

Global Force Sensors for Industrial 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 Force Sensors for Industrial Robots market size was valued at US\$ 329 million in 2025 and is forecast to a readjusted size of US\$ 1437 million by 2032 with a CAGR of 23.7% during review period.

Force Sensors for Industrial Robots give robots a human-like touch by measuring force and torque. This sensor enhances your automation by enabling robots to perform tasks previously reserved for master craftsmen. Operating in a closed-loop system, it uses data from sensors to precisely guide robot movements and maintain consistent force levels. The industrial force sensors in this report mainly refer to six-dimensional force sensors. The six-dimensional torque 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 multiple industrial fields.

Force Sensors for Industrial Robots are precision sensing devices installed at the joints or ends of robots. They are used to measure the six-dimensional force/torque data (forces F_x , F_y , F_z in three orthogonal directions and torques M_x , M_y , M_z around three axes) generated during robot operation, and to achieve accurate perception and control of the contact force between the robot and the outside world.

Force Sensors for Industrial Robots are the "tactile nerves" of intelligent manufacturing. Through force feedback closed-loop control, they significantly improve the flexibility, precision and safety of robots, and are indispensable in precision operations and collaborative applications. According to the latest research data, the global sales of

Force Sensors for Industrial Robots will be nearly 55,000 sets in 2024, of which China's sales will be about 16,000 sets, a year-on-year increase of more than 40%. It is estimated that by 2031, the global market sales will reach 430,000 sets, and China's sales will reach 160,000 sets, with a compound annual growth rate of 34.38% from 2025 to 2030. At present, the high-end market of the Force Sensors for Industrial Robots industry is dominated by foreign brands (ATI Industrial Automation, Epson, etc.), but the market share has continued to decline in recent years. The major domestic manufacturers are led by Yuli Instruments, Kunwei Technology, and Xinjingcheng, followed by Blue Point Touch (Beijing) Technology, Changzhou Right Measurement and control system, and Hypersen Technologies. The market share of these domestic brands continues to increase. Although none of the top five domestic Force Sensors for Industrial Robots companies are listed, with the rapid growth of the market size, many listed companies have begun to develop industrial six-dimensional torque 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 have a higher cost-effectiveness 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 sensors include ATI Industrial Automation, Schunk, ME-Meßsysteme, Sintokogio, etc. Chinese companies basically use this kind of technical principle to develop Force Sensors for Industrial Robots.

At present, Force Sensors for Industrial Robots are widely used in assembly robots, polishing robots, collaborative robots, etc. According to the latest research data, assembly robots account for more than 40% of the application in 2024, followed by polishing robots. From the perspective of regional markets, Asia-Pacific not only occupies the largest market share of industrial robot force sensors in the world, but also has the highest market growth rate, with the Chinese market performing particularly well. With the growing demand for high-precision automation in the manufacturing industry, and the continued increase in demand for high-precision assembly, polishing and grinding in industries such as automobiles, electronics and aerospace, the industrial robot force sensor market will usher in huge development space.

This report is a detailed and comprehensive analysis for global Force Sensors for Industrial 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 Force Sensors for Industrial Robots market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Force Sensors for Industrial 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 Force Sensors for Industrial 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 Force Sensors for Industrial 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 Force Sensors for Industrial 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 Force Sensors for Industrial 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

Force Sensors for Industrial 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

Capacitive Type

Other

Market segment by Application

Assembly Robots

Polishing Robots

Collaborative 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

Changzhou Kunwei Sensing Technology

Shenzhen Xinjingcheng Sensing Technolog

Robotous

FUTEK

Blue Point Touch (Beijing) Technology

Bota Systems

FANUC

Changzhou Right Measurement and control system

Hypersen Technologies

Sintokogio

Nanjing Bio-inspired Intelligent Technology

Aidin Robotics

OnRobot

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 Force Sensors for Industrial Robots product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Force Sensors for Industrial 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 Force Sensors for Industrial 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 Force Sensors for Industrial Robots.

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

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