

Global 6-Axis Force Torque Sensor Market Growth 2024-2030

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Abstracts

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The global 6-Axis Force Torque Sensor market size is predicted to grow from US\$ 293 million in 2024 to US\$ 2405 million in 2030; it is expected to grow at a CAGR of 42.0% from 2024 to 2030.

6-Axis Force Torque Sensor is a special force sensor that can simultaneously measure three forces (FX, FY, FZ) and three moments (MX, MY, MZ) in a neutral coordinate system. It is widely used in robot control, mechanical experiments, scientific research and other fields, and is also one of the commonly used sensors in industrial robots.

The 6-Axis Force Torque Sensor originated from the aerospace industry and is used to measure the aerodynamic characteristics of aircraft, including lift, drag, lateral force, pitch moment, yaw moment and roll moment. Since the orthogonal three-directional forces and three-directional moments need to be measured simultaneously, the 6-Axis Force Torque Sensor came into being. With the public's knowledge of the comprehensive mechanical measurement advantages of the 6-Axis Force Torque Sensor and the rapid development of technology, the application field of the 6-Axis Force Torque Sensor has gradually expanded to detection, prevention, control, teaching, measurement, protection and other scenarios.

Since Musk proposed the concept of humanoid robots in 2021, the 6-Axis Force Torque Sensor market has ushered in rapid development. According to the latest research data, the global sales of 6-Axis Force Torque Sensors will be nearly 60,000 sets in 2024, of which China's sales will be about 17,000 sets, a year-on-year increase of more than 40%. It is estimated that by 2030, the global market sales will reach 820,000 sets, and

China's sales will reach 300,000 sets, with a compound annual sales growth rate of 60% from 2025 to 2030. At present, the global 6-Axis Force Torque Sensor industry market is dominated by ATI Industrial Automation, Schunk, Advanced Mechanical Technology, etc., occupying the global core market. Chinese manufacturers such as Yuli Instruments, Kunwei Technology, and Xinjingcheng have also ushered in explosive growth. In 2024, the world's top five manufacturers will account for more than 60% of the market.

According to different measurement principles, they can be divided into photoelectric, strain, capacitive, piezoelectric and other types. Among all force sensors, strain force sensors are the most widely used, and their usage accounts for more than 80% of the total force sensors. At present, companies that use strain force sensors include ATI Industrial Automation, Schunk, ME-Meßsysteme, Sintokogio and almost all players in China.

At present, 6-Axis Force Torque Sensors are widely used in collision tests, wheel hubs, seats and other parts tests in the automotive industry, as well as in many scientific and technological fields such as aerospace vehicles, biomechanics, medical fields, scientific research experiments, robots and industrial automation. Among downstream applications, the application scale of industrial automation (including traditional robots) accounts for the largest proportion, but the application scale of humanoid robots grows fastest. According to the latest data, the global compound annual growth rate of humanoid robots from 2025 to 2030 will reach 104%. In the long run, the mass production of humanoid robots will be a major source of growth for the 6-Axis Force Torque Sensor market. The application scenarios of 6-Axis Force Torque Sensors in traditional robots include force control, force feedback, quality inspection, and dynamic control; the application scenarios in humanoid robots include force control, swing stability control, and safety control. 6-Axis Force Torque Sensors can improve the refinement and flexibility of humanoid robot hand operations and the stability of foot walking. They are mainly installed at the end parts of wrists and ankles, and have become the standard of high-performance humanoid robots.

Dimensional force sensors are the highest-dimensional force sensors. With their advantages of high precision, high sensitivity, high bandwidth, and high reliability, they can provide the most comprehensive force information and improve sensing accuracy. They play a vital role in many high-tech fields. With the continuous advancement of technology and the continuous expansion of downstream application fields, the 6-Axis Force Torque Sensor market will usher in broad development prospects.

LP Information, Inc. (LPI) ' newest research report, the “6-Axis Force Torque Sensor Industry Forecast” looks at past sales and reviews total world 6-Axis Force Torque Sensor sales in 2023, providing a comprehensive analysis by region and market sector of projected 6-Axis Force Torque Sensor sales for 2024 through 2030. With 6-Axis Force Torque Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 6-Axis Force Torque Sensor industry.

This Insight Report provides a comprehensive analysis of the global 6-Axis Force Torque Sensor 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 6-Axis Force Torque Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 6-Axis Force Torque Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 6-Axis Force Torque Sensor 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 6-Axis Force Torque Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of 6-Axis Force Torque Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Segmentation by Application:

Industrial Robots

Medical Robots

Automotive Field

Humanoid Robots

Others

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 Industrial Automation

Schunk

Advanced Mechanical Technology

Sunrise Instruments (SRI)

Kistler

Robotiq

Epson

Nordbo Robotics

ME-Me?systeme

Wacoh-Tech

Kunwei Beijing Technology

Shenzhen Xinjingcheng Sensing Technolog

Robotous

FUTEK

Blue Point Touch (Beijing) Technology

Bota Systems

FANUC

Changzhou Right Measurement and control system

Hypersen Technologies

Sintokogio

Anhui Zhongke Mi Point Sensor

Nanjing Bio-inspired Intelligent Technology

Aidin Robotics

OnRobot

Guangzhou Haozhi Industrial

Anhui Bioforcen Intelligent Technology

Chongqing Luban Robotics Technology Research Institute

Shenzhen Jia'an Intelligent Technology

Torque Sensor Technology (Shenzhen)

Beijing Zhengkai Instrument

Keli Sensing Technology(Ningbo)

Zhonghang Electronic Measuring Instruments

Shenzhen Ampron Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 6-Axis Force Torque Sensor market?

What factors are driving 6-Axis Force Torque Sensor market growth, globally and by region?

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

How do 6-Axis Force Torque Sensor market opportunities vary by end market size?

How does 6-Axis Force Torque Sensor break out by Type, by Application?

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