

Global Six-dimensional Torque Sensor for Robots Market Growth 2026-2032

<https://marketpublishers.com/r/G75F861C09E7EN.html>

Date: July 2026

Pages: 179

Price: US\$ 3,660.00 (Single User License)

ID: G75F861C09E7EN

Abstracts

The global Six-dimensional Torque Sensor for Robots market size is predicted to grow from US\$ 304 million in 2025 to US\$ 1854 million in 2032; it is expected to grow at a CAGR of 29.4% from 2026 to 2032.

In 2025, global Six-dimensional Torque Sensor for Robots production reached approximately 84310 Units, with an average global market price of around 3685 USD per Unit.

Six-dimensional Torque Sensor for Robots are precision sensing devices capable of simultaneously detecting force components along the three spatial axes (F_x , F_y , F_z) and torque components along the three rotational axes (M_x , M_y , M_z), thereby enabling the comprehensive perception of force-related information across six degrees of freedom. Typically comprising an elastic body structure, strain-sensitive elements, and signal acquisition and decoupling algorithm modules, these sensors translate mechanical deformation caused by applied forces into electrical signals to output precise, real-time, multi-dimensional force and torque data; they are characterized by high accuracy, low coupling, and high dynamic response capabilities. Six-dimensional force sensors are widely deployed across various fields including industrial robotics, collaborative robotics, and medical robotics and play a particularly critical role in humanoid robots. They are frequently mounted on wrists, ankles, joint extremities, and end-effectors (hands) to sense forces such as gait impact during walking, gripping force during object manipulation, and collision forces during human-robot interaction, thereby facilitating stable balance control, flexible manipulation, and safety protection. As core perception components enabling humanoid robots to achieve human-like locomotion, dexterous manipulation, and environmental adaptability, these six-dimensional force sensors have witnessed immense growth potential in recent years, driven by the

explosive expansion of the humanoid robotics industry.

The upstream core components of Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots 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 Torque Sensor for Robots is generally between 35% and 45%.

Since Elon Musk introduced the concept of humanoid robots in 2021, the market for Six-dimensional Torque Sensor for Robots has experienced rapid growth. According to our latest research data, global sales of Six-dimensional Torque Sensor for Robots are projected to reach nearly 84,000 units in 2025; of this total, China is expected to account for approximately 36,000 units—a year-on-year increase of over 70%. By 2032, global market sales are forecast to reach 1.25 million units, with China's sales reaching 650,000 units; this represents a compound annual growth rate (CAGR) of 49% for China's annual sales volume between 2026 and 2032. Currently, the high-end segment of the six-dimensional force sensor industry is dominated by players such as ATI Industrial Automation and Epson; however, their market share has been in steady decline over recent years. Meanwhile, major Chinese manufacturers—including Sunrise Instruments (SRI), Changzhou Kunwei Sensing Technology, and Shenzhen Xinjingcheng Sensing Technology—are experiencing rapid expansion, leading to a continuous increase in market share for these domestic brands. In terms of product differentiation, Chinese products have largely achieved parity with mainstream international offerings regarding precision; however, gaps still persist in areas such as sensitivity, crosstalk, overload resistance, and inter-axis coupling errors.

Based on measurement principles, these sensors can be categorized into strain gauge types, piezoelectric/capacitive types, and others. Among these, the strain gauge type is the most widely adopted, accounting for over 80% of total usage volume. Currently, companies utilizing strain gauge technology include ATI Industrial Automation, Schunk, ME-Meßsysteme, and Sintokogio; similarly, the vast majority of Chinese enterprises rely on this specific technical principle for the development of their six-dimensional force

sensors.

Regarding downstream applications, the industrial automation sector (including traditional robotics) currently accounts for the largest share of application volume; however, the humanoid robotics sector is exhibiting the fastest growth rate in application scale. According to our latest data, the global CAGR for the humanoid robotics sector is projected to reach 58.1% between 2026 and 2032, while China's CAGR for this segment is expected to reach an even higher 61%. From a long-term perspective, the mass production of humanoid robots is poised to become the primary driver of market growth. The specific applications of these sensors within humanoid robots include force control, swing stabilization, and safety monitoring; they serve to enhance the dexterity and flexibility of the robot's hand movements, as well as the stability of its bipedal locomotion. Typically installed at terminal joints—such as the wrists and ankles—these sensors have now become a standard feature in high-performance humanoid robots.

Currently, Six-dimensional Torque Sensor for Robots represent the highest-dimensional sensors available. Distinguished by their high precision, sensitivity, bandwidth, and reliability, they provide the most comprehensive force-sensing information and enhance measurement accuracy. Consequently, they play a pivotal role across a wide range of fields. Looking ahead, as technology continues to advance and downstream application sectors continue to expand, the market for Six-dimensional Torque Sensor for Robots is poised to enjoy broad prospects for future growth.

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

This Insight Report provides a comprehensive analysis of the global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Six-dimensional Torque Sensor for

Robots market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots.

This report presents a comprehensive overview, market shares, and growth opportunities of Six-dimensional Torque Sensor for Robots 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

Collaborative Robots

Medical Robots

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

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 Addressed in this Report

What is the 10-year outlook for the global Six-dimensional Torque Sensor for Robots market?

What factors are driving Six-dimensional Torque Sensor for Robots market growth, globally and by region?

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

How do Six-dimensional Torque Sensor for Robots market opportunities vary by end market size?

How does Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Six-dimensional Torque Sensor for Robots by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Six-dimensional Torque Sensor for Robots by Country/Region, 2021, 2025 & 2032

2.2 Six-dimensional Torque Sensor for Robots Segment by Type

- 2.2.1 Strain Gauge Type
- 2.2.2 Piezoelectric/Capacitive Type
- 2.2.3 Others
- 2.2.4 Six-dimensional Torque Sensor for Robots Sales by Type
 - 2.2.4.1 Global Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Six-dimensional Torque Sensor for Robots Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Six-dimensional Torque Sensor for Robots Sale Price by Type (2021-2026)

2.3 Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Measuring Range
 - 2.3.5.1 Global Six-dimensional Torque Sensor for Robots Sales Market Share by Measuring Range (2021-2026)

2.3.5.2 Global Six-dimensional Torque Sensor for Robots Revenue and Market Share by Measuring Range (2021-2026)

2.3.5.3 Global Six-dimensional Torque Sensor for Robots Sale Price by Measuring Range (2021-2026)

2.4 Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Accuracy(%FS)

2.4.5.1 Global Six-dimensional Torque Sensor for Robots Sales Market Share by Accuracy(%FS) (2021-2026)

2.4.5.2 Global Six-dimensional Torque Sensor for Robots Revenue and Market Share by Accuracy(%FS) (2021-2026)

2.4.5.3 Global Six-dimensional Torque Sensor for Robots Sale Price by Accuracy(%FS) (2021-2026)

2.5 Six-dimensional Torque Sensor for Robots Segment by Application

2.5.1 Industrial Robots

2.5.2 Collaborative Robots

2.5.3 Medical Robots

2.5.4 Humanoid Robots

2.5.5 Others

2.5.6 Six-dimensional Torque Sensor for Robots Sales by Application

2.5.6.1 Global Six-dimensional Torque Sensor for Robots Sale Market Share by Application (2021-2026)

2.5.6.2 Global Six-dimensional Torque Sensor for Robots Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Six-dimensional Torque Sensor for Robots Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Six-dimensional Torque Sensor for Robots Breakdown Data by Company

3.1.1 Global Six-dimensional Torque Sensor for Robots Annual Sales by Company (2021-2026)

3.1.2 Global Six-dimensional Torque Sensor for Robots Sales Market Share by Company (2021-2026)

3.2 Global Six-dimensional Torque Sensor for Robots Annual Revenue by Company (2021-2026)

3.2.1 Global Six-dimensional Torque Sensor for Robots Revenue by Company (2021-2026)

3.2.2 Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Company (2021-2026)

3.3 Global Six-dimensional Torque Sensor for Robots Sale Price by Company

3.4 Key Manufacturers Six-dimensional Torque Sensor for Robots Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Six-dimensional Torque Sensor for Robots Product Location Distribution

3.4.2 Players Six-dimensional Torque Sensor for Robots 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 TORQUE SENSOR FOR ROBOTS BY GEOGRAPHIC REGION

4.1 World Historic Six-dimensional Torque Sensor for Robots Market Size by Geographic Region (2021-2026)

4.1.1 Global Six-dimensional Torque Sensor for Robots Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Six-dimensional Torque Sensor for Robots Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Six-dimensional Torque Sensor for Robots Market Size by Country/Region (2021-2026)

4.2.1 Global Six-dimensional Torque Sensor for Robots Annual Sales by Country/Region (2021-2026)

4.2.2 Global Six-dimensional Torque Sensor for Robots Annual Revenue by Country/Region (2021-2026)

4.3 Americas Six-dimensional Torque Sensor for Robots Sales Growth

4.4 APAC Six-dimensional Torque Sensor for Robots Sales Growth

4.5 Europe Six-dimensional Torque Sensor for Robots Sales Growth

4.6 Middle East & Africa Six-dimensional Torque Sensor for Robots Sales Growth

5 AMERICAS

5.1 Americas Six-dimensional Torque Sensor for Robots Sales by Country

5.1.1 Americas Six-dimensional Torque Sensor for Robots Sales by Country
(2021-2026)

5.1.2 Americas Six-dimensional Torque Sensor for Robots Revenue by Country
(2021-2026)

5.2 Americas Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026)

5.3 Americas Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Region

6.1.1 APAC Six-dimensional Torque Sensor for Robots Sales by Region (2021-2026)

6.1.2 APAC Six-dimensional Torque Sensor for Robots Revenue by Region
(2021-2026)

6.2 APAC Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026)

6.3 APAC Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots by Country

7.1.1 Europe Six-dimensional Torque Sensor for Robots Sales by Country
(2021-2026)

7.1.2 Europe Six-dimensional Torque Sensor for Robots Revenue by Country
(2021-2026)

7.2 Europe Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026)

7.3 Europe Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots by Country

8.1.1 Middle East & Africa Six-dimensional Torque Sensor for Robots Sales by Country (2021-2026)

8.1.2 Middle East & Africa Six-dimensional Torque Sensor for Robots Revenue by Country (2021-2026)

8.2 Middle East & Africa Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026)

8.3 Middle East & Africa Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots

10.3 Manufacturing Process Analysis of Six-dimensional Torque Sensor for Robots

10.4 Industry Chain Structure of Six-dimensional Torque Sensor for Robots

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Six-dimensional Torque Sensor for Robots Distributors
- 11.3 Six-dimensional Torque Sensor for Robots Customer

12 WORLD FORECAST REVIEW FOR SIX-DIMENSIONAL TORQUE SENSOR FOR ROBOTS BY GEOGRAPHIC REGION

- 12.1 Global Six-dimensional Torque Sensor for Robots Market Size Forecast by Region
 - 12.1.1 Global Six-dimensional Torque Sensor for Robots Forecast by Region (2027-2032)
 - 12.1.2 Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Forecast by Type (2027-2032)
- 12.7 Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Product Portfolios and Specifications
 - 13.1.3 ATI Industrial Automation Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Product Portfolios and Specifications
 - 13.2.3 Schunk Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Schunk Main Business Overview
 - 13.2.5 Schunk Latest Developments

13.3 Sunrise Instruments (SRI)

13.3.1 Sunrise Instruments (SRI) Company Information

13.3.2 Sunrise Instruments (SRI) Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.3.3 Sunrise Instruments (SRI) Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Sunrise Instruments (SRI) Main Business Overview

13.3.5 Sunrise Instruments (SRI) Latest Developments

13.4 Epson

13.4.1 Epson Company Information

13.4.2 Epson Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.4.3 Epson Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Epson Main Business Overview

13.4.5 Epson Latest Developments

13.5 Changzhou Kunwei Sensing Technology

13.5.1 Changzhou Kunwei Sensing Technology Company Information

13.5.2 Changzhou Kunwei Sensing Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.5.3 Changzhou Kunwei Sensing Technology Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Changzhou Kunwei Sensing Technology Main Business Overview

13.5.5 Changzhou Kunwei Sensing Technology 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 Torque Sensor for Robots Product Portfolios and Specifications

13.6.3 Link-touch (Beijing) Technology Six-dimensional Torque Sensor for Robots 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 Advanced Mechanical Technology

13.7.1 Advanced Mechanical Technology Company Information

13.7.2 Advanced Mechanical Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.7.3 Advanced Mechanical Technology Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Advanced Mechanical Technology Main Business Overview

- 13.7.5 Advanced Mechanical Technology Latest Developments
- 13.8 Shenzhen Xinjingcheng Sensing Technology
 - 13.8.1 Shenzhen Xinjingcheng Sensing Technology Company Information
 - 13.8.2 Shenzhen Xinjingcheng Sensing Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.8.3 Shenzhen Xinjingcheng Sensing Technology Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Shenzhen Xinjingcheng Sensing Technology Main Business Overview
 - 13.8.5 Shenzhen Xinjingcheng Sensing Technology Latest Developments
- 13.9 Robotiq
 - 13.9.1 Robotiq Company Information
 - 13.9.2 Robotiq Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.9.3 Robotiq Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Robotiq Main Business Overview
 - 13.9.5 Robotiq Latest Developments
- 13.10 Kistler
 - 13.10.1 Kistler Company Information
 - 13.10.2 Kistler Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.10.3 Kistler Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Kistler Main Business Overview
 - 13.10.5 Kistler Latest Developments
- 13.11 Wacoh-Tech
 - 13.11.1 Wacoh-Tech Company Information
 - 13.11.2 Wacoh-Tech Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.11.3 Wacoh-Tech Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Wacoh-Tech Main Business Overview
 - 13.11.5 Wacoh-Tech Latest Developments
- 13.12 Bota Systems
 - 13.12.1 Bota Systems Company Information
 - 13.12.2 Bota Systems Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.12.3 Bota Systems Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.12.4 Bota Systems Main Business Overview
- 13.12.5 Bota Systems Latest Developments
- 13.13 FANUC
 - 13.13.1 FANUC Company Information
 - 13.13.2 FANUC Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.13.3 FANUC Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 FANUC Main Business Overview
 - 13.13.5 FANUC Latest Developments
- 13.14 Nordbo Robotics
 - 13.14.1 Nordbo Robotics Company Information
 - 13.14.2 Nordbo Robotics Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.14.3 Nordbo Robotics Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Nordbo Robotics Main Business Overview
 - 13.14.5 Nordbo Robotics Latest Developments
- 13.15 FUTEK
 - 13.15.1 FUTEK Company Information
 - 13.15.2 FUTEK Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.15.3 FUTEK Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 FUTEK Main Business Overview
 - 13.15.5 FUTEK Latest Developments
- 13.16 ME-Me?systeme
 - 13.16.1 ME-Me?systeme Company Information
 - 13.16.2 ME-Me?systeme Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.16.3 ME-Me?systeme Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 ME-Me?systeme Main Business Overview
 - 13.16.5 ME-Me?systeme Latest Developments
- 13.17 Robotous
 - 13.17.1 Robotous Company Information
 - 13.17.2 Robotous Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications
 - 13.17.3 Robotous Six-dimensional Torque Sensor for Robots Sales, Revenue, Price

and Gross Margin (2021-2026)

13.17.4 Robotous Main Business Overview

13.17.5 Robotous Latest Developments

13.18 Aidin Robotics

13.18.1 Aidin Robotics Company Information

13.18.2 Aidin Robotics Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.18.3 Aidin Robotics Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Aidin Robotics Main Business Overview

13.18.5 Aidin Robotics Latest Developments

13.19 Sintokogio

13.19.1 Sintokogio Company Information

13.19.2 Sintokogio Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.19.3 Sintokogio Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Sintokogio Main Business Overview

13.19.5 Sintokogio Latest Developments

13.20 OnRobot

13.20.1 OnRobot Company Information

13.20.2 OnRobot Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.20.3 OnRobot Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 OnRobot Main Business Overview

13.20.5 OnRobot Latest Developments

13.21 Changzhou Right Measurement and control system

13.21.1 Changzhou Right Measurement and control system Company Information

13.21.2 Changzhou Right Measurement and control system Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.21.3 Changzhou Right Measurement and control system Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Changzhou Right Measurement and control system Main Business Overview

13.21.5 Changzhou Right Measurement and control system Latest Developments

13.22 Keli Sensing Technolgy(Ningbo)

13.22.1 Keli Sensing Technolgy(Ningbo) Company Information

13.22.2 Keli Sensing Technolgy(Ningbo) Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.22.3 Keli Sensing Technolgy(Ningbo) Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 Keli Sensing Technolgy(Ningbo) Main Business Overview

13.22.5 Keli Sensing Technolgy(Ningbo) Latest Developments

13.23 Guangzhou Haozhi Industrial

13.23.1 Guangzhou Haozhi Industrial Company Information

13.23.2 Guangzhou Haozhi Industrial Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.23.3 Guangzhou Haozhi Industrial Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Guangzhou Haozhi Industrial Main Business Overview

13.23.5 Guangzhou Haozhi Industrial Latest Developments

13.24 Hypersen Technologies

13.24.1 Hypersen Technologies Company Information

13.24.2 Hypersen Technologies Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.24.3 Hypersen Technologies Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Hypersen Technologies Main Business Overview

13.24.5 Hypersen Technologies Latest Developments

13.25 Anhui Zhongke Midian Sensor

13.25.1 Anhui Zhongke Midian Sensor Company Information

13.25.2 Anhui Zhongke Midian Sensor Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

13.25.3 Anhui Zhongke Midian Sensor Six-dimensional Torque Sensor for Robots Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Anhui Zhongke Midian Sensor Main Business Overview

13.25.5 Anhui Zhongke Midian Sensor 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 Torque Sensor for Robots Product Portfolios and Specifications

13.26.3 Zhonghang Electronic Measuring Instruments Six-dimensional Torque Sensor for Robots 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 Torque Sensor for

Robots Product Portfolios and Specifications

13.27.3 Nanjing Bio-inspired Intelligent Technology Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Type (2021-2026) & (Units)

Table 7. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)

Table 8. Global Six-dimensional Torque Sensor for Robots Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Type (2021-2026)

Table 10. Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Measuring Range (2021-2026) & (Units)

Table 16. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Measuring Range (2021-2026)

Table 17. Global Six-dimensional Torque Sensor for Robots Revenue by Measuring Range (2021-2026) & (\$ million)

Table 18. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Measuring Range (2021-2026)

Table 19. Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Accuracy(%FS) (2021-2026) & (Units)

Table 25. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Accuracy(%FS) (2021-2026)

Table 26. Global Six-dimensional Torque Sensor for Robots Revenue by Accuracy(%FS) (2021-2026) & (\$ million)

Table 27. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Accuracy(%FS) (2021-2026)

Table 28. Global Six-dimensional Torque Sensor for Robots Sale Price by Accuracy(%FS) (2021-2026) & (US\$/Unit)

Table 29. Global Six-dimensional Torque Sensor for Robots Sale by Application (2021-2026) & (Units)

Table 30. Global Six-dimensional Torque Sensor for Robots Sale Market Share by Application (2021-2026)

Table 31. Global Six-dimensional Torque Sensor for Robots Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Application (2021-2026)

Table 33. Global Six-dimensional Torque Sensor for Robots Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Six-dimensional Torque Sensor for Robots Sales by Company (2021-2026) & (Units)

Table 35. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Company (2021-2026)

Table 36. Global Six-dimensional Torque Sensor for Robots Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Company (2021-2026)

Table 38. Global Six-dimensional Torque Sensor for Robots Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Six-dimensional Torque Sensor for Robots Producing Area Distribution and Sales Area

Table 40. Players Six-dimensional Torque Sensor for Robots Products Offered

Table 41. Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales by Geographic Region (2021-2026) & (Units)

Table 45. Global Six-dimensional Torque Sensor for Robots Sales Market Share Geographic Region (2021-2026)

Table 46. Global Six-dimensional Torque Sensor for Robots Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Six-dimensional Torque Sensor for Robots Sales by Country/Region (2021-2026) & (Units)

Table 49. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Country/Region (2021-2026)

Table 50. Global Six-dimensional Torque Sensor for Robots Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Six-dimensional Torque Sensor for Robots Sales by Country (2021-2026) & (Units)

Table 53. Americas Six-dimensional Torque Sensor for Robots Sales Market Share by Country (2021-2026)

Table 54. Americas Six-dimensional Torque Sensor for Robots Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026) & (Units)

Table 56. Americas Six-dimensional Torque Sensor for Robots Sales by Application (2021-2026) & (Units)

Table 57. APAC Six-dimensional Torque Sensor for Robots Sales by Region (2021-2026) & (Units)

Table 58. APAC Six-dimensional Torque Sensor for Robots Sales Market Share by Region (2021-2026)

Table 59. APAC Six-dimensional Torque Sensor for Robots Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Six-dimensional Torque Sensor for Robots Sales by Type (2021-2026) & (Units)

Table 61. APAC Six-dimensional Torque Sensor for Robots Sales by Application (2021-2026) & (Units)

Table 62. Europe Six-dimensional Torque Sensor for Robots Sales by Country (2021-2026) & (Units)

Table 63. Europe Six-dimensional Torque Sensor for Robots Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Six-dimensional Torque Sensor for Robots Sales by Type

(2021-2026) & (Units)

Table 65. Europe Six-dimensional Torque Sensor for Robots Sales by Application
(2021-2026) & (Units)

Table 66. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales by
Country (2021-2026) & (Units)

Table 67. Middle East & Africa Six-dimensional Torque Sensor for Robots Revenue
Market Share by Country (2021-2026)

Table 68. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales by
Type (2021-2026) & (Units)

Table 69. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales by
Application (2021-2026) & (Units)

Table 70. Key Market Drivers & Growth Opportunities of Six-dimensional Torque Sensor
for Robots

Table 71. Key Market Challenges & Risks of Six-dimensional Torque Sensor for Robots

Table 72. Key Industry Trends of Six-dimensional Torque Sensor for Robots

Table 73. Six-dimensional Torque Sensor for Robots Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Six-dimensional Torque Sensor for Robots Distributors List

Table 76. Six-dimensional Torque Sensor for Robots Customer List

Table 77. Global Six-dimensional Torque Sensor for Robots Sales Forecast by Region
(2027-2032) & (Units)

Table 78. Global Six-dimensional Torque Sensor for Robots Revenue Forecast by
Region (2027-2032) & (\$ millions)

Table 79. Americas Six-dimensional Torque Sensor for Robots Sales Forecast by
Country (2027-2032) & (Units)

Table 80. Americas Six-dimensional Torque Sensor for Robots Annual Revenue
Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Six-dimensional Torque Sensor for Robots Sales Forecast by Region
(2027-2032) & (Units)

Table 82. APAC Six-dimensional Torque Sensor for Robots Annual Revenue Forecast
by Region (2027-2032) & (\$ millions)

Table 83. Europe Six-dimensional Torque Sensor for Robots Sales Forecast by Country
(2027-2032) & (Units)

Table 84. Europe Six-dimensional Torque Sensor for Robots Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales
Forecast by Country (2027-2032) & (Units)

Table 86. Middle East & Africa Six-dimensional Torque Sensor for Robots Revenue
Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Six-dimensional Torque Sensor for Robots Sales Forecast by Type (2027-2032) & (Units)

Table 88. Global Six-dimensional Torque Sensor for Robots Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Six-dimensional Torque Sensor for Robots Sales Forecast by Application (2027-2032) & (Units)

Table 90. Global Six-dimensional Torque Sensor for Robots Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. ATI Industrial Automation Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 92. ATI Industrial Automation Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 93. ATI Industrial Automation Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 97. Schunk Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 98. Schunk Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Schunk Main Business

Table 100. Schunk Latest Developments

Table 101. Sunrise Instruments (SRI) Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 102. Sunrise Instruments (SRI) Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 103. Sunrise Instruments (SRI) Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Sunrise Instruments (SRI) Main Business

Table 105. Sunrise Instruments (SRI) Latest Developments

Table 106. Epson Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 107. Epson Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 108. Epson Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Epson Main Business

Table 110. Epson Latest Developments

Table 111. Changzhou Kunwei Sensing Technology Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 112. Changzhou Kunwei Sensing Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 113. Changzhou Kunwei Sensing Technology Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Changzhou Kunwei Sensing Technology Main Business

Table 115. Changzhou Kunwei Sensing Technology Latest Developments

Table 116. Link-touch?(Beijing)?Technology Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 117. Link-touch?(Beijing)?Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 118. Link-touch?(Beijing)?Technology Six-dimensional Torque Sensor for Robots 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. Advanced Mechanical Technology Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 122. Advanced Mechanical Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 123. Advanced Mechanical Technology Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Advanced Mechanical Technology Main Business

Table 125. Advanced Mechanical Technology Latest Developments

Table 126. Shenzhen Xinjingcheng Sensing Technology Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 127. Shenzhen Xinjingcheng Sensing Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 128. Shenzhen Xinjingcheng Sensing Technology Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Shenzhen Xinjingcheng Sensing Technology Main Business

Table 130. Shenzhen Xinjingcheng Sensing Technology Latest Developments

Table 131. Robotiq Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 132. Robotiq Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 133. Robotiq Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Robotiq Main Business

Table 135. Robotiq Latest Developments

Table 136. Kistler Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 137. Kistler Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 138. Kistler Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Kistler Main Business

Table 140. Kistler Latest Developments

Table 141. Wacoh-Tech Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 142. Wacoh-Tech Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 143. Wacoh-Tech Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. Wacoh-Tech Main Business

Table 145. Wacoh-Tech Latest Developments

Table 146. Bota Systems Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 147. Bota Systems Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 148. Bota Systems Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Bota Systems Main Business

Table 150. Bota Systems Latest Developments

Table 151. FANUC Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 152. FANUC Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 153. FANUC Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. FANUC Main Business

Table 155. FANUC Latest Developments

Table 156. Nordbo Robotics Basic Information, Six-dimensional Torque Sensor for

Robots Manufacturing Base, Sales Area and Its Competitors

Table 157. Nordbo Robotics Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 158. Nordbo Robotics Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Nordbo Robotics Main Business

Table 160. Nordbo Robotics Latest Developments

Table 161. FUTEK Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 162. FUTEK Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 163. FUTEK Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. FUTEK Main Business

Table 165. FUTEK Latest Developments

Table 166. ME-Me?systeme Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 167. ME-Me?systeme Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 168. ME-Me?systeme Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. ME-Me?systeme Main Business

Table 170. ME-Me?systeme Latest Developments

Table 171. Robotous Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 172. Robotous Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 173. Robotous Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. Robotous Main Business

Table 175. Robotous Latest Developments

Table 176. Aidin Robotics Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 177. Aidin Robotics Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 178. Aidin Robotics Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 179. Aidin Robotics Main Business

Table 180. Aidin Robotics Latest Developments

Table 181. Sintokogio Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 182. Sintokogio Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 183. Sintokogio Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 184. Sintokogio Main Business

Table 185. Sintokogio Latest Developments

Table 186. OnRobot Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 187. OnRobot Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 188. OnRobot Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 189. OnRobot Main Business

Table 190. OnRobot Latest Developments

Table 191. Changzhou Right Measurement and control system Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 192. Changzhou Right Measurement and control system Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 193. Changzhou Right Measurement and control system Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 194. Changzhou Right Measurement and control system Main Business

Table 195. Changzhou Right Measurement and control system Latest Developments

Table 196. Keli Sensing Technology(Ningbo) Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 197. Keli Sensing Technology(Ningbo) Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 198. Keli Sensing Technology(Ningbo) Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 199. Keli Sensing Technology(Ningbo) Main Business

Table 200. Keli Sensing Technology(Ningbo) Latest Developments

Table 201. Guangzhou Haozhi Industrial Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 202. Guangzhou Haozhi Industrial Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 203. Guangzhou Haozhi Industrial Six-dimensional Torque Sensor for Robots

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

Table 204. Guangzhou Haozhi Industrial Main Business

Table 205. Guangzhou Haozhi Industrial Latest Developments

Table 206. Hypersen Technologies Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 207. Hypersen Technologies Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 208. Hypersen Technologies Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 209. Hypersen Technologies Main Business

Table 210. Hypersen Technologies Latest Developments

Table 211. Anhui Zhongke Midian Sensor Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 212. Anhui Zhongke Midian Sensor Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 213. Anhui Zhongke Midian Sensor Six-dimensional Torque Sensor for Robots Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 214. Anhui Zhongke Midian Sensor Main Business

Table 215. Anhui Zhongke Midian Sensor Latest Developments

Table 216. Zhonghang Electronic Measuring Instruments Basic Information, Six-dimensional Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 217. Zhonghang Electronic Measuring Instruments Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 218. Zhonghang Electronic Measuring Instruments Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Manufacturing Base, Sales Area and Its Competitors

Table 222. Nanjing Bio-inspired Intelligent Technology Six-dimensional Torque Sensor for Robots Product Portfolios and Specifications

Table 223. Nanjing Bio-inspired Intelligent Technology Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots
- Figure 2. Six-dimensional Torque Sensor for Robots Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Six-dimensional Torque Sensor for Robots Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Six-dimensional Torque Sensor for Robots Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Six-dimensional Torque Sensor for Robots Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Six-dimensional Torque Sensor for Robots Sales Market Share by Country/Region (2025)
- Figure 10. Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales Market Share by Type in 2026
- Figure 15. Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales Market Share by Measuring Range in 2026
- Figure 21. Global Six-dimensional Torque Sensor for Robots 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 Torque Sensor for Robots Sales Market Share by

Accuracy(%FS) in 2026

Figure 27. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Accuracy(%FS) (2021-2026)

Figure 28. Six-dimensional Torque Sensor for Robots Consumed in Industrial Robots

Figure 29. Global Six-dimensional Torque Sensor for Robots Market: Industrial Robots (2021-2026) & (Units)

Figure 30. Six-dimensional Torque Sensor for Robots Consumed in Collaborative Robots

Figure 31. Global Six-dimensional Torque Sensor for Robots Market: Collaborative Robots (2021-2026) & (Units)

Figure 32. Six-dimensional Torque Sensor for Robots Consumed in Medical Robots

Figure 33. Global Six-dimensional Torque Sensor for Robots Market: Medical Robots (2021-2026) & (Units)

Figure 34. Six-dimensional Torque Sensor for Robots Consumed in Humanoid Robots

Figure 35. Global Six-dimensional Torque Sensor for Robots Market: Humanoid Robots (2021-2026) & (Units)

Figure 36. Six-dimensional Torque Sensor for Robots Consumed in Others

Figure 37. Global Six-dimensional Torque Sensor for Robots Market: Others (2021-2026) & (Units)

Figure 38. Global Six-dimensional Torque Sensor for Robots Sale Market Share by Application (2025)

Figure 39. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Application in 2025

Figure 40. Six-dimensional Torque Sensor for Robots Sales by Company in 2025 (Units)

Figure 41. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Company in 2025

Figure 42. Six-dimensional Torque Sensor for Robots Revenue by Company in 2025 (\$ millions)

Figure 43. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Company in 2025

Figure 44. Global Six-dimensional Torque Sensor for Robots Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global Six-dimensional Torque Sensor for Robots Revenue Market Share by Geographic Region in 2025

Figure 46. Americas Six-dimensional Torque Sensor for Robots Sales 2021-2026 (Units)

Figure 47. Americas Six-dimensional Torque Sensor for Robots Revenue 2021-2026 (\$ millions)

Figure 48. APAC Six-dimensional Torque Sensor for Robots Sales 2021-2026 (Units)

Figure 49. APAC Six-dimensional Torque Sensor for Robots Revenue 2021-2026 (\$ millions)

Figure 50. Europe Six-dimensional Torque Sensor for Robots Sales 2021-2026 (Units)

Figure 51. Europe Six-dimensional Torque Sensor for Robots Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales 2021-2026 (Units)

Figure 53. Middle East & Africa Six-dimensional Torque Sensor for Robots Revenue 2021-2026 (\$ millions)

Figure 54. Americas Six-dimensional Torque Sensor for Robots Sales Market Share by Country in 2025

Figure 55. Americas Six-dimensional Torque Sensor for Robots Revenue Market Share by Country (2021-2026)

Figure 56. Americas Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)

Figure 57. Americas Six-dimensional Torque Sensor for Robots Sales Market Share by Application (2021-2026)

Figure 58. United States Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC Six-dimensional Torque Sensor for Robots Sales Market Share by Region in 2025

Figure 63. APAC Six-dimensional Torque Sensor for Robots Revenue Market Share by Region (2021-2026)

Figure 64. APAC Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)

Figure 65. APAC Six-dimensional Torque Sensor for Robots Sales Market Share by Application (2021-2026)

Figure 66. China Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea Six-dimensional Torque Sensor for Robots Revenue Growth

2021-2026 (\$ millions)

Figure 69. Southeast Asia Six-dimensional Torque Sensor for Robots Revenue Growth

2021-2026 (\$ millions)

Figure 70. India Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026

(\$ millions)

Figure 71. Australia Six-dimensional Torque Sensor for Robots Revenue Growth

2021-2026 (\$ millions)

Figure 72. China Taiwan Six-dimensional Torque Sensor for Robots Revenue Growth

2021-2026 (\$ millions)

Figure 73. Europe Six-dimensional Torque Sensor for Robots Sales Market Share by Country in 2025

Figure 74. Europe Six-dimensional Torque Sensor for Robots Revenue Market Share by Country (2021-2026)

Figure 75. Europe Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)

Figure 76. Europe Six-dimensional Torque Sensor for Robots Sales Market Share by Application (2021-2026)

Figure 77. Germany Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 78. France Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales Market Share by Country (2021-2026)

Figure 83. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales Market Share by Type (2021-2026)

Figure 84. Middle East & Africa Six-dimensional Torque Sensor for Robots Sales Market Share by Application (2021-2026)

Figure 85. Egypt Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries Six-dimensional Torque Sensor for Robots Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of Six-dimensional Torque Sensor for Robots in 2026

Figure 91. Manufacturing Process Analysis of Six-dimensional Torque Sensor for Robots

Figure 92. Industry Chain Structure of Six-dimensional Torque Sensor for Robots

Figure 93. Channels of Distribution

Figure 94. Global Six-dimensional Torque Sensor for Robots Sales Market Forecast by Region (2027-2032)

Figure 95. Global Six-dimensional Torque Sensor for Robots Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global Six-dimensional Torque Sensor for Robots Sales Market Share Forecast by Type (2027-2032)

Figure 97. Global Six-dimensional Torque Sensor for Robots Revenue Market Share Forecast by Type (2027-2032)

Figure 98. Global Six-dimensional Torque Sensor for Robots Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global Six-dimensional Torque Sensor for Robots Revenue Market Share Forecast by Application (2027-2032)

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