

Global Wheel Parameter Measurement System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wheel Parameter Measurement System market size is expected to reach \$ 8199 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

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 studies the global Wheel Parameter Measurement System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wheel Parameter Measurement System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wheel Parameter Measurement System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Wheel Parameter Measurement System total production and demand, 2021-2032, (Units)

Global Wheel Parameter Measurement System total production value, 2021-2032, (USD Million)

Global Wheel Parameter Measurement System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Wheel Parameter Measurement System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Wheel Parameter Measurement System domestic production, consumption, key domestic manufacturers and share

Global Wheel Parameter Measurement System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Wheel Parameter Measurement System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Wheel Parameter Measurement System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Wheel Parameter Measurement System market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wheel Parameter Measurement System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Wheel Parameter Measurement System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Wheel Parameter Measurement System Market, Segmentation by Type:

Laser Displacement Sensing Measurement

Line Laser Profile Scanning

Image Vision Measurement

Others

Global Wheel Parameter Measurement System Market, Segmentation by Measurement Parameters:

Wheel Diameter

Flange Parameters

Tread Parameters

Others

Global Wheel Parameter Measurement System Market, Segmentation by Accuracy:

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

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

Others

Global Wheel Parameter Measurement System Market, Segmentation by Application:

Rail Transit Vehicles

Automobile Manufacturing

Heavy Machinery

Others

Companies Profiled:

MERMEC GROUP

Bulox Equipment

Kubler

Riftek

GRAW Sp

Dr. Wehrhahn

Hexagon

Wabtec

ApnaTech

DURR GROUP

Kistler

Shinyei Technology

Keyence

DINGHAN

Key Questions Answered:

1. How big is the global Wheel Parameter Measurement System market?
2. What is the demand of the global Wheel Parameter Measurement System market?
3. What is the year over year growth of the global Wheel Parameter Measurement System market?
4. What is the production and production value of the global Wheel Parameter

Measurement System market?

5. Who are the key producers in the global Wheel Parameter Measurement System market?

6. What are the growth factors driving the market demand?

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