

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

<https://marketpublishers.com/r/6FAA02F43BAEEN.html>

Date: June 2025

Pages: 206

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

ID: 6FAA02F43BAEEN

Abstracts

According to our (Global Info Research) latest study, the global 6-Axis Force Torque Sensor market size was valued at US\$ 231 million in 2023 and is forecast to a readjusted size of USD 2277 million by 2030 with a CAGR of 39.6% during review period.

6-Axis Force Torque Sensor 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 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-directional forces and three-directional moments need to be measured simultaneously, the 6-Axis Force Torque Sensor came into being. With the public's knowledge of the comprehensive mechanical measurement advantages of the 6-Axis Force Torque Sensor and the rapid development of technology, the application field of the 6-Axis Force Torque 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 6-Axis Force Torque Sensor market has ushered in rapid development. According to the latest research data, the global sales of 6-Axis Force Torque 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 6-Axis Force Torque 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, 6-Axis Force Torque 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, 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 6-Axis Force Torque Sensor market. The application scenarios of 6-Axis Force Torque 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. 6-Axis Force Torque 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.

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 6-Axis Force Torque Sensor market will usher in broad development prospects.

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

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

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

Global 6-Axis Force Torque Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/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 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 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

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 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 6-Axis Force Torque Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 6-Axis Force Torque Sensor, with price, sales quantity, revenue, and global market share of 6-Axis Force Torque Sensor from 2019 to 2024.

Chapter 3, the 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 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 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 6-Axis Force Torque Sensor.

Chapter 14 and 15, to describe 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 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 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 6-Axis Force Torque Sensor Market Size & Forecast

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

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

1.5.3 Global 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 6-Axis Force Torque Sensor Product and Services

2.1.4 ATI Industrial Automation 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 6-Axis Force Torque Sensor Product and Services

2.2.4 Schunk 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 6-Axis Force Torque Sensor Product and Services

2.3.4 Advanced Mechanical Technology 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) 6-Axis Force Torque Sensor Product and Services

2.4.4 Sunrise Instruments (SRI) 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 6-Axis Force Torque Sensor Product and Services

2.5.4 Kistler 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 6-Axis Force Torque Sensor Product and Services

2.6.4 Robotiq 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 6-Axis Force Torque Sensor Product and Services

2.7.4 Epson 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 6-Axis Force Torque Sensor Product and Services
- 2.8.4 Nordbo Robotics 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 6-Axis Force Torque Sensor Product and Services
 - 2.9.4 ME-Me?systeme 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 6-Axis Force Torque Sensor Product and Services
 - 2.10.4 Wacoh-Tech 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 6-Axis Force Torque Sensor Product and Services
 - 2.11.4 Kunwei Beijing Technology 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 6-Axis Force Torque Sensor Product and Services
 - 2.12.4 Shenzhen Xinjingcheng Sensing Technolog 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 6-Axis Force Torque Sensor Product and Services

2.13.4 Robotous 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 6-Axis Force Torque Sensor Product and Services

2.14.4 FUTEK 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 6-Axis Force Torque Sensor Product and Services

2.15.4 Blue Point Touch (Beijing) Technology 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 6-Axis Force Torque Sensor Product and Services

2.16.4 Bota Systems 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 6-Axis Force Torque Sensor Product and Services

2.17.4 FANUC 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 6-Axis Force Torque Sensor Product and Services

2.18.4 Changzhou Right Measurement and control system 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 6-Axis Force Torque Sensor Product and Services

2.19.4 Hypersen Technologies 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 6-Axis Force Torque Sensor Product and Services

2.20.4 Sintokogio 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 6-Axis Force Torque Sensor Product and Services

2.21.4 Anhui Zhongke Mi Point Sensor 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 6-Axis Force Torque Sensor Product and Services

2.22.4 Nanjing Bio-inspired Intelligent Technology 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 6-Axis Force Torque Sensor Product and Services

2.23.4 Aidin Robotics 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 6-Axis Force Torque Sensor Product and Services
 - 2.24.4 OnRobot 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 6-Axis Force Torque Sensor Product and Services
 - 2.25.4 Guangzhou Haozhi Industrial 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 6-Axis Force Torque Sensor Product and Services
 - 2.26.4 Anhui Bioforcen Intelligent Technology 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 6-Axis Force Torque Sensor Product and Services
 - 2.27.4 Chongqing Luban Robotics Technology Research Institute 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 6-Axis Force Torque Sensor Product and Services

2.28.4 Shenzhen Jia'an Intelligent Technology 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) 6-Axis Force Torque Sensor Product and Services

2.29.4 Torque Sensor Technology (Shenzhen) 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 6-Axis Force Torque Sensor Product and Services

2.30.4 Beijing Zhengkai Instrument 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) 6-Axis Force Torque Sensor Product and Services

2.31.4 Keli Sensing Technology(Ningbo) 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 6-Axis Force Torque Sensor Product and Services

2.32.4 Zhonghang Electronic Measuring Instruments 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 6-Axis Force Torque Sensor Product and Services

2.33.4 Shenzhen Ampron Technology 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: 6-AXIS FORCE TORQUE SENSOR BY MANUFACTURER

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

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

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

3.4 Market Share Analysis (2023)

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

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

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

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

3.5.1 6-Axis Force Torque Sensor Market: Region Footprint

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

3.5.3 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 6-Axis Force Torque Sensor Market Size by Region

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

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

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

4.2 North America 6-Axis Force Torque Sensor Consumption Value (2019-2030)

4.3 Europe 6-Axis Force Torque Sensor Consumption Value (2019-2030)

4.4 Asia-Pacific 6-Axis Force Torque Sensor Consumption Value (2019-2030)

4.5 South America 6-Axis Force Torque Sensor Consumption Value (2019-2030)

4.6 Middle East & Africa 6-Axis Force Torque Sensor Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)

5.2 Global 6-Axis Force Torque Sensor Consumption Value by Type (2019-2030)

5.3 Global 6-Axis Force Torque Sensor Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global 6-Axis Force Torque Sensor Sales Quantity by Application (2019-2030)

6.2 Global 6-Axis Force Torque Sensor Consumption Value by Application (2019-2030)

6.3 Global 6-Axis Force Torque Sensor Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)

7.2 North America 6-Axis Force Torque Sensor Sales Quantity by Application
(2019-2030)

7.3 North America 6-Axis Force Torque Sensor Market Size by Country

7.3.1 North America 6-Axis Force Torque Sensor Sales Quantity by Country
(2019-2030)

7.3.2 North America 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 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)

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

8.3 Europe 6-Axis Force Torque Sensor Market Size by Country

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

8.3.2 Europe 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 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)

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

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

- 9.3.1 Asia-Pacific 6-Axis Force Torque Sensor Sales Quantity by Region (2019-2030)
- 9.3.2 Asia-Pacific 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 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)
- 10.2 South America 6-Axis Force Torque Sensor Sales Quantity by Application (2019-2030)
- 10.3 South America 6-Axis Force Torque Sensor Market Size by Country
 - 10.3.1 South America 6-Axis Force Torque Sensor Sales Quantity by Country (2019-2030)
 - 10.3.2 South America 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 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa 6-Axis Force Torque Sensor Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa 6-Axis Force Torque Sensor Market Size by Country
 - 11.3.1 Middle East & Africa 6-Axis Force Torque Sensor Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa 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 6-Axis Force Torque Sensor Market Drivers
- 12.2 6-Axis Force Torque Sensor Market Restraints
- 12.3 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 6-Axis Force Torque Sensor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of 6-Axis Force Torque Sensor
- 13.3 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 6-Axis Force Torque Sensor Typical Distributors
- 14.3 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 6-Axis Force Torque Sensor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global 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 6-Axis Force Torque Sensor Product and Services

Table 6. ATI Industrial Automation 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 11. Schunk 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 16. Advanced Mechanical Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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) 6-Axis Force Torque Sensor Product and Services

Table 21. Sunrise Instruments (SRI) 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 26. Kistler 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 31. Robotiq 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 36. Epson 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 41. Nordbo Robotics 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 46. ME-Me?systeme 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 51. Wacoh-Tech 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 56. Kunwei Beijing Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 61. Shenzhen Xinjingcheng Sensing Technolog 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 66. Robotous 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 71. FUTEK 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 76. Blue Point Touch (Beijing) Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 81. Bota Systems 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 86. FANUC 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 91. Changzhou Right Measurement and control system 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 96. Hypersen Technologies 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 101. Sintokogio 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and

Services

Table 106. Anhui Zhongke Mi Point Sensor 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 111. Nanjing Bio-inspired Intelligent Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 116. Aidin Robotics 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 121. OnRobot 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 126. Guangzhou Haozhi Industrial 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 131. Anhui Bioforcen Intelligent Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 136. Chongqing Luban Robotics Technology Research Institute 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 141. Shenzhen Jia'an Intelligent Technology 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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) 6-Axis Force Torque Sensor Product and Services

Table 146. Torque Sensor Technology (Shenzhen) 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 151. Beijing Zhengkai Instrument 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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) 6-Axis Force Torque Sensor Product and Services

Table 156. Keli Sensing Technology(Ningbo) 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

Table 161. Zhonghang Electronic Measuring Instruments 6-Axis Force Torque Sensor Sales Quantity (K Units), Average Price (USD/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 6-Axis Force Torque Sensor Product and Services

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

Table 167. Shenzhen Ampron Technology Recent Developments/Updates

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

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

Table 170. Global 6-Axis Force Torque Sensor Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 171. Market Position of Manufacturers in 6-Axis Force Torque Sensor, (Tier 1,

Tier 2, and Tier 3), Based on Revenue in 2023

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

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

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

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

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

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

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

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

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

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

Table 182. Global 6-Axis Force Torque Sensor Average Price by Region (2019-2024) & (USD/Unit)

Table 183. Global 6-Axis Force Torque Sensor Average Price by Region (2025-2030) & (USD/Unit)

Table 184. Global 6-Axis Force Torque Sensor Sales Quantity by Type (2019-2024) & (K Units)

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

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

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

Table 188. Global 6-Axis Force Torque Sensor Average Price by Type (2019-2024) & (USD/Unit)

Table 189. Global 6-Axis Force Torque Sensor Average Price by Type (2025-2030) & (USD/Unit)

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

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

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

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

Table 194. Global 6-Axis Force Torque Sensor Average Price by Application (2019-2024) & (USD/Unit)

Table 195. Global 6-Axis Force Torque Sensor Average Price by Application (2025-2030) & (USD/Unit)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 211. Europe 6-Axis Force Torque Sensor Consumption Value by Country

(2025-2030) & (USD Million)

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

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

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

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

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

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

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

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

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

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

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

Table 223. South America 6-Axis Force Torque Sensor Sales Quantity by Application
(2025-2030) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

Table 236. 6-Axis Force Torque Sensor Raw Material

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

Table 238. 6-Axis Force Torque Sensor Typical Distributors

Table 239. 6-Axis Force Torque Sensor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. 6-Axis Force Torque Sensor Picture

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

Figure 3. Global 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 6-Axis Force Torque Sensor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global 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 6-Axis Force Torque Sensor Consumption Value, (USD Million): 2019 & 2023 & 2030

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

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

Figure 17. Global 6-Axis Force Torque Sensor Price (2019-2030) & (USD/Unit)

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

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

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

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

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

Figure 23. Global 6-Axis Force Torque Sensor Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global 6-Axis Force Torque Sensor Consumption Value Market Share by

Region (2019-2030)

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

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

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

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

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

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

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

Figure 32. Global 6-Axis Force Torque Sensor Average Price by Type (2019-2030) & (USD/Unit)

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

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

Figure 35. Global 6-Axis Force Torque Sensor Average Price by Application (2019-2030) & (USD/Unit)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 62. South America 6-Axis Force Torque Sensor Sales Quantity Market Share by Type (2019-2030)

Figure 63. South America 6-Axis Force Torque Sensor Sales Quantity Market Share by

Application (2019-2030)

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

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

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

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

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

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

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

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

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

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

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

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

Figure 76. 6-Axis Force Torque Sensor Market Drivers

Figure 77. 6-Axis Force Torque Sensor Market Restraints

Figure 78. 6-Axis Force Torque Sensor Market Trends

Figure 79. Porters Five Forces Analysis

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

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

Figure 82. 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 6-Axis Force Torque Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/6FAA02F43BAEEN.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/6FAA02F43BAEEN.html>