

Global Torque Sensor for Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6372A1F4CEBEN.html>

Date: June 2026

Pages: 208

Price: US\$ 3,480.00 (Single User License)

ID: G6372A1F4CEBEN

Abstracts

According to our (Global Info Research) latest study, the global Torque Sensor for Robot market size was valued at US\$ 7229 million in 2025 and is forecast to a readjusted size of US\$ 12870 million by 2032 with a CAGR of 8.7% during review period.

A Torque Sensor for Robot is a device that measures the magnitude of torque (rotational force) applied by a robot or robotic system. It is used to determine the magnitude of the force exerted when a robot's motors or actuators rotate. Torque sensors are typically placed between the robot's motors and the joints or limbs they control. It measures the torsional force applied to the joint and provides feedback to the robot's control system. From the perspective of force sensor sensing dimensions, robot joints require joint torque sensors, while end effectors (hands, feet) require six-dimensional torque sensors. In 2024, global production of Torque Sensors for Robots reached 22.10 million units. The average price of a Torque Sensor for Robot was \$291.91 per unit, the average price of a torque sensor was \$62.14 per unit, and the average price of a six-dimensional torque sensor was \$6181.6 per unit. Companies producing 100,000 units annually had a gross margin of approximately 26.50%.

Force sensors, acting as the 'nerve endings' of humanoid robots' perception and interaction, occupy a central position in the development of robotics technology. As a key medium for robots to accurately perceive external forces, force sensors can capture and quantify complex mechanical information such as pressure, tension, and torque generated when in contact with objects in real time, transforming the robot's 'touch' from an abstract concept into a stream of analyzable data. With the accelerated development of the humanoid robot industry, China's advantages in core component fields continue

to stand out. Six-dimensional force sensors and joint torque sensors have deeply penetrated the humanoid robot industry chain. Benefiting from the explosive growth of the humanoid robot industry in 2024, downstream core customers include leading humanoid robot companies such as Calcium Robotics, Xiaomi, ZQGame, Qianxun, UBTECH Robotics, Galaxy General, and Unitree Robotics, while also penetrating high-value-added fields such as new energy vehicles, medical care, and aviation.

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

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

Global Torque Sensor for Robot market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Torque Sensor for Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Torque Sensor for Robot

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 Torque Sensor for Robot 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, OnRobot, TE Connectivity, Sensodrive, XJCSENSOR, Robotiq, Epson, Nordbo Robotics, ME-Me?systeme, Wacoh-Tech, etc.

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

Market Segmentation

Torque Sensor for Robot 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

Resistance Strain Gauge

Capacitive

Inductive

Optoelectronic

Other

Market segment by Perception Dimension

1D Force Sensor

3D Force Sensor

6D Force Sensor

Other

Market segment by Location

End Effectors (Hands, Feet)

Other Joints

Market segment by Application

Industrial Robots

Service Robots

Major players covered

ATI Industrial Automation

OnRobot

TE Connectivity

Sensodrive

XJCSENSOR

Robotiq

Epson

Nordbo Robotics

ME-Me?systeme

Wacoh-Tech

Robotous

FUTEK

FANUC

Sintokogio

AL.Robot

Schunk

Advanced Mechanical Technology

Kistler

Bota Systems

Aidin Robotics

Changzhou Kunwei Sensing Technology Co., Ltd.

SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD.

Nanjing Bio-inspired Intelligent Technology Co., Ltd

Changzhou Right Measurement and control system Co.Ltd.

Shenzhen Ampron Technology Co.,Ltd.

Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD.

Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd.

Shenzhen Ligent Sensor Tech Co., Ltd.

Guangzhou Haozhi Industrial Co., LTD.

Sunrise Instruments

Keli Sensing Technology (Ningbo) Co., Ltd.

Hypersen Technology (Shenzhen) Co., Ltd.

Link Touch

Memsensing Microsystems

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 Torque Sensor for Robot product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Torque Sensor for Robot 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 Torque Sensor for Robot 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 Torque Sensor for Robot.

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