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Global Robot Six-axis Force Torque Sensor Market Growth 2026-2032

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Abstracts

The global Robot Six-axis Force Torque Sensor market size is predicted to grow from US$ 841 million in 2025 to US$ 2883 million in 2032; it is expected to grow at a CAGR of 19.3% from 2026 to 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.

United States market for Robot Six-axis Force Torque Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Robot Six-axis Force Torque Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Robot Six-axis Force Torque Sensor is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Robot Six-axis Force Torque Sensor players cover ATI Industrial Automation, Novanta, Bota Systems, HBM, Kunwei Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Six-axis Force Torque Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

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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 Robot Six-axis Force Torque Sensor.

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

Segmentation by Type:

Strain Gauge Sensors

Capacitive Sensors

Piezoelectric Sensors

Segmentation by Installation Position:

Wrist-Mounted Sensors

End-Effector Integrated Sensors

Base-Mounted Sensors

Segmentation by Force Measurement Range:

Small Range??100 N?

Medium Range?101–1000 N?

Large Range??1000 N?

Segmentation by Application:

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Force-Controlled Assembly

Grinding and Polishing

Precision Handling and Manipulation

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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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

Novanta

Bota Systems

HBM

Kunwei Technology

Link-touch

Xiamen Lisheng

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Pasinic

BlueDot Touch

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robot Six-axis Force Torque Sensor market?

What factors are driving Robot Six-axis Force Torque Sensor market growth, globally and by region?

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

How do Robot Six-axis Force Torque Sensor market opportunities vary by end market size?

How does Robot Six-axis Force Torque Sensor break out by Type, by Application?

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