

Global Humanoid Robot Force-Torque Sensor Market Growth 2026-2032

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Abstracts

The global Humanoid Robot Force-Torque Sensor market size is predicted to grow from US\$ 665 million in 2025 to US\$ 6742 million in 2032; it is expected to grow at a CAGR of 39.4% from 2026 to 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.

United States market for Humanoid Robot Force-Torque Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Humanoid Robot Force-Torque Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Humanoid Robot Force-Torque Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Humanoid Robot Force-Torque Sensor players cover ATI Industrial Automation, Bota Systems, Schunk, OnRobot, Robotiq, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Humanoid Robot Force-Torque Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Axis Force-Torque Sensor

Three-Axis Force-Torque Sensor

Six-Axis Force-Torque Sensor

Segmentation by Sensing Technology:

Strain Gauge Force-Torque Sensor

Capacitive Force-Torque Sensor

Optical Force-Torque Sensor

Segmentation by Rated Load:

Low-Load Force-Torque Sensor (<50N)

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

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

Segmentation by Application:

Humanoid Robot Manufacturing

Collaborative Robot Control

Research and Testing Equipment

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

ATI Industrial Automation

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 Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Force-Torque Sensor market?

What factors are driving Humanoid Robot Force-Torque Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Humanoid Robot Force-Torque Sensor market opportunities vary by end market size?
How does Humanoid Robot Force-Torque Sensor break out by Type, by Application?

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