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Global Joint Torque Sensors for Humanoid Robots Market Growth 2026-2032

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Abstracts

The global Joint Torque Sensors for Humanoid Robots market size is predicted to grow from US$ 23.28 million in 2025 to US$ 805 million in 2032; it is expected to grow at a CAGR of 59.5% from 2026 to 2032.

In 2025, global sales of joint torque sensors for humanoid robots were approximately 132.5 thousand units, with an average selling price of about USD 180 per unit, corresponding to a market size of approximately USD 23.8 million. Joint torque sensors for humanoid robots are high-precision torque measurement components installed or integrated in rotary joints, joint actuators, and harmonic or planetary reduction joint assemblies of humanoid robots. They are mainly used to directly detect axial joint torque, external load changes, collision contact, motion impedance, and force-control feedback, providing real-time sensing signals for compliant control, dynamic balance, joint protection, gait control, and safe human-robot interaction. These sensors are typically installed in joint actuators, reducer output sections, or rotary transmission units in the form of thin, annular, hollow, flange-mounted, or customized sensor modules, and measure torque changes on the joint rotation axis through sensing principles such as strain gauge, capacitive, and Hall effect technologies.

Humanoid robot joint torque sensors are gradually evolving from laboratory validation components into critical sensing devices within scaled supply chains. As humanoid robots move beyond demonstration prototypes into small-batch deployment, joint systems face significantly higher requirements for force control, compliant control, collision detection, overload protection, and gait stability. Torque estimation based solely on motor current is increasingly unable to meet the demands of high safety and fast dynamic response.

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From the demand side, market growth is primarily driven by three factors. First, increasing humanoid robot shipments are generating greater installation demand for joint torque sensors. Second, embodied intelligence applications are expanding from walking demonstrations into material handling, manipulation, service tasks, and industrial collaboration, increasing reliance on joint force feedback. Third, manufacturers in China, South Korea, Japan, and Europe are successively launching torque sensor products designed specifically for robotic joints, accelerating the transition from high-cost customization toward standardization, miniaturization, and volume production. In the short term, the market will remain dominated by R&D prototypes, small-volume orders, and validation projects conducted by leading robot manufacturers, with relatively high prices and fragmented product specifications. Over the medium to long term, as mass-production platforms are finalized and domestic suppliers begin volume deliveries, average prices are expected to decline gradually, while shipment growth becomes the primary driver of market expansion.

In terms of the competitive landscape, the global supplier base remains fragmented and at an early stage of development. Companies including Bota Systems, Sensodrive, I-PEX, AIDIN ROBOTICS, AL.Robot, and DACELL, as well as Chinese suppliers such as ZEMIC, SRI, Kunwei Technology, Blue Point Touch, XJC Sensor, Keli Sensing, Amphenol Advanced Sensors, and PaXini, have established relatively clear product positions. Future competition will extend beyond individual accuracy specifications and increasingly focus on slim designs, hollow-shaft structures, resistance to off-axis loads, dynamic response, temperature-drift control, digital communication interfaces, reliability validation, and integration capabilities with joint modules. Overall, although the market remains relatively small, it represents a humanoid robot component segment with high technical barriers, long customer qualification cycles, and clear opportunities for domestic substitution. It therefore warrants continued monitoring of supplier penetration into mass-production customers, product price declines, and the market elasticity created by rising sensor content per robot.

Report Scope

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

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Robots industry.

This Insight Report provides a comprehensive analysis of the global Joint Torque Sensors for Humanoid Robots 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 Joint Torque Sensors for Humanoid Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Joint Torque Sensors for Humanoid Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Joint Torque Sensors for Humanoid Robots 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 Joint Torque Sensors for Humanoid Robots.

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

Segmentation by Type:

0 to 50 Nm Joint Torque Sensors

More than 50 to 150 Nm Joint Torque Sensors

More than 150 to 400 Nm Joint Torque Sensors

More than 400 Nm Joint Torque Sensors

Other

Segmentation by Sensing Principle:

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Strain Gauge Torque Sensors

Capacitive Torque Sensors

Hall Effect Torque Sensors

Other

Segmentation by Application:

Hip Joints

Knee Joints

Ankle Joints

Shoulder Joints

Elbow Joints

Wrist Joints

Hand and Finger Joints

Torso and Waist Joints

Neck and Head Joints

Other

This report also splits the market by region:

Americas

United States

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- Canada
- 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.

Bota Systems AG

Sensodrive GmbH

I-PEX Inc.

AIDIN ROBOTICS

AL.Robot

DACELL CO., LTD.

Zhonghang Electronic Measuring Instruments Co., Ltd.

Sunrise Instruments

Changzhou Kunwei Sensing Technology Co., Ltd.

Link-touch Technology Co., Ltd.

SHENZHEN XJCSENSOR TECHNOLOGY CO., LTD.

Ningbo Keli Sensing Technology Co., Ltd.

Ampron Technology Co., Ltd.

PaXini Tech

Beijing Teamdrive Sensor Co., Ltd.

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NBIT

Changzhou Right Measurement and Control System Co., Ltd.

ULTRAFORCE MEASUREMENT AND CONTROL SYSTEM

Key Questions Addressed in this Report

What is the 10-year outlook for the global Joint Torque Sensors for Humanoid Robots market?

What factors are driving Joint Torque Sensors for Humanoid Robots market growth, globally and by region?

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

How do Joint Torque Sensors for Humanoid Robots market opportunities vary by end market size?

How does Joint Torque Sensors for Humanoid Robots break out by Type, by Application?

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