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Global Torque Sensor for Robot Market Growth 2026-2032

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Abstracts

The global Torque Sensor for Robot market size is predicted to grow from US$ 6873 million in 2025 to US$ 12610 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 2032.

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

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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.

LP Information, Inc. (LPI) ' newest research report, the ?Torque Sensor for Robot Industry Forecast? looks at past sales and reviews total world Torque Sensor for Robot sales in 2025, providing a comprehensive analysis by region and market sector of projected Torque Sensor for Robot sales for 2026 through 2032. With Torque Sensor for Robot sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Torque Sensor for Robot industry.

This Insight Report provides a comprehensive analysis of the global Torque Sensor for Robot landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Torque Sensor for Robot portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Torque Sensor for Robot market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Torque Sensor for Robot and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Torque Sensor for Robot.

This report presents a comprehensive overview, market shares, and growth opportunities of Torque Sensor for Robot market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Resistance Strain Gauge

Capacitive

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Inductive

Optoelectronic

Other

Segmentation by Perception Dimension:

1D Force Sensor

3D Force Sensor

6D Force Sensor

Other

Segmentation by Location:

End Effectors (Hands, Feet)

Other Joints

Segmentation by Application:

Industrial Robots

Service Robots

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ATI Industrial Automation

OnRobot

TE Connectivity

Sensodrive

XJCSENSOR

Robotiq

Epson

Nordbo Robotics

ME-Me?systeme

Wacoh-Tech

Robotous

FUTEK

FANUC

Sintokogio

AL.Robot

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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

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Torque Sensor for Robot market?

What factors are driving Torque Sensor for Robot market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Torque Sensor for Robot market opportunities vary by end market size?

How does Torque Sensor for Robot break out by Type, by Application?

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