

Global Ultra-thin Six-Dimensional Force Sensor Market Growth 2026-2032

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Abstracts

The global Ultra-thin Six-Dimensional Force Sensor market size is predicted to grow from US\$ 67.70 million in 2025 to US\$ 391 million in 2032; it is expected to grow at a CAGR of 28.6% from 2026 to 2032.

In 2025, global Ultra-thin Six-Dimensional Force Sensor production reached approximately 14k units , with an average global market price of around US\$5k per unit.

An Ultra-thin Six-Dimensional Force Sensor is a high-precision multi-axis force/torque sensor capable of simultaneously measuring three orthogonal force components and three torque components in three-dimensional space, namely F_x , F_y , F_z and M_x , M_y , M_z . Compared with conventional six-dimensional force sensors, ultra-thin six-dimensional force sensors feature a thinner profile, more compact structure, lower installation height, faster response, and better suitability for embedded integration. They are particularly suitable for robotic end effectors, collaborative robot joints, humanoid robot wrists, precision assembly, force-controlled grinding and polishing, medical robots, aerospace testing, and semiconductor manufacturing equipment where limited installation space and high measurement accuracy are required. These products typically use elastic structures, strain gauges, bridge circuits, MEMS sensing elements, piezoelectric elements, or optical fiber sensing technologies to convert multi-directional forces into electrical signals, and then output six-axis force/torque data through decoupling algorithms and signal-conditioning modules. They are core sensing components for robotic force control, intelligent perception, and precision manufacturing.

The upstream supply chain of Ultra-thin Six-Dimensional Force Sensors mainly includes elastomer materials such as stainless steel, aluminum alloy, titanium alloy, and high-

strength alloy steel, as well as strain gauges, MEMS chips, piezoelectric ceramics, fiber Bragg gratings, adhesives, flexible printed circuits, signal-conditioning chips, ADC converters, connectors, packaging materials, precision machining equipment, and calibration equipment. Material properties, strain-gauge consistency, chip accuracy, machining precision, temperature-drift control, and calibration algorithms directly affect sensor sensitivity, linearity, coupling error, and long-term stability. Representative upstream suppliers include Vishay, HBK, TE Connectivity, Analog Devices, Texas Instruments, STMicroelectronics, Infineon, Murata, TDK, Kyocera, Nippon Steel, Baosteel, Constellium, and Kobe Steel. The midstream sector consists of multi-axis force sensor manufacturers, robot sensor companies, precision measurement instrument suppliers, and industrial automation component providers responsible for elastomer structure design, sensing element bonding, signal acquisition, decoupling algorithms, calibration testing, and product packaging. Downstream applications mainly include collaborative robots, industrial robots, humanoid robots, medical robots, semiconductor equipment, precision assembly, aerospace testing, automotive testing, force-controlled grinding and polishing, scientific research, and automated production lines. Representative application companies include ABB, FANUC, Yaskawa, KUKA, Universal Robots, Doosan Robotics, Tesla, Figure AI, Agility Robotics, Boston Dynamics, Intuitive Surgical, Stryker, Applied Materials, ASML, Tokyo Electron, Teradyne, Siemens, Bosch, and Foxconn.

The Ultra-thin Six-Dimensional Force Sensor market is currently experiencing rapid growth driven by increasing demand for robotic intelligence and precision force control. Collaborative robots, humanoid robots, medical robots, semiconductor equipment, and precision assembly are the main growth directions. Key trends include thinner profiles, miniaturization, higher accuracy, lower coupling error, digital output, improved anti-interference capability, and deeper integration with robot control systems. Market growth is driven by increasing use of robotic force control, flexible manufacturing development, rising interest in humanoid robots, growing demand for precise tactile sensing in medical and semiconductor equipment, and domestic substitution in high-end sensors. Major challenges include difficult high-precision calibration, strict production consistency requirements, high barriers in core algorithms and manufacturing processes, long customer validation cycles, high product prices, and the continued dominance of a few international brands in the high-end market. Overall, the market is expected to expand from research and high-end industrial applications toward broader batch adoption in collaborative robots, humanoid robots, and intelligent manufacturing.

LP Information, Inc. (LPI) ' newest research report, the "Ultra-thin Six-Dimensional Force Sensor Industry Forecast" looks at past sales and reviews total world Ultra-thin

Six-Dimensional Force Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultra-thin Six-Dimensional Force Sensor sales for 2026 through 2032. With Ultra-thin Six-Dimensional Force Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ultra-thin Six-Dimensional Force Sensor industry.

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

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

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

Segmentation by Type:

Strain Gaug

Piezoelectric

Capacitive

Others

Segmentation by Supply Voltage:

5V

12V

24V

Segmentation by Application:

Robots

Aerospace

Automotive

Medical

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.

ATI Industrial Automation

Schunk

Nidec

MareX Ltd

Longlv Electronic

Robot Maxpower

Sunrise Instruments

Kunwei Sensing Technology

Starsin Sensing Technology

Hypersen

Link-Touch

XJCSENSOR

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ultra-thin Six-Dimensional Force Sensor market?

What factors are driving Ultra-thin Six-Dimensional Force Sensor market growth, globally and by region?

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

How do Ultra-thin Six-Dimensional Force Sensor market opportunities vary by end market size?

How does Ultra-thin Six-Dimensional Force Sensor break out by Type, by Application?

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