

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

<https://marketpublishers.com/r/G7378F95C660EN.html>

Date: June 2026

Pages: 194

Price: US\$ 4,480.00 (Single User License)

ID: G7378F95C660EN

Abstracts

The global Humanoid Robot Force-Torque Sensor market size is expected to reach \$ 6414 million by 2032, rising at a market growth of 37.1% CAGR during the forecast period (2026-2032).

In 2025, global Humanoid Robot Force-Torque Sensor production reached approximately 544.00 k units, with an average global market price of around US\$1,250 per unit.

The gross profit margin of major companies in the industry is between 35%–55%.

In 2025, the global production capacity of Humanoid Robot Force-Torque Sensor was approximately 725.33 k units.

Humanoid Robot Force-Torque Sensor is a precision sensing component used to measure multi-axis force and torque signals in humanoid robot joints, wrists, ankles, hands, and interaction modules. It helps robots achieve balance control, compliant motion, grasping feedback, collision detection, and safe human-machine interaction.

The industrial chain of Humanoid Robot Force-Torque Sensor covers upstream materials and components such as elastic bodies, strain gauges, MEMS chips, signal conditioning circuits, connectors, precision machining parts, calibration equipment, and packaging materials. The midstream consists of sensor design, micro-deformation structure processing, circuit integration, signal calibration, temperature compensation, assembly, and reliability testing. Downstream applications mainly include humanoid robots, collaborative robots, dexterous hands, rehabilitation equipment, industrial automation, and research platforms.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Humanoid Robot Force-Torque Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ATI Industrial Automation, Bota Systems, Schunk, OnRobot, Robotiq, FUTEK Advanced Sensor Technology, Kistler, HBK, JR3, Wacoh-Tech, etc.

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

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

Detailed Segmentation:

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

Global Humanoid Robot Force-Torque Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Single-Axis Force-Torque Sensor

Three-Axis Force-Torque Sensor

Six-Axis Force-Torque Sensor

Global Humanoid Robot Force-Torque Sensor Market, Segmentation by Sensing Technology:

Strain Gauge Force-Torque Sensor

Capacitive Force-Torque Sensor

Optical Force-Torque Sensor

Global Humanoid Robot Force-Torque Sensor Market, Segmentation by Rated Load:

Low-Load Force-Torque Sensor ($\leq 50\text{N}$)

Medium-Load Force-Torque Sensor (50–200N)

High-Load Force-Torque Sensor (>200N)

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

Humanoid Robot Manufacturing

Collaborative Robot Control

Research and Testing Equipment

Other

Companies Profiled:

ATI Industrial Automation

Bota Systems

Schunk

OnRobot

Robotiq

FUTEK Advanced Sensor Technology

Kistler

HBK

JR3

Wacoh-Tech

Nitta Corporation

MinebeaMitsumi

Nordbo Robotics

SynTouch

Kunwei Technology

SRI

Xinjingcheng Sensor

Huiding Intelligent

AFT Sensor

BlueDot Touch

Paxini Technology

Hefei Xinghui Sensing Technology

Hypersen

Haozhi Electromechanical

ZEMIC

Hefei IntelliSense Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

2.8 ASEAN Humanoid Robot Force-Torque Sensor Consumption (2021-2032)

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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

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

3.4 Humanoid Robot Force-Torque Sensor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

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

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

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

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

3.6.1 Humanoid Robot Force-Torque Sensor Market: Region Footprint

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

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

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

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

5.2 Segment Introduction by Type

5.2.1 Single-Axis Force-Torque Sensor

5.2.2 Three-Axis Force-Torque Sensor

5.2.3 Six-Axis Force-Torque Sensor

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY SENSING TECHNOLOGY

6.1 World Humanoid Robot Force-Torque Sensor Market Size Overview by Sensing Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Sensing Technology

6.2.1 Strain Gauge Force-Torque Sensor

6.2.2 Capacitive Force-Torque Sensor

6.2.3 Optical Force-Torque Sensor

6.3 Market Segment by Sensing Technology

6.3.1 World Humanoid Robot Force-Torque Sensor Production by Sensing Technology (2021-2032)

6.3.2 World Humanoid Robot Force-Torque Sensor Production Value by Sensing Technology (2021-2032)

6.3.3 World Humanoid Robot Force-Torque Sensor Average Price by Sensing Technology (2021-2032)

7 MARKET ANALYSIS BY RATED LOAD

7.1 World Humanoid Robot Force-Torque Sensor Market Size Overview by Rated Load: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Rated Load

7.2.1 Low-Load Force-Torque Sensor (?50N)

7.2.2 Medium-Load Force-Torque Sensor (50–200N)

7.2.3 High-Load Force-Torque Sensor (?200N)

7.3 Market Segment by Rated Load

7.3.1 World Humanoid Robot Force-Torque Sensor Production by Rated Load

(2021-2032)

7.3.2 World Humanoid Robot Force-Torque Sensor Production Value by Rated Load

(2021-2032)

7.3.3 World Humanoid Robot Force-Torque Sensor Average Price by Rated Load

(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

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

8.2 Segment Introduction by Application

8.2.1 Humanoid Robot Manufacturing

8.2.2 Collaborative Robot Control

8.2.3 Research and Testing Equipment

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Humanoid Robot Force-Torque Sensor Production by Application

(2021-2032)

8.3.2 World Humanoid Robot Force-Torque Sensor Production Value by Application

(2021-2032)

8.3.3 World Humanoid Robot Force-Torque Sensor Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 ATI Industrial Automation

9.1.1 ATI Industrial Automation Details

9.1.2 ATI Industrial Automation Major Business

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

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

9.1.5 ATI Industrial Automation Recent Developments/Updates

9.1.6 ATI Industrial Automation Competitive Strengths & Weaknesses

9.2 Bota Systems

9.2.1 Bota Systems Details

9.2.2 Bota Systems Major Business

9.2.3 Bota Systems Humanoid Robot Force-Torque Sensor Product and Services

9.2.4 Bota Systems Humanoid Robot Force-Torque Sensor Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.2.5 Bota Systems Recent Developments/Updates

9.2.6 Bota Systems Competitive Strengths & Weaknesses

9.3 Schunk

9.3.1 Schunk Details

9.3.2 Schunk Major Business

9.3.3 Schunk Humanoid Robot Force-Torque Sensor Product and Services

9.3.4 Schunk Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Schunk Recent Developments/Updates

9.3.6 Schunk Competitive Strengths & Weaknesses

9.4 OnRobot

9.4.1 OnRobot Details

9.4.2 OnRobot Major Business

9.4.3 OnRobot Humanoid Robot Force-Torque Sensor Product and Services

9.4.4 OnRobot Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 OnRobot Recent Developments/Updates

9.4.6 OnRobot Competitive Strengths & Weaknesses

9.5 Robotiq

9.5.1 Robotiq Details

9.5.2 Robotiq Major Business

9.5.3 Robotiq Humanoid Robot Force-Torque Sensor Product and Services

9.5.4 Robotiq Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Robotiq Recent Developments/Updates

9.5.6 Robotiq Competitive Strengths & Weaknesses

9.6 FUTEK Advanced Sensor Technology

9.6.1 FUTEK Advanced Sensor Technology Details

9.6.2 FUTEK Advanced Sensor Technology Major Business

9.6.3 FUTEK Advanced Sensor Technology Humanoid Robot Force-Torque Sensor Product and Services

9.6.4 FUTEK Advanced Sensor Technology Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 FUTEK Advanced Sensor Technology Recent Developments/Updates

9.6.6 FUTEK Advanced Sensor Technology Competitive Strengths & Weaknesses

9.7 Kistler

9.7.1 Kistler Details

9.7.2 Kistler Major Business

- 9.7.3 Kistler Humanoid Robot Force-Torque Sensor Product and Services
- 9.7.4 Kistler Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Kistler Recent Developments/Updates
- 9.7.6 Kistler Competitive Strengths & Weaknesses
- 9.8 HBK
 - 9.8.1 HBK Details
 - 9.8.2 HBK Major Business
 - 9.8.3 HBK Humanoid Robot Force-Torque Sensor Product and Services
 - 9.8.4 HBK Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 HBK Recent Developments/Updates
 - 9.8.6 HBK Competitive Strengths & Weaknesses
- 9.9 JR3
 - 9.9.1 JR3 Details
 - 9.9.2 JR3 Major Business
 - 9.9.3 JR3 Humanoid Robot Force-Torque Sensor Product and Services
 - 9.9.4 JR3 Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 JR3 Recent Developments/Updates
 - 9.9.6 JR3 Competitive Strengths & Weaknesses
- 9.10 Wacoh-Tech
 - 9.10.1 Wacoh-Tech Details
 - 9.10.2 Wacoh-Tech Major Business
 - 9.10.3 Wacoh-Tech Humanoid Robot Force-Torque Sensor Product and Services
 - 9.10.4 Wacoh-Tech Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Wacoh-Tech Recent Developments/Updates
 - 9.10.6 Wacoh-Tech Competitive Strengths & Weaknesses
- 9.11 Nitta Corporation
 - 9.11.1 Nitta Corporation Details
 - 9.11.2 Nitta Corporation Major Business
 - 9.11.3 Nitta Corporation Humanoid Robot Force-Torque Sensor Product and Services
 - 9.11.4 Nitta Corporation Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Nitta Corporation Recent Developments/Updates
 - 9.11.6 Nitta Corporation Competitive Strengths & Weaknesses
- 9.12 MinebeaMitsumi
 - 9.12.1 MinebeaMitsumi Details

- 9.12.2 MinebeaMitsumi Major Business
- 9.12.3 MinebeaMitsumi Humanoid Robot Force-Torque Sensor Product and Services
- 9.12.4 MinebeaMitsumi Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 MinebeaMitsumi Recent Developments/Updates
- 9.12.6 MinebeaMitsumi Competitive Strengths & Weaknesses
- 9.13 Nordbo Robotics
 - 9.13.1 Nordbo Robotics Details
 - 9.13.2 Nordbo Robotics Major Business
 - 9.13.3 Nordbo Robotics Humanoid Robot Force-Torque Sensor Product and Services
 - 9.13.4 Nordbo Robotics Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Nordbo Robotics Recent Developments/Updates
 - 9.13.6 Nordbo Robotics Competitive Strengths & Weaknesses
- 9.14 SynTouch
 - 9.14.1 SynTouch Details
 - 9.14.2 SynTouch Major Business
 - 9.14.3 SynTouch Humanoid Robot Force-Torque Sensor Product and Services
 - 9.14.4 SynTouch Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 SynTouch Recent Developments/Updates
 - 9.14.6 SynTouch Competitive Strengths & Weaknesses
- 9.15 Kunwei Technology
 - 9.15.1 Kunwei Technology Details
 - 9.15.2 Kunwei Technology Major Business
 - 9.15.3 Kunwei Technology Humanoid Robot Force-Torque Sensor Product and Services
 - 9.15.4 Kunwei Technology Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Kunwei Technology Recent Developments/Updates
 - 9.15.6 Kunwei Technology Competitive Strengths & Weaknesses
- 9.16 SRI
 - 9.16.1 SRI Details
 - 9.16.2 SRI Major Business
 - 9.16.3 SRI Humanoid Robot Force-Torque Sensor Product and Services
 - 9.16.4 SRI Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 SRI Recent Developments/Updates
 - 9.16.6 SRI Competitive Strengths & Weaknesses

9.17 Xinjingcheng Sensor

9.17.1 Xinjingcheng Sensor Details

9.17.2 Xinjingcheng Sensor Major Business

9.17.3 Xinjingcheng Sensor Humanoid Robot Force-Torque Sensor Product and Services

9.17.4 Xinjingcheng Sensor Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Xinjingcheng Sensor Recent Developments/Updates

9.17.6 Xinjingcheng Sensor Competitive Strengths & Weaknesses

9.18 Huiding Intelligent

9.18.1 Huiding Intelligent Details

9.18.2 Huiding Intelligent Major Business

9.18.3 Huiding Intelligent Humanoid Robot Force-Torque Sensor Product and Services

9.18.4 Huiding Intelligent Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Huiding Intelligent Recent Developments/Updates

9.18.6 Huiding Intelligent Competitive Strengths & Weaknesses

9.19 AFT Sensor

9.19.1 AFT Sensor Details

9.19.2 AFT Sensor Major Business

9.19.3 AFT Sensor Humanoid Robot Force-Torque Sensor Product and Services

9.19.4 AFT Sensor Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 AFT Sensor Recent Developments/Updates

9.19.6 AFT Sensor Competitive Strengths & Weaknesses

9.20 BlueDot Touch

9.20.1 BlueDot Touch Details

9.20.2 BlueDot Touch Major Business

9.20.3 BlueDot Touch Humanoid Robot Force-Torque Sensor Product and Services

9.20.4 BlueDot Touch Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 BlueDot Touch Recent Developments/Updates

9.20.6 BlueDot Touch Competitive Strengths & Weaknesses

9.21 Paxini Technology

9.21.1 Paxini Technology Details

9.21.2 Paxini Technology Major Business

9.21.3 Paxini Technology Humanoid Robot Force-Torque Sensor Product and Services

9.21.4 Paxini Technology Humanoid Robot Force-Torque Sensor Production, Price,

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

9.21.5 Paxini Technology Recent Developments/Updates

9.21.6 Paxini Technology Competitive Strengths & Weaknesses

9.22 Hefei Xinghui Sensing Technology

9.22.1 Hefei Xinghui Sensing Technology Details

9.22.2 Hefei Xinghui Sensing Technology Major Business

9.22.3 Hefei Xinghui Sensing Technology Humanoid Robot Force-Torque Sensor Product and Services

9.22.4 Hefei Xinghui Sensing Technology Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Hefei Xinghui Sensing Technology Recent Developments/Updates

9.22.6 Hefei Xinghui Sensing Technology Competitive Strengths & Weaknesses

9.23 Hypersen

9.23.1 Hypersen Details

9.23.2 Hypersen Major Business

9.23.3 Hypersen Humanoid Robot Force-Torque Sensor Product and Services

9.23.4 Hypersen Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Hypersen Recent Developments/Updates

9.23.6 Hypersen Competitive Strengths & Weaknesses

9.24 Haozhi Electromechanical

9.24.1 Haozhi Electromechanical Details

9.24.2 Haozhi Electromechanical Major Business

9.24.3 Haozhi Electromechanical Humanoid Robot Force-Torque Sensor Product and Services

9.24.4 Haozhi Electromechanical Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Haozhi Electromechanical Recent Developments/Updates

9.24.6 Haozhi Electromechanical Competitive Strengths & Weaknesses

9.25 ZEMIC

9.25.1 ZEMIC Details

9.25.2 ZEMIC Major Business

9.25.3 ZEMIC Humanoid Robot Force-Torque Sensor Product and Services

9.25.4 ZEMIC Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.25.5 ZEMIC Recent Developments/Updates

9.25.6 ZEMIC Competitive Strengths & Weaknesses

9.26 Hefei IntelliSense Technology

9.26.1 Hefei IntelliSense Technology Details

- 9.26.2 Hefei IntelliSense Technology Major Business
- 9.26.3 Hefei IntelliSense Technology Humanoid Robot Force-Torque Sensor Product and Services
- 9.26.4 Hefei IntelliSense Technology Humanoid Robot Force-Torque Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.26.5 Hefei IntelliSense Technology Recent Developments/Updates
- 9.26.6 Hefei IntelliSense Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Humanoid Robot Force-Torque Sensor Industry Chain
- 10.2 Humanoid Robot Force-Torque Sensor Upstream Analysis
 - 10.2.1 Humanoid Robot Force-Torque Sensor Core Raw Materials
 - 10.2.2 Main Manufacturers of Humanoid Robot Force-Torque Sensor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Humanoid Robot Force-Torque Sensor Production Mode
- 10.6 Humanoid Robot Force-Torque Sensor Procurement Model
- 10.7 Humanoid Robot Force-Torque Sensor Industry Sales Model and Sales Channels
 - 10.7.1 Humanoid Robot Force-Torque Sensor Sales Model
 - 10.7.2 Humanoid Robot Force-Torque Sensor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Humanoid Robot Force-Torque Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Humanoid Robot Force-Torque Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Humanoid Robot Force-Torque Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Region (2021-2026)

Table 5. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Region (2027-2032)

Table 6. World Humanoid Robot Force-Torque Sensor Production by Region (2021-2026) & (K Units)

Table 7. World Humanoid Robot Force-Torque Sensor Production by Region (2027-2032) & (K Units)

Table 8. World Humanoid Robot Force-Torque Sensor Production Market Share by Region (2021-2026)

Table 9. World Humanoid Robot Force-Torque Sensor Production Market Share by Region (2027-2032)

Table 10. World Humanoid Robot Force-Torque Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Humanoid Robot Force-Torque Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Humanoid Robot Force-Torque Sensor Major Market Trends

Table 13. World Humanoid Robot Force-Torque Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Humanoid Robot Force-Torque Sensor Consumption by Region (2021-2026) & (K Units)

Table 15. World Humanoid Robot Force-Torque Sensor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Humanoid Robot Force-Torque Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Humanoid Robot Force-Torque Sensor Producers in 2025

Table 18. World Humanoid Robot Force-Torque Sensor Production by Manufacturer (2021-2026) & (K Units)

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

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

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

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

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

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

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

Table 26. Humanoid Robot Force-Torque Sensor Competitive Factors

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 40. China Based Manufacturers Humanoid Robot Force-Torque Sensor Production, (2021-2026) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 54. World Humanoid Robot Force-Torque Sensor Production Value by Sensing Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Humanoid Robot Force-Torque Sensor Production by Sensing Technology (2021-2026) & (K Units)

Table 56. World Humanoid Robot Force-Torque Sensor Production by Sensing Technology (2027-2032) & (K Units)

Table 57. World Humanoid Robot Force-Torque Sensor Production Value by Sensing Technology (2021-2026) & (USD Million)

Table 58. World Humanoid Robot Force-Torque Sensor Production Value by Sensing Technology (2027-2032) & (USD Million)

Table 59. World Humanoid Robot Force-Torque Sensor Average Price by Sensing

Technology (2021-2026) & (US\$/Unit)

Table 60. World Humanoid Robot Force-Torque Sensor Average Price by Sensing Technology (2027-2032) & (US\$/Unit)

Table 61. World Humanoid Robot Force-Torque Sensor Production Value by Rated Load, (USD Million), 2021 & 2025 & 2032

Table 62. World Humanoid Robot Force-Torque Sensor Production by Rated Load (2021-2026) & (K Units)

Table 63. World Humanoid Robot Force-Torque Sensor Production by Rated Load (2027-2032) & (K Units)

Table 64. World Humanoid Robot Force-Torque Sensor Production Value by Rated Load (2021-2026) & (USD Million)

Table 65. World Humanoid Robot Force-Torque Sensor Production Value by Rated Load (2027-2032) & (USD Million)

Table 66. World Humanoid Robot Force-Torque Sensor Average Price by Rated Load (2021-2026) & (US\$/Unit)

Table 67. World Humanoid Robot Force-Torque Sensor Average Price by Rated Load (2027-2032) & (US\$/Unit)

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

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

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

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

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

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

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

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

Table 76. ATI Industrial Automation Major Business

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

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

- Table 79. ATI Industrial Automation Recent Developments/Updates
- Table 80. ATI Industrial Automation Competitive Strengths & Weaknesses
- Table 81. Bota Systems Basic Information, Manufacturing Base and Competitors
- Table 82. Bota Systems Major Business
- Table 83. Bota Systems Humanoid Robot Force-Torque Sensor Product and Services
- Table 84. Bota Systems Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Bota Systems Recent Developments/Updates
- Table 86. Bota Systems Competitive Strengths & Weaknesses
- Table 87. Schunk Basic Information, Manufacturing Base and Competitors
- Table 88. Schunk Major Business
- Table 89. Schunk Humanoid Robot Force-Torque Sensor Product and Services
- Table 90. Schunk Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Schunk Recent Developments/Updates
- Table 92. Schunk Competitive Strengths & Weaknesses
- Table 93. OnRobot Basic Information, Manufacturing Base and Competitors
- Table 94. OnRobot Major Business
- Table 95. OnRobot Humanoid Robot Force-Torque Sensor Product and Services
- Table 96. OnRobot Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. OnRobot Recent Developments/Updates
- Table 98. OnRobot Competitive Strengths & Weaknesses
- Table 99. Robotiq Basic Information, Manufacturing Base and Competitors
- Table 100. Robotiq Major Business
- Table 101. Robotiq Humanoid Robot Force-Torque Sensor Product and Services
- Table 102. Robotiq Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Robotiq Recent Developments/Updates
- Table 104. Robotiq Competitive Strengths & Weaknesses
- Table 105. FUTEK Advanced Sensor Technology Basic Information, Manufacturing Base and Competitors
- Table 106. FUTEK Advanced Sensor Technology Major Business
- Table 107. FUTEK Advanced Sensor Technology Humanoid Robot Force-Torque Sensor Product and Services

Table 108. FUTEK Advanced Sensor Technology Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. FUTEK Advanced Sensor Technology Recent Developments/Updates

Table 110. FUTEK Advanced Sensor Technology Competitive Strengths & Weaknesses

Table 111. Kistler Basic Information, Manufacturing Base and Competitors

Table 112. Kistler Major Business

Table 113. Kistler Humanoid Robot Force-Torque Sensor Product and Services

Table 114. Kistler Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Kistler Recent Developments/Updates

Table 116. Kistler Competitive Strengths & Weaknesses

Table 117. HBK Basic Information, Manufacturing Base and Competitors

Table 118. HBK Major Business

Table 119. HBK Humanoid Robot Force-Torque Sensor Product and Services

Table 120. HBK Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. HBK Recent Developments/Updates

Table 122. HBK Competitive Strengths & Weaknesses

Table 123. JR3 Basic Information, Manufacturing Base and Competitors

Table 124. JR3 Major Business

Table 125. JR3 Humanoid Robot Force-Torque Sensor Product and Services

Table 126. JR3 Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. JR3 Recent Developments/Updates

Table 128. JR3 Competitive Strengths & Weaknesses

Table 129. Wacoh-Tech Basic Information, Manufacturing Base and Competitors

Table 130. Wacoh-Tech Major Business

Table 131. Wacoh-Tech Humanoid Robot Force-Torque Sensor Product and Services

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

Table 133. Wacoh-Tech Recent Developments/Updates

Table 134. Wacoh-Tech Competitive Strengths & Weaknesses

Table 135. Nitta Corporation Basic Information, Manufacturing Base and Competitors

Table 136. Nitta Corporation Major Business

Table 137. Nitta Corporation Humanoid Robot Force-Torque Sensor Product and Services

Table 138. Nitta Corporation Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Nitta Corporation Recent Developments/Updates

Table 140. Nitta Corporation Competitive Strengths & Weaknesses

Table 141. MinebeaMitsumi Basic Information, Manufacturing Base and Competitors

Table 142. MinebeaMitsumi Major Business

Table 143. MinebeaMitsumi Humanoid Robot Force-Torque Sensor Product and Services

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

Table 145. MinebeaMitsumi Recent Developments/Updates

Table 146. MinebeaMitsumi Competitive Strengths & Weaknesses

Table 147. Nordbo Robotics Basic Information, Manufacturing Base and Competitors

Table 148. Nordbo Robotics Major Business

Table 149. Nordbo Robotics Humanoid Robot Force-Torque Sensor Product and Services

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

Table 151. Nordbo Robotics Recent Developments/Updates

Table 152. Nordbo Robotics Competitive Strengths & Weaknesses

Table 153. SynTouch Basic Information, Manufacturing Base and Competitors

Table 154. SynTouch Major Business

Table 155. SynTouch Humanoid Robot Force-Torque Sensor Product and Services

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

Table 157. SynTouch Recent Developments/Updates

Table 158. SynTouch Competitive Strengths & Weaknesses

Table 159. Kunwei Technology Basic Information, Manufacturing Base and Competitors

Table 160. Kunwei Technology Major Business

Table 161. Kunwei Technology Humanoid Robot Force-Torque Sensor Product and Services

Table 162. Kunwei Technology Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 163. Kunwei Technology Recent Developments/Updates

Table 164. Kunwei Technology Competitive Strengths & Weaknesses

Table 165. SRI Basic Information, Manufacturing Base and Competitors

Table 166. SRI Major Business

Table 167. SRI Humanoid Robot Force-Torque Sensor Product and Services

Table 168. SRI Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. SRI Recent Developments/Updates

Table 170. SRI Competitive Strengths & Weaknesses

Table 171. Xinjingcheng Sensor Basic Information, Manufacturing Base and Competitors

Table 172. Xinjingcheng Sensor Major Business

Table 173. Xinjingcheng Sensor Humanoid Robot Force-Torque Sensor Product and Services

Table 174. Xinjingcheng Sensor Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Xinjingcheng Sensor Recent Developments/Updates

Table 176. Xinjingcheng Sensor Competitive Strengths & Weaknesses

Table 177. Huiding Intelligent Basic Information, Manufacturing Base and Competitors

Table 178. Huiding Intelligent Major Business

Table 179. Huiding Intelligent Humanoid Robot Force-Torque Sensor Product and Services

Table 180. Huiding Intelligent Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Huiding Intelligent Recent Developments/Updates

Table 182. Huiding Intelligent Competitive Strengths & Weaknesses

Table 183. AFT Sensor Basic Information, Manufacturing Base and Competitors

Table 184. AFT Sensor Major Business

Table 185. AFT Sensor Humanoid Robot Force-Torque Sensor Product and Services

Table 186. AFT Sensor Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. AFT Sensor Recent Developments/Updates

Table 188. AFT Sensor Competitive Strengths & Weaknesses

Table 189. BlueDot Touch Basic Information, Manufacturing Base and Competitors

- Table 190. BlueDot Touch Major Business
- Table 191. BlueDot Touch Humanoid Robot Force-Torque Sensor Product and Services
- Table 192. BlueDot Touch Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 193. BlueDot Touch Recent Developments/Updates
- Table 194. BlueDot Touch Competitive Strengths & Weaknesses
- Table 195. Paxini Technology Basic Information, Manufacturing Base and Competitors
- Table 196. Paxini Technology Major Business
- Table 197. Paxini Technology Humanoid Robot Force-Torque Sensor Product and Services
- Table 198. Paxini Technology Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. Paxini Technology Recent Developments/Updates
- Table 200. Paxini Technology Competitive Strengths & Weaknesses
- Table 201. Hefei Xinghui Sensing Technology Basic Information, Manufacturing Base and Competitors
- Table 202. Hefei Xinghui Sensing Technology Major Business
- Table 203. Hefei Xinghui Sensing Technology Humanoid Robot Force-Torque Sensor Product and Services
- Table 204. Hefei Xinghui Sensing Technology Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 205. Hefei Xinghui Sensing Technology Recent Developments/Updates
- Table 206. Hefei Xinghui Sensing Technology Competitive Strengths & Weaknesses
- Table 207. Hypersen Basic Information, Manufacturing Base and Competitors
- Table 208. Hypersen Major Business
- Table 209. Hypersen Humanoid Robot Force-Torque Sensor Product and Services
- Table 210. Hypersen Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 211. Hypersen Recent Developments/Updates
- Table 212. Hypersen Competitive Strengths & Weaknesses
- Table 213. Haozhi Electromechanical Basic Information, Manufacturing Base and Competitors
- Table 214. Haozhi Electromechanical Major Business
- Table 215. Haozhi Electromechanical Humanoid Robot Force-Torque Sensor Product and Services

Table 216. Haozhi Electromechanical Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Haozhi Electromechanical Recent Developments/Updates

Table 218. Haozhi Electromechanical Competitive Strengths & Weaknesses

Table 219. ZEMIC Basic Information, Manufacturing Base and Competitors

Table 220. ZEMIC Major Business

Table 221. ZEMIC Humanoid Robot Force-Torque Sensor Product and Services

Table 222. ZEMIC Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. ZEMIC Recent Developments/Updates

Table 224. ZEMIC Competitive Strengths & Weaknesses

Table 225. Hefei IntelliSense Technology Basic Information, Manufacturing Base and Competitors

Table 226. Hefei IntelliSense Technology Major Business

Table 227. Hefei IntelliSense Technology Humanoid Robot Force-Torque Sensor Product and Services

Table 228. Hefei IntelliSense Technology Humanoid Robot Force-Torque Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Hefei IntelliSense Technology Recent Developments/Updates

Table 230. Hefei IntelliSense Technology Competitive Strengths & Weaknesses

Table 231. Global Key Players of Humanoid Robot Force-Torque Sensor Upstream (Raw Materials)

Table 232. Global Humanoid Robot Force-Torque Sensor Typical Customers

Table 233. Humanoid Robot Force-Torque Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Humanoid Robot Force-Torque Sensor Picture
- Figure 2. World Humanoid Robot Force-Torque Sensor Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Humanoid Robot Force-Torque Sensor Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Humanoid Robot Force-Torque Sensor Production (2021-2032) & (K Units)
- Figure 5. World Humanoid Robot Force-Torque Sensor Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Region (2021-2032)
- Figure 7. World Humanoid Robot Force-Torque Sensor Production Market Share by Region (2021-2032)
- Figure 8. North America Humanoid Robot Force-Torque Sensor Production (2021-2032) & (K Units)
- Figure 9. Europe Humanoid Robot Force-Torque Sensor Production (2021-2032) & (K Units)
- Figure 10. China Humanoid Robot Force-Torque Sensor Production (2021-2032) & (K Units)
- Figure 11. Japan Humanoid Robot Force-Torque Sensor Production (2021-2032) & (K Units)
- Figure 12. Humanoid Robot Force-Torque Sensor Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)
- Figure 15. World Humanoid Robot Force-Torque Sensor Consumption Market Share by Region (2021-2032)
- Figure 16. United States Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)
- Figure 17. China Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)
- Figure 18. Europe Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)
- Figure 19. Japan Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)

Figure 20. South Korea Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)

Figure 22. India Humanoid Robot Force-Torque Sensor Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Humanoid Robot Force-Torque Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Humanoid Robot Force-Torque Sensor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Humanoid Robot Force-Torque Sensor Markets in 2025

Figure 26. United States VS China: Humanoid Robot Force-Torque Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

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

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

Figure 29. United States Based Manufacturers Humanoid Robot Force-Torque Sensor Production Market Share 2025

Figure 30. China Based Manufacturers Humanoid Robot Force-Torque Sensor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Humanoid Robot Force-Torque Sensor Production Market Share 2025

Figure 32. World Humanoid Robot Force-Torque Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Type in 2025

Figure 34. Single-Axis Force-Torque Sensor

Figure 35. Three-Axis Force-Torque Sensor

Figure 36. Six-Axis Force-Torque Sensor

Figure 37. World Humanoid Robot Force-Torque Sensor Production Market Share by Type (2021-2032)

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

Figure 39. World Humanoid Robot Force-Torque Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Humanoid Robot Force-Torque Sensor Production Value by Sensing Technology, (USD Million), 2021 & 2025 & 2032

Figure 41. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Sensing Technology in 2025

Figure 42. Strain Gauge Force-Torque Sensor

Figure 43. Capacitive Force-Torque Sensor

Figure 44. Optical Force-Torque Sensor

Figure 45. World Humanoid Robot Force-Torque Sensor Production Market Share by Sensing Technology (2021-2032)

Figure 46. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Sensing Technology (2021-2032)

Figure 47. World Humanoid Robot Force-Torque Sensor Average Price by Sensing Technology (2021-2032) & (US\$/Unit)

Figure 48. World Humanoid Robot Force-Torque Sensor Production Value by Rated Load, (USD Million), 2021 & 2025 & 2032

Figure 49. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Rated Load in 2025

Figure 50. Low-Load Force-Torque Sensor ($\leq 50\text{N}$)

Figure 51. Medium-Load Force-Torque Sensor (50–200N)

Figure 52. High-Load Force-Torque Sensor (>200N)

Figure 53. World Humanoid Robot Force-Torque Sensor Production Market Share by Rated Load (2021-2032)

Figure 54. World Humanoid Robot Force-Torque Sensor Production Value Market Share by Rated Load (2021-2032)

Figure 55. World Humanoid Robot Force-Torque Sensor Average Price by Rated Load (2021-2032) & (US\$/Unit)

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

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

Figure 58. Humanoid Robot Manufacturing

Figure 59. Collaborative Robot Control

Figure 60. Research and Testing Equipment

Figure 61. Other

Figure 62. World Humanoid Robot Force-Torque Sensor Production Market Share by Application (2021-2032)

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

Figure 64. World Humanoid Robot Force-Torque Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Humanoid Robot Force-Torque Sensor Industry Chain

Figure 66. Humanoid Robot Force-Torque Sensor Procurement Model

Figure 67. Humanoid Robot Force-Torque Sensor Sales Model

Figure 68. Humanoid Robot Force-Torque Sensor Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

I would like to order

Product name: Global Humanoid Robot Force-Torque Sensor Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G7378F95C660EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7378F95C660EN.html>