

Global Six-dimensional 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 Six-dimensional Torque Sensor market size was valued at US\$ 375 million in 2025 and is forecast to a readjusted size of US\$ 1859 million by 2032 with a CAGR of 25.3% during review period.

In 2025, global Six-dimensional Torque Sensors production reached approximately 92,607 Units, with an average global market price of around 3,933 USD per Unit.

Six-dimensional Torque Sensors are precision sensors capable of simultaneously detecting force components in three directions (Fx, Fy, Fz) and torque components in three directions (Mx, My, Mz) in three-dimensional space, achieving complete perception of force information in all six degrees of freedom. They feature high precision, low coupling, and high dynamic response, and are widely used in industrial automation, precision assembly, aerospace testing, and medical surgical robots. They play a crucial role, especially in humanoid robots, where they are often mounted on wrists, ankles, joint ends, and hand actuators. These sensors sense walking gait impacts, object grasping forces, and human-robot interaction collision forces, enabling stable balance control, flexible operation, and safety protection. They are the core sensing components for humanoid robots to achieve human-like movement, fine manipulation, and environmental adaptation. With the recent explosive growth of the humanoid robot industry, Six-dimensional Torque Sensors are poised for significant growth.

The upstream core components of Six-dimensional Torque Sensors mainly include elastomers, strain gauges, and chips. Typical raw material suppliers include VPG, HBM,

Huntsman, and BASF. Downstream applications are primarily in industrial robotic arms, humanoid robots, automotive, medical, and scientific research fields. Typical users include AgiBot, Unitree Robotics, Leju (Shenzhen) Robot Technology, Tesla, FANUC, KUKA, and ABB.

The single-line production capacity of Six-dimensional Torque Sensors varies significantly due to factors such as raw material supply, product calibration technology, and the degree of automation in the production line, typically ranging from several thousand to tens of thousands of units. The industry gross profit margin for Six-dimensional Torque Sensors is generally between 35% and 45%.

Originally from the aerospace industry, Six-dimensional Torque Sensors were used to measure the aerodynamic characteristics of aircraft, including lift, drag, lateral forces, pitch moment, yaw moment, and roll moment. Because orthogonal forces and moments in three directions need to be measured simultaneously, Six-dimensional Torque Sensors were developed. As the comprehensive mechanical measurement advantages of Six-dimensional Torque Sensors became widely known, and with rapid technological advancements, their applications have gradually expanded to include detection, prevention, control, teaching, measurement, and protection.

Since Elon Musk proposed the concept of humanoid robots in 2021, the Six-dimensional Torque Sensor market has experienced rapid growth. According to our latest research data, global sales of Six-dimensional Torque Sensors are projected to reach nearly 90,000 units by 2025, with approximately 44,000 units sold in China, representing a year-on-year growth of over 107%. The global market for Six-dimensional Torque Sensors is projected to reach 1.32 million units by 2032, with China accounting for 710,000 units, representing a CAGR of 46% from 2026 to 2032. Currently, the high-end market for Six-dimensional Torque Sensors is dominated by international brands (ATI Industrial Automation, Epson, etc.), but their market share has been declining in recent years. Major Chinese manufacturers are represented by Yuli Instruments, Kunwei Technology, and Xinjingcheng, whose global market share continues to increase. Comparing product differences, Chinese manufacturers' products are largely on par with international manufacturers in terms of accuracy, but gaps remain in sensitivity, crosstalk, overload resistance, and inter-dimensional coupling error. In terms of price, Chinese brands offer better value for money.

Based on different measurement principles, force sensors can be categorized into Strain Gauge Type, Piezoelectric/Capacitive Type, and others. Among all force sensors, Strain Gauge Type has the widest sales volume, accounting for over 80% of the total

Six-dimensional Torque Sensor market.

Six-dimensional Torque Sensors are widely used in the automotive industry for crash testing, wheel and seat component testing, as well as in aerospace, biomechanics, medical fields, scientific research, robotics, and industrial automation. In downstream applications, industrial automation (including traditional robots) accounts for the largest share of the market, but the humanoid robot industry is experiencing the fastest growth. According to our latest data, the global humanoid robot market is projected to grow at a CAGR of 58.1% from 2026 to 2032, while China's CAGR is even higher at 61%. In the long term, mass production of humanoid robots will be a major driver of growth for the Six-dimensional Torque Sensors market. Applications of Six-dimensional Torque Sensors in humanoid robots include force control, oscillation stabilization control, and safety control. Six-dimensional Torque Sensors can improve the precision and flexibility of humanoid robot hand operations and the stability of leg movement. Primarily installed at the end-effectors of wrists and ankles, they have become standard equipment in high-performance humanoid robots.

Currently, Six-dimensional Torque Sensors are the highest-dimensional force sensors. With their advantages of high precision, high sensitivity, high bandwidth, and high reliability, they can provide the most comprehensive force information and improve sensing accuracy. They play a vital role in many high-tech fields. In the future, with the continuous advancement of technology and the continuous expansion of downstream application areas, the Six-dimensional Torque Sensors market will usher in broad development prospects.

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

Global Six-dimensional 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 Six-dimensional 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 Six-dimensional 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:

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

- To assess the growth potential for Six-dimensional 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 Six-dimensional 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 ATI Industrial Automation, Schunk, Advanced Mechanical Technology, Sunrise Instruments (SRI), Epson, Link-touch (Beijing) Technology, Changzhou Kunwei Sensing Technology, Kistler, Robotiq, Shenzhen Xinjingcheng Sensing Technology, etc.

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

Market Segmentation

Six-dimensional 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 segment by Type

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Market segment by Measuring Range

Measuring Range: Below 100N

100 ? Measuring Range

500 ? Measuring Range ? 1000N

Measuring Range: Above 1000N

Market segment by Accuracy(%FS)

0.1

0.2

0.3

Others

Market segment by Application

Industrial Robots

Medical Robots

Automotive Field

Humanoid Robots

Others

Major players covered

ATI Industrial Automation

Schunk

Advanced Mechanical Technology

Sunrise Instruments (SRI)

Epson

Link-touch (Beijing) Technology

Changzhou Kunwei Sensing Technology

Kistler

Robotiq

Shenzhen Xinjingcheng Sensing Technology

ME-Me?systeme

Wacoh-Tech

Nordbo Robotics

Bota Systems

FUTEK

Robotous

Anhui Zhongke Midian Sensor

Changzhou Right Measurement and Control System

Aidin Robotics

FANUC

Sintokogio

OnRobot

Keli Sensing Ningbo Technology

Guangzhou Haozhi Industrial

Hypersen Technologies

Zhonghang Electronic Measuring Instruments

Nanjing Bio-inspired Intelligent Technology

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 Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

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

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

Chapter 4, the Six-dimensional 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 Six-dimensional 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 Six-dimensional Torque Sensor.

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

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