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Global Robot Six-axis Force Torque Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Six-axis Force Torque Sensor market size is expected to reach $ 2863 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

In 2025, global Robot Six-axis Force Torque Sensor production reached approximately 905,263 units, with an average global market price of around USD 950 per unit.

The gross profit margin of major companies in the industry is between 31.64%?57.28%.

In 2025, the global production capacity of Robot Six-axis Force Torque Sensor was approximately 1.19 million units.

Robot Six-axis Force Torque Sensor is a precision sensor installed at robot wrists, joints or end-effectors to measure forces and torques along three linear axes and three rotational axes. It enables force control, compliant motion, assembly feedback, collision detection, polishing, grinding, teaching and human-robot interaction. The product is used in industrial robots, collaborative robots, surgical robots, humanoid robots, testing systems and automation equipment. The market includes six-axis force torque sensing units and integrated robot force sensors, but excludes single-axis load cells, ordinary torque sensors and robot controllers without force sensing functions.

The industry chain includes strain gauges, elastomer structures, semiconductor sensing elements, signal conditioning chips, printed circuit boards, connectors, housings, calibration equipment and software algorithms. Midstream production covers mechanical structure design, sensing element bonding, circuit integration, temperature compensation, multi-axis calibration, accuracy testing and reliability validation.

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Downstream demand comes from collaborative robots, industrial automation, humanoid robots, medical robots, precision assembly, surface finishing and research laboratories. Growth is driven by robotic dexterity, force-controlled automation, human-robot collaboration and intelligent manufacturing.

This report studies the global Robot Six-axis Force Torque Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Six-axis Force Torque Sensor and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Robot Six-axis Force Torque Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Robot Six-axis Force Torque Sensor total production and demand, 2021-2032, (K Units)
Global Robot Six-axis Force Torque Sensor total production value, 2021-2032, (USD Million)
Global Robot Six-axis Force Torque Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Robot Six-axis Force Torque Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Robot Six-axis Force Torque Sensor domestic production, consumption, key domestic manufacturers and share
Global Robot Six-axis Force Torque Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Robot Six-axis Force Torque Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Robot Six-axis Force Torque Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robot Six-axis Force Torque Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ATI Industrial Automation, Novanta, Bota Systems, HBM, Kunwei Technology, Link-touch, Xiamen Lisheng, Pasinic, BlueDot Touch, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Robot Six-axis Force Torque Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Robot Six-axis Force Torque Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Six-axis Force Torque Sensor Market, Segmentation by Type:

Strain Gauge Sensors

Capacitive Sensors

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Piezoelectric Sensors

Global Robot Six-axis Force Torque Sensor Market, Segmentation by Installation Position:

Wrist-Mounted Sensors

End-Effector Integrated Sensors

Base-Mounted Sensors

Global Robot Six-axis Force Torque Sensor Market, Segmentation by Force Measurement Range:

Small Range??100 N?

Medium Range?101?1000 N?

Large Range??1000 N?

Global Robot Six-axis Force Torque Sensor Market, Segmentation by Application:

Force-Controlled Assembly

Grinding and Polishing

Precision Handling and Manipulation

Other

Companies Profiled:

ATI Industrial Automation

Novanta

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Bota Systems

HBM

Kunwei Technology

Link-touch

Xiamen Lisheng

Pasinic

BlueDot Touch

Key Questions Answered:
1. How big is the global Robot Six-axis Force Torque Sensor market?
2. What is the demand of the global Robot Six-axis Force Torque Sensor market?
3. What is the year over year growth of the global Robot Six-axis Force Torque Sensor market?
4. What is the production and production value of the global Robot Six-axis Force Torque Sensor market?
5. Who are the key producers in the global Robot Six-axis Force Torque Sensor market?
6. What are the growth factors driving the market demand?

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