

Global Robot Six-Axis Force Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Robot Six-Axis Force Sensor market size was valued at US\$ 207 million in 2023 and is forecast to a readjusted size of USD 2335 million by 2030 with a CAGR of 42.7% during review period.

Robot Six-Axis Force Sensor is a sensor that measures forces and torques in the three directions of X, Y, and Z. Robot Six-Axis Force Sensor is currently mainly mounted on robotic arms. It detects all the information about the force acting in space, namely the three component forces and three torques F_x , F_y , F_z , M_x , M_y , and M_z formed in the spatial coordinate system, so as to accurately measure and control the force on the robotic arm. Currently, the Robot Six-Axis Force Sensor market is in a rapid growth stage, mainly benefiting from the widespread application of robot technology and the increase in intelligent demand. The statistical scope of this report is Robot Six-Axis Force Sensor for robots used in the fields of precision grinding, precision assembly, collaborative robots, humanoid robots, etc.

The Robot Six-Axis 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-direction forces and three-direction moments need to be measured simultaneously, the Robot Six-Axis Force Sensor came into being. As the comprehensive mechanical measurement advantages of the Robot Six-Axis Force Sensor are known to the public and the technology develops rapidly, the application field of the Robot Six-Axis Force Sensor has gradually expanded to detection, prevention, control, teaching, measurement, protection and other scenarios.

As a key component of the robot's precise force control and environmental perception,

the Robot Six-Axis Force Sensor market has ushered in rapid development since Musk proposed the concept of humanoid robots in 2021. From the application end, the industrial robot field (assembly, grinding, and collaborative robots) is still the main application field at present, but with the advancement of technology, the demand for medical and humanoid robots is also increasing significantly.

According to the latest research data, the global sales volume of Robot Six-Axis Force Sensor for robots will be nearly 52,000 sets in 2024, of which China will sell about 15,000 sets, a year-on-year increase of more than 35%. It is estimated that by 2030, the global market sales volume of Robot Six-Axis Force Sensor for robots will reach 730,000 sets, of which China's sales volume will reach 260,000 sets, and the annual compound growth rate of sales volume from 2025 to 2030 will exceed 50%. At present, the high-end market of the Robot Six-Axis Force Sensor industry for robots is dominated by foreign brands (ATI Industrial Automation, Epson, etc.), but the market share has continued to decline in recent years. The main domestic manufacturers are led by Yuli Instruments, Kunwei Technology, Xinjingcheng and other representatives, followed by Blue Dot Touch, Ruierte Measurement and Control, and Haiberson. The share of these domestic brands continues to increase. Although the top five domestic Robot Six-Axis Force Sensor companies are not listed, with the rapid growth of the market size, many listed companies (such as Keli Sensor, AVIC Electro-Mechanical Test, and Amperon) have begun to develop and produce Robot Six-Axis Force Sensors and have made varying degrees of progress. Comparing the differences between domestic and foreign products, the accuracy of domestic and foreign mainstream products is basically aligned, but there is still a gap in sensitivity, crosstalk, overload resistance and inter-dimensional coupling error. From the price point of view, domestic brands are more cost-effective and are expected to accelerate the process of domestic substitution.

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, foreign companies that use strain force sensors include ATI Industrial Automation, Schunk, ME-Meßsysteme, Sintokogio, etc., while domestic companies basically use this type of technical principle to develop Robot Six-Axis Force Sensors.

From a regional perspective, the United States, Europe and Asia-Pacific are the main markets, especially China, where the demand for industrial and service robots is growing fastest. North America and Europe maintain their advantages in the field of high-end sensors. According to research data, the annual compound growth rate of Robot Six-Axis Force Sensor sales for robots in the Asia-Pacific region from 2019 to 2024 exceeded 70%, followed by Europe with a growth rate of over 60%.

Industry 4.0 and intelligent manufacturing have promoted the development of production lines towards high automation and flexibility. As a high-precision force control device, Robot Six-Axis Force Sensor will be more widely used in fine robot tasks such as assembly, grinding, welding, and polishing. At the same time, with the advancement of technology, the demand in medical, humanoid robots and other fields is also increasing significantly. In the future, the market for Robot Six-Axis Force Sensor for robots will surely usher in broad development prospects.

This report is a detailed and comprehensive analysis for global Robot Six-Axis Force Sensor 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 2024, are provided.

Key Features:

Global Robot Six-Axis Force Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Robot Six-Axis Force Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Robot Six-Axis Force Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2019-2030

Global Robot Six-Axis Force Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2019-2024

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 Robot Six-Axis Force Sensor

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 Robot Six-Axis Force Sensor 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

Robot Six-Axis Force Sensor market is split by Type and by Application. For the period 2019-2030, 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
- Automotive Field
- 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)
- Beijing Zhengkai Instrument
- 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 Robot Six-Axis Force Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot Six-Axis Force Sensor, with price, sales quantity, revenue, and global market share of Robot Six-Axis Force Sensor from 2019 to 2024.

Chapter 3, the Robot Six-Axis Force Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot Six-Axis Force Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Robot Six-Axis Force Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Robot Six-Axis Force Sensor.

Chapter 14 and 15, to describe Robot Six-Axis Force Sensor sales channel, distributors, customers, research findings and conclusion.

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