consumption Value by Measurement Parameters, (USD Million), 2021 & 2025 & 2032

Table 3. Global Wheel Parameter Measurement System Consumption Value by Accuracy, (USD Million), 2021 & 2025 & 2032

Table 4. Global Wheel Parameter Measurement System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. MERMEC GROUP Basic Information, Manufacturing Base and Competitors

Table 6. MERMEC GROUP Major Business

Table 7. MERMEC GROUP Wheel Parameter Measurement System Product and Services

Table 8. MERMEC GROUP Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. MERMEC GROUP Recent Developments/Updates

Table 10. Bulox Equipment Basic Information, Manufacturing Base and Competitors

Table 11. Bulox Equipment Major Business

Table 12. Bulox Equipment Wheel Parameter Measurement System Product and Services

Table 13. Bulox Equipment Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Bulox Equipment Recent Developments/Updates

Table 15. Kubler Basic Information, Manufacturing Base and Competitors

Table 16. Kubler Major Business

Table 17. Kubler Wheel Parameter Measurement System Product and Services

Table 18. Kubler Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Kubler Recent Developments/Updates

Table 20. Riftek Basic Information, Manufacturing Base and Competitors

Table 21. Riftek Major Business

Table 22. Riftek Wheel Parameter Measurement System Product and Services

Table 23. Riftek Wheel Parameter Measurement System Sales Quantity (Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Riftek Recent Developments/Updates

Table 25. GRAW Sp Basic Information, Manufacturing Base and Competitors

Table 26. GRAW Sp Major Business

Table 27. GRAW Sp Wheel Parameter Measurement System Product and Services

Table 28. GRAW Sp Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. GRAW Sp Recent Developments/Updates

Table 30. Dr. Wehrhahn Basic Information, Manufacturing Base and Competitors

Table 31. Dr. Wehrhahn Major Business

Table 32. Dr. Wehrhahn Wheel Parameter Measurement System Product and Services

Table 33. Dr. Wehrhahn Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Dr. Wehrhahn Recent Developments/Updates

Table 35. Hexagon Basic Information, Manufacturing Base and Competitors

Table 36. Hexagon Major Business

Table 37. Hexagon Wheel Parameter Measurement System Product and Services

Table 38. Hexagon Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Hexagon Recent Developments/Updates

Table 40. Wabtec Basic Information, Manufacturing Base and Competitors

Table 41. Wabtec Major Business

Table 42. Wabtec Wheel Parameter Measurement System Product and Services

Table 43. Wabtec Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Wabtec Recent Developments/Updates

Table 45. ApnaTech Basic Information, Manufacturing Base and Competitors

Table 46. ApnaTech Major Business

Table 47. ApnaTech Wheel Parameter Measurement System Product and Services

Table 48. ApnaTech Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. ApnaTech Recent Developments/Updates

Table 50. DURR GROUP Basic Information, Manufacturing Base and Competitors

Table 51. DURR GROUP Major Business

Table 52. DURR GROUP Wheel Parameter Measurement System Product and Services

Table 53. DURR GROUP Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. DURR GROUP Recent Developments/Updates

Table 55. Kistler Basic Information, Manufacturing Base and Competitors

Table 56. Kistler Major Business

Table 57. Kistler Wheel Parameter Measurement System Product and Services

Table 58. Kistler Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Kistler Recent Developments/Updates

Table 60. Shinyei Technology Basic Information, Manufacturing Base and Competitors

Table 61. Shinyei Technology Major Business

Table 62. Shinyei Technology Wheel Parameter Measurement System Product and Services

Table 63. Shinyei Technology Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Shinyei Technology Recent Developments/Updates

Table 65. Keyence Basic Information, Manufacturing Base and Competitors

Table 66. Keyence Major Business

Table 67. Keyence Wheel Parameter Measurement System Product and Services

Table 68. Keyence Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Keyence Recent Developments/Updates

Table 70. DINGHAN Basic Information, Manufacturing Base and Competitors

Table 71. DINGHAN Major Business

Table 72. DINGHAN Wheel Parameter Measurement System Product and Services

Table 73. DINGHAN Wheel Parameter Measurement System Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. DINGHAN Recent Developments/Updates

Table 75. Global Wheel Parameter Measurement System Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 76. Global Wheel Parameter Measurement System Revenue by Manufacturer

(2021-2026) & (USD Million)

Table 77. Global Wheel Parameter Measurement System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in Wheel Parameter Measurement System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and Wheel Parameter Measurement System Production Site of Key Manufacturer

Table 80. Wheel Parameter Measurement System Market: Company Product Type Footprint

Table 81. Wheel Parameter Measurement System Market: Company Product Application Footprint

Table 82. Wheel Parameter Measurement System New Market Entrants and Barriers to Market Entry

Table 83. Wheel Parameter Measurement System Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global Wheel Parameter Measurement System Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global Wheel Parameter Measurement System Sales Quantity by Region (2021-2026) & (Units)

Table 86. Global Wheel Parameter Measurement System Sales Quantity by Region (2027-2032) & (Units)

Table 87. Global Wheel Parameter Measurement System Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global Wheel Parameter Measurement System Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global Wheel Parameter Measurement System Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global Wheel Parameter Measurement System Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 92. Global Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 93. Global Wheel Parameter Measurement System Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global Wheel Parameter Measurement System Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global Wheel Parameter Measurement System Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global Wheel Parameter Measurement System Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 98. Global Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 99. Global Wheel Parameter Measurement System Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global Wheel Parameter Measurement System Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global Wheel Parameter Measurement System Average Price by Application (2021-2026) & (US\$/Unit)

Table 102. Global Wheel Parameter Measurement System Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 104. North America Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 105. North America Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 106. North America Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 107. North America Wheel Parameter Measurement System Sales Quantity by Country (2021-2026) & (Units)

Table 108. North America Wheel Parameter Measurement System Sales Quantity by Country (2027-2032) & (Units)

Table 109. North America Wheel Parameter Measurement System Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America Wheel Parameter Measurement System Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 112. Europe Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 113. Europe Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 114. Europe Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 115. Europe Wheel Parameter Measurement System Sales Quantity by Country

(2021-2026) & (Units)

Table 116. Europe Wheel Parameter Measurement System Sales Quantity by Country (2027-2032) & (Units)

Table 117. Europe Wheel Parameter Measurement System Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Europe Wheel Parameter Measurement System Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 120. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 121. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 122. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 123. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Region (2021-2026) & (Units)

Table 124. Asia-Pacific Wheel Parameter Measurement System Sales Quantity by Region (2027-2032) & (Units)

Table 125. Asia-Pacific Wheel Parameter Measurement System Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific Wheel Parameter Measurement System Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 128. South America Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 129. South America Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 130. South America Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 131. South America Wheel Parameter Measurement System Sales Quantity by Country (2021-2026) & (Units)

Table 132. South America Wheel Parameter Measurement System Sales Quantity by Country (2027-2032) & (Units)

Table 133. South America Wheel Parameter Measurement System Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America Wheel Parameter Measurement System Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Type (2021-2026) & (Units)

Table 136. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Type (2027-2032) & (Units)

Table 137. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Application (2021-2026) & (Units)

Table 138. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Application (2027-2032) & (Units)

Table 139. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Country (2021-2026) & (Units)

Table 140. Middle East & Africa Wheel Parameter Measurement System Sales Quantity by Country (2027-2032) & (Units)

Table 141. Middle East & Africa Wheel Parameter Measurement System Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa Wheel Parameter Measurement System Consumption Value by Country (2027-2032) & (USD Million)

Table 143. Wheel Parameter Measurement System Raw Material

Table 144. Key Manufacturers of Wheel Parameter Measurement System Raw Materials

Table 145. Wheel Parameter Measurement System Typical Distributors

Table 146. Wheel Parameter Measurement System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Wheel Parameter Measurement System Picture
- Figure 2. Global Wheel Parameter Measurement System Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Wheel Parameter Measurement System Revenue Market Share by Type in 2025
- Figure 4. Laser Displacement Sensing Measurement Examples
- Figure 5. Line Laser Profile Scanning Examples
- Figure 6. Image Vision Measurement Examples
- Figure 7. Others Examples
- Figure 8. Global Wheel Parameter Measurement System Revenue by Measurement Parameters, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Wheel Parameter Measurement System Revenue Market Share by Measurement Parameters in 2025
- Figure 10. Wheel Diameter Examples
- Figure 11. Flange Parameters Examples
- Figure 12. Tread Parameters Examples
- Figure 13. Others Examples
- Figure 14. Global Wheel Parameter Measurement System Revenue by Accuracy, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global Wheel Parameter Measurement System Revenue Market Share by Accuracy in 2025
- Figure 16. Accuracy: $\pm 0.03\text{mm}$ Examples
- Figure 17. Accuracy: $\pm 0.02\text{mm}$ Examples
- Figure 18. Others Examples
- Figure 19. Global Wheel Parameter Measurement System Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 20. Global Wheel Parameter Measurement System Revenue Market Share by Application in 2025
- Figure 21. Rail Transit Vehicles Examples
- Figure 22. Automobile Manufacturing Examples
- Figure 23. Heavy Machinery Examples
- Figure 24. Others Examples
- Figure 25. Global Wheel Parameter Measurement System Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 26. Global Wheel Parameter Measurement System Consumption Value and

Forecast (2021-2032) & (USD Million)

Figure 27. Global Wheel Parameter Measurement System Sales Quantity (2021-2032) & (Units)

Figure 28. Global Wheel Parameter Measurement System Price (2021-2032) & (US\$/Unit)

Figure 29. Global Wheel Parameter Measurement System Sales Quantity Market Share by Manufacturer in 2025

Figure 30. Global Wheel Parameter Measurement System Revenue Market Share by Manufacturer in 2025

Figure 31. Producer Shipments of Wheel Parameter Measurement System by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 32. Top 3 Wheel Parameter Measurement System Manufacturer (Revenue) Market Share in 2025

Figure 33. Top 6 Wheel Parameter Measurement System Manufacturer (Revenue) Market Share in 2025

Figure 34. Global Wheel Parameter Measurement System Sales Quantity Market Share by Region (2021-2032)

Figure 35. Global Wheel Parameter Measurement System Consumption Value Market Share by Region (2021-2032)

Figure 36. North America Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 37. Europe Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 38. Asia-Pacific Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 39. South America Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 40. Middle East & Africa Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 41. Global Wheel Parameter Measurement System Sales Quantity Market Share by Type (2021-2032)

Figure 42. Global Wheel Parameter Measurement System Consumption Value Market Share by Type (2021-2032)

Figure 43. Global Wheel Parameter Measurement System Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. Global Wheel Parameter Measurement System Sales Quantity Market Share by Application (2021-2032)

Figure 45. Global Wheel Parameter Measurement System Revenue Market Share by Application (2021-2032)

Figure 46. Global Wheel Parameter Measurement System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 47. North America Wheel Parameter Measurement System Sales Quantity Market Share by Type (2021-2032)

Figure 48. North America Wheel Parameter Measurement System Sales Quantity Market Share by Application (2021-2032)

Figure 49. North America Wheel Parameter Measurement System Sales Quantity Market Share by Country (2021-2032)

Figure 50. North America Wheel Parameter Measurement System Consumption Value Market Share by Country (2021-2032)

Figure 51. United States Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 52. Canada Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 53. Mexico Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 54. Europe Wheel Parameter Measurement System Sales Quantity Market Share by Type (2021-2032)

Figure 55. Europe Wheel Parameter Measurement System Sales Quantity Market Share by Application (2021-2032)

Figure 56. Europe Wheel Parameter Measurement System Sales Quantity Market Share by Country (2021-2032)

Figure 57. Europe Wheel Parameter Measurement System Consumption Value Market Share by Country (2021-2032)

Figure 58. Germany Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 59. France Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 60. United Kingdom Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 61. Russia Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 62. Italy Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 63. Asia-Pacific Wheel Parameter Measurement System Sales Quantity Market Share by Type (2021-2032)

Figure 64. Asia-Pacific Wheel Parameter Measurement System Sales Quantity Market Share by Application (2021-2032)

Figure 65. Asia-Pacific Wheel Parameter Measurement System Sales Quantity Market

Share by Region (2021-2032)

Figure 66. Asia-Pacific Wheel Parameter Measurement System Consumption Value

Market Share by Region (2021-2032)

Figure 67. China Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 68. Japan Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 69. South Korea Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 70. India Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 71. Southeast Asia Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 72. Australia Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 73. South America Wheel Parameter Measurement System Sales Quantity

Market Share by Type (2021-2032)

Figure 74. South America Wheel Parameter Measurement System Sales Quantity

Market Share by Application (2021-2032)

Figure 75. South America Wheel Parameter Measurement System Sales Quantity

Market Share by Country (2021-2032)

Figure 76. South America Wheel Parameter Measurement System Consumption Value

Market Share by Country (2021-2032)

Figure 77. Brazil Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 78. Argentina Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 79. Middle East & Africa Wheel Parameter Measurement System Sales Quantity

Market Share by Type (2021-2032)

Figure 80. Middle East & Africa Wheel Parameter Measurement System Sales Quantity

Market Share by Application (2021-2032)

Figure 81. Middle East & Africa Wheel Parameter Measurement System Sales Quantity

Market Share by Country (2021-2032)

Figure 82. Middle East & Africa Wheel Parameter Measurement System Consumption

Value Market Share by Country (2021-2032)

Figure 83. Turkey Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 84. Egypt Wheel Parameter Measurement System Consumption Value

(2021-2032) & (USD Million)

Figure 85. Saudi Arabia Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 86. South Africa Wheel Parameter Measurement System Consumption Value (2021-2032) & (USD Million)

Figure 87. Wheel Parameter Measurement System Market Drivers

Figure 88. Wheel Parameter Measurement System Market Restraints

Figure 89. Wheel Parameter Measurement System Market Trends

Figure 90. Porters Five Forces Analysis

Figure 91. Manufacturing Cost Structure Analysis of Wheel Parameter Measurement System in 2025

Figure 92. Manufacturing Process Analysis of Wheel Parameter Measurement System

Figure 93. Wheel Parameter Measurement System Industrial Chain

Figure 94. Sales Channel: Direct to End-User vs Distributors

Figure 95. Direct Channel Pros & Cons

Figure 96. Indirect Channel Pros & Cons

Figure 97. Methodology

Figure 98. Research Process and Data Source

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