

# Global Six-Dimensional Force Sensors Market Growth 2026-2032

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## Abstracts

The global Six-Dimensional Force Sensors market size is predicted to grow from US\$ 356 million in 2025 to US\$ 1905 million in 2032; it is expected to grow at a CAGR of 26.8% from 2026 to 2032.

In 2025, global Six-Dimensional Force Sensors production reached approximately 92,607 Units, with an average global market price of around 3,933 USD per Unit.

Six-Dimensional Force Sensors are precision sensors capable of simultaneously detecting force components in three directions ( $F_x$ ,  $F_y$ ,  $F_z$ ) and torque components in three directions ( $M_x$ ,  $M_y$ ,  $M_z$ ) in three-dimensional space, achieving complete perception of force information in all six degrees of freedom. They feature high precision, low coupling, and high dynamic response, and are widely used in industrial automation, precision assembly, aerospace testing, and medical surgical robots. They play a crucial role, especially in humanoid robots, where they are often mounted on wrists, ankles, joint ends, and hand actuators. These sensors sense walking gait impacts, object grasping forces, and human-robot interaction collision forces, enabling stable balance control, flexible operation, and safety protection. They are the core sensing components for humanoid robots to achieve human-like movement, fine manipulation, and environmental adaptation. With the recent explosive growth of the humanoid robot industry, Six-Dimensional Force Sensors are poised for significant growth.

The upstream core components of Six-Dimensional Force Sensors mainly include elastomers, strain gauges, and chips. Typical raw material suppliers include VPG, HBM, Huntsman, and BASF. Downstream applications are primarily in industrial robotic arms, humanoid robots, automotive, medical, and scientific research fields. Typical users

include AgiBot, Unitree Robotics, Leju (Shenzhen) Robot Technology, Tesla, FANUC, KUKA, and ABB.

The single-line production capacity of Six-Dimensional Force Sensors varies significantly due to factors such as raw material supply, product calibration technology, and the degree of automation in the production line, typically ranging from several thousand to tens of thousands of units. The industry gross profit margin for Six-Dimensional Force Sensors is generally between 35% and 45%.

Originally from the aerospace industry, Six-Dimensional Force Sensors were used to measure the aerodynamic characteristics of aircraft, including lift, drag, lateral forces, pitch moment, yaw moment, and roll moment. Because orthogonal forces and moments in three directions need to be measured simultaneously, Six-Dimensional Force Sensors were developed. As the comprehensive mechanical measurement advantages of Six-Dimensional Force Sensors became widely known, and with rapid technological advancements, their applications have gradually expanded to include detection, prevention, control, teaching, measurement, and protection.

Since Elon Musk proposed the concept of humanoid robots in 2021, the Six-Dimensional Force Sensor market has experienced rapid growth. According to our latest research data, global sales of Six-Dimensional Force Sensors are projected to reach nearly 90,000 units by 2025, with approximately 44,000 units sold in China, representing a year-on-year growth of over 107%. The global market for Six-Dimensional Force Sensors is projected to reach 1.32 million units by 2032, with China accounting for 710,000 units, representing a CAGR of 46% from 2026 to 2032. Currently, the high-end market for Six-Dimensional Force Sensors is dominated by international brands (ATI Industrial Automation, Epson, etc.), but their market share has been declining in recent years. Major Chinese manufacturers are represented by Yuli Instruments, Kunwei Technology, and Xinjingcheng, whose global market share continues to increase. Comparing product differences, Chinese manufacturers' products are largely on par with international manufacturers in terms of accuracy, but gaps remain in sensitivity, crosstalk, overload resistance, and inter-dimensional coupling error. In terms of price, Chinese brands offer better value for money.

Based on different measurement principles, force sensors can be categorized into Strain Gauge Type, Piezoelectric/Capacitive Type, and others. Among all force sensors, Strain Gauge Type has the widest sales volume, accounting for over 80% of the total Six-Dimensional Force Sensor market.

Six-Dimensional Force Sensors are widely used in the automotive industry for crash testing, wheel and seat component testing, as well as in aerospace, biomechanics, medical fields, scientific research, robotics, and industrial automation. In downstream applications, industrial automation (including traditional robots) accounts for the largest share of the market, but the humanoid robot industry is experiencing the fastest growth. According to our latest data, the global humanoid robot market is projected to grow at a CAGR of 58.1% from 2026 to 2032, while China's CAGR is even higher at 61%. In the long term, mass production of humanoid robots will be a major driver of growth for the Six-Dimensional Force Sensors market. Applications of Six-Dimensional Force Sensors in humanoid robots include force control, oscillation stabilization control, and safety control. Six-Dimensional Force Sensors can improve the precision and flexibility of humanoid robot hand operations and the stability of leg movement. Primarily installed at the end-effectors of wrists and ankles, they have become standard equipment in high-performance humanoid robots.

Currently, Six-Dimensional Force Sensors are the highest-dimensional force sensors. With their advantages of high precision, high sensitivity, high bandwidth, and high reliability, they can provide the most comprehensive force information and improve sensing accuracy. They play a vital role in many high-tech fields. In the future, with the continuous advancement of technology and the continuous expansion of downstream application areas, the Six-Dimensional Force Sensors market will usher in broad development prospects.

LP Information, Inc. (LPI) ' newest research report, the "Six-Dimensional Force Sensors Industry Forecast" looks at past sales and reviews total world Six-Dimensional Force Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Six-Dimensional Force Sensors sales for 2026 through 2032. With Six-Dimensional Force Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Six-Dimensional Force Sensors industry.

This Insight Report provides a comprehensive analysis of the global Six-Dimensional Force Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Six-Dimensional Force Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Six-Dimensional Force Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Six-Dimensional Force Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Six-Dimensional Force Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Six-Dimensional Force Sensors market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

#### Segmentation by Measuring Range:

Measuring Range: Below 100N

100 ? Measuring Range

500 ? Measuring Range ? 1000N

Measuring Range: Above 1000N

#### Segmentation by Accuracy(%FS):

0.1

0.2

0.3

Others

Segmentation by Application:

Industrial Robots

Medical Robots

Automotive Field

Humanoid Robots

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ATI Industrial Automation

Schunk

Advanced Mechanical Technology

Sunrise Instruments (SRI)

Epson

Link-touch (Beijing) Technology

Changzhou Kunwei Sensing Technology

Kistler

Robotiq

Shenzhen Xinjingcheng Sensing Technology

ME-Me?systeme

Wacoh-Tech

Nordbo Robotics

Bota Systems

FUTEK

Robotous

Anhui Zhongke Midian Sensor

Changzhou Right Measurement and Control System

Aidin Robotics

FANUC

Sintokogio

OnRobot

Keli Sensing Ningbo Technology

Guangzhou Haozhi Industrial

Hypersen Technologies

Zhonghang Electronic Measuring Instruments

Nanjing Bio-inspired Intelligent Technology

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Six-Dimensional Force Sensors market?

What factors are driving Six-Dimensional Force Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Six-Dimensional Force Sensors market opportunities vary by end market size?

How does Six-Dimensional Force Sensors break out by Type, by Application?



## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Six-Dimensional Force Sensors Annual Sales 2021-2032
  - 2.1.2 World Current & Future Analysis for Six-Dimensional Force Sensors by Geographic Region, 2021, 2025 & 2032
  - 2.1.3 World Current & Future Analysis for Six-Dimensional Force Sensors by Country/Region, 2021, 2025 & 2032
- 2.2 Six-Dimensional Force Sensors Segment by Type
  - 2.2.1 Strain Gauge Type
  - 2.2.2 Piezoelectric/Capacitive Type
  - 2.2.3 Others
  - 2.2.4 Six-Dimensional Force Sensors Sales by Type
    - 2.2.4.1 Global Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)
    - 2.2.4.2 Global Six-Dimensional Force Sensors Revenue and Market Share by Type (2021-2026)
    - 2.2.4.3 Global Six-Dimensional Force Sensors Sale Price by Type (2021-2026)
- 2.3 Six-Dimensional Force Sensors Segment by Measuring Range
  - 2.3.1 Measuring Range: Below 100N
  - 2.3.2 100 ? Measuring Range    2.3.3 500 ? Measuring Range ? 1000N
  - 2.3.4 Measuring Range: Above 1000N
  - 2.3.5 Six-Dimensional Force Sensors Sales by Measuring Range
    - 2.3.5.1 Global Six-Dimensional Force Sensors Sales Market Share by Measuring Range (2021-2026)
    - 2.3.5.2 Global Six-Dimensional Force Sensors Revenue and Market Share by

## Measuring Range (2021-2026)

### 2.3.5.3 Global Six-Dimensional Force Sensors Sale Price by Measuring Range (2021-2026)

## 2.4 Six-Dimensional Force Sensors Segment by Accuracy(%FS)

### 2.4.1 0.1

### 2.4.2 0.2

### 2.4.3 0.3

### 2.4.4 Others

### 2.4.5 Six-Dimensional Force Sensors Sales by Accuracy(%FS)

#### 2.4.5.1 Global Six-Dimensional Force Sensors Sales Market Share by Accuracy(%FS) (2021-2026)

#### 2.4.5.2 Global Six-Dimensional Force Sensors Revenue and Market Share by Accuracy(%FS) (2021-2026)

#### 2.4.5.3 Global Six-Dimensional Force Sensors Sale Price by Accuracy(%FS) (2021-2026)

## 2.5 Six-Dimensional Force Sensors Segment by Application

### 2.5.1 Industrial Robots

### 2.5.2 Medical Robots

### 2.5.3 Automotive Field

### 2.5.4 Humanoid Robots

### 2.5.5 Others

### 2.5.6 Six-Dimensional Force Sensors Sales by Application

#### 2.5.6.1 Global Six-Dimensional Force Sensors Sale Market Share by Application (2021-2026)

#### 2.5.6.2 Global Six-Dimensional Force Sensors Revenue and Market Share by Application (2021-2026)

#### 2.5.6.3 Global Six-Dimensional Force Sensors Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

### 3.1 Global Six-Dimensional Force Sensors Breakdown Data by Company

#### 3.1.1 Global Six-Dimensional Force Sensors Annual Sales by Company (2021-2026)

#### 3.1.2 Global Six-Dimensional Force Sensors Sales Market Share by Company (2021-2026)

### 3.2 Global Six-Dimensional Force Sensors Annual Revenue by Company (2021-2026)

#### 3.2.1 Global Six-Dimensional Force Sensors Revenue by Company (2021-2026)

#### 3.2.2 Global Six-Dimensional Force Sensors Revenue Market Share by Company (2021-2026)

### 3.3 Global Six-Dimensional Force Sensors Sale Price by Company

### 3.4 Key Manufacturers Six-Dimensional Force Sensors Producing Area Distribution, Sales Area, Product Type

#### 3.4.1 Key Manufacturers Six-Dimensional Force Sensors Product Location Distribution

#### 3.4.2 Players Six-Dimensional Force Sensors Products Offered

### 3.5 Market Concentration Rate Analysis

#### 3.5.1 Competition Landscape Analysis

#### 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

### 3.6 New Products and Potential Entrants

### 3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR SIX-DIMENSIONAL FORCE SENSORS BY GEOGRAPHIC REGION**

### 4.1 World Historic Six-Dimensional Force Sensors Market Size by Geographic Region (2021-2026)

#### 4.1.1 Global Six-Dimensional Force Sensors Annual Sales by Geographic Region (2021-2026)

#### 4.1.2 Global Six-Dimensional Force Sensors Annual Revenue by Geographic Region (2021-2026)

### 4.2 World Historic Six-Dimensional Force Sensors Market Size by Country/Region (2021-2026)

#### 4.2.1 Global Six-Dimensional Force Sensors Annual Sales by Country/Region (2021-2026)

#### 4.2.2 Global Six-Dimensional Force Sensors Annual Revenue by Country/Region (2021-2026)

### 4.3 Americas Six-Dimensional Force Sensors Sales Growth

### 4.4 APAC Six-Dimensional Force Sensors Sales Growth

### 4.5 Europe Six-Dimensional Force Sensors Sales Growth

### 4.6 Middle East & Africa Six-Dimensional Force Sensors Sales Growth

## **5 AMERICAS**

### 5.1 Americas Six-Dimensional Force Sensors Sales by Country

#### 5.1.1 Americas Six-Dimensional Force Sensors Sales by Country (2021-2026)

#### 5.1.2 Americas Six-Dimensional Force Sensors Revenue by Country (2021-2026)

### 5.2 Americas Six-Dimensional Force Sensors Sales by Type (2021-2026)

### 5.3 Americas Six-Dimensional Force Sensors Sales by Application (2021-2026)

### 5.4 United States

### 5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Six-Dimensional Force Sensors Sales by Region

6.1.1 APAC Six-Dimensional Force Sensors Sales by Region (2021-2026)

6.1.2 APAC Six-Dimensional Force Sensors Revenue by Region (2021-2026)

6.2 APAC Six-Dimensional Force Sensors Sales by Type (2021-2026)

6.3 APAC Six-Dimensional Force Sensors Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Six-Dimensional Force Sensors by Country

7.1.1 Europe Six-Dimensional Force Sensors Sales by Country (2021-2026)

7.1.2 Europe Six-Dimensional Force Sensors Revenue by Country (2021-2026)

7.2 Europe Six-Dimensional Force Sensors Sales by Type (2021-2026)

7.3 Europe Six-Dimensional Force Sensors Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Six-Dimensional Force Sensors by Country

8.1.1 Middle East & Africa Six-Dimensional Force Sensors Sales by Country  
(2021-2026)

8.1.2 Middle East & Africa Six-Dimensional Force Sensors Revenue by Country  
(2021-2026)

8.2 Middle East & Africa Six-Dimensional Force Sensors Sales by Type (2021-2026)

### 8.3 Middle East & Africa Six-Dimensional Force Sensors Sales by Application (2021-2026)

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

### 10.2 Manufacturing Cost Structure Analysis of Six-Dimensional Force Sensors

### 10.3 Manufacturing Process Analysis of Six-Dimensional Force Sensors

### 10.4 Industry Chain Structure of Six-Dimensional Force Sensors

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Six-Dimensional Force Sensors Distributors

### 11.3 Six-Dimensional Force Sensors Customer

## **12 WORLD FORECAST REVIEW FOR SIX-DIMENSIONAL FORCE SENSORS BY GEOGRAPHIC REGION**

### 12.1 Global Six-Dimensional Force Sensors Market Size Forecast by Region

#### 12.1.1 Global Six-Dimensional Force Sensors Forecast by Region (2027-2032)

#### 12.1.2 Global Six-Dimensional Force Sensors Annual Revenue Forecast by Region (2027-2032)

### 12.2 Americas Forecast by Country (2027-2032)

### 12.3 APAC Forecast by Region (2027-2032)

### 12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Six-Dimensional Force Sensors Forecast by Type (2027-2032)

12.7 Global Six-Dimensional Force Sensors Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

### **13.1 ATI Industrial Automation**

13.1.1 ATI Industrial Automation Company Information

13.1.2 ATI Industrial Automation Six-Dimensional Force Sensors Product Portfolios and Specifications

13.1.3 ATI Industrial Automation Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 ATI Industrial Automation Main Business Overview

13.1.5 ATI Industrial Automation Latest Developments

### **13.2 Schunk**

13.2.1 Schunk Company Information

13.2.2 Schunk Six-Dimensional Force Sensors Product Portfolios and Specifications

13.2.3 Schunk Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Schunk Main Business Overview

13.2.5 Schunk Latest Developments

### **13.3 Advanced Mechanical Technology**

13.3.1 Advanced Mechanical Technology Company Information

13.3.2 Advanced Mechanical Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

13.3.3 Advanced Mechanical Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Advanced Mechanical Technology Main Business Overview

13.3.5 Advanced Mechanical Technology Latest Developments

### **13.4 Sunrise Instruments (SRI)**

13.4.1 Sunrise Instruments (SRI) Company Information

13.4.2 Sunrise Instruments (SRI) Six-Dimensional Force Sensors Product Portfolios and Specifications

13.4.3 Sunrise Instruments (SRI) Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Sunrise Instruments (SRI) Main Business Overview

13.4.5 Sunrise Instruments (SRI) Latest Developments

### **13.5 Epson**

13.5.1 Epson Company Information

- 13.5.2 Epson Six-Dimensional Force Sensors Product Portfolios and Specifications
- 13.5.3 Epson Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Epson Main Business Overview
- 13.5.5 Epson Latest Developments
- 13.6 Link-touch (Beijing) Technology
  - 13.6.1 Link-touch (Beijing) Technology Company Information
  - 13.6.2 Link-touch (Beijing) Technology Six-Dimensional Force Sensors Product Portfolios and Specifications
  - 13.6.3 Link-touch (Beijing) Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 Link-touch (Beijing) Technology Main Business Overview
  - 13.6.5 Link-touch (Beijing) Technology Latest Developments
- 13.7 Changzhou Kunwei Sensing Technology
  - 13.7.1 Changzhou Kunwei Sensing Technology Company Information
  - 13.7.2 Changzhou Kunwei Sensing Technology Six-Dimensional Force Sensors Product Portfolios and Specifications
  - 13.7.3 Changzhou Kunwei Sensing Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Changzhou Kunwei Sensing Technology Main Business Overview
  - 13.7.5 Changzhou Kunwei Sensing Technology Latest Developments
- 13.8 Kistler
  - 13.8.1 Kistler Company Information
  - 13.8.2 Kistler Six-Dimensional Force Sensors Product Portfolios and Specifications
  - 13.8.3 Kistler Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 Kistler Main Business Overview
  - 13.8.5 Kistler Latest Developments
- 13.9 Robotiq
  - 13.9.1 Robotiq Company Information
  - 13.9.2 Robotiq Six-Dimensional Force Sensors Product Portfolios and Specifications
  - 13.9.3 Robotiq Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.9.4 Robotiq Main Business Overview
  - 13.9.5 Robotiq Latest Developments
- 13.10 Shenzhen Xinjingcheng Sensing Technology
  - 13.10.1 Shenzhen Xinjingcheng Sensing Technology Company Information
  - 13.10.2 Shenzhen Xinjingcheng Sensing Technology Six-Dimensional Force Sensors Product Portfolios and Specifications



13.10.3 Shenzhen Xinjingcheng Sensing Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Shenzhen Xinjingcheng Sensing Technology Main Business Overview

13.10.5 Shenzhen Xinjingcheng Sensing Technology Latest Developments

13.11 ME-Me?systeme

13.11.1 ME-Me?systeme Company Information

13.11.2 ME-Me?systeme Six-Dimensional Force Sensors Product Portfolios and Specifications

13.11.3 ME-Me?systeme Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 ME-Me?systeme Main Business Overview

13.11.5 ME-Me?systeme Latest Developments

13.12 Wacoh-Tech

13.12.1 Wacoh-Tech Company Information

13.12.2 Wacoh-Tech Six-Dimensional Force Sensors Product Portfolios and Specifications

13.12.3 Wacoh-Tech Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Wacoh-Tech Main Business Overview

13.12.5 Wacoh-Tech Latest Developments

13.13 Nordbo Robotics

13.13.1 Nordbo Robotics Company Information

13.13.2 Nordbo Robotics Six-Dimensional Force Sensors Product Portfolios and Specifications

13.13.3 Nordbo Robotics Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Nordbo Robotics Main Business Overview

13.13.5 Nordbo Robotics Latest Developments

13.14 Bota Systems

13.14.1 Bota Systems Company Information

13.14.2 Bota Systems Six-Dimensional Force Sensors Product Portfolios and Specifications

13.14.3 Bota Systems Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Bota Systems Main Business Overview

13.14.5 Bota Systems Latest Developments

13.15 FUTEK

13.15.1 FUTEK Company Information

13.15.2 FUTEK Six-Dimensional Force Sensors Product Portfolios and Specifications



13.15.3 FUTEK Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 FUTEK Main Business Overview

13.15.5 FUTEK Latest Developments

13.16 Robotous

13.16.1 Robotous Company Information

13.16.2 Robotous Six-Dimensional Force Sensors Product Portfolios and Specifications

13.16.3 Robotous Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Robotous Main Business Overview

13.16.5 Robotous Latest Developments

13.17 Anhui Zhongke Midian Sensor

13.17.1 Anhui Zhongke Midian Sensor Company Information

13.17.2 Anhui Zhongke Midian Sensor Six-Dimensional Force Sensors Product Portfolios and Specifications

13.17.3 Anhui Zhongke Midian Sensor Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Anhui Zhongke Midian Sensor Main Business Overview

13.17.5 Anhui Zhongke Midian Sensor Latest Developments

13.18 Changzhou Right Measurement and Control System

13.18.1 Changzhou Right Measurement and Control System Company Information

13.18.2 Changzhou Right Measurement and Control System Six-Dimensional Force Sensors Product Portfolios and Specifications

13.18.3 Changzhou Right Measurement and Control System Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Changzhou Right Measurement and Control System Main Business Overview

13.18.5 Changzhou Right Measurement and Control System Latest Developments

13.19 Aidin Robotics

13.19.1 Aidin Robotics Company Information

13.19.2 Aidin Robotics Six-Dimensional Force Sensors Product Portfolios and Specifications

13.19.3 Aidin Robotics Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Aidin Robotics Main Business Overview

13.19.5 Aidin Robotics Latest Developments

13.20 FANUC

13.20.1 FANUC Company Information

13.20.2 FANUC Six-Dimensional Force Sensors Product Portfolios and Specifications

13.20.3 FANUC Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 FANUC Main Business Overview

13.20.5 FANUC Latest Developments

13.21 Sintokogio

13.21.1 Sintokogio Company Information

13.21.2 Sintokogio Six-Dimensional Force Sensors Product Portfolios and Specifications

13.21.3 Sintokogio Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Sintokogio Main Business Overview

13.21.5 Sintokogio Latest Developments

13.22 OnRobot

13.22.1 OnRobot Company Information

13.22.2 OnRobot Six-Dimensional Force Sensors Product Portfolios and Specifications

13.22.3 OnRobot Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 OnRobot Main Business Overview

13.22.5 OnRobot Latest Developments

13.23 Keli Sensing Ningbo Technology

13.23.1 Keli Sensing Ningbo Technology Company Information

13.23.2 Keli Sensing Ningbo Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

13.23.3 Keli Sensing Ningbo Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Keli Sensing Ningbo Technology Main Business Overview

13.23.5 Keli Sensing Ningbo Technology Latest Developments

13.24 Guangzhou Haozhi Industrial

13.24.1 Guangzhou Haozhi Industrial Company Information

13.24.2 Guangzhou Haozhi Industrial Six-Dimensional Force Sensors Product Portfolios and Specifications

13.24.3 Guangzhou Haozhi Industrial Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Guangzhou Haozhi Industrial Main Business Overview

13.24.5 Guangzhou Haozhi Industrial Latest Developments

13.25 Hypersen Technologies

13.25.1 Hypersen Technologies Company Information

13.25.2 Hypersen Technologies Six-Dimensional Force Sensors Product Portfolios

and Specifications

13.25.3 Hypersen Technologies Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Hypersen Technologies Main Business Overview

13.25.5 Hypersen Technologies Latest Developments

13.26 Zhonghang Electronic Measuring Instruments

13.26.1 Zhonghang Electronic Measuring Instruments Company Information

13.26.2 Zhonghang Electronic Measuring Instruments Six-Dimensional Force Sensors Product Portfolios and Specifications

13.26.3 Zhonghang Electronic Measuring Instruments Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Zhonghang Electronic Measuring Instruments Main Business Overview

13.26.5 Zhonghang Electronic Measuring Instruments Latest Developments

13.27 Nanjing Bio-inspired Intelligent Technology

13.27.1 Nanjing Bio-inspired Intelligent Technology Company Information

13.27.2 Nanjing Bio-inspired Intelligent Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

13.27.3 Nanjing Bio-inspired Intelligent Technology Six-Dimensional Force Sensors Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Nanjing Bio-inspired Intelligent Technology Main Business Overview

13.27.5 Nanjing Bio-inspired Intelligent Technology Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Six-Dimensional Force Sensors Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Six-Dimensional Force Sensors Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Strain Gauge Type

Table 4. Major Players of Piezoelectric/Capacitive Type

Table 5. Major Players of Others

Table 6. Global Six-Dimensional Force Sensors Sales by Type (2021-2026) & (Units)

Table 7. Global Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)

Table 8. Global Six-Dimensional Force Sensors Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Six-Dimensional Force Sensors Revenue Market Share by Type (2021-2026)

Table 10. Global Six-Dimensional Force Sensors Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Measuring Range: Below 100N

Table 12. Major Players of 100 ? Measuring Range Table 13. Major Players of 500 ? Measuring Range ? 1000N

Table 14. Major Players of Measuring Range: Above 1000N

Table 15. Global Six-Dimensional Force Sensors Sales by Measuring Range (2021-2026) & (Units)

Table 16. Global Six-Dimensional Force Sensors Sales Market Share by Measuring Range (2021-2026)

Table 17. Global Six-Dimensional Force Sensors Revenue by Measuring Range (2021-2026) & (\$ million)

Table 18. Global Six-Dimensional Force Sensors Revenue Market Share by Measuring Range (2021-2026)

Table 19. Global Six-Dimensional Force Sensors Sale Price by Measuring Range (2021-2026) & (US\$/Unit)

Table 20. Major Players of 0.1

Table 21. Major Players of 0.2

Table 22. Major Players of 0.3

Table 23. Major Players of Others

Table 24. Global Six-Dimensional Force Sensors Sales by Accuracy(%FS) (2021-2026)

& (Units)

Table 25. Global Six-Dimensional Force Sensors Sales Market Share by Accuracy(%FS) (2021-2026)

Table 26. Global Six-Dimensional Force Sensors Revenue by Accuracy(%FS) (2021-2026) & (\$ million)

Table 27. Global Six-Dimensional Force Sensors Revenue Market Share by Accuracy(%FS) (2021-2026)

Table 28. Global Six-Dimensional Force Sensors Sale Price by Accuracy(%FS) (2021-2026) & (US\$/Unit)

Table 29. Global Six-Dimensional Force Sensors Sale by Application (2021-2026) & (Units)

Table 30. Global Six-Dimensional Force Sensors Sale Market Share by Application (2021-2026)

Table 31. Global Six-Dimensional Force Sensors Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Six-Dimensional Force Sensors Revenue Market Share by Application (2021-2026)

Table 33. Global Six-Dimensional Force Sensors Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Six-Dimensional Force Sensors Sales by Company (2021-2026) & (Units)

Table 35. Global Six-Dimensional Force Sensors Sales Market Share by Company (2021-2026)

Table 36. Global Six-Dimensional Force Sensors Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Six-Dimensional Force Sensors Revenue Market Share by Company (2021-2026)

Table 38. Global Six-Dimensional Force Sensors Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Six-Dimensional Force Sensors Producing Area Distribution and Sales Area

Table 40. Players Six-Dimensional Force Sensors Products Offered

Table 41. Six-Dimensional Force Sensors Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Six-Dimensional Force Sensors Sales by Geographic Region (2021-2026) & (Units)

Table 45. Global Six-Dimensional Force Sensors Sales Market Share Geographic

**Region (2021-2026)**

Table 46. Global Six-Dimensional Force Sensors Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Six-Dimensional Force Sensors Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Six-Dimensional Force Sensors Sales by Country/Region (2021-2026) & (Units)

Table 49. Global Six-Dimensional Force Sensors Sales Market Share by Country/Region (2021-2026)

Table 50. Global Six-Dimensional Force Sensors Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Six-Dimensional Force Sensors Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Six-Dimensional Force Sensors Sales by Country (2021-2026) & (Units)

Table 53. Americas Six-Dimensional Force Sensors Sales Market Share by Country (2021-2026)

Table 54. Americas Six-Dimensional Force Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Six-Dimensional Force Sensors Sales by Type (2021-2026) & (Units)

Table 56. Americas Six-Dimensional Force Sensors Sales by Application (2021-2026) & (Units)

Table 57. APAC Six-Dimensional Force Sensors Sales by Region (2021-2026) & (Units)

Table 58. APAC Six-Dimensional Force Sensors Sales Market Share by Region (2021-2026)

Table 59. APAC Six-Dimensional Force Sensors Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Six-Dimensional Force Sensors Sales by Type (2021-2026) & (Units)

Table 61. APAC Six-Dimensional Force Sensors Sales by Application (2021-2026) & (Units)

Table 62. Europe Six-Dimensional Force Sensors Sales by Country (2021-2026) & (Units)

Table 63. Europe Six-Dimensional Force Sensors Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Six-Dimensional Force Sensors Sales by Type (2021-2026) & (Units)

Table 65. Europe Six-Dimensional Force Sensors Sales by Application (2021-2026) & (Units)

Table 66. Middle East & Africa Six-Dimensional Force Sensors Sales by Country



(2021-2026) & (Units)

Table 67. Middle East & Africa Six-Dimensional Force Sensors Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa Six-Dimensional Force Sensors Sales by Type (2021-2026) & (Units)

Table 69. Middle East & Africa Six-Dimensional Force Sensors Sales by Application (2021-2026) & (Units)

Table 70. Key Market Drivers & Growth Opportunities of Six-Dimensional Force Sensors

Table 71. Key Market Challenges & Risks of Six-Dimensional Force Sensors

Table 72. Key Industry Trends of Six-Dimensional Force Sensors

Table 73. Six-Dimensional Force Sensors Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Six-Dimensional Force Sensors Distributors List

Table 76. Six-Dimensional Force Sensors Customer List

Table 77. Global Six-Dimensional Force Sensors Sales Forecast by Region (2027-2032) & (Units)

Table 78. Global Six-Dimensional Force Sensors Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas Six-Dimensional Force Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 80. Americas Six-Dimensional Force Sensors Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Six-Dimensional Force Sensors Sales Forecast by Region (2027-2032) & (Units)

Table 82. APAC Six-Dimensional Force Sensors Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe Six-Dimensional Force Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 84. Europe Six-Dimensional Force Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Six-Dimensional Force Sensors Sales Forecast by Country (2027-2032) & (Units)

Table 86. Middle East & Africa Six-Dimensional Force Sensors Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Six-Dimensional Force Sensors Sales Forecast by Type (2027-2032) & (Units)

Table 88. Global Six-Dimensional Force Sensors Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Six-Dimensional Force Sensors Sales Forecast by Application (2027-2032) & (Units)

Table 90. Global Six-Dimensional Force Sensors Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. ATI?Industrial?Automation Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 92. ATI?Industrial?Automation Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 93. ATI?Industrial?Automation Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. ATI?Industrial?Automation Main Business

Table 95. ATI?Industrial?Automation Latest Developments

Table 96. Schunk Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 97. Schunk Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 98. Schunk Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Schunk Main Business

Table 100. Schunk Latest Developments

Table 101. Advanced?Mechanical?Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 102. Advanced?Mechanical?Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 103. Advanced?Mechanical?Technology Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Advanced?Mechanical?Technology Main Business

Table 105. Advanced?Mechanical?Technology Latest Developments

Table 106. Sunrise Instruments (SRI) Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 107. Sunrise Instruments (SRI) Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 108. Sunrise Instruments (SRI) Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Sunrise Instruments (SRI) Main Business

Table 110. Sunrise Instruments (SRI) Latest Developments

Table 111. Epson Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 112. Epson Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 113. Epson Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million),



Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Epson Main Business

Table 115. Epson Latest Developments

Table 116. Link-touch (Beijing) Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 117. Link-touch (Beijing) Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 118. Link-touch (Beijing) Technology Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Link-touch (Beijing) Technology Main Business

Table 120. Link-touch (Beijing) Technology Latest Developments

Table 121. Changzhou Kunwei Sensing Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 122. Changzhou Kunwei Sensing Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 123. Changzhou Kunwei Sensing Technology Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Changzhou Kunwei Sensing Technology Main Business

Table 125. Changzhou Kunwei Sensing Technology Latest Developments

Table 126. Kistler Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 127. Kistler Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 128. Kistler Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Kistler Main Business

Table 130. Kistler Latest Developments

Table 131. Robotiq Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 132. Robotiq Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 133. Robotiq Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Robotiq Main Business

Table 135. Robotiq Latest Developments

Table 136. Shenzhen Xinjingcheng Sensing Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 137. Shenzhen Xinjingcheng Sensing Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 138. Shenzhen Xinjingcheng Sensing Technology Six-Dimensional Force

Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Shenzhen Xinjingcheng Sensing Technology Main Business

Table 140. Shenzhen Xinjingcheng Sensing Technology Latest Developments

Table 141. ME-Me?systeme Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 142. ME-Me?systeme Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 143. ME-Me?systeme Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. ME-Me?systeme Main Business

Table 145. ME-Me?systeme Latest Developments

Table 146. Wacoh-Tech Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 147. Wacoh-Tech Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 148. Wacoh-Tech Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Wacoh-Tech Main Business

Table 150. Wacoh-Tech Latest Developments

Table 151. Nordbo?Robotics Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 152. Nordbo?Robotics Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 153. Nordbo?Robotics Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. Nordbo?Robotics Main Business

Table 155. Nordbo?Robotics Latest Developments

Table 156. Bota?Systems Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 157. Bota?Systems Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 158. Bota?Systems Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Bota?Systems Main Business

Table 160. Bota?Systems Latest Developments

Table 161. FUTEK Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 162. FUTEK Six-Dimensional Force Sensors Product Portfolios and

## Specifications

Table 163. FUTEK Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. FUTEK Main Business

Table 165. FUTEK Latest Developments

Table 166. Robotous Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 167. Robotous Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 168. Robotous Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Robotous Main Business

Table 170. Robotous Latest Developments

Table 171. Anhui Zhongke Midian Sensor Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 172. Anhui Zhongke Midian Sensor Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 173. Anhui Zhongke Midian Sensor Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. Anhui Zhongke Midian Sensor Main Business

Table 175. Anhui Zhongke Midian Sensor Latest Developments

Table 176. Changzhou Right Measurement and Control System Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 177. Changzhou Right Measurement and Control System Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 178. Changzhou Right Measurement and Control System Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 179. Changzhou Right Measurement and Control System Main Business

Table 180. Changzhou Right Measurement and Control System Latest Developments

Table 181. Aidin?Robotics Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 182. Aidin?Robotics Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 183. Aidin?Robotics Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 184. Aidin?Robotics Main Business

Table 185. Aidin?Robotics Latest Developments

Table 186. FANUC Basic Information, Six-Dimensional Force Sensors Manufacturing

Base, Sales Area and Its Competitors

Table 187. FANUC Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 188. FANUC Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 189. FANUC Main Business

Table 190. FANUC Latest Developments

Table 191. Sintokogio Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 192. Sintokogio Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 193. Sintokogio Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 194. Sintokogio Main Business

Table 195. Sintokogio Latest Developments

Table 196. OnRobot Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 197. OnRobot Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 198. OnRobot Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 199. OnRobot Main Business

Table 200. OnRobot Latest Developments

Table 201. Keli Sensing Ningbo Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 202. Keli Sensing Ningbo Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 203. Keli Sensing Ningbo Technology Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 204. Keli Sensing Ningbo Technology Main Business

Table 205. Keli Sensing Ningbo Technology Latest Developments

Table 206. Guangzhou Haozhi Industrial Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 207. Guangzhou Haozhi Industrial Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 208. Guangzhou Haozhi Industrial Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 209. Guangzhou Haozhi Industrial Main Business

Table 210. Guangzhou Haozhi Industrial Latest Developments

Table 211. Hypersen Technologies Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 212. Hypersen Technologies Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 213. Hypersen Technologies Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 214. Hypersen Technologies Main Business

Table 215. Hypersen Technologies Latest Developments

Table 216. Zhonghang Electronic Measuring Instruments Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 217. Zhonghang Electronic Measuring Instruments Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 218. Zhonghang Electronic Measuring Instruments Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 219. Zhonghang Electronic Measuring Instruments Main Business

Table 220. Zhonghang Electronic Measuring Instruments Latest Developments

Table 221. Nanjing Bio-inspired Intelligent Technology Basic Information, Six-Dimensional Force Sensors Manufacturing Base, Sales Area and Its Competitors

Table 222. Nanjing Bio-inspired Intelligent Technology Six-Dimensional Force Sensors Product Portfolios and Specifications

Table 223. Nanjing Bio-inspired Intelligent Technology Six-Dimensional Force Sensors Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 224. Nanjing Bio-inspired Intelligent Technology Main Business

Table 225. Nanjing Bio-inspired Intelligent Technology Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Six-Dimensional Force Sensors
- Figure 2. Six-Dimensional Force Sensors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Six-Dimensional Force Sensors Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Six-Dimensional Force Sensors Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Six-Dimensional Force Sensors Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Six-Dimensional Force Sensors Sales Market Share by Country/Region (2025)
- Figure 10. Six-Dimensional Force Sensors Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Strain Gauge Type
- Figure 12. Product Picture of Piezoelectric/Capacitive Type
- Figure 13. Product Picture of Others
- Figure 14. Global Six-Dimensional Force Sensors Sales Market Share by Type in 2026
- Figure 15. Global Six-Dimensional Force Sensors Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Measuring Range: Below 100N
- Figure 17. Product Picture of 100 ? Measuring Range
- Figure 18. Product Picture of 500 ? Measuring Range
- Figure 19. Product Picture of Measuring Range: Above 1000N
- Figure 20. Global Six-Dimensional Force Sensors Sales Market Share by Measuring Range in 2026
- Figure 21. Global Six-Dimensional Force Sensors Revenue Market Share by Measuring Range (2021-2026)
- Figure 22. Product Picture of 0.1
- Figure 23. Product Picture of 0.2
- Figure 24. Product Picture of 0.3
- Figure 25. Product Picture of Others
- Figure 26. Global Six-Dimensional Force Sensors Sales Market Share by Accuracy(%FS) in 2026
- Figure 27. Global Six-Dimensional Force Sensors Revenue Market Share by



Accuracy(%FS) (2021-2026)

Figure 28. Six-Dimensional Force Sensors Consumed in Industrial Robots

Figure 29. Global Six-Dimensional Force Sensors Market: Industrial Robots (2021-2026) & (Units)

Figure 30. Six-Dimensional Force Sensors Consumed in Medical Robots

Figure 31. Global Six-Dimensional Force Sensors Market: Medical Robots (2021-2026) & (Units)

Figure 32. Six-Dimensional Force Sensors Consumed in Automotive Field

Figure 33. Global Six-Dimensional Force Sensors Market: Automotive Field (2021-2026) & (Units)

Figure 34. Six-Dimensional Force Sensors Consumed in Humanoid Robots

Figure 35. Global Six-Dimensional Force Sensors Market: Humanoid Robots (2021-2026) & (Units)

Figure 36. Six-Dimensional Force Sensors Consumed in Others

Figure 37. Global Six-Dimensional Force Sensors Market: Others (2021-2026) & (Units)

Figure 38. Global Six-Dimensional Force Sensors Sale Market Share by Application (2025)

Figure 39. Global Six-Dimensional Force Sensors Revenue Market Share by Application in 2025

Figure 40. Six-Dimensional Force Sensors Sales by Company in 2025 (Units)

Figure 41. Global Six-Dimensional Force Sensors Sales Market Share by Company in 2025

Figure 42. Six-Dimensional Force Sensors Revenue by Company in 2025 (\$ millions)

Figure 43. Global Six-Dimensional Force Sensors Revenue Market Share by Company in 2025

Figure 44. Global Six-Dimensional Force Sensors Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global Six-Dimensional Force Sensors Revenue Market Share by Geographic Region in 2025

Figure 46. Americas Six-Dimensional Force Sensors Sales 2021-2026 (Units)

Figure 47. Americas Six-Dimensional Force Sensors Revenue 2021-2026 (\$ millions)

Figure 48. APAC Six-Dimensional Force Sensors Sales 2021-2026 (Units)

Figure 49. APAC Six-Dimensional Force Sensors Revenue 2021-2026 (\$ millions)

Figure 50. Europe Six-Dimensional Force Sensors Sales 2021-2026 (Units)

Figure 51. Europe Six-Dimensional Force Sensors Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Six-Dimensional Force Sensors Sales 2021-2026 (Units)

Figure 53. Middle East & Africa Six-Dimensional Force Sensors Revenue 2021-2026 (\$ millions)



Figure 54. Americas Six-Dimensional Force Sensors Sales Market Share by Country in 2025

Figure 55. Americas Six-Dimensional Force Sensors Revenue Market Share by Country (2021-2026)

Figure 56. Americas Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)

Figure 57. Americas Six-Dimensional Force Sensors Sales Market Share by Application (2021-2026)

Figure 58. United States Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC Six-Dimensional Force Sensors Sales Market Share by Region in 2025

Figure 63. APAC Six-Dimensional Force Sensors Revenue Market Share by Region (2021-2026)

Figure 64. APAC Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)

Figure 65. APAC Six-Dimensional Force Sensors Sales Market Share by Application (2021-2026)

Figure 66. China Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 69. Southeast Asia Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 70. India Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 73. Europe Six-Dimensional Force Sensors Sales Market Share by Country in

2025

Figure 74. Europe Six-Dimensional Force Sensors Revenue Market Share by Country (2021-2026)

Figure 75. Europe Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)

Figure 76. Europe Six-Dimensional Force Sensors Sales Market Share by Application (2021-2026)

Figure 77. Germany Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 78. France Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa Six-Dimensional Force Sensors Sales Market Share by Country (2021-2026)

Figure 83. Middle East & Africa Six-Dimensional Force Sensors Sales Market Share by Type (2021-2026)

Figure 84. Middle East & Africa Six-Dimensional Force Sensors Sales Market Share by Application (2021-2026)

Figure 85. Egypt Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries Six-Dimensional Force Sensors Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of Six-Dimensional Force Sensors in 2026

Figure 91. Manufacturing Process Analysis of Six-Dimensional Force Sensors

Figure 92. Industry Chain Structure of Six-Dimensional Force Sensors

Figure 93. Channels of Distribution

Figure 94. Global Six-Dimensional Force Sensors Sales Market Forecast by Region (2027-2032)

Figure 95. Global Six-Dimensional Force Sensors Revenue Market Share Forecast by

Region (2027-2032)

Figure 96. Global Six-Dimensional Force Sensors Sales Market Share Forecast by Type (2027-2032)

Figure 97. Global Six-Dimensional Force Sensors Revenue Market Share Forecast by Type (2027-2032)

Figure 98. Global Six-Dimensional Force Sensors Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global Six-Dimensional Force Sensors Revenue Market Share Forecast by Application (2027-2032)

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