

Global Multi-axis Force-torque Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Multi-axis Force-torque Sensors market size was valued at US\$ 844 million in 2025 and is forecast to a readjusted size of US\$ 1190 million by 2032 with a CAGR of 5.1% during review period.

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.

This report is a detailed and comprehensive analysis for global Multi-axis Force-torque Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Multi-axis Force-torque Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-axis Force-torque Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-axis Force-torque Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Multi-axis Force-torque Sensors market shares of main players, shipments in

revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Multi-axis Force-torque Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Multi-axis Force-torque Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FUTEK, ATI Industrial Automation, Interface Inc., Kistler Group, HBM Test and Measurement, AMTI, ME-measurement Systems GmbH, Bota Systems, Tec Gihan, Robotiq, etc.

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

Market Segmentation

Multi-axis Force-torque Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

2-axis

3-axis

6-axis

Others

Market segment by Accuracy Grade

±1-2% FS

±0.5-1% FS

±0.1-0.5% FS

±±0.1% FS

Market segment by Response Frequency

±50 Hz

50±500 Hz

500±2,000 Hz

±2,000 Hz

Market segment by Application

Aerospace

Robot

Automotive

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Multi-axis Force-torque Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Multi-axis Force-torque Sensors, with price, sales quantity, revenue, and global market share of Multi-axis Force-torque Sensors from 2021 to 2026.

Chapter 3, the Multi-axis Force-torque Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Multi-axis Force-torque Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Multi-axis Force-torque Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Multi-

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Chapter 14 and 15, to describe Multi-axis Force-torque Sensors sales channel, distributors, customers, research findings and conclusion.

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