

Global Torque Speed Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Torque Speed Sensor market size is expected to reach \$ 1575 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

A torque-speed sensor is an industrial measurement component designed to simultaneously measure parameters such as torque, rotational speed, and power on a rotating shaft. Typically, it consists of an elastic shaft body, strain gauges or magneto-elastic sensing elements, signal conditioning circuitry, wireless or non-contact transmission modules, a speed measurement mechanism, bearing supports, and an outer housing. These sensors find application in diverse scenarios, including motor testing, engine test benches, gearbox inspection, pump and valve testing, wind power transmission systems, automotive powertrains, and industrial equipment condition monitoring. According to estimates, global sales volume is projected to reach approximately 950,000 units by 2025, with an average unit price of around \$980. Furthermore, the capacity utilization rate is expected to be approximately 82%, with a gross profit margin of about 38%. Upstream and downstream enterprises involved in this sector primarily span fields such as strain gauges, elastic alloy materials, precision bearings, encoders, magneto-electric sensors, signal processing chips, industrial connectors, data acquisition systems, motor manufacturing, automotive testing equipment, power machinery, industrial automation, aerospace, energy equipment, and scientific research and testing platforms. The product's cost structure is primarily distributed as follows: sensitive elements and the elastic shaft body account for 26% of costs; signal conditioning and transmission modules account for 22%; speed measurement modules and encoding units account for 14%; precision machining and assembly account for 18%; calibration, testing, and quality control account for 12%; and R&D, design, and market services... This segment accounts for 8% of the market composition. On the demand side, requirements span motor efficiency testing,

automotive powertrain testing, reducer performance verification, pump, valve, and fan testing, industrial equipment torque monitoring, wind power drivetrain condition monitoring, robotic joint testing, and laboratory-based teaching and research. The downstream client base includes motor manufacturers, automotive OEMs, auto parts suppliers, test bench equipment manufacturers, industrial automation firms, reducer manufacturers, pump and valve companies, wind power equipment suppliers, aerospace entities, university laboratories, and research institutes. In terms of market opportunities, policy-driven growth stems from increased demand for measurement equipment resulting from smart manufacturing initiatives, upgrades to industrial machine tools, the expansion of testing capabilities for new energy vehicles, the promotion of energy-efficient motors, and the localization of industrial equipment. Technological innovation serves as another key driver, propelled by advancements in non-contact signal transmission, high-precision strain measurement, high-speed dynamic calibration, wide-temperature compensation algorithms, digital interfaces, and online condition monitoring technologies. Furthermore, evolving customer expectations—manifested in a growing demand for higher measurement accuracy, wider rotational speed ranges, enhanced anti-interference capabilities, greater long-term operational stability, more convenient data access, and lower maintenance costs—collectively drive the development of torque and speed sensors toward greater precision, digitalization, wide-temperature adaptability, miniaturization, and intelligent diagnostic capabilities.

Torque-speed sensors serve as core measurement components in power testing and the condition monitoring of rotating machinery. Market demand for these sensors is closely tied to advancements in new energy vehicles, motor systems, industrial automation, wind power equipment, aerospace, and high-end experimental testing platforms. As the manufacturing sector places increasing emphasis on energy efficiency, reliability, and process data, torque-speed sensors are evolving beyond their traditional role as mere standalone measurement elements in test-bench environments; they are gradually becoming critical data gateways within systems for equipment R&D, quality validation, production line inspection, and online monitoring. The growth of new energy vehicles and high-efficiency motors is driving increased demand for motor test benches, gearbox testing, and powertrain validation. Concurrently, industrial automation and smart manufacturing initiatives require a growing number of rotating devices to possess real-time load and power monitoring capabilities, thereby expanding the scope of sensor deployment scenarios. Future competitive landscapes will center on key performance metrics such as measurement accuracy, dynamic response, maximum rotational speed, temperature stability, electromagnetic interference immunity, long-term drift control, and digital communication compatibility. While foreign enterprises currently

retain advantages in high-precision capabilities, reliability validation, and calibration systems, domestic firms are accelerating their market penetration—and gradually displacing foreign competitors—by leveraging cost advantages, localized service support, customization capabilities, and rapid responsiveness to specific industrial application scenarios. Overall, the torque-speed sensor market is poised for robust growth over the coming years. Significant growth potential exists particularly within the fields of new energy vehicle testing, predictive maintenance for industrial equipment, drivetrain monitoring in wind power systems, and the R&D of high-end machinery. Manufacturers capable of simultaneously mastering the design of sensing elements, precision machining, signal processing algorithms, and system calibration techniques are best positioned to secure long-term competitive advantages.

This report studies the global Torque Speed Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Torque Speed Sensor 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 Torque Speed Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Torque Speed Sensor total production and demand, 2021-2032, (Units)

Global Torque Speed Sensor total production value, 2021-2032, (USD Million)

Global Torque Speed Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Torque Speed Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Torque Speed Sensor domestic production, consumption, key domestic manufacturers and share

Global Torque Speed Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Torque Speed Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Torque Speed Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Torque Speed Sensor 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 TE Connectivity (IE), Honeywell (US), TDK (JP), Futek (US), KTR (DE), Lorenz Messtechnik (DE), burster pr?zisionsmesstechnik (DE), Beijing Xinyuhan Measurement & CT (CN), Jiangsu Lanmec (CN), NanTong Yuanchen Measurement Control Equipment (CN), 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 Torque Speed Sensor 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 Torque Speed Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Torque Speed Sensor Market, Segmentation by Type:

Below 0.1%F.S

0.1%-0.2%F.S

Above 0.2%F.S

Global Torque Speed Sensor Market, Segmentation by Maximum Rated Speed:

?2000r/min

2000-4000r/min

4000-6000r/min

?6000r/min

Global Torque Speed Sensor Market, Segmentation by Temperature Range:

Conventional Type

Wide Temperature Type

Global Torque Speed Sensor Market, Segmentation by Application:

Mechanical and Robotics

Automotive

Ship

Chemical Industry

Energy

Other

Companies Profiled:

TE Connectivity (IE)

Honeywell (US)

TDK (JP)

Futek (US)

KTR (DE)

Lorenz Messtechnik (DE)

burster pr?zisionsmesstechnik (DE)

Beijing Xinyuhan Measurement & CT (CN)

Jiangsu Lanmec (CN)

NanTong Yuanchen Measurement Control Equipment (CN)

Forsentek (CN)

Changzhou Right Measurement and Control System (CN)

Sichuan Chengbang Haoran Measurement and Control Technology (CN)

Hunan Xiangyi Power Testing Instrument (CN)

Key Questions Answered:

1. How big is the global Torque Speed Sensor market?
2. What is the demand of the global Torque Speed Sensor market?
3. What is the year over year growth of the global Torque Speed Sensor market?
4. What is the production and production value of the global Torque Speed Sensor

market?

5. Who are the key producers in the global Torque Speed Sensor market?

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

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