

Global Torque Sensor for Robot Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Torque Sensor for Robot competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. 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.

The global Torque Sensor for Robot market size was estimated at USD 6451.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Torque Sensor for Robot market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Torque Sensor for Robot market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Torque Sensor for Robot market.

Global Torque Sensor for Robot Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the

unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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

Market Segmentation (by Type)

Resistance Strain Gauge
Capacitive
Inductive
Optoelectronic
Other

Market Segmentation (by Application)

Industrial Robots
Service Robots

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Torque Sensor for Robot Market
Overview of the regional outlook of the Torque Sensor for Robot Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Torque Sensor for Robot Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Torque Sensor for Robot, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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