

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

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Abstracts

The global Six- Dimensional Force Sensors for Robots market size is expected to reach \$ 1799 million by 2032, rising at a market growth of 27.7% CAGR during the forecast period (2026-2032).

In 2025, global Six- Dimensional Force Sensor for Robots production reached approximately 84310 Units, with an average global market price of around 3685 USD per Unit.

Six-dimensional force sensors for robots are precision sensing devices capable of simultaneously detecting force components along the three spatial axes (F_x , F_y , F_z) and torque components along the three rotational axes (M_x , M_y , M_z), thereby enabling the comprehensive perception of force-related information across six degrees of freedom. Typically comprising an elastic body structure, strain-sensitive elements, and signal acquisition and decoupling algorithm modules, these sensors translate mechanical deformation caused by applied forces into electrical signals to output precise, real-time, multi-dimensional force and torque data; they are characterized by high accuracy, low coupling, and high dynamic response capabilities. Six-dimensional force sensors are widely deployed across various fields including industrial robotics, collaborative robotics, and medical robotics and play a particularly critical role in humanoid robots. They are frequently mounted on wrists, ankles, joint extremities, and end-effectors (hands) to sense forces such as gait impact during walking, gripping force during object manipulation, and collision forces during human-robot interaction, thereby facilitating stable balance control, flexible manipulation, and safety protection. As core perception components enabling humanoid robots to achieve human-like locomotion, dexterous manipulation, and environmental adaptability, these six-dimensional force sensors have witnessed immense growth potential in recent years, driven by the

explosive expansion of the humanoid robotics industry.

The upstream core components of Six- Dimensional Force Sensor for Robots 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 Sensor for Robots 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 Sensor for Robots is generally between 35% and 45%.

Since Elon Musk introduced the concept of humanoid robots in 2021, the market for six-dimensional force sensors for robots has experienced rapid growth. According to our latest research data, global sales of six-dimensional force sensors for robots are projected to reach nearly 84,000 units in 2025; of this total, China is expected to account for approximately 36,000 units—a year-on-year increase of over 70%. By 2032, global market sales are forecast to reach 1.25 million units, with China's sales reaching 650,000 units; this represents a compound annual growth rate (CAGR) of 49% for China's annual sales volume between 2026 and 2032. Currently, the high-end segment of the six-dimensional force sensor industry is dominated by players such as ATI Industrial Automation and Epson; however, their market share has been in steady decline over recent years. Meanwhile, major Chinese manufacturers—including Sunrise Instruments (SRI), Changzhou Kunwei Sensing Technology, and Shenzhen Xinjingcheng Sensing Technology—are experiencing rapid expansion, leading to a continuous increase in market share for these domestic brands. In terms of product differentiation, Chinese products have largely achieved parity with mainstream international offerings regarding precision; however, gaps still persist in areas such as sensitivity, crosstalk, overload resistance, and inter-axis coupling errors.

Based on measurement principles, these sensors can be categorized into strain gauge types, piezoelectric/capacitive types, and others. Among these, the strain gauge type is the most widely adopted, accounting for over 80% of total usage volume. Currently, companies utilizing strain gauge technology include ATI Industrial Automation, Schunk, ME-Me?systeme, and Sintokogio; similarly, the vast majority of Chinese enterprises rely on this specific technical principle for the development of their six-dimensional force

sensors.

Regarding downstream applications, the industrial automation sector (including traditional robotics) currently accounts for the largest share of application volume; however, the humanoid robotics sector is exhibiting the fastest growth rate in application scale. According to our latest data, the global CAGR for the humanoid robotics sector is projected to reach 58.1% between 2026 and 2032, while China's CAGR for this segment is expected to reach an even higher 61%. From a long-term perspective, the mass production of humanoid robots is poised to become the primary driver of market growth. The specific applications of these sensors within humanoid robots include force control, swing stabilization, and safety monitoring; they serve to enhance the dexterity and flexibility of the robot's hand movements, as well as the stability of its bipedal locomotion. Typically installed at terminal joints—such as the wrists and ankles—these sensors have now become a standard feature in high-performance humanoid robots.

Currently, six-dimensional force sensors for robots represent the highest-dimensional sensors available. Distinguished by their high precision, sensitivity, bandwidth, and reliability, they provide the most comprehensive force-sensing information and enhance measurement accuracy. Consequently, they play a pivotal role across a wide range of fields. Looking ahead, as technology continues to advance and downstream application sectors continue to expand, the market for six-dimensional force sensors for robots is poised to enjoy broad prospects for future growth.

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

This report is a detailed and comprehensive analysis of the world market for Six- Dimensional Force Sensors for Robots 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 for Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Six- Dimensional Force Sensors for Robots total production and demand, 2021-2032, (Units)

Global Six- Dimensional Force Sensors for Robots total production value, 2021-2032, (USD Million)

Global Six- Dimensional Force Sensors for Robots production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Six- Dimensional Force Sensors for Robots consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

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

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

This report profiles key players in the global Six- Dimensional Force Sensors for Robots 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, Sunrise Instruments (SRI), Epson, Changzhou Kunwei Sensing Technology, Link-touch (Beijing) Technology, Advanced Mechanical Technology, Shenzhen Xinjingcheng Sensing Technology, Robotiq, Kistler, 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 for Robots 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 for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

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

0.1

0.2

0.3

Others

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

Industrial Robots

Medical Robots

Humanoid Robots

Others

Companies Profiled:

ATI Industrial Automation

Schunk

Sunrise Instruments (SRI)

Epson

Changzhou Kunwei Sensing Technology

Link-touch (Beijing) Technology

Advanced Mechanical Technology

Shenzhen Xinjingcheng Sensing Technology

Robotiq

Kistler

Wacoh-Tech

Bota Systems

FANUC

Nordbo Robotics

FUTEK

ME-Me?systeme

Robotous

Aidin Robotics

Sintokogio

OnRobot

Changzhou Right Measurement and control system

Keli Sensing Technolgy(Ningbo)

Guangzhou Haozhi Industrial

Hypersen Technologies

Anhui Zhongke Midian Sensor

Zhonghang Electronic Measuring Instruments

Nanjing Bio-inspired Intelligent Technology

Key Questions Answered:

1. How big is the global Six- Dimensional Force Sensors for Robots market?
2. What is the demand of the global Six- Dimensional Force Sensors for Robots market?
3. What is the year over year growth of the global Six- Dimensional Force Sensors for Robots market?
4. What is the production and production value of the global Six- Dimensional Force Sensors for Robots market?
5. Who are the key producers in the global Six- Dimensional Force Sensors for Robots market?
6. What are the growth factors driving the market demand?

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