

Global Torque Sensor for Humanoid Robot Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Torque Sensor for Humanoid Robot competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A torque sensor for humanoid robots is a device that senses and measures torque. It is typically installed at the joints of humanoid robots to monitor and adjust joint torque, thereby ensuring the robot's movement accuracy and stability. The core principle of a torque sensor is to convert deformation under force into an electrical signal. Depending on the measurement dimension, torque sensors can be divided into one-dimensional, three-dimensional, and six-dimensional torque sensors. Among them, the six-dimensional torque sensor can simultaneously measure force and torque in three directions, making it the most advanced torque sensor suitable for applications requiring precise control and sensing of complex interactive forces. From the perspective of the sensing dimension of force sensors, robot joints require joint torque sensors, while end effectors (hands, feet) require six-dimensional torque sensors. In 2024, the global production of Torque Sensor for Humanoid Robot reached 287,300 units, with an average price of \$291.91 per unit for Torque Sensor for Humanoid Robot, an average price of \$62.14 per unit for torque sensor, and an average price of \$6,181.6 per unit for six-dimensional torque sensor. The company produced 100,000 units annually, with a gross profit margin of approximately 26.50%. Force sensors, acting as the "nerve endings" of humanoid robots' perception and interaction, occupy a central position in the development of robotics technology. As a key medium for robots to accurately perceive external forces, force sensors can capture and quantify complex mechanical information such as pressure, tension, and torque generated when in contact with objects in real time, transforming the robot's "touch" from an abstract concept into a stream of analyzable data. With the accelerated development of the

humanoid robot industry, China's advantages in core component fields continue to stand out. Six-dimensional force sensors and joint torque sensors have deeply penetrated the humanoid robot industry chain. Benefiting from the explosive growth of the humanoid robot industry in 2024, downstream core customers include leading humanoid robot companies such as Calcium Robotics, Xiaomi, ZQGame, Qianxun, UBTECH Robotics, Galaxy General, and Unitree Robotics, while also penetrating high-value-added fields such as new energy vehicles, medical care, and aviation.

The global Torque Sensor for Humanoid Robot market size was estimated at USD 83.87 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 78.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Torque Sensor for Humanoid Robot market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Torque Sensor for Humanoid Robot market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Torque Sensor for Humanoid Robot market.

Global Torque Sensor for Humanoid Robot Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

ATI Industrial Automation

OnRobot

TE Connectivity

Sensodrive

XJCSENSOR

Robotiq

Epson

Nordbo Robotics

ME-Me?systeme

Wacoh-Tech

Robotous

FUTEK

FANUC

Sintokogio

AL.Robot

Schunk

Advanced Mechanical Technology

Kistler

Bota Systems

Aidin Robotics

Changzhou Kunwei Sensing Technology Co., Ltd.

SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD.

Nanjing Bio-inspired Intelligent Technology Co., Ltd

Changzhou Right Measurement and control system Co.Ltd.

Shenzhen Ampron Technology Co.,Ltd.

Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD.

Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd.

Shenzhen Ligent Sensor Tech Co., Ltd.
Guangzhou Haozhi Industrial Co., LTD.
Sunrise Instruments

Market Segmentation (by Type)

Resistance Strain Gauge
Capacitive
Inductive
Optoelectronic
Other

Market Segmentation (by Application)

Industrial
Medical
Services
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Torque Sensor for Humanoid Robot Market
Overview of the regional outlook of the Torque Sensor for Humanoid Robot Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Torque Sensor for Humanoid Robot Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Torque Sensor for Humanoid Robot, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five

forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Torque Sensor for Humanoid Robot
- 1.2 Key Market Segments
 - 1.2.1 Torque Sensor for Humanoid Robot Segment by Type
 - 1.2.2 Torque Sensor for Humanoid Robot Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 TORQUE SENSOR FOR HUMANOID ROBOT MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Torque Sensor for Humanoid Robot Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Torque Sensor for Humanoid Robot Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 TORQUE SENSOR FOR HUMANOID ROBOT MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Torque Sensor for Humanoid Robot Product Life Cycle
- 3.3 Global Torque Sensor for Humanoid Robot Sales by Manufacturers (2020-2025)
- 3.4 Global Torque Sensor for Humanoid Robot Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Torque Sensor for Humanoid Robot Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Torque Sensor for Humanoid Robot Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Torque Sensor for Humanoid Robot Market Competitive Situation and Trends

- 3.8.1 Torque Sensor for Humanoid Robot Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Torque Sensor for Humanoid Robot Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 TORQUE SENSOR FOR HUMANOID ROBOT INDUSTRY CHAIN ANALYSIS

- 4.1 Torque Sensor for Humanoid Robot Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF TORQUE SENSOR FOR HUMANOID ROBOT MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Torque Sensor for Humanoid Robot Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Torque Sensor for Humanoid Robot Market
- 5.7 ESG Ratings of Leading Companies

6 TORQUE SENSOR FOR HUMANOID ROBOT MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Torque Sensor for Humanoid Robot Sales Market Share by Type (2020-2025)

6.3 Global Torque Sensor for Humanoid Robot Market Size by Type (2020-2025)

6.4 Global Torque Sensor for Humanoid Robot Price by Type (2020-2025)

7 TORQUE SENSOR FOR HUMANOID ROBOT MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Torque Sensor for Humanoid Robot Market Sales by Application (2020-2025)

7.3 Global Torque Sensor for Humanoid Robot Market Size (M USD) by Application (2020-2025)

7.4 Global Torque Sensor for Humanoid Robot Sales Growth Rate by Application (2020-2025)

8 TORQUE SENSOR FOR HUMANOID ROBOT MARKET SALES BY REGION

8.1 Global Torque Sensor for Humanoid Robot Sales by Region

8.1.1 Global Torque Sensor for Humanoid Robot Sales by Region

8.1.2 Global Torque Sensor for Humanoid Robot Sales Market Share by Region

8.2 Global Torque Sensor for Humanoid Robot Market Size by Region

8.2.1 Global Torque Sensor for Humanoid Robot Market Size by Region

8.2.2 Global Torque Sensor for Humanoid Robot Market Size by Region

8.3 North America

8.3.1 North America Torque Sensor for Humanoid Robot Sales by Country

8.3.2 North America Torque Sensor for Humanoid Robot Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Torque Sensor for Humanoid Robot Sales by Country

8.4.2 Europe Torque Sensor for Humanoid Robot Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Torque Sensor for Humanoid Robot Sales by Region
- 8.5.2 Asia Pacific Torque Sensor for Humanoid Robot Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Torque Sensor for Humanoid Robot Sales by Country
 - 8.6.2 South America Torque Sensor for Humanoid Robot Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Torque Sensor for Humanoid Robot Sales by Region
 - 8.7.2 Middle East and Africa Torque Sensor for Humanoid Robot Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 TORQUE SENSOR FOR HUMANOID ROBOT MARKET PRODUCTION BY REGION

- 9.1 Global Production of Torque Sensor for Humanoid Robot by Region(2020-2025)
- 9.2 Global Torque Sensor for Humanoid Robot Revenue Market Share by Region (2020-2025)
- 9.3 Global Torque Sensor for Humanoid Robot Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Torque Sensor for Humanoid Robot Production
 - 9.4.1 North America Torque Sensor for Humanoid Robot Production Growth Rate (2020-2025)
 - 9.4.2 North America Torque Sensor for Humanoid Robot Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Torque Sensor for Humanoid Robot Production
 - 9.5.1 Europe Torque Sensor for Humanoid Robot Production Growth Rate (2020-2025)

9.5.2 Europe Torque Sensor for Humanoid Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Torque Sensor for Humanoid Robot Production (2020-2025)

9.6.1 Japan Torque Sensor for Humanoid Robot Production Growth Rate (2020-2025)

9.6.2 Japan Torque Sensor for Humanoid Robot Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Torque Sensor for Humanoid Robot Production (2020-2025)

9.7.1 China Torque Sensor for Humanoid Robot Production Growth Rate (2020-2025)

9.7.2 China Torque Sensor for Humanoid Robot Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 ATI Industrial Automation

10.1.1 ATI Industrial Automation Basic Information

10.1.2 ATI Industrial Automation Torque Sensor for Humanoid Robot Product Overview

10.1.3 ATI Industrial Automation Torque Sensor for Humanoid Robot Product Market Performance

10.1.4 ATI Industrial Automation Business Overview

10.1.5 ATI Industrial Automation SWOT Analysis

10.1.6 ATI Industrial Automation Recent Developments

10.2 OnRobot

10.2.1 OnRobot Basic Information

10.2.2 OnRobot Torque Sensor for Humanoid Robot Product Overview

10.2.3 OnRobot Torque Sensor for Humanoid Robot Product Market Performance

10.2.4 OnRobot Business Overview

10.2.5 OnRobot SWOT Analysis

10.2.6 OnRobot Recent Developments

10.3 TE Connectivity

10.3.1 TE Connectivity Basic Information

10.3.2 TE Connectivity Torque Sensor for Humanoid Robot Product Overview

10.3.3 TE Connectivity Torque Sensor for Humanoid Robot Product Market Performance

10.3.4 TE Connectivity Business Overview

10.3.5 TE Connectivity SWOT Analysis

10.3.6 TE Connectivity Recent Developments

10.4 Sensodrive

10.4.1 Sensodrive Basic Information

- 10.4.2 Sensodrive Torque Sensor for Humanoid Robot Product Overview
- 10.4.3 Sensodrive Torque Sensor for Humanoid Robot Product Market Performance
- 10.4.4 Sensodrive Business Overview
- 10.4.5 Sensodrive Recent Developments
- 10.5 XJCSENSOR
 - 10.5.1 XJCSENSOR Basic Information
 - 10.5.2 XJCSENSOR Torque Sensor for Humanoid Robot Product Overview
 - 10.5.3 XJCSENSOR Torque Sensor for Humanoid Robot Product Market Performance
 - 10.5.4 XJCSENSOR Business Overview
 - 10.5.5 XJCSENSOR Recent Developments
- 10.6 Robotiq
 - 10.6.1 Robotiq Basic Information
 - 10.6.2 Robotiq Torque Sensor for Humanoid Robot Product Overview
 - 10.6.3 Robotiq Torque Sensor for Humanoid Robot Product Market Performance
 - 10.6.4 Robotiq Business Overview
 - 10.6.5 Robotiq Recent Developments
- 10.7 Epson
 - 10.7.1 Epson Basic Information
 - 10.7.2 Epson Torque Sensor for Humanoid Robot Product Overview
 - 10.7.3 Epson Torque Sensor for Humanoid Robot Product Market Performance
 - 10.7.4 Epson Business Overview
 - 10.7.5 Epson Recent Developments
- 10.8 Nordbo Robotics
 - 10.8.1 Nordbo Robotics Basic Information
 - 10.8.2 Nordbo Robotics Torque Sensor for Humanoid Robot Product Overview
 - 10.8.3 Nordbo Robotics Torque Sensor for Humanoid Robot Product Market Performance
 - 10.8.4 Nordbo Robotics Business Overview
 - 10.8.5 Nordbo Robotics Recent Developments
- 10.9 ME-Me?systeme
 - 10.9.1 ME-Me?systeme Basic Information
 - 10.9.2 ME-Me?systeme Torque Sensor for Humanoid Robot Product Overview
 - 10.9.3 ME-Me?systeme Torque Sensor for Humanoid Robot Product Market Performance
 - 10.9.4 ME-Me?systeme Business Overview
 - 10.9.5 ME-Me?systeme Recent Developments
- 10.10 Wacoh-Tech
 - 10.10.1 Wacoh-Tech Basic Information
 - 10.10.2 Wacoh-Tech Torque Sensor for Humanoid Robot Product Overview

- 10.10.3 Wacoh-Tech Torque Sensor for Humanoid Robot Product Market Performance
 - 10.10.4 Wacoh-Tech Business Overview
 - 10.10.5 Wacoh-Tech Recent Developments
- 10.11 Robotous
 - 10.11.1 Robotous Basic Information
 - 10.11.2 Robotous Torque Sensor for Humanoid Robot Product Overview
 - 10.11.3 Robotous Torque Sensor for Humanoid Robot Product Market Performance
 - 10.11.4 Robotous Business Overview
 - 10.11.5 Robotous Recent Developments
- 10.12 FUTEK
 - 10.12.1 FUTEK Basic Information
 - 10.12.2 FUTEK Torque Sensor for Humanoid Robot Product Overview
 - 10.12.3 FUTEK Torque Sensor for Humanoid Robot Product Market Performance
 - 10.12.4 FUTEK Business Overview
 - 10.12.5 FUTEK Recent Developments
- 10.13 FANUC
 - 10.13.1 FANUC Basic Information
 - 10.13.2 FANUC Torque Sensor for Humanoid Robot Product Overview
 - 10.13.3 FANUC Torque Sensor for Humanoid Robot Product Market Performance
 - 10.13.4 FANUC Business Overview
 - 10.13.5 FANUC Recent Developments
- 10.14 Sintokogio
 - 10.14.1 Sintokogio Basic Information
 - 10.14.2 Sintokogio Torque Sensor for Humanoid Robot Product Overview
 - 10.14.3 Sintokogio Torque Sensor for Humanoid Robot Product Market Performance
 - 10.14.4 Sintokogio Business Overview
 - 10.14.5 Sintokogio Recent Developments
- 10.15 AL.Robot
 - 10.15.1 AL.Robot Basic Information
 - 10.15.2 AL.Robot Torque Sensor for Humanoid Robot Product Overview
 - 10.15.3 AL.Robot Torque Sensor for Humanoid Robot Product Market Performance
 - 10.15.4 AL.Robot Business Overview
 - 10.15.5 AL.Robot Recent Developments
- 10.16 Schunk
 - 10.16.1 Schunk Basic Information
 - 10.16.2 Schunk Torque Sensor for Humanoid Robot Product Overview
 - 10.16.3 Schunk Torque Sensor for Humanoid Robot Product Market Performance
 - 10.16.4 Schunk Business Overview

- 10.16.5 Schunk Recent Developments
- 10.17 Advanced Mechanical Technology
 - 10.17.1 Advanced Mechanical Technology Basic Information
 - 10.17.2 Advanced Mechanical Technology Torque Sensor for Humanoid Robot Product Overview
 - 10.17.3 Advanced Mechanical Technology Torque Sensor for Humanoid Robot Product Market Performance
 - 10.17.4 Advanced Mechanical Technology Business Overview
 - 10.17.5 Advanced Mechanical Technology Recent Developments
- 10.18 Kistler
 - 10.18.1 Kistler Basic Information
 - 10.18.2 Kistler Torque Sensor for Humanoid Robot Product Overview
 - 10.18.3 Kistler Torque Sensor for Humanoid Robot Product Market Performance
 - 10.18.4 Kistler Business Overview
 - 10.18.5 Kistler Recent Developments
- 10.19 Bota Systems
 - 10.19.1 Bota Systems Basic Information
 - 10.19.2 Bota Systems Torque Sensor for Humanoid Robot Product Overview
 - 10.19.3 Bota Systems Torque Sensor for Humanoid Robot Product Market Performance
 - 10.19.4 Bota Systems Business Overview
 - 10.19.5 Bota Systems Recent Developments
- 10.20 Aidin Robotics
 - 10.20.1 Aidin Robotics Basic Information
 - 10.20.2 Aidin Robotics Torque Sensor for Humanoid Robot Product Overview
 - 10.20.3 Aidin Robotics Torque Sensor for Humanoid Robot Product Market Performance
 - 10.20.4 Aidin Robotics Business Overview
 - 10.20.5 Aidin Robotics Recent Developments
- 10.21 Changzhou Kunwei Sensing Technology Co., Ltd.
 - 10.21.1 Changzhou Kunwei Sensing Technology Co., Ltd. Basic Information
 - 10.21.2 Changzhou Kunwei Sensing Technology Co., Ltd. Torque Sensor for Humanoid Robot Product Overview
 - 10.21.3 Changzhou Kunwei Sensing Technology Co., Ltd. Torque Sensor for Humanoid Robot Product Market Performance
 - 10.21.4 Changzhou Kunwei Sensing Technology Co., Ltd. Business Overview
 - 10.21.5 Changzhou Kunwei Sensing Technology Co., Ltd. Recent Developments
- 10.22 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD.
 - 10.22.1 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD. Basic Information

10.22.2 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD. Torque Sensor for Humanoid Robot Product Overview

10.22.3 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD. Torque Sensor for Humanoid Robot Product Market Performance

10.22.4 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD. Business Overview

10.22.5 SHENZHEN XJCSSENSOR TECHNOLOGY CO. , LTD. Recent Developments

10.23 Nanjing Bio-inspired Intelligent Technology Co., Ltd

10.23.1 Nanjing Bio-inspired Intelligent Technology Co., Ltd Basic Information

10.23.2 Nanjing Bio-inspired Intelligent Technology Co., Ltd Torque Sensor for Humanoid Robot Product Overview

10.23.3 Nanjing Bio-inspired Intelligent Technology Co., Ltd Torque Sensor for Humanoid Robot Product Market Performance

10.23.4 Nanjing Bio-inspired Intelligent Technology Co., Ltd Business Overview

10.23.5 Nanjing Bio-inspired Intelligent Technology Co., Ltd Recent Developments

10.24 Changzhou Right Measurement and control system Co.Ltd.

10.24.1 Changzhou Right Measurement and control system Co.Ltd. Basic Information

10.24.2 Changzhou Right Measurement and control system Co.Ltd. Torque Sensor for Humanoid Robot Product Overview

10.24.3 Changzhou Right Measurement and control system Co.Ltd. Torque Sensor for Humanoid Robot Product Market Performance

10.24.4 Changzhou Right Measurement and control system Co.Ltd. Business Overview

10.24.5 Changzhou Right Measurement and control system Co.Ltd. Recent Developments

10.25 Shenzhen Ampron Technology Co.,Ltd.

10.25.1 Shenzhen Ampron Technology Co.,Ltd. Basic Information

10.25.2 Shenzhen Ampron Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Overview

10.25.3 Shenzhen Ampron Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Market Performance

10.25.4 Shenzhen Ampron Technology Co.,Ltd. Business Overview

10.25.5 Shenzhen Ampron Technology Co.,Ltd. Recent Developments

10.26 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD.

10.26.1 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Basic Information

10.26.2 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Torque Sensor for Humanoid Robot Product Overview

10.26.3 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Torque Sensor for Humanoid Robot Product Market Performance

10.26.4 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Business Overview

10.26.5 Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Recent Developments

10.27 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd.

10.27.1 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Basic Information

10.27.2 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Overview

10.27.3 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Market Performance

10.27.4 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Business Overview

10.27.5 Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Recent Developments

10.28 Shenzhen Ligent Sensor Tech Co., Ltd.

10.28.1 Shenzhen Ligent Sensor Tech Co., Ltd. Basic Information

10.28.2 Shenzhen Ligent Sensor Tech Co., Ltd. Torque Sensor for Humanoid Robot Product Overview

10.28.3 Shenzhen Ligent Sensor Tech Co., Ltd. Torque Sensor for Humanoid Robot Product Market Performance

10.28.4 Shenzhen Ligent Sensor Tech Co., Ltd. Business Overview

10.28.5 Shenzhen Ligent Sensor Tech Co., Ltd. Recent Developments

10.29 Guangzhou Haozhi Industrial Co., LTD.

10.29.1 Guangzhou Haozhi Industrial Co., LTD. Basic Information

10.29.2 Guangzhou Haozhi Industrial Co., LTD. Torque Sensor for Humanoid Robot Product Overview

10.29.3 Guangzhou Haozhi Industrial Co., LTD. Torque Sensor for Humanoid Robot Product Market Performance

10.29.4 Guangzhou Haozhi Industrial Co., LTD. Business Overview

10.29.5 Guangzhou Haozhi Industrial Co., LTD. Recent Developments

10.30 Sunrise Instruments

10.30.1 Sunrise Instruments Basic Information

10.30.2 Sunrise Instruments Torque Sensor for Humanoid Robot Product Overview

10.30.3 Sunrise Instruments Torque Sensor for Humanoid Robot Product Market Performance

10.30.4 Sunrise Instruments Business Overview

10.30.5 Sunrise Instruments Recent Developments

11 TORQUE SENSOR FOR HUMANOID ROBOT MARKET FORECAST BY REGION

11.1 Global Torque Sensor for Humanoid Robot Market Size Forecast

11.2 Global Torque Sensor for Humanoid Robot Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Torque Sensor for Humanoid Robot Market Size Forecast by Country

11.2.3 Asia Pacific Torque Sensor for Humanoid Robot Market Size Forecast by Region

11.2.4 South America Torque Sensor for Humanoid Robot Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Torque Sensor for Humanoid Robot by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Torque Sensor for Humanoid Robot Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Torque Sensor for Humanoid Robot by Type (2026-2035)

12.1.2 Global Torque Sensor for Humanoid Robot Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Torque Sensor for Humanoid Robot by Type (2026-2035)

12.2 Global Torque Sensor for Humanoid Robot Market Forecast by Application (2026-2035)

12.2.1 Global Torque Sensor for Humanoid Robot Sales (K Units) Forecast by Application

12.2.2 Global Torque Sensor for Humanoid Robot Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Torque Sensor for Humanoid Robot Market Size by Type (M USD)

Table 4. Global Torque Sensor for Humanoid Robot Market Size by Application

Table 5. Torque Sensor for Humanoid Robot Market Size Comparison by Region (M USD)

Table 6. Global Torque Sensor for Humanoid Robot Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Torque Sensor for Humanoid Robot Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Torque Sensor for Humanoid Robot Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Torque Sensor for Humanoid Robot Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Torque Sensor for Humanoid Robot as of 2025)

Table 11. Global Market Torque Sensor for Humanoid Robot Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Torque Sensor for Humanoid Robot Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Torque Sensor for Humanoid Robot Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Torque Sensor for Humanoid Robot Sales by Type (K Units)

Table 27. Global Torque Sensor for Humanoid Robot Market Size by Type (M USD)

Table 28. Global Torque Sensor for Humanoid Robot Sales (K Units) by Type (2020-2025)

Table 29. Global Torque Sensor for Humanoid Robot Sales Market Share by Type (2020-2025)

Table 30. Global Torque Sensor for Humanoid Robot Market Size (M USD) by Type (2020-2025)

Table 31. Global Torque Sensor for Humanoid Robot Market Share by Type (2020-2025)

Table 32. Global Torque Sensor for Humanoid Robot Price (USD/Unit) by Type (2020-2025)

Table 33. Global Torque Sensor for Humanoid Robot Sales (K Units) by Application

Table 34. Global Torque Sensor for Humanoid Robot Market Size by Application

Table 35. Global Torque Sensor for Humanoid Robot Sales by Application (2020-2025) & (K Units)

Table 36. Global Torque Sensor for Humanoid Robot Sales Market Share by Application (2020-2025)

Table 37. Global Torque Sensor for Humanoid Robot Market Size by Application (2020-2025) & (M USD)

Table 38. Global Torque Sensor for Humanoid Robot Market Share by Application (2020-2025)

Table 39. Global Torque Sensor for Humanoid Robot Sales Growth Rate by Application (2020-2025)

Table 40. Global Torque Sensor for Humanoid Robot Sales by Region (2020-2025) & (K Units)

Table 41. Global Torque Sensor for Humanoid Robot Sales Market Share by Region (2020-2025)

Table 42. Global Torque Sensor for Humanoid Robot Market Size by Region (2020-2025) & (M USD)

Table 43. Global Torque Sensor for Humanoid Robot Market Size by Region (2020-2025)

Table 44. North America Torque Sensor for Humanoid Robot Sales by Country (2020-2025) & (K Units)

Table 45. North America Torque Sensor for Humanoid Robot Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Torque Sensor for Humanoid Robot Sales by Country (2020-2025) & (K Units)

Table 47. Europe Torque Sensor for Humanoid Robot Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Torque Sensor for Humanoid Robot Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Torque Sensor for Humanoid Robot Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Torque Sensor for Humanoid Robot Sales by Country (2020-2025) & (K Units)
- Table 51. South America Torque Sensor for Humanoid Robot Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Torque Sensor for Humanoid Robot Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Torque Sensor for Humanoid Robot Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Torque Sensor for Humanoid Robot Production (K Units) by Region(2020-2025)
- Table 55. Global Torque Sensor for Humanoid Robot Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Torque Sensor for Humanoid Robot Revenue Market Share by Region (2020-2025)
- Table 57. Global Torque Sensor for Humanoid Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Torque Sensor for Humanoid Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Torque Sensor for Humanoid Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Torque Sensor for Humanoid Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Torque Sensor for Humanoid Robot Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. ATI Industrial Automation Basic Information
- Table 63. ATI Industrial Automation Torque Sensor for Humanoid Robot Product Overview
- Table 64. ATI Industrial Automation Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. ATI Industrial Automation Business Overview
- Table 66. ATI Industrial Automation SWOT Analysis
- Table 67. ATI Industrial Automation Recent Developments
- Table 68. OnRobot Basic Information
- Table 69. OnRobot Torque Sensor for Humanoid Robot Product Overview
- Table 70. OnRobot Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M

USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. OnRobot Business Overview

Table 72. OnRobot SWOT Analysis

Table 73. OnRobot Recent Developments

Table 74. TE Connectivity Basic Information

Table 75. TE Connectivity Torque Sensor for Humanoid Robot Product Overview

Table 76. TE Connectivity Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. TE Connectivity Business Overview

Table 78. TE Connectivity SWOT Analysis

Table 79. TE Connectivity Recent Developments

Table 80. Sensodrive Basic Information

Table 81. Sensodrive Torque Sensor for Humanoid Robot Product Overview

Table 82. Sensodrive Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Sensodrive Business Overview

Table 84. Sensodrive Recent Developments

Table 85. XJCSENSOR Basic Information

Table 86. XJCSENSOR Torque Sensor for Humanoid Robot Product Overview

Table 87. XJCSENSOR Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. XJCSENSOR Business Overview

Table 89. XJCSENSOR Recent Developments

Table 90. Robotiq Basic Information

Table 91. Robotiq Torque Sensor for Humanoid Robot Product Overview

Table 92. Robotiq Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Robotiq Business Overview

Table 94. Robotiq Recent Developments

Table 95. Epson Basic Information

Table 96. Epson Torque Sensor for Humanoid Robot Product Overview

Table 97. Epson Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Epson Business Overview

Table 99. Epson Recent Developments

Table 100. Nordbo Robotics Basic Information

Table 101. Nordbo Robotics Torque Sensor for Humanoid Robot Product Overview

Table 102. Nordbo Robotics Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 103. Nordbo Robotics Business Overview
- Table 104. Nordbo Robotics Recent Developments
- Table 105. ME-Me?systeme Basic Information
- Table 106. ME-Me?systeme Torque Sensor for Humanoid Robot Product Overview
- Table 107. ME-Me?systeme Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. ME-Me?systeme Business Overview
- Table 109. ME-Me?systeme Recent Developments
- Table 110. Wacoh-Tech Basic Information
- Table 111. Wacoh-Tech Torque Sensor for Humanoid Robot Product Overview
- Table 112. Wacoh-Tech Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Wacoh-Tech Business Overview
- Table 114. Wacoh-Tech Recent Developments
- Table 115. Robotous Basic Information
- Table 116. Robotous Torque Sensor for Humanoid Robot Product Overview
- Table 117. Robotous Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Robotous Business Overview
- Table 119. Robotous Recent Developments
- Table 120. FUTEK Basic Information
- Table 121. FUTEK Torque Sensor for Humanoid Robot Product Overview
- Table 122. FUTEK Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. FUTEK Business Overview
- Table 124. FUTEK Recent Developments
- Table 125. FANUC Basic Information
- Table 126. FANUC Torque Sensor for Humanoid Robot Product Overview
- Table 127. FANUC Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. FANUC Business Overview
- Table 129. FANUC Recent Developments
- Table 130. Sintokogio Basic Information
- Table 131. Sintokogio Torque Sensor for Humanoid Robot Product Overview
- Table 132. Sintokogio Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Sintokogio Business Overview
- Table 134. Sintokogio Recent Developments
- Table 135. AL.Robot Basic Information

- Table 136. AL.Robot Torque Sensor for Humanoid Robot Product Overview
- Table 137. AL.Robot Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. AL.Robot Business Overview
- Table 139. AL.Robot Recent Developments
- Table 140. Schunk Basic Information
- Table 141. Schunk Torque Sensor for Humanoid Robot Product Overview
- Table 142. Schunk Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Schunk Business Overview
- Table 144. Schunk Recent Developments
- Table 145. Advanced Mechanical Technology Basic Information
- Table 146. Advanced Mechanical Technology Torque Sensor for Humanoid Robot Product Overview
- Table 147. Advanced Mechanical Technology Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Advanced Mechanical Technology Business Overview
- Table 149. Advanced Mechanical Technology Recent Developments
- Table 150. Kistler Basic Information
- Table 151. Kistler Torque Sensor for Humanoid Robot Product Overview
- Table 152. Kistler Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 153. Kistler Business Overview
- Table 154. Kistler Recent Developments
- Table 155. Bota Systems Basic Information
- Table 156. Bota Systems Torque Sensor for Humanoid Robot Product Overview
- Table 157. Bota Systems Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 158. Bota Systems Business Overview
- Table 159. Bota Systems Recent Developments
- Table 160. Aidin Robotics Basic Information
- Table 161. Aidin Robotics Torque Sensor for Humanoid Robot Product Overview
- Table 162. Aidin Robotics Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 163. Aidin Robotics Business Overview
- Table 164. Aidin Robotics Recent Developments
- Table 165. Changzhou Kunwei Sensing Technology Co., Ltd. Basic Information
- Table 166. Changzhou Kunwei Sensing Technology Co., Ltd. Torque Sensor for Humanoid Robot Product Overview

Table 167. Changzhou Kunwei Sensing Technology Co., Ltd. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. Changzhou Kunwei Sensing Technology Co., Ltd. Business Overview

Table 169. Changzhou Kunwei Sensing Technology Co., Ltd. Recent Developments

Table 170. SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD. Basic Information

Table 171. SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD. Torque Sensor for Humanoid Robot Product Overview

Table 172. SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD. Business Overview

Table 174. SHENZHEN XJCSENSOR TECHNOLOGY CO. , LTD. Recent Developments

Table 175. Nanjing Bio-inspired Intelligent Technology Co., Ltd Basic Information

Table 176. Nanjing Bio-inspired Intelligent Technology Co., Ltd Torque Sensor for Humanoid Robot Product Overview

Table 177. Nanjing Bio-inspired Intelligent Technology Co., Ltd Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. Nanjing Bio-inspired Intelligent Technology Co., Ltd Business Overview

Table 179. Nanjing Bio-inspired Intelligent Technology Co., Ltd Recent Developments

Table 180. Changzhou Right Measurement and control system Co.Ltd. Basic Information

Table 181. Changzhou Right Measurement and control system Co.Ltd. Torque Sensor for Humanoid Robot Product Overview

Table 182. Changzhou Right Measurement and control system Co.Ltd. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Changzhou Right Measurement and control system Co.Ltd. Business Overview

Table 184. Changzhou Right Measurement and control system Co.Ltd. Recent Developments

Table 185. Shenzhen Ampron Technology Co.,Ltd. Basic Information

Table 186. Shenzhen Ampron Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Overview

Table 187. Shenzhen Ampron Technology Co.,Ltd. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. Shenzhen Ampron Technology Co.,Ltd. Business Overview

Table 189. Shenzhen Ampron Technology Co.,Ltd. Recent Developments

Table 190. Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Basic Information

Table 191. Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Torque Sensor for Humanoid Robot Product Overview

Table 192. Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Business Overview

Table 194. Zhonghang Electronic Measuring Instruments (XI'AN) CO., LTD. Recent Developments

Table 195. Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Basic Information

Table 196. Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Torque Sensor for Humanoid Robot Product Overview

Table 197. Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Business Overview

Table 199. Beijing Tiangong Junlian Industry Equipment Technology Co.,Ltd. Recent Developments

Table 200. Shenzhen Ligent Sensor Tech Co., Ltd. Basic Information

Table 201. Shenzhen Ligent Sensor Tech Co., Ltd. Torque Sensor for Humanoid Robot Product Overview

Table 202. Shenzhen Ligent Sensor Tech Co., Ltd. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 203. Shenzhen Ligent Sensor Tech Co., Ltd. Business Overview

Table 204. Shenzhen Ligent Sensor Tech Co., Ltd. Recent Developments

Table 205. Guangzhou Haozhi Industrial Co., LTD. Basic Information

Table 206. Guangzhou Haozhi Industrial Co., LTD. Torque Sensor for Humanoid Robot Product Overview

Table 207. Guangzhou Haozhi Industrial Co., LTD. Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 208. Guangzhou Haozhi Industrial Co., LTD. Business Overview

Table 209. Guangzhou Haozhi Industrial Co., LTD. Recent Developments

Table 210. Sunrise Instruments Basic Information

Table 211. Sunrise Instruments Torque Sensor for Humanoid Robot Product Overview

Table 212. Sunrise Instruments Torque Sensor for Humanoid Robot Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 213. Sunrise Instruments Business Overview

Table 214. Sunrise Instruments Recent Developments

Table 215. Global Torque Sensor for Humanoid Robot Sales Forecast by Region (2026-2035) & (K Units)

Table 216. Global Torque Sensor for Humanoid Robot Market Size Forecast by Region (2026-2035) & (M USD)

Table 217. North America Torque Sensor for Humanoid Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 218. North America Torque Sensor for Humanoid Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 219. Europe Torque Sensor for Humanoid Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 220. Europe Torque Sensor for Humanoid Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 221. Asia Pacific Torque Sensor for Humanoid Robot Sales Forecast by Region (2026-2035) & (K Units)

Table 222. Asia Pacific Torque Sensor for Humanoid Robot Market Size Forecast by Region (2026-2035) & (M USD)

Table 223. South America Torque Sensor for Humanoid Robot Sales Forecast by Country (2026-2035) & (K Units)

Table 224. South America Torque Sensor for Humanoid Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 225. Middle East and Africa Torque Sensor for Humanoid Robot Sales Forecast by Country (2026-2035) & (Units)

Table 226. Middle East and Africa Torque Sensor for Humanoid Robot Market Size Forecast by Country (2026-2035) & (M USD)

Table 227. Global Torque Sensor for Humanoid Robot Sales Forecast by Type (2026-2035) & (K Units)

Table 228. Global Torque Sensor for Humanoid Robot Market Size Forecast by Type (2026-2035) & (M USD)

Table 229. Global Torque Sensor for Humanoid Robot Price Forecast by Type (2026-2035) & (USD/Unit)

Table 230. Global Torque Sensor for Humanoid Robot Sales (K Units) Forecast by Application (2026-2035)

Table 231. Global Torque Sensor for Humanoid Robot Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Torque Sensor for Humanoid Robot
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Torque Sensor for Humanoid Robot Market Size (M USD), 2025-2035
- Figure 5. Global Torque Sensor for Humanoid Robot Market Size (M USD) (2020-2035)
- Figure 6. Global Torque Sensor for Humanoid Robot Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Torque Sensor for Humanoid Robot Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Torque Sensor for Humanoid Robot Product Life Cycle
- Figure 13. Torque Sensor for Humanoid Robot Sales Share by Manufacturers in 2025
- Figure 14. Global Torque Sensor for Humanoid Robot Revenue Share by Manufacturers in 2025
- Figure 15. Torque Sensor for Humanoid Robot Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Torque Sensor for Humanoid Robot Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Torque Sensor for Humanoid Robot Revenue in 2025
- Figure 18. Industry Chain Map of Torque Sensor for Humanoid Robot
- Figure 19. Global Torque Sensor for Humanoid Robot Market PEST Analysis
- Figure 20. Global Torque Sensor for Humanoid Robot Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Torque Sensor for Humanoid Robot Market Share by Type
- Figure 27. Sales Market Share of Torque Sensor for Humanoid Robot by Type (2020-2025)
- Figure 28. Sales Market Share of Torque Sensor for Humanoid Robot by Type in 2025
- Figure 29. Market Share of Torque Sensor for Humanoid Robot by Type (2020-2025)

- Figure 30. Market Share of Torque Sensor for Humanoid Robot by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Torque Sensor for Humanoid Robot Market Share by Application
- Figure 33. Global Torque Sensor for Humanoid Robot Sales Market Share by Application (2020-2025)
- Figure 34. Global Torque Sensor for Humanoid Robot Sales Market Share by Application in 2025
- Figure 35. Global Torque Sensor for Humanoid Robot Market Share by Application (2020-2025)
- Figure 36. Global Torque Sensor for Humanoid Robot Market Share by Application in 2025
- Figure 37. Global Torque Sensor for Humanoid Robot Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Torque Sensor for Humanoid Robot Sales Market Share by Region (2020-2025)
- Figure 39. Global Torque Sensor for Humanoid Robot Market Size by Region (2020-2025)
- Figure 40. North America Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Torque Sensor for Humanoid Robot Sales Market Share by Country in 2024
- Figure 43. North America Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Torque Sensor for Humanoid Robot Market Size by Country in 2024
- Figure 45. U.S. Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Torque Sensor for Humanoid Robot Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Torque Sensor for Humanoid Robot Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Torque Sensor for Humanoid Robot Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Torque Sensor for Humanoid Robot Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Torque Sensor for Humanoid Robot Sales Market Share by Country in 2024

Figure 53. Europe Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Torque Sensor for Humanoid Robot Market Size by Country in 2024

Figure 55. Germany Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Torque Sensor for Humanoid Robot Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Torque Sensor for Humanoid Robot Sales Market Share by Region in 2024

Figure 67. Asia Pacific Torque Sensor for Humanoid Robot Market Size by Region in 2024

Figure 68. China Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Torque Sensor for Humanoid Robot Sales and Growth Rate (K Units)

Figure 79. South America Torque Sensor for Humanoid Robot Sales Market Share by Country in 2024

Figure 80. South America Torque Sensor for Humanoid Robot Market Size and Growth Rate (M USD)

Figure 81. South America Torque Sensor for Humanoid Robot Market Size by Country in 2024

Figure 82. Brazil Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Torque Sensor for Humanoid Robot Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Torque Sensor for Humanoid Robot Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Torque Sensor for Humanoid Robot Market Size and

Growth Rate (M USD)

Figure 91. Middle East and Africa Torque Sensor for Humanoid Robot Market Size by Region in 2024

Figure 92. Saudi Arabia Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Torque Sensor for Humanoid Robot Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Torque Sensor for Humanoid Robot Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Torque Sensor for Humanoid Robot Production Market Share by Region (2020-2025)

Figure 103. North America Torque Sensor for Humanoid Robot Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Torque Sensor for Humanoid Robot Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Torque Sensor for Humanoid Robot Production (K Units) Growth Rate (2020-2025)

Figure 106. China Torque Sensor for Humanoid Robot Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Torque Sensor for Humanoid Robot Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Torque Sensor for Humanoid Robot Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Torque Sensor for Humanoid Robot Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Torque Sensor for Humanoid Robot Market Share Forecast by Type (2026-2035)

Figure 111. Global Torque Sensor for Humanoid Robot Sales Forecast by Application (2026-2035)

Figure 112. Global Torque Sensor for Humanoid Robot Market Share Forecast by Application (2026-2035)

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