

Global Robot 6-axis Force Torque Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/R8255E8FC742EN.html>

Date: June 2025

Pages: 203

Price: US\$ 3,480.00 (Single User License)

ID: R8255E8FC742EN

Abstracts

According to our (Global Info Research) latest study, the global Robot 6-axis Force Torque 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 6-axis Force Torque Sensor, full name Six Axis F/T Sensor, is a sensor that measures force and torque in the three directions of X, Y, and Z. Robot 6-axis Force Torque 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 of the robotic arm. At present, the Robot 6-axis Force Torque Sensor market is in a rapid growth stage, mainly benefiting from the widespread application of robot technology and the improvement of intelligent demand. The statistical scope of this report is Robot 6-axis Force Torque Sensor for robots used in precision grinding, precision assembly, collaborative robots, humanoid robots and other fields.

The Robot 6-axis Force Torque 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 force and three-direction moment need to be measured simultaneously, the Robot 6-axis Force Torque Sensor came into being. As the comprehensive mechanical measurement advantages of the Robot 6-axis Force Torque Sensor are known to the public and the technology develops rapidly, the application field of the Robot 6-axis Force Torque Sensor has gradually expanded to detection, prevention, control, teaching, measurement, protection and other scenarios.

As a key component for precise force control and environmental perception of robots, the Robot 6-axis Force Torque 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, collaborative robots) is still the main application field at present, but with the advancement of technology, the demand for medical, humanoid robots and other fields is also increasing significantly. According to the latest research data, the global sales volume of Robot 6-axis Force Torque 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 6-axis Force Torque Sensor for robots will reach 730,000 sets, and China's sales volume will reach 260,000 sets, with a compound annual growth rate of sales of more than 50% from 2025 to 2030. At present, the high-end market of the Robot 6-axis Force Torque 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, Ruier Measurement and Control, and Haiberson. The share of these domestic brands continues to increase. Although none of the top five domestic Robot 6-axis Force Torque Sensor companies are 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 6-axis Force 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 force sensors include ATI Industrial Automation, Schunk, ME-Meßsysteme, Sintokogio, etc., while domestic companies basically use this type of technical principle to develop Robot 6-axis Force Torque Sensor.

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 research data, the annual compound growth rate of sales of Robot 6-axis Force Torque Sensor 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 6-axis Force Torque 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 6-axis Force Torque Sensor for robots will surely usher in broad development prospects.

This report is a detailed and comprehensive analysis for global Robot 6-axis Force Torque 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 6-axis Force Torque Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Robot 6-axis Force Torque Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Robot 6-axis Force Torque Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2019-2030

Global Robot 6-axis Force Torque Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 6-axis Force Torque 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 6-axis Force Torque 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 6-axis Force Torque 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 Technolgy(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 6-axis Force Torque Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot 6-axis Force Torque Sensor, with

price, sales quantity, revenue, and global market share of Robot 6-axis Force Torque Sensor from 2019 to 2024.

Chapter 3, the Robot 6-axis Force Torque Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot 6-axis Force Torque 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 6-axis Force Torque 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 6-axis Force Torque Sensor.

Chapter 14 and 15, to describe Robot 6-axis Force Torque Sensor sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Robot 6-axis Force Torque Sensor Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Strain Gauge Type

1.3.3 Piezoelectric/Capacitive Type

1.3.4 Others

1.4 Market Analysis by Application

1.4.1 Overview: Global Robot 6-axis Force Torque Sensor Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Industrial Robots

1.4.3 Medical Robots

1.4.4 Automotive Field

1.4.5 Humanoid Robots

1.4.6 Others

1.5 Global Robot 6-axis Force Torque Sensor Market Size & Forecast

1.5.1 Global Robot 6-axis Force Torque Sensor Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Robot 6-axis Force Torque Sensor Sales Quantity (2019-2030)

1.5.3 Global Robot 6-axis Force Torque Sensor Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 ATI Industrial Automation

2.1.1 ATI Industrial Automation Details

2.1.2 ATI Industrial Automation Major Business

2.1.3 ATI Industrial Automation Robot 6-axis Force Torque Sensor Product and Services

2.1.4 ATI Industrial Automation Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 ATI Industrial Automation Recent Developments/Updates

2.2 Schunk

2.2.1 Schunk Details

2.2.2 Schunk Major Business

- 2.2.3 Schunk Robot 6-axis Force Torque Sensor Product and Services
- 2.2.4 Schunk Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 Schunk Recent Developments/Updates
- 2.3 Advanced Mechanical Technology
 - 2.3.1 Advanced Mechanical Technology Details
 - 2.3.2 Advanced Mechanical Technology Major Business
 - 2.3.3 Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Product and Services
 - 2.3.4 Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 Advanced Mechanical Technology Recent Developments/Updates
- 2.4 Sunrise Instruments (SRI)
 - 2.4.1 Sunrise Instruments (SRI) Details
 - 2.4.2 Sunrise Instruments (SRI) Major Business
 - 2.4.3 Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Product and Services
 - 2.4.4 Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.4.5 Sunrise Instruments (SRI) Recent Developments/Updates
- 2.5 Kistler
 - 2.5.1 Kistler Details
 - 2.5.2 Kistler Major Business
 - 2.5.3 Kistler Robot 6-axis Force Torque Sensor Product and Services
 - 2.5.4 Kistler Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.5.5 Kistler Recent Developments/Updates
- 2.6 Robotiq
 - 2.6.1 Robotiq Details
 - 2.6.2 Robotiq Major Business
 - 2.6.3 Robotiq Robot 6-axis Force Torque Sensor Product and Services
 - 2.6.4 Robotiq Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.6.5 Robotiq Recent Developments/Updates
- 2.7 Epson
 - 2.7.1 Epson Details
 - 2.7.2 Epson Major Business
 - 2.7.3 Epson Robot 6-axis Force Torque Sensor Product and Services
 - 2.7.4 Epson Robot 6-axis Force Torque Sensor Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Epson Recent Developments/Updates

2.8 Nordbo Robotics

2.8.1 Nordbo Robotics Details

2.8.2 Nordbo Robotics Major Business

2.8.3 Nordbo Robotics Robot 6-axis Force Torque Sensor Product and Services

2.8.4 Nordbo Robotics Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Nordbo Robotics Recent Developments/Updates

2.9 ME-Me?systeme

2.9.1 ME-Me?systeme Details

2.9.2 ME-Me?systeme Major Business

2.9.3 ME-Me?systeme Robot 6-axis Force Torque Sensor Product and Services

2.9.4 ME-Me?systeme Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 ME-Me?systeme Recent Developments/Updates

2.10 Wacoh-Tech

2.10.1 Wacoh-Tech Details

2.10.2 Wacoh-Tech Major Business

2.10.3 Wacoh-Tech Robot 6-axis Force Torque Sensor Product and Services

2.10.4 Wacoh-Tech Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Wacoh-Tech Recent Developments/Updates

2.11 Kunwei Beijing Technology

2.11.1 Kunwei Beijing Technology Details

2.11.2 Kunwei Beijing Technology Major Business

2.11.3 Kunwei Beijing Technology Robot 6-axis Force Torque Sensor Product and Services

2.11.4 Kunwei Beijing Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Kunwei Beijing Technology Recent Developments/Updates

2.12 Shenzhen Xinjingcheng Sensing Technolog

2.12.1 Shenzhen Xinjingcheng Sensing Technolog Details

2.12.2 Shenzhen Xinjingcheng Sensing Technolog Major Business

2.12.3 Shenzhen Xinjingcheng Sensing Technolog Robot 6-axis Force Torque Sensor Product and Services

2.12.4 Shenzhen Xinjingcheng Sensing Technolog Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Shenzhen Xinjingcheng Sensing Technolog Recent Developments/Updates

2.13 Robotous

2.13.1 Robotous Details

2.13.2 Robotous Major Business

2.13.3 Robotous Robot 6-axis Force Torque Sensor Product and Services

2.13.4 Robotous Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Robotous Recent Developments/Updates

2.14 FUTEK

2.14.1 FUTEK Details

2.14.2 FUTEK Major Business

2.14.3 FUTEK Robot 6-axis Force Torque Sensor Product and Services

2.14.4 FUTEK Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.14.5 FUTEK Recent Developments/Updates

2.15 Blue Point Touch (Beijing) Technology

2.15.1 Blue Point Touch (Beijing) Technology Details

2.15.2 Blue Point Touch (Beijing) Technology Major Business

2.15.3 Blue Point Touch (Beijing) Technology Robot 6-axis Force Torque Sensor Product and Services

2.15.4 Blue Point Touch (Beijing) Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.15.5 Blue Point Touch (Beijing) Technology Recent Developments/Updates

2.16 Bota Systems

2.16.1 Bota Systems Details

2.16.2 Bota Systems Major Business

2.16.3 Bota Systems Robot 6-axis Force Torque Sensor Product and Services

2.16.4 Bota Systems Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.16.5 Bota Systems Recent Developments/Updates

2.17 FANUC

2.17.1 FANUC Details

2.17.2 FANUC Major Business

2.17.3 FANUC Robot 6-axis Force Torque Sensor Product and Services

2.17.4 FANUC Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.17.5 FANUC Recent Developments/Updates

2.18 Changzhou Right Measurement and control system

2.18.1 Changzhou Right Measurement and control system Details

2.18.2 Changzhou Right Measurement and control system Major Business

2.18.3 Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Product and Services

2.18.4 Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.18.5 Changzhou Right Measurement and control system Recent Developments/Updates

2.19 Hypersen Technologies

2.19.1 Hypersen Technologies Details

2.19.2 Hypersen Technologies Major Business

2.19.3 Hypersen Technologies Robot 6-axis Force Torque Sensor Product and Services

2.19.4 Hypersen Technologies Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.19.5 Hypersen Technologies Recent Developments/Updates

2.20 Sintokogio

2.20.1 Sintokogio Details

2.20.2 Sintokogio Major Business

2.20.3 Sintokogio Robot 6-axis Force Torque Sensor Product and Services

2.20.4 Sintokogio Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.20.5 Sintokogio Recent Developments/Updates

2.21 Anhui Zhongke Mi Point Sensor

2.21.1 Anhui Zhongke Mi Point Sensor Details

2.21.2 Anhui Zhongke Mi Point Sensor Major Business

2.21.3 Anhui Zhongke Mi Point Sensor Robot 6-axis Force Torque Sensor Product and Services

2.21.4 Anhui Zhongke Mi Point Sensor Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.21.5 Anhui Zhongke Mi Point Sensor Recent Developments/Updates

2.22 Nanjing Bio-inspired Intelligent Technology

2.22.1 Nanjing Bio-inspired Intelligent Technology Details

2.22.2 Nanjing Bio-inspired Intelligent Technology Major Business

2.22.3 Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services

2.22.4 Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.22.5 Nanjing Bio-inspired Intelligent Technology Recent Developments/Updates

2.23 Aidin Robotics

- 2.23.1 Aidin Robotics Details
- 2.23.2 Aidin Robotics Major Business
- 2.23.3 Aidin Robotics Robot 6-axis Force Torque Sensor Product and Services
- 2.23.4 Aidin Robotics Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.23.5 Aidin Robotics Recent Developments/Updates
- 2.24 OnRobot
 - 2.24.1 OnRobot Details
 - 2.24.2 OnRobot Major Business
 - 2.24.3 OnRobot Robot 6-axis Force Torque Sensor Product and Services
 - 2.24.4 OnRobot Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.24.5 OnRobot Recent Developments/Updates
- 2.25 Guangzhou Haozhi Industrial
 - 2.25.1 Guangzhou Haozhi Industrial Details
 - 2.25.2 Guangzhou Haozhi Industrial Major Business
 - 2.25.3 Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Product and Services
 - 2.25.4 Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.25.5 Guangzhou Haozhi Industrial Recent Developments/Updates
- 2.26 Anhui Bioforcen Intelligent Technology
 - 2.26.1 Anhui Bioforcen Intelligent Technology Details
 - 2.26.2 Anhui Bioforcen Intelligent Technology Major Business
 - 2.26.3 Anhui Bioforcen Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services
 - 2.26.4 Anhui Bioforcen Intelligent Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.26.5 Anhui Bioforcen Intelligent Technology Recent Developments/Updates
- 2.27 Chongqing Luban Robotics Technology Research Institute
 - 2.27.1 Chongqing Luban Robotics Technology Research Institute Details
 - 2.27.2 Chongqing Luban Robotics Technology Research Institute Major Business
 - 2.27.3 Chongqing Luban Robotics Technology Research Institute Robot 6-axis Force Torque Sensor Product and Services
 - 2.27.4 Chongqing Luban Robotics Technology Research Institute Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.27.5 Chongqing Luban Robotics Technology Research Institute Recent Developments/Updates

2.28 Shenzhen Jia'an Intelligent Technology

2.28.1 Shenzhen Jia'an Intelligent Technology Details

2.28.2 Shenzhen Jia'an Intelligent Technology Major Business

2.28.3 Shenzhen Jia'an Intelligent Technology Robot 6-axis Force Torque Sensor

Product and Services

2.28.4 Shenzhen Jia'an Intelligent Technology Robot 6-axis Force Torque Sensor

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.28.5 Shenzhen Jia'an Intelligent Technology Recent Developments/Updates

2.29 Torque Sensor Technology (Shenzhen)

2.29.1 Torque Sensor Technology (Shenzhen) Details

2.29.2 Torque Sensor Technology (Shenzhen) Major Business

2.29.3 Torque Sensor Technology (Shenzhen) Robot 6-axis Force Torque Sensor

Product and Services

2.29.4 Torque Sensor Technology (Shenzhen) Robot 6-axis Force Torque Sensor

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.29.5 Torque Sensor Technology (Shenzhen) Recent Developments/Updates

2.30 Beijing Zhengkai Instrument

2.30.1 Beijing Zhengkai Instrument Details

2.30.2 Beijing Zhengkai Instrument Major Business

2.30.3 Beijing Zhengkai Instrument Robot 6-axis Force Torque Sensor Product and

Services

2.30.4 Beijing Zhengkai Instrument Robot 6-axis Force Torque Sensor Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.30.5 Beijing Zhengkai Instrument Recent Developments/Updates

2.31 Keli Sensing Technology(Ningbo)

2.31.1 Keli Sensing Technology(Ningbo) Details

2.31.2 Keli Sensing Technology(Ningbo) Major Business

2.31.3 Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Product

and Services

2.31.4 Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Sales

Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.31.5 Keli Sensing Technology(Ningbo) Recent Developments/Updates

2.32 Zhonghang Electronic Measuring Instruments

2.32.1 Zhonghang Electronic Measuring Instruments Details

2.32.2 Zhonghang Electronic Measuring Instruments Major Business

2.32.3 Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque

Sensor Product and Services

2.32.4 Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque

Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share

(2019-2024)

2.32.5 Zhonghang Electronic Measuring Instruments Recent Developments/Updates

2.33 Shenzhen Ampron Technology

2.33.1 Shenzhen Ampron Technology Details

2.33.2 Shenzhen Ampron Technology Major Business

2.33.3 Shenzhen Ampron Technology Robot 6-axis Force Torque Sensor Product and Services

2.33.4 Shenzhen Ampron Technology Robot 6-axis Force Torque Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.33.5 Shenzhen Ampron Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ROBOT 6-AXIS FORCE TORQUE SENSOR BY MANUFACTURER

3.1 Global Robot 6-axis Force Torque Sensor Sales Quantity by Manufacturer (2019-2024)

3.2 Global Robot 6-axis Force Torque Sensor Revenue by Manufacturer (2019-2024)

3.3 Global Robot 6-axis Force Torque Sensor Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Robot 6-axis Force Torque Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Robot 6-axis Force Torque Sensor Manufacturer Market Share in 2023

3.4.3 Top 6 Robot 6-axis Force Torque Sensor Manufacturer Market Share in 2023

3.5 Robot 6-axis Force Torque Sensor Market: Overall Company Footprint Analysis

3.5.1 Robot 6-axis Force Torque Sensor Market: Region Footprint

3.5.2 Robot 6-axis Force Torque Sensor Market: Company Product Type Footprint

3.5.3 Robot 6-axis Force Torque Sensor Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Robot 6-axis Force Torque Sensor Market Size by Region

4.1.1 Global Robot 6-axis Force Torque Sensor Sales Quantity by Region (2019-2030)

4.1.2 Global Robot 6-axis Force Torque Sensor Consumption Value by Region (2019-2030)

4.1.3 Global Robot 6-axis Force Torque Sensor Average Price by Region (2019-2030)

- 4.2 North America Robot 6-axis Force Torque Sensor Consumption Value (2019-2030)
- 4.3 Europe Robot 6-axis Force Torque Sensor Consumption Value (2019-2030)
- 4.4 Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value (2019-2030)
- 4.5 South America Robot 6-axis Force Torque Sensor Consumption Value (2019-2030)
- 4.6 Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)
- 5.2 Global Robot 6-axis Force Torque Sensor Consumption Value by Type (2019-2030)
- 5.3 Global Robot 6-axis Force Torque Sensor Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)
- 6.2 Global Robot 6-axis Force Torque Sensor Consumption Value by Application (2019-2030)
- 6.3 Global Robot 6-axis Force Torque Sensor Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)
- 7.2 North America Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)
- 7.3 North America Robot 6-axis Force Torque Sensor Market Size by Country
 - 7.3.1 North America Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)

8.2 Europe Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)

8.3 Europe Robot 6-axis Force Torque Sensor Market Size by Country

8.3.1 Europe Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2030)

8.3.2 Europe Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Robot 6-axis Force Torque Sensor Market Size by Region

9.3.1 Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 South Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)

10.2 South America Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)

10.3 South America Robot 6-axis Force Torque Sensor Market Size by Country

10.3.1 South America Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2030)

10.3.2 South America Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Robot 6-axis Force Torque Sensor Market Size by Country

11.3.1 Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Robot 6-axis Force Torque Sensor Market Drivers

12.2 Robot 6-axis Force Torque Sensor Market Restraints

12.3 Robot 6-axis Force Torque Sensor Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Robot 6-axis Force Torque Sensor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Robot 6-axis Force Torque Sensor

13.3 Robot 6-axis Force Torque Sensor Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Robot 6-axis Force Torque Sensor Typical Distributors

14.3 Robot 6-axis Force Torque Sensor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Robot 6-axis Force Torque Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Robot 6-axis Force Torque Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. ATI Industrial Automation Basic Information, Manufacturing Base and Competitors

Table 4. ATI Industrial Automation Major Business

Table 5. ATI Industrial Automation Robot 6-axis Force Torque Sensor Product and Services

Table 6. ATI Industrial Automation Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. ATI Industrial Automation Recent Developments/Updates

Table 8. Schunk Basic Information, Manufacturing Base and Competitors

Table 9. Schunk Major Business

Table 10. Schunk Robot 6-axis Force Torque Sensor Product and Services

Table 11. Schunk Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Schunk Recent Developments/Updates

Table 13. Advanced Mechanical Technology Basic Information, Manufacturing Base and Competitors

Table 14. Advanced Mechanical Technology Major Business

Table 15. Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Product and Services

Table 16. Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Advanced Mechanical Technology Recent Developments/Updates

Table 18. Sunrise Instruments (SRI) Basic Information, Manufacturing Base and Competitors

Table 19. Sunrise Instruments (SRI) Major Business

Table 20. Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Product and Services

Table 21. Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Sales Quantity

(Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Sunrise Instruments (SRI) Recent Developments/Updates

Table 23. Kistler Basic Information, Manufacturing Base and Competitors

Table 24. Kistler Major Business

Table 25. Kistler Robot 6-axis Force Torque Sensor Product and Services

Table 26. Kistler Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Kistler Recent Developments/Updates

Table 28. Robotiq Basic Information, Manufacturing Base and Competitors

Table 29. Robotiq Major Business

Table 30. Robotiq Robot 6-axis Force Torque Sensor Product and Services

Table 31. Robotiq Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Robotiq Recent Developments/Updates

Table 33. Epson Basic Information, Manufacturing Base and Competitors

Table 34. Epson Major Business

Table 35. Epson Robot 6-axis Force Torque Sensor Product and Services

Table 36. Epson Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Epson Recent Developments/Updates

Table 38. Nordbo Robotics Basic Information, Manufacturing Base and Competitors

Table 39. Nordbo Robotics Major Business

Table 40. Nordbo Robotics Robot 6-axis Force Torque Sensor Product and Services

Table 41. Nordbo Robotics Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Nordbo Robotics Recent Developments/Updates

Table 43. ME-Me?systeme Basic Information, Manufacturing Base and Competitors

Table 44. ME-Me?systeme Major Business

Table 45. ME-Me?systeme Robot 6-axis Force Torque Sensor Product and Services

Table 46. ME-Me?systeme Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. ME-Me?systeme Recent Developments/Updates

Table 48. Wacoh-Tech Basic Information, Manufacturing Base and Competitors

Table 49. Wacoh-Tech Major Business

Table 50. Wacoh-Tech Robot 6-axis Force Torque Sensor Product and Services

Table 51. Wacoh-Tech Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Wacoh-Tech Recent Developments/Updates

Table 53. Kunwei Beijing Technology Basic Information, Manufacturing Base and Competitors

Table 54. Kunwei Beijing Technology Major Business

Table 55. Kunwei Beijing Technology Robot 6-axis Force Torque Sensor Product and Services

Table 56. Kunwei Beijing Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Kunwei Beijing Technology Recent Developments/Updates

Table 58. Shenzhen Xinjingcheng Sensing Technolog Basic Information, Manufacturing Base and Competitors

Table 59. Shenzhen Xinjingcheng Sensing Technolog Major Business

Table 60. Shenzhen Xinjingcheng Sensing Technolog Robot 6-axis Force Torque Sensor Product and Services

Table 61. Shenzhen Xinjingcheng Sensing Technolog Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Shenzhen Xinjingcheng Sensing Technolog Recent Developments/Updates

Table 63. Robotous Basic Information, Manufacturing Base and Competitors

Table 64. Robotous Major Business

Table 65. Robotous Robot 6-axis Force Torque Sensor Product and Services

Table 66. Robotous Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Robotous Recent Developments/Updates

Table 68. FUTEK Basic Information, Manufacturing Base and Competitors

Table 69. FUTEK Major Business

Table 70. FUTEK Robot 6-axis Force Torque Sensor Product and Services

Table 71. FUTEK Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. FUTEK Recent Developments/Updates

Table 73. Blue Point Touch (Beijing) Technology Basic Information, Manufacturing Base

and Competitors

Table 74. Blue Point Touch (Beijing) Technology Major Business

Table 75. Blue Point Touch (Beijing) Technology Robot 6-axis Force Torque Sensor Product and Services

Table 76. Blue Point Touch (Beijing) Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Blue Point Touch (Beijing) Technology Recent Developments/Updates

Table 78. Bota Systems Basic Information, Manufacturing Base and Competitors

Table 79. Bota Systems Major Business

Table 80. Bota Systems Robot 6-axis Force Torque Sensor Product and Services

Table 81. Bota Systems Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Bota Systems Recent Developments/Updates

Table 83. FANUC Basic Information, Manufacturing Base and Competitors

Table 84. FANUC Major Business

Table 85. FANUC Robot 6-axis Force Torque Sensor Product and Services

Table 86. FANUC Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. FANUC Recent Developments/Updates

Table 88. Changzhou Right Measurement and control system Basic Information, Manufacturing Base and Competitors

Table 89. Changzhou Right Measurement and control system Major Business

Table 90. Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Product and Services

Table 91. Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 92. Changzhou Right Measurement and control system Recent Developments/Updates

Table 93. Hypersen Technologies Basic Information, Manufacturing Base and Competitors

Table 94. Hypersen Technologies Major Business

Table 95. Hypersen Technologies Robot 6-axis Force Torque Sensor Product and Services

Table 96. Hypersen Technologies Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2019-2024)

Table 97. Hypersen Technologies Recent Developments/Updates

Table 98. Sintokogio Basic Information, Manufacturing Base and Competitors

Table 99. Sintokogio Major Business

Table 100. Sintokogio Robot 6-axis Force Torque Sensor Product and Services

Table 101. Sintokogio Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 102. Sintokogio Recent Developments/Updates

Table 103. Anhui Zhongke Mi Point Sensor Basic Information, Manufacturing Base and Competitors

Table 104. Anhui Zhongke Mi Point Sensor Major Business

Table 105. Anhui Zhongke Mi Point Sensor Robot 6-axis Force Torque Sensor Product and Services

Table 106. Anhui Zhongke Mi Point Sensor Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Anhui Zhongke Mi Point Sensor Recent Developments/Updates

Table 108. Nanjing Bio-inspired Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 109. Nanjing Bio-inspired Intelligent Technology Major Business

Table 110. Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services

Table 111. Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 112. Nanjing Bio-inspired Intelligent Technology Recent Developments/Updates

Table 113. Aidin Robotics Basic Information, Manufacturing Base and Competitors

Table 114. Aidin Robotics Major Business

Table 115. Aidin Robotics Robot 6-axis Force Torque Sensor Product and Services

Table 116. Aidin Robotics Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 117. Aidin Robotics Recent Developments/Updates

Table 118. OnRobot Basic Information, Manufacturing Base and Competitors

Table 119. OnRobot Major Business

Table 120. OnRobot Robot 6-axis Force Torque Sensor Product and Services

Table 121. OnRobot Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2019-2024)

Table 122. OnRobot Recent Developments/Updates

Table 123. Guangzhou Haozhi Industrial Basic Information, Manufacturing Base and Competitors

Table 124. Guangzhou Haozhi Industrial Major Business

Table 125. Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Product and Services

Table 126. Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 127. Guangzhou Haozhi Industrial Recent Developments/Updates

Table 128. Anhui Bioforcen Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 129. Anhui Bioforcen Intelligent Technology Major Business

Table 130. Anhui Bioforcen Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services

Table 131. Anhui Bioforcen Intelligent Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 132. Anhui Bioforcen Intelligent Technology Recent Developments/Updates

Table 133. Chongqing Luban Robotics Technology Research Institute Basic Information, Manufacturing Base and Competitors

Table 134. Chongqing Luban Robotics Technology Research Institute Major Business

Table 135. Chongqing Luban Robotics Technology Research Institute Robot 6-axis Force Torque Sensor Product and Services

Table 136. Chongqing Luban Robotics Technology Research Institute Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 137. Chongqing Luban Robotics Technology Research Institute Recent Developments/Updates

Table 138. Shenzhen Jia'an Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 139. Shenzhen Jia'an Intelligent Technology Major Business

Table 140. Shenzhen Jia'an Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services

Table 141. Shenzhen Jia'an Intelligent Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 142. Shenzhen Jia'an Intelligent Technology Recent Developments/Updates

Table 143. Torque Sensor Technology (Shenzhen) Basic Information, Manufacturing Base and Competitors

Table 144. Torque Sensor Technology (Shenzhen) Major Business

Table 145. Torque Sensor Technology (Shenzhen) Robot 6-axis Force Torque Sensor Product and Services

Table 146. Torque Sensor Technology (Shenzhen) Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 147. Torque Sensor Technology (Shenzhen) Recent Developments/Updates

Table 148. Beijing Zhengkai Instrument Basic Information, Manufacturing Base and Competitors

Table 149. Beijing Zhengkai Instrument Major Business

Table 150. Beijing Zhengkai Instrument Robot 6-axis Force Torque Sensor Product and Services

Table 151. Beijing Zhengkai Instrument Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 152. Beijing Zhengkai Instrument Recent Developments/Updates

Table 153. Keli Sensing Technology(Ningbo) Basic Information, Manufacturing Base and Competitors

Table 154. Keli Sensing Technology(Ningbo) Major Business

Table 155. Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Product and Services

Table 156. Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 157. Keli Sensing Technology(Ningbo) Recent Developments/Updates

Table 158. Zhonghang Electronic Measuring Instruments Basic Information, Manufacturing Base and Competitors

Table 159. Zhonghang Electronic Measuring Instruments Major Business

Table 160. Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque Sensor Product and Services

Table 161. Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 162. Zhonghang Electronic Measuring Instruments Recent Developments/Updates

Table 163. Shenzhen Ampron Technology Basic Information, Manufacturing Base and Competitors

Table 164. Shenzhen Ampron Technology Major Business

Table 165. Shenzhen Ampron Technology Robot 6-axis Force Torque Sensor Product and Services

Table 166. Shenzhen Ampron Technology Robot 6-axis Force Torque Sensor Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 167. Shenzhen Ampron Technology Recent Developments/Updates

Table 168. Global Robot 6-axis Force Torque Sensor Sales Quantity by Manufacturer (2019-2024) & (Units)

Table 169. Global Robot 6-axis Force Torque Sensor Revenue by Manufacturer (2019-2024) & (USD Million)

Table 170. Global Robot 6-axis Force Torque Sensor Average Price by Manufacturer (2019-2024) & (K US\$/Unit)

Table 171. Market Position of Manufacturers in Robot 6-axis Force Torque Sensor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023

Table 172. Head Office and Robot 6-axis Force Torque Sensor Production Site of Key Manufacturer

Table 173. Robot 6-axis Force Torque Sensor Market: Company Product Type Footprint

Table 174. Robot 6-axis Force Torque Sensor Market: Company Product Application Footprint

Table 175. Robot 6-axis Force Torque Sensor New Market Entrants and Barriers to Market Entry

Table 176. Robot 6-axis Force Torque Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 177. Global Robot 6-axis Force Torque Sensor Consumption Value by Region (2019-2023-2030) & (USD Million) & CAGR

Table 178. Global Robot 6-axis Force Torque Sensor Sales Quantity by Region (2019-2024) & (Units)

Table 179. Global Robot 6-axis Force Torque Sensor Sales Quantity by Region (2025-2030) & (Units)

Table 180. Global Robot 6-axis Force Torque Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 181. Global Robot 6-axis Force Torque Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 182. Global Robot 6-axis Force Torque Sensor Average Price by Region (2019-2024) & (K US\$/Unit)

Table 183. Global Robot 6-axis Force Torque Sensor Average Price by Region (2025-2030) & (K US\$/Unit)

Table 184. Global Robot 6-axis Force Torque Sensor Sales Quantity by Type

(2019-2024) & (Units)

Table 185. Global Robot 6-axis Force Torque Sensor Sales Quantity by Type
(2025-2030) & (Units)

Table 186. Global Robot 6-axis Force Torque Sensor Consumption Value by Type
(2019-2024) & (USD Million)

Table 187. Global Robot 6-axis Force Torque Sensor Consumption Value by Type
(2025-2030) & (USD Million)

Table 188. Global Robot 6-axis Force Torque Sensor Average Price by Type
(2019-2024) & (K US\$/Unit)

Table 189. Global Robot 6-axis Force Torque Sensor Average Price by Type
(2025-2030) & (K US\$/Unit)

Table 190. Global Robot 6-axis Force Torque Sensor Sales Quantity by Application
(2019-2024) & (Units)

Table 191. Global Robot 6-axis Force Torque Sensor Sales Quantity by Application
(2025-2030) & (Units)

Table 192. Global Robot 6-axis Force Torque Sensor Consumption Value by
Application (2019-2024) & (USD Million)

Table 193. Global Robot 6-axis Force Torque Sensor Consumption Value by
Application (2025-2030) & (USD Million)

Table 194. Global Robot 6-axis Force Torque Sensor Average Price by Application
(2019-2024) & (K US\$/Unit)

Table 195. Global Robot 6-axis Force Torque Sensor Average Price by Application
(2025-2030) & (K US\$/Unit)

Table 196. North America Robot 6-axis Force Torque Sensor Sales Quantity by Type
(2019-2024) & (Units)

Table 197. North America Robot 6-axis Force Torque Sensor Sales Quantity by Type
(2025-2030) & (Units)

Table 198. North America Robot 6-axis Force Torque Sensor Sales Quantity by
Application (2019-2024) & (Units)

Table 199. North America Robot 6-axis Force Torque Sensor Sales Quantity by
Application (2025-2030) & (Units)

Table 200. North America Robot 6-axis Force Torque Sensor Sales Quantity by Country
(2019-2024) & (Units)

Table 201. North America Robot 6-axis Force Torque Sensor Sales Quantity by Country
(2025-2030) & (Units)

Table 202. North America Robot 6-axis Force Torque Sensor Consumption Value by
Country (2019-2024) & (USD Million)

Table 203. North America Robot 6-axis Force Torque Sensor Consumption Value by
Country (2025-2030) & (USD Million)

Table 204. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2024) & (Units)

Table 205. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Type (2025-2030) & (Units)

Table 206. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2024) & (Units)

Table 207. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Application (2025-2030) & (Units)

Table 208. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2024) & (Units)

Table 209. Europe Robot 6-axis Force Torque Sensor Sales Quantity by Country (2025-2030) & (Units)

Table 210. Europe Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 211. Europe Robot 6-axis Force Torque Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 212. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2024) & (Units)

Table 213. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Type (2025-2030) & (Units)

Table 214. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2024) & (Units)

Table 215. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Application (2025-2030) & (Units)

Table 216. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Region (2019-2024) & (Units)

Table 217. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity by Region (2025-2030) & (Units)

Table 218. Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value by Region (2019-2024) & (USD Million)

Table 219. Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value by Region (2025-2030) & (USD Million)

Table 220. South America Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2024) & (Units)

Table 221. South America Robot 6-axis Force Torque Sensor Sales Quantity by Type (2025-2030) & (Units)

Table 222. South America Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2024) & (Units)

Table 223. South America Robot 6-axis Force Torque Sensor Sales Quantity by

Application (2025-2030) & (Units)

Table 224. South America Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2024) & (Units)

Table 225. South America Robot 6-axis Force Torque Sensor Sales Quantity by Country (2025-2030) & (Units)

Table 226. South America Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 227. South America Robot 6-axis Force Torque Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 228. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Type (2019-2024) & (Units)

Table 229. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Type (2025-2030) & (Units)

Table 230. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Application (2019-2024) & (Units)

Table 231. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Application (2025-2030) & (Units)

Table 232. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Country (2019-2024) & (Units)

Table 233. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity by Country (2025-2030) & (Units)

Table 234. Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value by Country (2019-2024) & (USD Million)

Table 235. Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value by Country (2025-2030) & (USD Million)

Table 236. Robot 6-axis Force Torque Sensor Raw Material

Table 237. Key Manufacturers of Robot 6-axis Force Torque Sensor Raw Materials

Table 238. Robot 6-axis Force Torque Sensor Typical Distributors

Table 239. Robot 6-axis Force Torque Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Robot 6-axis Force Torque Sensor Picture

Figure 2. Global Robot 6-axis Force Torque Sensor Revenue by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Robot 6-axis Force Torque Sensor Revenue Market Share by Type in 2023

Figure 4. Strain Gauge Type Examples

Figure 5. Piezoelectric/Capacitive Type Examples

Figure 6. Others Examples

Figure 7. Global Robot 6-axis Force Torque Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Robot 6-axis Force Torque Sensor Revenue Market Share by Application in 2023

Figure 9. Industrial Robots Examples

Figure 10. Medical Robots Examples

Figure 11. Automotive Field Examples

Figure 12. Humanoid Robots Examples

Figure 13. Others Examples

Figure 14. Global Robot 6-axis Force Torque Sensor Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Robot 6-axis Force Torque Sensor Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Robot 6-axis Force Torque Sensor Sales Quantity (2019-2030) & (Units)

Figure 17. Global Robot 6-axis Force Torque Sensor Price (2019-2030) & (K US\$/Unit)

Figure 18. Global Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Robot 6-axis Force Torque Sensor Revenue Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Robot 6-axis Force Torque Sensor by Manufacturer Sales (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Robot 6-axis Force Torque Sensor Manufacturer (Revenue) Market Share in 2023

Figure 22. Top 6 Robot 6-axis Force Torque Sensor Manufacturer (Revenue) Market Share in 2023

Figure 23. Global Robot 6-axis Force Torque Sensor Sales Quantity Market Share by

Region (2019-2030)

Figure 24. Global Robot 6-axis Force Torque Sensor Consumption Value Market Share by Region (2019-2030)

Figure 25. North America Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Robot 6-axis Force Torque Sensor Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Robot 6-axis Force Torque Sensor Average Price by Type (2019-2030) & (K US\$/Unit)

Figure 33. Global Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Robot 6-axis Force Torque Sensor Revenue Market Share by Application (2019-2030)

Figure 35. Global Robot 6-axis Force Torque Sensor Average Price by Application (2019-2030) & (K US\$/Unit)

Figure 36. North America Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Robot 6-axis Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 41. Canada Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 42. Mexico Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 43. Europe Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 44. Europe Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe Robot 6-axis Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 48. France Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 49. United Kingdom Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 50. Russia Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 51. Italy Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 52. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific Robot 6-axis Force Torque Sensor Consumption Value Market Share by Region (2019-2030)

Figure 56. China Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 57. Japan Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 58. South Korea Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 59. India Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 60. Southeast Asia Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 61. Australia Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 62. South America Robot 6-axis Force Torque Sensor Sales Quantity Market

Share by Type (2019-2030)

Figure 63. South America Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 64. South America Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Robot 6-axis Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 67. Argentina Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Robot 6-axis Force Torque Sensor Sales Quantity Market Share by Country (2019-2030)

Figure 71. Middle East & Africa Robot 6-axis Force Torque Sensor Consumption Value Market Share by Country (2019-2030)

Figure 72. Turkey Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 73. Egypt Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 75. South Africa Robot 6-axis Force Torque Sensor Consumption Value (2019-2030) & (USD Million)

Figure 76. Robot 6-axis Force Torque Sensor Market Drivers

Figure 77. Robot 6-axis Force Torque Sensor Market Restraints

Figure 78. Robot 6-axis Force Torque Sensor Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Robot 6-axis Force Torque Sensor in 2023

Figure 81. Manufacturing Process Analysis of Robot 6-axis Force Torque Sensor

Figure 82. Robot 6-axis Force Torque Sensor Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

I would like to order

Product name: Global Robot 6-axis Force Torque Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/R8255E8FC742EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/R8255E8FC742EN.html>