

Global Robot 6-axis Force Torque Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot 6-axis Force Torque Sensor market size is expected to reach \$ 2750 million by 2032, rising at a market growth of 37.0% CAGR during the forecast period (2026-2032).

Robot 6-axis Force Torque Sensor, full name Six Axis F/T Sensor, is a sensor that measures force and torque in the three directions of X, Y, and Z. Robot 6-axis Force Torque Sensor is currently mainly mounted on robotic arms. It detects all the information about the force acting in space, namely the three component forces and three torques F_x , F_y , F_z , M_x , M_y , and M_z formed in the spatial coordinate system, so as to accurately measure and control the force of the robotic arm. At present, the Robot 6-axis Force Torque Sensor market is in a rapid growth stage, mainly benefiting from the widespread application of robot technology and the improvement of intelligent demand. The statistical scope of this report is Robot 6-axis Force Torque Sensor for robots used in precision grinding, precision assembly, collaborative robots, humanoid robots and other fields.

The Robot 6-axis Force Torque Sensor originated from the aerospace industry and is used to measure the aerodynamic characteristics of aircraft, including lift, drag, lateral force, pitch moment, yaw moment, and roll moment. Since the orthogonal three-direction force and three-direction moment need to be measured simultaneously, the Robot 6-axis Force Torque Sensor came into being. As the comprehensive mechanical measurement advantages of the Robot 6-axis Force Torque Sensor are known to the public and the technology develops rapidly, the application field of the Robot 6-axis Force Torque Sensor has gradually expanded to detection, prevention, control, teaching, measurement, protection and other scenarios.

As a key component for precise force control and environmental perception of robots, the Robot 6-axis Force Torque Sensor market has ushered in rapid development since Musk proposed the concept of humanoid robots in 2021. From the application end, the industrial robot field (assembly, grinding, collaborative robots) is still the main application field at present, but with the advancement of technology, the demand for medical, humanoid robots and other fields is also increasing significantly.

According to the latest research data, the global Robot 6-axis Force Torque Sensor market was valued at US\$ 310.65 million in 2025 and is anticipated to reach US\$ 2,779.03 million by 2032, at a CAGR of 37.90% from 2026 to 2032.

Major global manufacturers of Robot 6-axis Force Torque Sensor include ATI Industrial Automation, Schunk, Sunrise Instruments (SRI), Epson, Changzhou Kunwei Sensing Technology, Link-touch (Beijing) Technology, Advanced Mechanical Technology, Shenzhen Xinjingcheng Sensing Technology and Robotiq, etc. In 2025, the world's top three vendors accounted for approximately 49.56% of revenue.

There are Several types of Robot 6-axis Force Torque Sensor. The market can be segmented into: Strain Gauge Type, Piezoelectric/Capacitive Type and Others. Strain Gauge Type is the most commonly used and efficient types and took 76.95% market share in 2025. By application, Industrial Robots Use is the largest downstream application areas, with consumption market share of 39.57% in 2025.

The production technology of the Robot 6-axis Force Torque Sensor is highly complex and inefficient, resulting in high prices and high profit margins. Compared to other force sensors, the Robot 6-axis Force Torque Sensor has the highest technological and financial barriers. Its core technologies include decoupling methods, a six-dimensional joint loading calibration and detection system, and reductions in zero-point drift and temperature drift. Furthermore, the Robot 6-axis Force Torque Sensor has a more complex manufacturing process than ordinary force sensors and is not yet fully automated; for example, manual operation is still required in the bonding stage. Finally, the Robot 6-axis Force Torque Sensor is resulting in high profit margins and ample room for price reductions. With the accelerated mass production of humanoid robots and the urgent expectation of price reductions, the six-dimensional force sensor market may be poised for a price war and a reshuffling of the industry.

This report studies the global Robot 6-axis Force Torque Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot 6-axis Force Torque Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robot 6-axis Force Torque Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robot 6-axis Force Torque Sensor total production and demand, 2021-2032, (Units)

Global Robot 6-axis Force Torque Sensor total production value, 2021-2032, (USD Million)

Global Robot 6-axis Force Torque Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Robot 6-axis Force Torque Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Robot 6-axis Force Torque Sensor domestic production, consumption, key domestic manufacturers and share

Global Robot 6-axis Force Torque Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Robot 6-axis Force Torque Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Robot 6-axis Force Torque Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Robot 6-axis Force Torque Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ATI Industrial Automation, Schunk, Sunrise Instruments (SRI), Epson, Changzhou Kunwei Sensing Technology, Link-touch (Beijing) Technology, Advanced Mechanical Technology, Shenzhen Xinjingcheng Sensing Technology, Robotiq, Kistler, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robot 6-axis Force Torque Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robot 6-axis Force Torque Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot 6-axis Force Torque Sensor Market, Segmentation by Type:

Strain Gauge Type

Piezoelectric/Capacitive Type

Others

Global Robot 6-axis Force Torque Sensor Market, Segmentation by Mounting Position:

End-Effector Mounted

Joint-Integrated

Foot/Wrist Embedded

Global Robot 6-axis Force Torque Sensor Market, Segmentation by Size:

Standard-Size Type

Miniaturized Type

Global Robot 6-axis Force Torque Sensor Market, Segmentation by Application:

Industrial Robots

Collaborative Robots

Medical Robots

Humanoid Robots

Others

Companies Profiled:

ATI Industrial Automation

Schunk

Sunrise Instruments (SRI)

Epson

Changzhou Kunwei Sensing Technology

Link-touch (Beijing) Technology

Advanced Mechanical Technology

Shenzhen Xinjingcheng Sensing Technology

Robotiq

Kistler

Wacoh-Tech

Bota Systems

FANUC

Nordbo Robotics

FUTEK

ME-Me?systeme

Robotous

Aidin Robotics

Sintokogio

OnRobot

Changzhou Right Measurement and control system

Keli Sensing Technolgy(Ningbo)

Guangzhou Haozhi Industrial

Hypersen Technologies

Anhui Zhongke Midian Sensor

Zhonghang Electronic Measuring Instruments

Nanjing Bio-inspired Intelligent Technology

Key Questions Answered:

1. How big is the global Robot 6-axis Force Torque Sensor market?
2. What is the demand of the global Robot 6-axis Force Torque Sensor market?
3. What is the year over year growth of the global Robot 6-axis Force Torque Sensor market?
4. What is the production and production value of the global Robot 6-axis Force Torque Sensor market?
5. Who are the key producers in the global Robot 6-axis Force Torque Sensor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Robot 6-axis Force Torque Sensor Introduction
- 1.2 World Robot 6-axis Force Torque Sensor Supply & Forecast
 - 1.2.1 World Robot 6-axis Force Torque Sensor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Robot 6-axis Force Torque Sensor Production (2021-2032)
 - 1.2.3 World Robot 6-axis Force Torque Sensor Pricing Trends (2021-2032)
- 1.3 World Robot 6-axis Force Torque Sensor Production by Region (Based on Production Site)
 - 1.3.1 World Robot 6-axis Force Torque Sensor Production Value by Region (2021-2032)
 - 1.3.2 World Robot 6-axis Force Torque Sensor Production by Region (2021-2032)
 - 1.3.3 World Robot 6-axis Force Torque Sensor Average Price by Region (2021-2032)
 - 1.3.4 North America Robot 6-axis Force Torque Sensor Production (2021-2032)
 - 1.3.5 Europe Robot 6-axis Force Torque Sensor Production (2021-2032)
 - 1.3.6 China Robot 6-axis Force Torque Sensor Production (2021-2032)
 - 1.3.7 Japan Robot 6-axis Force Torque Sensor Production (2021-2032)
 - 1.3.8 South Korea Robot 6-axis Force Torque Sensor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Robot 6-axis Force Torque Sensor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Robot 6-axis Force Torque Sensor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Robot 6-axis Force Torque Sensor Demand (2021-2032)
- 2.2 World Robot 6-axis Force Torque Sensor Consumption by Region
 - 2.2.1 World Robot 6-axis Force Torque Sensor Consumption by Region (2021-2026)
 - 2.2.2 World Robot 6-axis Force Torque Sensor Consumption Forecast by Region (2027-2032)
- 2.3 United States Robot 6-axis Force Torque Sensor Consumption (2021-2032)
- 2.4 China Robot 6-axis Force Torque Sensor Consumption (2021-2032)
- 2.5 Europe Robot 6-axis Force Torque Sensor Consumption (2021-2032)
- 2.6 Japan Robot 6-axis Force Torque Sensor Consumption (2021-2032)
- 2.7 South Korea Robot 6-axis Force Torque Sensor Consumption (2021-2032)
- 2.8 ASEAN Robot 6-axis Force Torque Sensor Consumption (2021-2032)

2.9 India Robot 6-axis Force Torque Sensor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Robot 6-axis Force Torque Sensor Production Value by Manufacturer (2021-2026)

3.2 World Robot 6-axis Force Torque Sensor Production by Manufacturer (2021-2026)

3.3 World Robot 6-axis Force Torque Sensor Average Price by Manufacturer (2021-2026)

3.4 Robot 6-axis Force Torque Sensor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Robot 6-axis Force Torque Sensor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Robot 6-axis Force Torque Sensor in 2025

3.5.3 Global Concentration Ratios (CR8) for Robot 6-axis Force Torque Sensor in 2025

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

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

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

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

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Robot 6-axis Force Torque Sensor Production Value Comparison

4.1.1 United States VS China: Robot 6-axis Force Torque Sensor Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Robot 6-axis Force Torque Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Robot 6-axis Force Torque Sensor Production Comparison

4.2.1 United States VS China: Robot 6-axis Force Torque Sensor Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Robot 6-axis Force Torque Sensor Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Robot 6-axis Force Torque Sensor Consumption Comparison

4.3.1 United States VS China: Robot 6-axis Force Torque Sensor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Robot 6-axis Force Torque Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Robot 6-axis Force Torque Sensor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Robot 6-axis Force Torque Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Robot 6-axis Force Torque Sensor Production (2021-2026)

4.5 China Based Robot 6-axis Force Torque Sensor Manufacturers and Market Share

4.5.1 China Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Robot 6-axis Force Torque Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers Robot 6-axis Force Torque Sensor Production (2021-2026)

4.6 Rest of World Based Robot 6-axis Force Torque Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Robot 6-axis Force Torque Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Strain Gauge Type

5.2.2 Piezoelectric/Capacitive Type

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Robot 6-axis Force Torque Sensor Production by Type (2021-2032)

5.3.2 World Robot 6-axis Force Torque Sensor Production Value by Type (2021-2032)

5.3.3 World Robot 6-axis Force Torque Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MOUNTING POSITION

6.1 World Robot 6-axis Force Torque Sensor Market Size Overview by Mounting Position: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Mounting Position

6.2.1 End-Effector Mounted

6.2.2 Joint-Integrated

6.2.3 Foot/Wrist Embedded

6.3 Market Segment by Mounting Position

6.3.1 World Robot 6-axis Force Torque Sensor Production by Mounting Position (2021-2032)

6.3.2 World Robot 6-axis Force Torque Sensor Production Value by Mounting Position (2021-2032)

6.3.3 World Robot 6-axis Force Torque Sensor Average Price by Mounting Position (2021-2032)

7 MARKET ANALYSIS BY SIZE

7.1 World Robot 6-axis Force Torque Sensor Market Size Overview by Size: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Size

7.2.1 Standard-Size Type

7.2.2 Miniaturized Type

7.3 Market Segment by Size

7.3.1 World Robot 6-axis Force Torque Sensor Production by Size (2021-2032)

7.3.2 World Robot 6-axis Force Torque Sensor Production Value by Size (2021-2032)

7.3.3 World Robot 6-axis Force Torque Sensor Average Price by Size (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Robot 6-axis Force Torque Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Robots

8.2.2 Collaborative Robots

8.2.3 Medical Robots

8.2.4 Humanoid Robots

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Robot 6-axis Force Torque Sensor Production by Application (2021-2032)

8.3.2 World Robot 6-axis Force Torque Sensor Production Value by Application (2021-2032)

8.3.3 World Robot 6-axis Force Torque Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 ATI Industrial Automation

9.1.1 ATI Industrial Automation Details

9.1.2 ATI Industrial Automation Major Business

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

9.1.4 ATI Industrial Automation Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 ATI Industrial Automation Recent Developments/Updates

9.1.6 ATI Industrial Automation Competitive Strengths & Weaknesses

9.2 Schunk

9.2.1 Schunk Details

9.2.2 Schunk Major Business

9.2.3 Schunk Robot 6-axis Force Torque Sensor Product and Services

9.2.4 Schunk Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Schunk Recent Developments/Updates

9.2.6 Schunk Competitive Strengths & Weaknesses

9.3 Sunrise Instruments (SRI)

9.3.1 Sunrise Instruments (SRI) Details

9.3.2 Sunrise Instruments (SRI) Major Business

9.3.3 Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Product and Services

9.3.4 Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sunrise Instruments (SRI) Recent Developments/Updates

9.3.6 Sunrise Instruments (SRI) Competitive Strengths & Weaknesses

9.4 Epson

9.4.1 Epson Details

9.4.2 Epson Major Business

9.4.3 Epson Robot 6-axis Force Torque Sensor Product and Services

9.4.4 Epson Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Epson Recent Developments/Updates

9.4.6 Epson Competitive Strengths & Weaknesses

9.5 Changzhou Kunwei Sensing Technology

9.5.1 Changzhou Kunwei Sensing Technology Details

9.5.2 Changzhou Kunwei Sensing Technology Major Business

9.5.3 Changzhou Kunwei Sensing Technology Robot 6-axis Force Torque Sensor Product and Services

9.5.4 Changzhou Kunwei Sensing Technology Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Changzhou Kunwei Sensing Technology Recent Developments/Updates

9.5.6 Changzhou Kunwei Sensing Technology Competitive Strengths & Weaknesses

9.6 Link-touch (Beijing) Technology

9.6.1 Link-touch (Beijing) Technology Details

9.6.2 Link-touch (Beijing) Technology Major Business

9.6.3 Link-touch (Beijing) Technology Robot 6-axis Force Torque Sensor Product and Services

9.6.4 Link-touch (Beijing) Technology Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Link-touch (Beijing) Technology Recent Developments/Updates

9.6.6 Link-touch (Beijing) Technology Competitive Strengths & Weaknesses

9.7 Advanced Mechanical Technology

9.7.1 Advanced Mechanical Technology Details

9.7.2 Advanced Mechanical Technology Major Business

9.7.3 Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Product and Services

9.7.4 Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Advanced Mechanical Technology Recent Developments/Updates

9.7.6 Advanced Mechanical Technology Competitive Strengths & Weaknesses

9.8 Shenzhen Xinjingcheng Sensing Technology

9.8.1 Shenzhen Xinjingcheng Sensing Technology Details

9.8.2 Shenzhen Xinjingcheng Sensing Technology Major Business

9.8.3 Shenzhen Xinjingcheng Sensing Technology Robot 6-axis Force Torque Sensor Product and Services

9.8.4 Shenzhen Xinjingcheng Sensing Technology Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Shenzhen Xinjingcheng Sensing Technology Recent Developments/Updates

9.8.6 Shenzhen Xinjingcheng Sensing Technology Competitive Strengths & Weaknesses

9.9 Robotiq

9.9.1 Robotiq Details

9.9.2 Robotiq Major Business

9.9.3 Robotiq Robot 6-axis Force Torque Sensor Product and Services

9.9.4 Robotiq Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Robotiq Recent Developments/Updates

9.9.6 Robotiq Competitive Strengths & Weaknesses

9.10 Kistler

9.10.1 Kistler Details

9.10.2 Kistler Major Business

9.10.3 Kistler Robot 6-axis Force Torque Sensor Product and Services

9.10.4 Kistler Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Kistler Recent Developments/Updates

9.10.6 Kistler Competitive Strengths & Weaknesses

9.11 Wacoh-Tech

9.11.1 Wacoh-Tech Details

9.11.2 Wacoh-Tech Major Business

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

9.11.4 Wacoh-Tech Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Wacoh-Tech Recent Developments/Updates

9.11.6 Wacoh-Tech Competitive Strengths & Weaknesses

9.12 Bota Systems

9.12.1 Bota Systems Details

9.12.2 Bota Systems Major Business

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

9.12.4 Bota Systems Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Bota Systems Recent Developments/Updates

9.12.6 Bota Systems Competitive Strengths & Weaknesses

9.13 FANUC

9.13.1 FANUC Details

9.13.2 FANUC Major Business

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

9.13.4 FANUC Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 FANUC Recent Developments/Updates

9.13.6 FANUC Competitive Strengths & Weaknesses

9.14 Nordbo Robotics

9.14.1 Nordbo Robotics Details

9.14.2 Nordbo Robotics Major Business

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

9.14.4 Nordbo Robotics Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Nordbo Robotics Recent Developments/Updates

9.14.6 Nordbo Robotics Competitive Strengths & Weaknesses

9.15 FUTEK

9.15.1 FUTEK Details

9.15.2 FUTEK Major Business

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

9.15.4 FUTEK Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 FUTEK Recent Developments/Updates

9.15.6 FUTEK Competitive Strengths & Weaknesses

9.16 ME-Me?systeme

9.16.1 ME-Me?systeme Details

9.16.2 ME-Me?systeme Major Business

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

9.16.4 ME-Me?systeme Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 ME-Me?systeme Recent Developments/Updates

9.16.6 ME-Me?systeme Competitive Strengths & Weaknesses

9.17 Robotous

9.17.1 Robotous Details

9.17.2 Robotous Major Business

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

9.17.4 Robotous Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Robotous Recent Developments/Updates

- 9.17.6 Robotous Competitive Strengths & Weaknesses
- 9.18 Aidin Robotics
 - 9.18.1 Aidin Robotics Details
 - 9.18.2 Aidin Robotics Major Business
 - 9.18.3 Aidin Robotics Robot 6-axis Force Torque Sensor Product and Services
 - 9.18.4 Aidin Robotics Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Aidin Robotics Recent Developments/Updates
 - 9.18.6 Aidin Robotics Competitive Strengths & Weaknesses
- 9.19 Sintokogio
 - 9.19.1 Sintokogio Details
 - 9.19.2 Sintokogio Major Business
 - 9.19.3 Sintokogio Robot 6-axis Force Torque Sensor Product and Services
 - 9.19.4 Sintokogio Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Sintokogio Recent Developments/Updates
 - 9.19.6 Sintokogio Competitive Strengths & Weaknesses
- 9.20 OnRobot
 - 9.20.1 OnRobot Details
 - 9.20.2 OnRobot Major Business
 - 9.20.3 OnRobot Robot 6-axis Force Torque Sensor Product and Services
 - 9.20.4 OnRobot Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 OnRobot Recent Developments/Updates
 - 9.20.6 OnRobot Competitive Strengths & Weaknesses
- 9.21 Changzhou Right Measurement and control system
 - 9.21.1 Changzhou Right Measurement and control system Details
 - 9.21.2 Changzhou Right Measurement and control system Major Business
 - 9.21.3 Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Product and Services
 - 9.21.4 Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Changzhou Right Measurement and control system Recent Developments/Updates
 - 9.21.6 Changzhou Right Measurement and control system Competitive Strengths & Weaknesses
- 9.22 Keli Sensing Technolgy(Ningbo)
 - 9.22.1 Keli Sensing Technolgy(Ningbo) Details
 - 9.22.2 Keli Sensing Technolgy(Ningbo) Major Business

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

9.22.4 Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Keli Sensing Technology(Ningbo) Recent Developments/Updates

9.22.6 Keli Sensing Technology(Ningbo) Competitive Strengths & Weaknesses

9.23 Guangzhou Haozhi Industrial

9.23.1 Guangzhou Haozhi Industrial Details

9.23.2 Guangzhou Haozhi Industrial Major Business

9.23.3 Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Product and Services

9.23.4 Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Guangzhou Haozhi Industrial Recent Developments/Updates

9.23.6 Guangzhou Haozhi Industrial Competitive Strengths & Weaknesses

9.24 Hypersen Technologies

9.24.1 Hypersen Technologies Details

9.24.2 Hypersen Technologies Major Business

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

9.24.4 Hypersen Technologies Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Hypersen Technologies Recent Developments/Updates

9.24.6 Hypersen Technologies Competitive Strengths & Weaknesses

9.25 Anhui Zhongke Midian Sensor

9.25.1 Anhui Zhongke Midian Sensor Details

9.25.2 Anhui Zhongke Midian Sensor Major Business

9.25.3 Anhui Zhongke Midian Sensor Robot 6-axis Force Torque Sensor Product and Services

9.25.4 Anhui Zhongke Midian Sensor Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.25.5 Anhui Zhongke Midian Sensor Recent Developments/Updates

9.25.6 Anhui Zhongke Midian Sensor Competitive Strengths & Weaknesses

9.26 Zhonghang Electronic Measuring Instruments

9.26.1 Zhonghang Electronic Measuring Instruments Details

9.26.2 Zhonghang Electronic Measuring Instruments Major Business

9.26.3 Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque Sensor Product and Services

9.26.4 Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque

Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.26.5 Zhonghang Electronic Measuring Instruments Recent Developments/Updates

9.26.6 Zhonghang Electronic Measuring Instruments Competitive Strengths & Weaknesses

9.27 Nanjing Bio-inspired Intelligent Technology

9.27.1 Nanjing Bio-inspired Intelligent Technology Details

9.27.2 Nanjing Bio-inspired Intelligent Technology Major Business

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

9.27.4 Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.27.5 Nanjing Bio-inspired Intelligent Technology Recent Developments/Updates

9.27.6 Nanjing Bio-inspired Intelligent Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Robot 6-axis Force Torque Sensor Industry Chain

10.2 Robot 6-axis Force Torque Sensor Upstream Analysis

10.2.1 Robot 6-axis Force Torque Sensor Core Raw Materials

10.2.2 Main Manufacturers of Robot 6-axis Force Torque Sensor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Robot 6-axis Force Torque Sensor Production Mode

10.6 Robot 6-axis Force Torque Sensor Procurement Model

10.7 Robot 6-axis Force Torque Sensor Industry Sales Model and Sales Channels

10.7.1 Robot 6-axis Force Torque Sensor Sales Model

10.7.2 Robot 6-axis Force Torque Sensor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Robot 6-axis Force Torque Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Robot 6-axis Force Torque Sensor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Robot 6-axis Force Torque Sensor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Robot 6-axis Force Torque Sensor Production Value Market Share by Region (2021-2026)
- Table 5. World Robot 6-axis Force Torque Sensor Production Value Market Share by Region (2027-2032)
- Table 6. World Robot 6-axis Force Torque Sensor Production by Region (2021-2026) & (Units)
- Table 7. World Robot 6-axis Force Torque Sensor Production by Region (2027-2032) & (Units)
- Table 8. World Robot 6-axis Force Torque Sensor Production Market Share by Region (2021-2026)
- Table 9. World Robot 6-axis Force Torque Sensor Production Market Share by Region (2027-2032)
- Table 10. World Robot 6-axis Force Torque Sensor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Robot 6-axis Force Torque Sensor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Robot 6-axis Force Torque Sensor Major Market Trends
- Table 13. World Robot 6-axis Force Torque Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World Robot 6-axis Force Torque Sensor Consumption by Region (2021-2026) & (Units)
- Table 15. World Robot 6-axis Force Torque Sensor Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World Robot 6-axis Force Torque Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Robot 6-axis Force Torque Sensor Producers in 2025
- Table 18. World Robot 6-axis Force Torque Sensor Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Robot 6-axis Force Torque Sensor Producers in 2025

Table 20. World Robot 6-axis Force Torque Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Robot 6-axis Force Torque Sensor Company Evaluation Quadrant

Table 22. World Robot 6-axis Force Torque Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Robot 6-axis Force Torque Sensor Production Site of Key Manufacturer

Table 24. Robot 6-axis Force Torque Sensor Market: Company Product Type Footprint

Table 25. Robot 6-axis Force Torque Sensor Market: Company Product Application Footprint

Table 26. Robot 6-axis Force Torque Sensor Competitive Factors

Table 27. Robot 6-axis Force Torque Sensor New Entrant and Capacity Expansion Plans

Table 28. Robot 6-axis Force Torque Sensor Mergers & Acquisitions Activity

Table 29. United States VS China Robot 6-axis Force Torque Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Robot 6-axis Force Torque Sensor Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Robot 6-axis Force Torque Sensor Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Robot 6-axis Force Torque Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Robot 6-axis Force Torque Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Robot 6-axis Force Torque Sensor Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share (2021-2026)

Table 37. China Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Robot 6-axis Force Torque Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Robot 6-axis Force Torque Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Robot 6-axis Force Torque Sensor Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based Robot 6-axis Force Torque Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share (2021-2026)

Table 47. World Robot 6-axis Force Torque Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Robot 6-axis Force Torque Sensor Production by Type (2021-2026) & (Units)

Table 49. World Robot 6-axis Force Torque Sensor Production by Type (2027-2032) & (Units)

Table 50. World Robot 6-axis Force Torque Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Robot 6-axis Force Torque Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Robot 6-axis Force Torque Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Robot 6-axis Force Torque Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Robot 6-axis Force Torque Sensor Production Value by Mounting Position, (USD Million), 2021 & 2025 & 2032

Table 55. World Robot 6-axis Force Torque Sensor Production by Mounting Position (2021-2026) & (Units)

Table 56. World Robot 6-axis Force Torque Sensor Production by Mounting Position (2027-2032) & (Units)

Table 57. World Robot 6-axis Force Torque Sensor Production Value by Mounting Position (2021-2026) & (USD Million)

Table 58. World Robot 6-axis Force Torque Sensor Production Value by Mounting Position (2027-2032) & (USD Million)

Table 59. World Robot 6-axis Force Torque Sensor Average Price by Mounting Position (2021-2026) & (US\$/Unit)

Table 60. World Robot 6-axis Force Torque Sensor Average Price by Mounting Position (2027-2032) & (US\$/Unit)

Table 61. World Robot 6-axis Force Torque Sensor Production Value by Size, (USD Million), 2021 & 2025 & 2032

Table 62. World Robot 6-axis Force Torque Sensor Production by Size (2021-2026) & (Units)

Table 63. World Robot 6-axis Force Torque Sensor Production by Size (2027-2032) & (Units)

Table 64. World Robot 6-axis Force Torque Sensor Production Value by Size (2021-2026) & (USD Million)

Table 65. World Robot 6-axis Force Torque Sensor Production Value by Size (2027-2032) & (USD Million)

Table 66. World Robot 6-axis Force Torque Sensor Average Price by Size (2021-2026) & (US\$/Unit)

Table 67. World Robot 6-axis Force Torque Sensor Average Price by Size (2027-2032) & (US\$/Unit)

Table 68. World Robot 6-axis Force Torque Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Robot 6-axis Force Torque Sensor Production by Application (2021-2026) & (Units)

Table 70. World Robot 6-axis Force Torque Sensor Production by Application (2027-2032) & (Units)

Table 71. World Robot 6-axis Force Torque Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Robot 6-axis Force Torque Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Robot 6-axis Force Torque Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Robot 6-axis Force Torque Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. ATI Industrial Automation Basic Information, Manufacturing Base and Competitors

Table 76. ATI Industrial Automation Major Business

Table 77. ATI Industrial Automation Robot 6-axis Force Torque Sensor Product and Services

Table 78. ATI Industrial Automation Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ATI Industrial Automation Recent Developments/Updates

Table 80. ATI Industrial Automation Competitive Strengths & Weaknesses

Table 81. Schunk Basic Information, Manufacturing Base and Competitors

Table 82. Schunk Major Business

Table 83. Schunk Robot 6-axis Force Torque Sensor Product and Services

Table 84. Schunk Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Schunk Recent Developments/Updates

Table 86. Schunk Competitive Strengths & Weaknesses

Table 87. Sunrise Instruments (SRI) Basic Information, Manufacturing Base and Competitors

Table 88. Sunrise Instruments (SRI) Major Business

Table 89. Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Product and Services

Table 90. Sunrise Instruments (SRI) Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sunrise Instruments (SRI) Recent Developments/Updates

Table 92. Sunrise Instruments (SRI) Competitive Strengths & Weaknesses

Table 93. Epson Basic Information, Manufacturing Base and Competitors

Table 94. Epson Major Business

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

Table 96. Epson Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Epson Recent Developments/Updates

Table 98. Epson Competitive Strengths & Weaknesses

Table 99. Changzhou Kunwei Sensing Technology Basic Information, Manufacturing Base and Competitors

Table 100. Changzhou Kunwei Sensing Technology Major Business

Table 101. Changzhou Kunwei Sensing Technology Robot 6-axis Force Torque Sensor Product and Services

Table 102. Changzhou Kunwei Sensing Technology Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Changzhou Kunwei Sensing Technology Recent Developments/Updates

Table 104. Changzhou Kunwei Sensing Technology Competitive Strengths & Weaknesses

Table 105. Link-touch (Beijing) Technology Basic Information, Manufacturing Base and

Competitors

Table 106. Link-touch (Beijing) Technology Major Business

Table 107. Link-touch (Beijing) Technology Robot 6-axis Force Torque Sensor Product and Services

Table 108. Link-touch (Beijing) Technology Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Link-touch (Beijing) Technology Recent Developments/Updates

Table 110. Link-touch (Beijing) Technology Competitive Strengths & Weaknesses

Table 111. Advanced Mechanical Technology Basic Information, Manufacturing Base and Competitors

Table 112. Advanced Mechanical Technology Major Business

Table 113. Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Product and Services

Table 114. Advanced Mechanical Technology Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Advanced Mechanical Technology Recent Developments/Updates

Table 116. Advanced Mechanical Technology Competitive Strengths & Weaknesses

Table 117. Shenzhen Xinjingcheng Sensing Technology Basic Information, Manufacturing Base and Competitors

Table 118. Shenzhen Xinjingcheng Sensing Technology Major Business

Table 119. Shenzhen Xinjingcheng Sensing Technology Robot 6-axis Force Torque Sensor Product and Services

Table 120. Shenzhen Xinjingcheng Sensing Technology Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shenzhen Xinjingcheng Sensing Technology Recent Developments/Updates

Table 122. Shenzhen Xinjingcheng Sensing Technology Competitive Strengths & Weaknesses

Table 123. Robotiq Basic Information, Manufacturing Base and Competitors

Table 124. Robotiq Major Business

Table 125. Robotiq Robot 6-axis Force Torque Sensor Product and Services

Table 126. Robotiq Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Robotiq Recent Developments/Updates

Table 128. Robotiq Competitive Strengths & Weaknesses

Table 129. Kistler Basic Information, Manufacturing Base and Competitors

Table 130. Kistler Major Business

Table 131. Kistler Robot 6-axis Force Torque Sensor Product and Services

Table 132. Kistler Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Kistler Recent Developments/Updates

Table 134. Kistler Competitive Strengths & Weaknesses

Table 135. Wacoh-Tech Basic Information, Manufacturing Base and Competitors

Table 136. Wacoh-Tech Major Business

Table 137. Wacoh-Tech Robot 6-axis Force Torque Sensor Product and Services

Table 138. Wacoh-Tech Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wacoh-Tech Recent Developments/Updates

Table 140. Wacoh-Tech Competitive Strengths & Weaknesses

Table 141. Bota Systems Basic Information, Manufacturing Base and Competitors

Table 142. Bota Systems Major Business

Table 143. Bota Systems Robot 6-axis Force Torque Sensor Product and Services

Table 144. Bota Systems Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Bota Systems Recent Developments/Updates

Table 146. Bota Systems Competitive Strengths & Weaknesses

Table 147. FANUC Basic Information, Manufacturing Base and Competitors

Table 148. FANUC Major Business

Table 149. FANUC Robot 6-axis Force Torque Sensor Product and Services

Table 150. FANUC Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. FANUC Recent Developments/Updates

Table 152. FANUC Competitive Strengths & Weaknesses

Table 153. Nordbo Robotics Basic Information, Manufacturing Base and Competitors

Table 154. Nordbo Robotics Major Business

Table 155. Nordbo Robotics Robot 6-axis Force Torque Sensor Product and Services

Table 156. Nordbo Robotics Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Nordbo Robotics Recent Developments/Updates

Table 158. Nordbo Robotics Competitive Strengths & Weaknesses

- Table 159. FUTEK Basic Information, Manufacturing Base and Competitors
- Table 160. FUTEK Major Business
- Table 161. FUTEK Robot 6-axis Force Torque Sensor Product and Services
- Table 162. FUTEK Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. FUTEK Recent Developments/Updates
- Table 164. FUTEK Competitive Strengths & Weaknesses
- Table 165. ME-Me?systeme Basic Information, Manufacturing Base and Competitors
- Table 166. ME-Me?systeme Major Business
- Table 167. ME-Me?systeme Robot 6-axis Force Torque Sensor Product and Services
- Table 168. ME-Me?systeme Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. ME-Me?systeme Recent Developments/Updates
- Table 170. ME-Me?systeme Competitive Strengths & Weaknesses
- Table 171. Robotous Basic Information, Manufacturing Base and Competitors
- Table 172. Robotous Major Business
- Table 173. Robotous Robot 6-axis Force Torque Sensor Product and Services
- Table 174. Robotous Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Robotous Recent Developments/Updates
- Table 176. Robotous Competitive Strengths & Weaknesses
- Table 177. Aidin Robotics Basic Information, Manufacturing Base and Competitors
- Table 178. Aidin Robotics Major Business
- Table 179. Aidin Robotics Robot 6-axis Force Torque Sensor Product and Services
- Table 180. Aidin Robotics Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Aidin Robotics Recent Developments/Updates
- Table 182. Aidin Robotics Competitive Strengths & Weaknesses
- Table 183. Sintokogio Basic Information, Manufacturing Base and Competitors
- Table 184. Sintokogio Major Business
- Table 185. Sintokogio Robot 6-axis Force Torque Sensor Product and Services
- Table 186. Sintokogio Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 187. Sintokogio Recent Developments/Updates

Table 188. Sintokogio Competitive Strengths & Weaknesses

Table 189. OnRobot Basic Information, Manufacturing Base and Competitors

Table 190. OnRobot Major Business

Table 191. OnRobot Robot 6-axis Force Torque Sensor Product and Services

Table 192. OnRobot Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. OnRobot Recent Developments/Updates

Table 194. OnRobot Competitive Strengths & Weaknesses

Table 195. Changzhou Right Measurement and control system Basic Information, Manufacturing Base and Competitors

Table 196. Changzhou Right Measurement and control system Major Business

Table 197. Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Product and Services

Table 198. Changzhou Right Measurement and control system Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Changzhou Right Measurement and control system Recent Developments/Updates

Table 200. Changzhou Right Measurement and control system Competitive Strengths & Weaknesses

Table 201. Keli Sensing Technology(Ningbo) Basic Information, Manufacturing Base and Competitors

Table 202. Keli Sensing Technology(Ningbo) Major Business

Table 203. Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Product and Services

Table 204. Keli Sensing Technology(Ningbo) Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Keli Sensing Technology(Ningbo) Recent Developments/Updates

Table 206. Keli Sensing Technology(Ningbo) Competitive Strengths & Weaknesses

Table 207. Guangzhou Haozhi Industrial Basic Information, Manufacturing Base and Competitors

Table 208. Guangzhou Haozhi Industrial Major Business

Table 209. Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Product and Services

Table 210. Guangzhou Haozhi Industrial Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Guangzhou Haozhi Industrial Recent Developments/Updates

Table 212. Guangzhou Haozhi Industrial Competitive Strengths & Weaknesses

Table 213. Hypersen Technologies Basic Information, Manufacturing Base and Competitors

Table 214. Hypersen Technologies Major Business

Table 215. Hypersen Technologies Robot 6-axis Force Torque Sensor Product and Services

Table 216. Hypersen Technologies Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Hypersen Technologies Recent Developments/Updates

Table 218. Hypersen Technologies Competitive Strengths & Weaknesses

Table 219. Anhui Zhongke Midian Sensor Basic Information, Manufacturing Base and Competitors

Table 220. Anhui Zhongke Midian Sensor Major Business

Table 221. Anhui Zhongke Midian Sensor Robot 6-axis Force Torque Sensor Product and Services

Table 222. Anhui Zhongke Midian Sensor Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Anhui Zhongke Midian Sensor Recent Developments/Updates

Table 224. Anhui Zhongke Midian Sensor Competitive Strengths & Weaknesses

Table 225. Zhonghang Electronic Measuring Instruments Basic Information, Manufacturing Base and Competitors

Table 226. Zhonghang Electronic Measuring Instruments Major Business

Table 227. Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque Sensor Product and Services

Table 228. Zhonghang Electronic Measuring Instruments Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Zhonghang Electronic Measuring Instruments Recent Developments/Updates

Table 230. Zhonghang Electronic Measuring Instruments Competitive Strengths & Weaknesses

Table 231. Nanjing Bio-inspired Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 232. Nanjing Bio-inspired Intelligent Technology Major Business

Table 233. Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Product and Services

Table 234. Nanjing Bio-inspired Intelligent Technology Robot 6-axis Force Torque Sensor Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Nanjing Bio-inspired Intelligent Technology Recent Developments/Updates

Table 236. Nanjing Bio-inspired Intelligent Technology Competitive Strengths & Weaknesses

Table 237. Global Key Players of Robot 6-axis Force Torque Sensor Upstream (Raw Materials)

Table 238. Global Robot 6-axis Force Torque Sensor Typical Customers

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

List Of Figures

LIST OF FIGURES

Figure 1. Robot 6-axis Force Torque Sensor Picture

Figure 2. World Robot 6-axis Force Torque Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Robot 6-axis Force Torque Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 5. World Robot 6-axis Force Torque Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Robot 6-axis Force Torque Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World Robot 6-axis Force Torque Sensor Production Market Share by Region (2021-2032)

Figure 8. North America Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 9. Europe Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 10. China Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 11. Japan Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 12. South Korea Robot 6-axis Force Torque Sensor Production (2021-2032) & (Units)

Figure 13. Robot 6-axis Force Torque Sensor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 16. World Robot 6-axis Force Torque Sensor Consumption Market Share by Region (2021-2032)

Figure 17. United States Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 18. China Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 19. Europe Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 20. Japan Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 21. South Korea Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 22. ASEAN Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 23. India Robot 6-axis Force Torque Sensor Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Robot 6-axis Force Torque Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Robot 6-axis Force Torque Sensor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Robot 6-axis Force Torque Sensor Markets in 2025

Figure 27. United States VS China: Robot 6-axis Force Torque Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Robot 6-axis Force Torque Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Robot 6-axis Force Torque Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share 2025

Figure 31. China Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Robot 6-axis Force Torque Sensor Production Market Share 2025

Figure 33. World Robot 6-axis Force Torque Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Robot 6-axis Force Torque Sensor Production Value Market Share by Type in 2025

Figure 35. Strain Gauge Type

Figure 36. Piezoelectric/Capacitive Type

Figure 37. Others

Figure 38. World Robot 6-axis Force Torque Sensor Production Market Share by Type (2021-2032)

Figure 39. World Robot 6-axis Force Torque Sensor Production Value Market Share by Type (2021-2032)

Figure 40. World Robot 6-axis Force Torque Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Robot 6-axis Force Torque Sensor Production Value by Mounting Position, (USD Million), 2021 & 2025 & 2032

Figure 42. World Robot 6-axis Force Torque Sensor Production Value Market Share by Mounting Position in 2025

Figure 43. End-Effector Mounted

Figure 44. Joint-Integrated

Figure 45. Foot/Wrist Embedded

Figure 46. World Robot 6-axis Force Torque Sensor Production Market Share by Mounting Position (2021-2032)

Figure 47. World Robot 6-axis Force Torque Sensor Production Value Market Share by Mounting Position (2021-2032)

Figure 48. World Robot 6-axis Force Torque Sensor Average Price by Mounting Position (2021-2032) & (US\$/Unit)

Figure 49. World Robot 6-axis Force Torque Sensor Production Value by Size, (USD Million), 2021 & 2025 & 2032

Figure 50. World Robot 6-axis Force Torque Sensor Production Value Market Share by Size in 2025

Figure 51. Standard-Size Type

Figure 52. Miniaturized Type

Figure 53. World Robot 6-axis Force Torque Sensor Production Market Share by Size (2021-2032)

Figure 54. World Robot 6-axis Force Torque Sensor Production Value Market Share by Size (2021-2032)

Figure 55. World Robot 6-axis Force Torque Sensor Average Price by Size (2021-2032) & (US\$/Unit)

Figure 56. World Robot 6-axis Force Torque Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Robot 6-axis Force Torque Sensor Production Value Market Share by Application in 2025

Figure 58. Industrial Robots

Figure 59. Collaborative Robots

Figure 60. Medical Robots

Figure 61. Humanoid Robots

Figure 62. Others

Figure 63. World Robot 6-axis Force Torque Sensor Production Market Share by Application (2021-2032)

Figure 64. World Robot 6-axis Force Torque Sensor Production Value Market Share by Application (2021-2032)

Figure 65. World Robot 6-axis Force Torque Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Robot 6-axis Force Torque Sensor Industry Chain

Figure 67. Robot 6-axis Force Torque Sensor Procurement Model

Figure 68. Robot 6-axis Force Torque Sensor Sales Model

Figure 69. Robot 6-axis Force Torque Sensor Sales Channels, Direct Sales, and

Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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