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# Global Smart Torque Sensor 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 Smart Torque Sensor market size was valued at US$ 803 million in 2025 and is forecast to a readjusted size of US$ 1346 million by 2032 with a CAGR of 7.7% during review period.

In 2025, global Smart Torque Sensor production reached approximately 920 thousand units, with an average global market price of around USD 850 per unit.

The gross profit margin of major companies in the industry is between 35%–50%.

In 2025, the global production capacity of Smart Torque Sensor was approximately 1.2 million units.

Smart Torque Sensor refers to intelligent sensing devices used to measure torque and rotational force while providing digital signal processing, communication, and real-time monitoring capabilities. These sensors typically integrate strain gauges, magnetoelastic sensing elements, signal conditioning circuits, microprocessors, and communication interfaces to achieve accurate torque measurement and data transmission. They are widely used in industrial automation, robotics, automotive testing, electric powertrains, manufacturing equipment, and condition monitoring applications. The product scope includes rotary torque sensors, static torque sensors with digital interfaces, and wireless smart torque sensors, excluding conventional torque meters without integrated sensing and communication functions.

The industry chain of Smart Torque Sensor includes upstream sensing components, midstream sensor manufacturing, and downstream industrial applications. Upstream

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suppliers provide strain gauges, sensing elements, semiconductor chips, precision shafts, bearings, electronic components, and communication modules. Midstream manufacturers conduct sensor design, precision machining, sensing element integration, signal conditioning, calibration, software development, and performance testing. Downstream applications include industrial robot manufacturers, automotive companies, machine tool manufacturers, automation equipment companies, and industrial monitoring service providers requiring real-time torque measurement solutions.

## Report Scope

This report is a detailed and comprehensive analysis for global Smart Torque Sensor 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 Smart Torque Sensor market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Smart Torque Sensor market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Smart Torque Sensor 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 Smart Torque Sensor 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:

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

To assess the growth potential for Smart Torque Sensor

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 Smart Torque Sensor 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 HBK (Hottinger Brüel & Kjær), Kistler Group, FUTEK Advanced Sensor Technology, Inc., Sensor Technology Ltd., Datum Electronics Ltd., Magtrol, Inc., Transense Technologies plc, Honeywell International Inc., ATI Industrial Automation, Inc., Kyowa Electronic Instruments Co., Ltd., etc.

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

Smart Torque Sensor 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 Segmentation

### Market segment by Type

Strain Gauge Torque Sensor

Magnetoelastic Torque Sensor

SAW Torque Sensor

### Market segment by Measurement Type

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Rotary Torque Sensor

Static Torque Sensor

Reaction Torque Sensor

## Market segment by Torque Range

Low Torque Sensor (<10 N·m)

Medium Torque Sensor (10–1000 N·m)

High Torque Sensor (>1000 N·m)

## Market segment by Application

Industrial Machinery Manufacturers

Robotics Companies

Automotive Manufacturers

Other

## Major players covered

HBK (Hottinger Brüel & Kjær)

Kistler Group

FUTEK Advanced Sensor Technology, Inc.

Sensor Technology Ltd.

Datum Electronics Ltd.

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Magtrol, Inc.

Transense Technologies plc

Honeywell International Inc.

ATI Industrial Automation, Inc.

Kyowa Electronic Instruments Co., Ltd.

A&D Company, Limited

Onosokki Co., Ltd.

NCTE AG

Shenzhen Kunwei Technology Co., Ltd.

Hefei Stars-In Sensor Technology Co., Ltd.

Shenzhen LZCG Sensor Technology Co., Ltd.

Xiamen Lisheng Sensing Technology Co., Ltd.

Beijing Winge Technology Co., Ltd.

## 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

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Middle East & Africa)

## Chapter Outline

Chapter 1, to describe Smart Torque Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Torque Sensor, with price, sales quantity, revenue, and global market share of Smart Torque Sensor from 2021 to 2026.

Chapter 3, the Smart Torque Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Torque Sensor 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 Smart Torque Sensor 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 Smart Torque Sensor.

Chapter 14 and 15, to describe Smart Torque Sensor sales channel, distributors, customers, research findings and conclusion.

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