

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

<https://marketpublishers.com/r/G2A4F1F73323EN.html>

Date: June 2026

Pages: 156

Price: US\$ 4,480.00 (Single User License)

ID: G2A4F1F73323EN

Abstracts

The global Non-Contact Torque Sensor market size is expected to reach \$ 6328 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

A Non-Contact Torque Sensor is a torque-measurement device used in rotating shafts, drivetrains, steering systems, electric motors, gear reducers, and robotic joints. Its defining feature is that no sliding electrical contact is used between the rotating member and the stationary readout side, or that shaft torsion is sensed remotely through magnetic, acoustic, or optical methods. This reduces wear, maintenance, and signal noise. Typical product forms include shaft-to-shaft cylindrical units, short flange-type units, hollow-shaft ring structures, pedestal-mounted measurement modules, and steering-column sensor modules. Internally, such products usually consist of a metallic elastic element or the measured shaft itself, rotor and stator sections, a sensing unit based on strain gauges, magnetic sensing, optics, or SAW elements, excitation and signal-conditioning electronics, temperature-compensation circuitry, an encoder, communication interfaces, and a protective housing. By principle, the product family can be divided into strain-gauge-plus-wireless-telemetry types, magnetoelastic or magnetostrictive types, Hall-effect or TMR magnetic-sensing types, inductive types, passive wireless SAW types, and optical types. Their basic operation is to detect minute twist angle, surface strain, changes in permeability or magnetic field, SAW frequency shifts, or optical phase and speckle displacement, and then convert these into voltage, frequency, CAN, or industrial-bus outputs. These sensors are widely used in automotive EPS and powertrain systems, R&D test benches, end-of-line production testing, wind power, industrial machinery, medical devices, collaborative robots, and humanoid robots.

The opportunity in Non-Contact Torque Sensors lies not merely in being an upgraded form of traditional torque measurement, but in their transition from laboratory and premium test applications into broader powertrain, intelligent equipment, and closed-loop control architectures, where they are becoming a strategically important sensing building block in advanced manufacturing. As vehicle electrification, industrial automation, collaborative robotics, micromobility, and high-end test platforms continue to evolve, the market is demanding torque measurement solutions that can operate at higher speeds, with greater reliability, lower maintenance, and stronger suitability for continuous online operation. Non-contact solutions are well aligned with this transition. Compared with contact-based transmission structures, they are better positioned to deliver value in high-speed rotation, long-duty cycles, harsh operating conditions, and digital system integration. For OEMs, core component suppliers, automation integrators, and testing service providers, these products are no longer just measuring devices; they are becoming an important lever for improving control accuracy, validation efficiency, system safety, and overall product value. The most compelling growth logic in this space will therefore come not from standalone hardware sales alone, but from system-level offerings built around the sensor body, signal conditioning, bus communication, calibration services, test-platform adaptation, and industry-specific solutions. Public market research consistently identifies automotive, industrial robotics, and automated testing as major pillars of torque sensing demand.

That said, from an investment and market-entry perspective, non-contact torque sensors are not a low-barrier or lightly qualified commodity segment. They place demanding requirements on a company's R&D depth, process discipline, materials understanding, metrology and calibration capability, and industry know-how. The challenge is not simply cost; it is the downstream customer's expectation for long-term stability, thermal drift control, dynamic response, repeatability, noise immunity, interface compatibility, and certification readiness. In many applications, customers are not really buying a sensor as an isolated part, but a complete solution capable of delivering trustworthy data under real operating conditions while fitting seamlessly into a control architecture. This means that even a technically elegant point solution may fail to produce durable competitiveness if the supplier lacks application insight, customization capability, or global delivery capacity. At the same time, multiple technology routes coexist in this field, and market definitions are not perfectly harmonized. This signals both innovation potential and analytical risk, requiring investors to watch carefully for concept substitution, misjudged technology trajectories, and insufficient demand validation. Public market reports also show meaningful differences in market-sizing methodologies for torque sensors, underscoring that category boundaries and counting methods are not fully standardized.

From the standpoint of downstream demand, this product is moving from being a testing instrument toward becoming part of the infrastructure of control and quality. On one side, electric vehicles, e-drive systems, steering systems, gear reduction mechanisms, and intelligent chassis platforms are becoming more dependent on precise torque sensing, pushing adoption beyond R&D validation into production deployment and online monitoring. On the other side, robotics, collaborative machinery, precision assembly, medical devices, and automated production lines increasingly require data-sensing nodes that are stable over time, low-wear, and easy to integrate, in order to support higher levels of flexible manufacturing and safety control. In the coming years, customers will care less about isolated measurement accuracy alone and more about the broader capability package: high-speed performance, long-term reliability, digital interfaces, system compatibility, ease of installation, traceable calibration, and coordination with software and control algorithms. Suppliers that can turn their products into platformized, modular, and industry-adapted offerings will be in the strongest position to enter long-term global supply chains. Public research summaries broadly identify automotive, industrial automation, robotics, and smart manufacturing as the principal landing zones for torque sensing demand, which suggests that the real opportunity in non-contact torque sensors is shifting from component-level competition toward competition for scenario definition and system integration leadership.

This report studies the global Non-Contact Torque Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Non-Contact Torque Sensor total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global Non-Contact Torque 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 Binsfeld, burster, Datum, FUTEK, HBK, Honeywell, Interface, Kistler, KYOWA, Lorenz, 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 Non-Contact Torque Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Non-Contact Torque Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Contact Torque Sensor Market, Segmentation by Type:

Electromagnetic

Optical

Global Non-Contact Torque Sensor Market, Segmentation by Measurement Principle:

Strain-Gauge Based Non-Contact Torque Sensor

Magnetoelastic Torque Sensor

Magnetostrictive Torque Sensor

Surface Acoustic Wave Torque Sensor

Optical Torque Sensor

Capacitive Torque Sensor

Piezoelectric / Quartz Torque Sensor

Hybrid or Proprietary Principle Torque Sensor

Global Non-Contact Torque Sensor Market, Segmentation by Primary Structural Material:

Stainless Steel Torque Sensor

Alloy Steel Torque Sensor

Composite Torque Sensor

Global Non-Contact Torque Sensor Market, Segmentation by Mechanical Form Factor:

Shaft-to-Shaft Inline Torque Sensor

Flange-to-Flange Torque Sensor

Hollow-Shaft / Through-Bore Torque Sensor

Clamp-On / Collar-Mounted Torque Sensor

Tool-Holder / Spindle-Integrated Torque Sensor

Built-In OEM Embedded Torque Sensor

Bearingless Rotary Torque Sensor

Global Non-Contact Torque Sensor Market, Segmentation by Application:

Automobile

Aerospace

Others

Companies Profiled:

Binsfeld

burster

Datum

FUTEK

HBK

Honeywell

Interface

Kistler

KYOWA

Lorenz

MagCanica

Magtrol

MANNER Sensortelemetrie

Montronix

NCTE

Ono Sokki

PCB

Sensor Technology

Sensy

S. Himmelstein

Sushma

Key Questions Answered:

1. How big is the global Non-Contact Torque Sensor market?
2. What is the demand of the global Non-Contact Torque Sensor market?

3. What is the year over year growth of the global Non-Contact Torque Sensor market?
4. What is the production and production value of the global Non-Contact Torque Sensor market?
5. Who are the key producers in the global Non-Contact Torque Sensor market?
6. What are the growth factors driving the market demand?

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