

Global Six-dimensional Torque Sensor for Humanoid Robots Market Growth 2026-2032

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Abstracts

The global Six-dimensional Torque Sensor for Humanoid Robots market size is predicted to grow from US\$ 406 million in 2025 to US\$ 5737 million in 2032; it is expected to grow at a CAGR of 46.9% from 2026 to 2032.

A six-dimensional torque sensor is a sensor device that can simultaneously measure and output information in six dimensions (three force components and three torque components). Specifically, it can measure and output forces (F_x , F_y , F_z) along the three axes of X, Y, and Z and torques (M_x , M_y , M_z) around these three axes in a Cartesian coordinate system. This sensor is usually designed as a compact, rugged and high-precision measuring device and is widely used in situations where precise force and torque measurement is required. Six-dimensional torque sensors play a vital role in humanoid robots, industrial automation, aerospace, biomedical engineering and other fields. They can provide accurate force and torque information to help achieve precise control of robots, optimization of assembly processes, attitude control of aerospace vehicles, and precise measurement of biomedical experiments. This report focuses on the six-dimensional torque sensor for humanoid robot market.

United States market for Six-dimensional Torque Sensor for Humanoid Robots is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Six-dimensional Torque Sensor for Humanoid Robots is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Six-dimensional Torque Sensor for Humanoid Robots is estimated to

increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Six-dimensional Torque Sensor for Humanoid Robots players cover ATI, AMTI, Bota, Kistler, Kunwei Beijing Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Six-dimensional Torque Sensor for Humanoid Robots Industry Forecast" looks at past sales and reviews total world Six-dimensional Torque Sensor for Humanoid Robots sales in 2025, providing a comprehensive analysis by region and market sector of projected Six-dimensional Torque Sensor for Humanoid Robots sales for 2026 through 2032. With Six-dimensional Torque Sensor 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 Six-dimensional Torque Sensor for Humanoid Robots industry.

This Insight Report provides a comprehensive analysis of the global Six-dimensional Torque Sensor 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 Six-dimensional Torque Sensor 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 Six-dimensional Torque Sensor for Humanoid Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Six-dimensional Torque Sensor 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 Six-dimensional Torque Sensor for Humanoid Robots.

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

Segmentation by Type:

Strain Sensors

Optical Sensors

Piezoelectric Sensors

Segmentation by Application:

Wrists

Ankles

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

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

AMTI

Bota

Kistler

Kunwei Beijing Technology

Keli Sensing Technolgy

Sunrise Instruments

Guangzhou Haozhi Industrial

ZEMIC

Hypersen Technologies

Nanjing Bio-inspired Intelligent Technology

Right

Key Questions Addressed in this Report

What is the 10-year outlook for the global Six-dimensional Torque Sensor for Humanoid Robots market?

What factors are driving Six-dimensional Torque Sensor for Humanoid Robots market growth, globally and by region?

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

How do Six-dimensional Torque Sensor for Humanoid Robots market opportunities vary by end market size?

How does Six-dimensional Torque Sensor for Humanoid Robots break out by Type, by Application?

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