

Global Six- Dimensional Force Sensors for Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Six- Dimensional Force Sensors for Robots market size was valued at US\$ 344 million in 2025 and is forecast to a readjusted size of US\$ 4051 million by 2032 with a CAGR of 42.7% during review period.

Six-Dimensional Force Sensors 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 six-dimensional force 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 six-dimensional force sensor came into being. With the public's knowledge of the comprehensive mechanical measurement advantages of the six-dimensional force sensor and the rapid development of technology, the application field of the six-dimensional force 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 six-dimensional force sensor market has ushered in rapid development. According to the latest research data from QYR, the global sales of six-dimensional force 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 six-dimensional force 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-Me?systeme, Sintokogio

and almost all players in China.

At present, six-dimensional force 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 from QYR, 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 six-dimensional force sensor market. The application scenarios of six-dimensional force 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. Six-dimensional force 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.

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. With the continuous advancement of technology and the continuous expansion of downstream application fields, the six-

dimensional force sensor market will usher in broad development prospects.

This report is a detailed and comprehensive analysis for global Six- Dimensional Force Sensors for Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Six- Dimensional Force Sensors for Robots market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Six- Dimensional Force Sensors for Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Six- Dimensional Force Sensors for Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Six- Dimensional Force Sensors for Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Six- Dimensional Force Sensors for Robots
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Six- Dimensional Force Sensors for Robots market based on the following parameters - company overview, sales quantity, revenue, 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), Kistler, Robotiq,

Epson, Nordbo Robotics, ME-Me?systeme, Wacoh-Tech, etc.

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

Market Segmentation

Six- Dimensional Force Sensors for Robots market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Market segment by Application

Industrial Robots

Medical Robots

Humanoid Robots

Others

Major players covered

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)

Keli Sensing Technology(Ningbo)

Zhonghang Electronic Measuring Instruments

Shenzhen Ampron Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Six- Dimensional Force Sensors for Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Six- Dimensional Force Sensors for Robots, with price, sales quantity, revenue, and global market share of Six- Dimensional Force Sensors for Robots from 2021 to 2026.

Chapter 3, the Six- Dimensional Force Sensors for Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Six- Dimensional Force Sensors for Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Six- Dimensional Force Sensors for Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Six- Dimensional Force Sensors for Robots.

Chapter 14 and 15, to describe Six- Dimensional Force Sensors for Robots sales channel, distributors, customers, research findings and conclusion.

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