

Global Six-Dimensional Force Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Six-Dimensional Force Sensors market size is expected to reach \$ 1859 million by 2032, rising at a market growth of 25.3% CAGR during the forecast period (2026-2032).

In 2025, global Six-Dimensional Force Sensors production reached approximately 92,607 Units, with an average global market price of around 3,933 USD per Unit.

Six-Dimensional Force Sensors are precision sensors capable of simultaneously detecting force components in three directions (F_x , F_y , F_z) and torque components in three directions (M_x , M_y , M_z) in three-dimensional space, achieving complete perception of force information in all six degrees of freedom. They feature high precision, low coupling, and high dynamic response, and are widely used in industrial automation, precision assembly, aerospace testing, and medical surgical robots. They play a crucial role, especially in humanoid robots, where they are often mounted on wrists, ankles, joint ends, and hand actuators. These sensors sense walking gait impacts, object grasping forces, and human-robot interaction collision forces, enabling stable balance control, flexible operation, and safety protection. They are the core sensing components for humanoid robots to achieve human-like movement, fine manipulation, and environmental adaptation. With the recent explosive growth of the humanoid robot industry, Six-Dimensional Force Sensors are poised for significant growth.

The upstream core components of Six-Dimensional Force Sensors mainly include elastomers, strain gauges, and chips. Typical raw material suppliers include VPG, HBM, Huntsman, and BASF. Downstream applications are primarily in industrial robotic arms, humanoid robots, automotive, medical, and scientific research fields. Typical users

include AgiBot, Unitree Robotics, Leju (Shenzhen) Robot Technology, Tesla, FANUC, KUKA, and ABB.

The single-line production capacity of Six-Dimensional Force Sensors varies significantly due to factors such as raw material supply, product calibration technology, and the degree of automation in the production line, typically ranging from several thousand to tens of thousands of units. The industry gross profit margin for Six-Dimensional Force Sensors is generally between 35% and 45%.

Originally from the aerospace industry, Six-Dimensional Force Sensors were used to measure the aerodynamic characteristics of aircraft, including lift, drag, lateral forces, pitch moment, yaw moment, and roll moment. Because orthogonal forces and moments in three directions need to be measured simultaneously, Six-Dimensional Force Sensors were developed. As the comprehensive mechanical measurement advantages of Six-Dimensional Force Sensors became widely known, and with rapid technological advancements, their applications have gradually expanded to include detection, prevention, control, teaching, measurement, and protection.

Since Elon Musk proposed the concept of humanoid robots in 2021, the Six-Dimensional Force Sensor market has experienced rapid growth. According to our latest research data, global sales of Six-Dimensional Force Sensors are projected to reach nearly 90,000 units by 2025, with approximately 44,000 units sold in China, representing a year-on-year growth of over 107%. The global market for Six-Dimensional Force Sensors is projected to reach 1.32 million units by 2032, with China accounting for 710,000 units, representing a CAGR of 46% from 2026 to 2032. Currently, the high-end market for Six-Dimensional Force Sensors is dominated by international brands (ATI Industrial Automation, Epson, etc.), but their market share has been declining in recent years. Major Chinese manufacturers are represented by Yuli Instruments, Kunwei Technology, and Xinjingcheng, whose global market share continues to increase. Comparing product differences, Chinese manufacturers' products are largely on par with international manufacturers in terms of accuracy, but gaps remain in sensitivity, crosstalk, overload resistance, and inter-dimensional coupling error. In terms of price, Chinese brands offer better value for money.

Based on different measurement principles, force sensors can be categorized into Strain Gauge Type, Piezoelectric/Capacitive Type, and others. Among all force sensors, Strain Gauge Type has the widest sales volume, accounting for over 80% of the total Six-Dimensional Force Sensor market.

Six-Dimensional Force Sensors are widely used in the automotive industry for crash testing, wheel and seat component testing, as well as in aerospace, biomechanics, medical fields, scientific research, robotics, and industrial automation. In downstream applications, industrial automation (including traditional robots) accounts for the largest share of the market, but the humanoid robot industry is experiencing the fastest growth. According to our latest data, the global humanoid robot market is projected to grow at a CAGR of 58.1% from 2026 to 2032, while China's CAGR is even higher at 61%. In the long term, mass production of humanoid robots will be a major driver of growth for the Six-Dimensional Force Sensors market. Applications of Six-Dimensional Force Sensors in humanoid robots include force control, oscillation stabilization control, and safety control. Six-Dimensional Force Sensors can improve the precision and flexibility of humanoid robot hand operations and the stability of leg movement. Primarily installed at the end-effectors of wrists and ankles, they have become standard equipment in high-performance humanoid robots.

Currently, Six-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. In the future, with the continuous advancement of technology and the continuous expansion of downstream application areas, the Six-Dimensional Force Sensors market will usher in broad development prospects.

This report studies the global Six-Dimensional Force Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Six-Dimensional Force Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Six-Dimensional Force Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

- Global Six-Dimensional Force Sensors total production and demand, 2021-2032, (Units)
- Global Six-Dimensional Force Sensors total production value, 2021-2032, (USD Million)
- Global Six-Dimensional Force Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
- Global Six-Dimensional Force Sensors consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Six-Dimensional Force Sensors domestic production, consumption, key domestic manufacturers and share

Global Six-Dimensional Force Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Six-Dimensional Force Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Six-Dimensional Force Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Six-Dimensional Force Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ATI Industrial Automation, Schunk, Advanced Mechanical Technology, Sunrise Instruments (SRI), Epson, Link-touch (Beijing) Technology, Changzhou Kunwei Sensing Technology, Kistler, Robotiq, Shenzhen Xinjingcheng Sensing Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Six-Dimensional Force Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Six-Dimensional Force Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Six-Dimensional Force Sensors Market, Segmentation by Type:

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Global Six-Dimensional Force Sensors Market, Segmentation by Measuring Range:

Measuring Range: Below 100N

100 ? Measuring Range

500 ? Measuring Range ? 1000N

Measuring Range: Above 1000N

Global Six-Dimensional Force Sensors Market, Segmentation by Accuracy(%FS):

0.1

0.2

0.3

Others

Global Six-Dimensional Force Sensors Market, Segmentation by Application:

Industrial Robots

Medical Robots

Automotive Field

Humanoid Robots

Others

Companies Profiled:

ATI Industrial Automation

Schunk

Advanced Mechanical Technology

Sunrise Instruments (SRI)

Epson

Link-touch (Beijing) Technology

Changzhou Kunwei Sensing Technology

Kistler

Robotiq

Shenzhen Xinjingcheng Sensing Technology

ME-Me?systeme

Wacoh-Tech

Nordbo Robotics

Bota Systems

FUTEK

Robotous

Anhui Zhongke Midian Sensor

Changzhou Right Measurement and Control System

Aidin Robotics

FANUC

Sintokogio

OnRobot

Keli Sensing Ningbo Technology

Guangzhou Haozhi Industrial

Hypersen Technologies

Zhonghang Electronic Measuring Instruments

Nanjing Bio-inspired Intelligent Technology

Key Questions Answered:

1. How big is the global Six-Dimensional Force Sensors market?
2. What is the demand of the global Six-Dimensional Force Sensors market?
3. What is the year over year growth of the global Six-Dimensional Force Sensors market?
4. What is the production and production value of the global Six-Dimensional Force

Sensors market?

5. Who are the key producers in the global Six-Dimensional Force Sensors market?

6. What are the growth factors driving the market demand?

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