

# **Torque Sensor Market – Global Industry Size, Share, Trends, Opportunity, and Forecast By Type (Rotary Torque Sensor, Reaction Torque Sensor), By Technology (SAW, Optical, Strain Gauge, Magnetoelastic), By Mechanical Configuration (Shaft Style, Flange Style), By Application (Aerospace & Defense, Industrial, Automotive & Transportation, Test & Measurement, Medical & Healthcare, Others), By Region, Competition, 2018-2028**

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## **Abstracts**

The global torque sensor market is anticipated to achieve a projected market size of USD 7.72 billion by the conclusion of 2022, with a compound annual growth rate (CAGR) of 6.21% expected throughout the forecast period. This global torque sensor market is characterized by its pivotal role in the measurement and monitoring of rotational force or torque applied to diverse mechanical systems. Torque sensors serve as vital components in industries including automotive, manufacturing, aerospace, and robotics, facilitating precise and real-time torque measurement to enhance performance, safety, and operational efficiency. The market's growth is primarily fueled by the escalating demand for advanced torque measurement solutions, driven by industries' relentless pursuit of automation, process optimization, and stringent quality control. With continuous technological advancements, torque sensors continue to evolve, incorporating innovations in sensor design, wireless connectivity, and seamless integration with Internet of Things (IoT) platforms. While challenges like calibration and environmental factors persist, the global torque sensor market stands poised for expansion due to its indispensable role in enabling accurate and dependable torque measurement across a vast spectrum of applications.

## Key Market Drivers

### The Growth of Industry 4.0 and the Industrial Internet of Things (IIoT)

The growth of Industry 4.0 and the Industrial Internet of Things (IIoT) is significantly driving the global torque sensor market by revolutionizing the way industries approach manufacturing, automation, and data-driven decision-making. Industry 4.0 represents the integration of digital technologies into industrial processes, leading to smart factories and interconnected systems that optimize operations. Torque sensors, as integral components of machinery and equipment, play a pivotal role in this transformation. The IIoT enables real-time data collection, analysis, and communication between machines, systems, and operators. Torque sensors integrated into these interconnected environments provide critical insights into equipment performance, operational efficiency, and maintenance needs. By facilitating predictive maintenance, torque sensors help industries avoid unplanned downtime, reduce operational costs, and enhance overall productivity.

Moreover, torque sensors contribute to the accuracy and precision required for complex manufacturing processes in smart factories. They enable continuous monitoring of torque levels during assembly, ensuring quality control and adherence to tight specifications. As the adoption of Industry 4.0 and IIoT continues to accelerate across sectors such as automotive, manufacturing, aerospace, and more, torque sensors are essential enablers of this transformation. Their ability to provide real-time data for informed decision-making, predictive maintenance, and process optimization positions them as integral components in the journey towards smarter, more efficient, and connected industrial ecosystems.

### The Rapid Expansion of Automation and Robotics Across Various Industries

The rapid expansion of automation and robotics across various industries is playing a pivotal role in driving the global torque sensor market. As industries increasingly adopt automation to streamline processes, improve efficiency, and enhance productivity, the demand for precise torque measurement becomes essential. Torque sensors serve as critical components in automated systems, ensuring accurate monitoring and control of rotational forces. In sectors like manufacturing, automotive, aerospace, and even healthcare, robots and automated machinery rely on torque sensors to perform tasks with precision. Whether it's assembling components, tightening bolts, or performing delicate procedures, torque sensors enable robots to execute tasks accurately and

consistently. These sensors contribute to maintaining product quality, reducing errors, and minimizing the need for human intervention.

Furthermore, as industries explore collaborative robots (cobots) that work alongside humans, torque sensors play a crucial role in ensuring safe interactions. Torque sensors provide real-time feedback to robots, allowing them to adjust their movements based on the force they encounter when collaborating with human workers. The demand for torque sensors is thus closely intertwined with the growth of automation and robotics. As industries continue to embrace technological advancements and pursue greater levels of automation, the torque sensor market is set to expand significantly, providing the necessary precision and control required for the efficient operation of automated systems across a wide array of industries.

### The Need for Precision, Safety, and Operational Optimization

The global torque sensor market is driven by the fundamental need for precision, safety, and operational optimization across industries. Torque sensors play a critical role in ensuring precise control and measurement of rotational forces, a necessity in applications where accuracy directly impacts product quality and performance. They are instrumental in preventing over-tightening or under-tightening of components, which can lead to failures or inefficiencies. Moreover, torque sensors contribute to enhancing workplace safety by providing real-time feedback to automated systems, ensuring they operate within safe torque limits. This is particularly relevant in collaborative environments where humans and robots work together. Additionally, torque sensors enable operational optimization by offering insights into equipment health, enabling predictive maintenance, and supporting data-driven decision-making. As industries emphasize precision, safety, and efficiency in their processes, the torque sensor market continues to grow as a crucial enabler of these key objectives.

### The Continual Advancements in Sensor Technology

The global torque sensor market is experiencing robust growth due to the continual advancements in sensor technology. As sensor technologies evolve, torque sensors are becoming more accurate, reliable, and versatile, catering to a wide range of applications across industries. Innovations in materials, signal processing, and data analytics have enabled the development of sensors that can provide precise and real-time measurements of rotational forces. Additionally, the integration of wireless and IoT capabilities into torque sensors allows for remote monitoring, predictive maintenance, and seamless integration into smart manufacturing environments. These advancements

not only improve the accuracy and efficiency of torque measurement but also enable industries to optimize processes, enhance product quality, and reduce downtime. The rapid pace of sensor technology innovation is thus a driving force propelling the global torque sensor market forward.

## Key Market Challenges

### Concern related to Integrating Torque Sensors

Integrating torque sensors can pose challenges that impact the global torque sensor market. While these sensors offer valuable insights into rotational forces, their successful integration into existing systems can be complex. Adapting torque sensors to various machinery and applications requires careful consideration of mechanical interfaces, signal compatibility, and data integration. Additionally, retrofitting existing systems with torque sensors can be time-consuming and may require modifications that disrupt operations. Ensuring accurate and reliable measurements demands precision in installation and calibration, which can be demanding for industries lacking expertise in torque sensor technology. Addressing these integration concerns requires collaboration between sensor manufacturers and end-users, as well as the development of standardized interfaces and plug-and-play solutions. Overcoming these challenges is crucial to unlocking the full potential of torque sensors and fueling their broader adoption across industries.

### High Initial Costs

The high initial costs associated with torque sensors are a significant hurdle hampering the global torque sensor market's growth. The development, manufacturing, and calibration of advanced torque sensors involves sophisticated technology and precision engineering, contributing to elevated upfront expenses. Industries considering torque sensor adoption must allocate substantial budgets to accommodate these costs, which can deter some potential customers, particularly in price-sensitive markets. Moreover, the investment in torque sensors might also require additional expenditures for training personnel, integrating sensors into existing systems, and maintaining calibration and accuracy over time. As industries seek to optimize their operations and enhance efficiency, addressing the high initial costs of torque sensors becomes crucial for wider market adoption. Efforts to develop cost-effective manufacturing processes, scalable solutions, and more competitive pricing strategies are essential to overcome this challenge and foster broader acceptance of torque sensors across various sectors.

## Key Market Trends

### The Rise of Electric and Hybrid Vehicles

The rise of electric and hybrid vehicles is significantly propelling the global torque sensor market. As the automotive industry shifts towards more sustainable and energy-efficient transportation solutions, torque sensors play a crucial role in optimizing the performance of electric and hybrid powertrains. These sensors accurately measure the torque generated by electric motors, helping in controlling acceleration, braking, and overall drivetrain efficiency. With electric vehicles' instant torque delivery, precise measurement becomes essential for maintaining smooth and controlled operations. Torque sensors also contribute to regenerative braking systems, where they aid in capturing and converting kinetic energy back into the battery. As governments and consumers prioritize eco-friendly mobility options, the demand for electric and hybrid vehicles continues to grow. Consequently, the torque sensor market is witnessing increased adoption, as these sensors enable efficient power distribution, enhance vehicle dynamics, and contribute to the overall success of electric and hybrid vehicle platforms.

### The Growing Demand for Non-Contact Sensors

The global torque sensor market is experiencing a notable boost from the growing demand for non-contact sensors. Non-contact torque sensors, which utilize technologies like magnetostrictive or optical principles, are gaining traction due to their numerous advantages. These sensors offer contactless measurements, eliminating friction and wear associated with traditional contact-based sensors. As a result, they provide higher accuracy, reliability, and durability over extended periods of operation. Non-contact torque sensors are particularly beneficial in applications where minimizing interference and maintaining pristine working conditions are essential, such as in cleanroom environments or industries dealing with delicate materials. Additionally, these sensors can withstand harsh conditions, making them suitable for various industries, including automotive, aerospace, and manufacturing. As the market seeks more precise and robust torque measurement solutions, the demand for non-contact sensors continues to rise, driving the global torque sensor market's growth.

## Segmental Insights

### Mechanical Configuration Insights

Based on mechanical configuration, the shaft style assert itself as the predominant segment, showcasing unwavering dominance projected over the entire forecast period. The shaft style torque sensors are characterized by their versatility and adaptability, making them suitable for a wide range of applications across industries. Their design allows for easy integration into various systems, offering precise torque measurement without requiring major modifications. This flexibility and efficiency contribute to their continued prominence in the market. As industries continue to demand accurate and reliable torque measurement solutions, the shaft style configuration is expected to maintain its unwavering influence and play a pivotal role in shaping the trajectory of the global torque sensor market.

### Application Insights

Based on application, the automotive & transportation segment emerges as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. This sector's dominance stems from the critical role that torque sensors play in ensuring the precision and efficiency of various automotive systems. From powertrain development and electric vehicle drivetrains to braking and steering systems, torque sensors are indispensable for optimizing performance, safety, and energy consumption. As the automotive industry continually evolves to meet efficiency and sustainability demands, torque sensors are instrumental in achieving these goals. With the ongoing shift towards electric and hybrid vehicles, as well as the integration of advanced driver-assistance systems, the automotive & transportation segment is set to maintain its commanding position, shaping the trajectory of the global torque sensor market throughout the forecast period.

### Regional Insights

North America emerges as a prominent and influential stronghold within the global torque sensor market, propelled by a confluence of strategic factors that collectively underscore its pivotal role in shaping the industry's growth trajectory. The region's advanced technological capabilities, robust industrial landscape, and commitment to innovation position it at the forefront of torque sensor adoption. With industries across North America emphasizing efficiency, accuracy, and automation, torque sensors find extensive applications. The presence of key market players, research institutions, and a culture of continuous advancement further solidify the region's influence. As North America continues to champion precision and performance across various sectors, its strategic significance in the global torque sensor market remains pivotal in directing the industry's trajectory towards growth and advancement.



## Key Market Players

Applied Measurements Ltd.

ABB Ltd

Crane Electronics Ltd.

TE Connectivity Ltd

HBK Benelux (Spectris PLC)

Norbar Torque Tools Ltd.

Honeywell International

Teledyne Technologies, Inc.

Datum Electronics Ltd (Indutrade AB)

Infineon Technologies AG

## Report Scope:

In this report, the global Torque Sensor market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Torque Sensor Market, By Type:

Rotary Torque Sensor

Reaction Torque Sensor

Global Torque Sensor Market, By Technology:

SAW

Optical

Strain Gauge

Magnetoelastic

Global Torque Sensor Market, By Mechanical Configuration:

Shaft Style

Flange Style

Global Torque Sensor Market, By End User:

Aerospace & Defense

Industrial

Automotive & Transportation

Test & Measurement

Medical & Healthcare

Others

Global Torque Sensor Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific



## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Torque Sensor Market.

## Available Customizations:

Global Torque Sensor market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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