

Global Multi-axis Force-torque Sensors Market Growth 2026-2032

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Abstracts

The global Multi-axis Force-torque Sensors market size is predicted to grow from US\$ 803 million in 2025 to US\$ 1152 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

Multi-axis force-torque sensors are devices used to measure forces and moments in multiple coordinate axes (X, Y, and Z) of a Cartesian coordinate system, with the most complete form being the six-axis force/torque sensor, capable of simultaneously capturing three-dimensional forces along the x, y, and z directions as well as the corresponding rotational moments. By employing analog sensing elements such as strain gauges, capacitive, optical, and magnetic components, these sensors detect structural geometric deformations caused by external loads to achieve precise measurement of forces and torques, resolving inter-dimensional interference issues caused by structural processing and process errors. Compared to traditional single-axis force measurement units, multi-axis force-torque sensors can completely measure all six components, thereby providing a comprehensive measurement of all forces and moments acting on the sensor, while possessing the capability to minimize crosstalk from other axes. Their technical advantage lies in the ability to convert mechanical loads into force and torque values and feed them back to robot tactile senses, enabling precise operational control through accurate force measurement, and utilizing silicon strain gauge principles to reduce signal noise with extremely high overload protection capabilities. In 2025, global Multi-axis Force-torque Sensors production reached approximately 864.9 k units with an average global market price of around US\$950 per unit.

Multi-axis force-torque sensors will become a core tool for enterprises to enhance data value in the future; with the increasing prominence of big data and the advantages of

quality data insights, enterprises can manufacture higher quality products at lower costs by collecting more information during the design and testing phases, thereby optimizing production processes and increasing profits. In terms of technological trends, sensor systems will gradually replace single sensors, developing towards miniaturization, integration, and intelligence by embedding microprocessors to achieve digital output and self-diagnostic functions; this not only increases product added value but also reduces marginal costs through mass production. The industry will evolve towards high precision and high reliability, with the application of new materials and processes driving continuous improvements in measurement accuracy to meet the stringent requirements of high-end fields such as aerospace and precision manufacturing, helping enterprises establish pricing power in the high-end market. Furthermore, as the level of automotive electronics increases and industrial automation deepens, the demand for torque and multi-axis force measurement grows daily, and enterprises utilizing digital transformation to address mechanical system pain points will bring new growth points to revenue.

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

This Insight Report provides a comprehensive analysis of the global Multi-axis Force-torque Sensors 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 Multi-axis Force-torque Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Multi-axis Force-torque Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multi-axis Force-torque Sensors 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 Multi-axis Force-torque Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Multi-axis Force-torque Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

2-axis

3-axis

6-axis

Others

Segmentation by Accuracy Grade:

±1% FS

±0.5% FS

±0.1% FS

±0.01% FS

Segmentation by Response Frequency:

≤50 Hz

50-500 Hz

500-2,000 Hz

≥2,000 Hz

Segmentation by Application:

Aerospace

Robot

Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

FUTEK

ATI Industrial Automation

Interface Inc.

Kistler Group

HBM Test and Measurement

AMTI

ME-measurement Systems GmbH

Bota Systems

Tec Gihan

Robotiq

OnRobot A/S

GTM Testing and Metrology GmbH

Applied Measurements Ltd

JR3 Inc.

Sunrise Instruments

Kunwei Beijing Technology

Hypersen Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Multi-axis Force-torque Sensors market?

What factors are driving Multi-axis Force-torque Sensors market growth, globally and by region?

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

How do Multi-axis Force-torque Sensors market opportunities vary by end market size?

How does Multi-axis Force-torque Sensors break out by Type, by Application?

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