

Global Multi-Dimensional Force and Torque Sensor Market Growth 2026-2032

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Abstracts

The global Multi-Dimensional Force and Torque Sensor market size is predicted to grow from US\$ 803 million in 2025 to US\$ 5304 million in 2032; it is expected to grow at a CAGR of 31.1% from 2026 to 2032.

Multi-dimensional force and torque sensors are sensors capable of simultaneously measuring three directional force components and three directional torque components in a Cartesian coordinate system, with the most complete form being the six-dimensional force/torque sensor, which achieves precise acquisition of comprehensive force and torque information in space through elastic body structural design and vector decoupling algorithms. The sensor aims to address inter-dimensional interference issues caused by structural processing and process errors, providing force sensing data with consistent monotonicity and accurate decoupling for the system through high-precision signal processing and circuit implementation, ensuring the reliability of complex spatial force measurements. Compared to single-axis force sensors, multi-dimensional force and torque sensors possess the capability to detect full force information in three-dimensional space, not only acquiring grip force and weight but also capturing slippage and vibration during grasping processes in real-time, thereby enabling precise force control and compliance control. Their technical advantage lies in high integration, good rigidity, and small inter-dimensional coupling, allowing them to complete complex tasks such as precision assembly, contour tracking, and zero-force teaching, providing an indispensable sensing foundation for high-precision operations. In 2025, global Multi-Dimensional Force and Torque Sensor production reached approximately 864.9 k units with an average global market price of around US\$950 per unit.

Multi-dimensional force and torque sensors will become a core revenue growth driver in

the fields of industrial automation and robotics in the future; with the booming development of smart manufacturing and the collaborative robot market, enterprises will expand their business footprint by providing high-precision force control solutions. On a technical level, the application of MEMS processes will drive sensors towards miniaturization, low cost, and mass production evolution; this technological advancement not only resolves the pain points of traditional products, such as large size and difficulty in mass production, but also helps enterprises significantly reduce production costs and optimize profit structures. The industry will exhibit significant trends towards intelligence and integration, where sensors achieve self-calibration and adaptability by integrating AI algorithms, enhancing product reliability in complex environments, thereby strengthening enterprises' pricing power in the high-end market. Furthermore, with the popularization of IoT technology, multi-dimensional force and torque sensors will deeply integrate with network communications to enable remote monitoring and data sharing, assisting enterprises in transforming from single hardware manufacturers to comprehensive data service providers, thereby mining more value-added space.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multi-Dimensional Force and 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 Multi-Dimensional Force and Torque Sensor.

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

Segmentation by Type:

Strain Gauge Type

Piezoelectric Type

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:

Manufacturing

Medical Insurance

Aerospace

Research And Laboratories

Automotive

Robot

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-Dimensional Force and Torque Sensor market?

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

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

How do Multi-Dimensional Force and Torque Sensor market opportunities vary by end market size?

How does Multi-Dimensional Force and Torque Sensor break out by Type, by Application?

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