

Global Multi-axis Force Torque Sensor for Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G4FCC392F7B7EN.html>

Date: August 2026

Pages: 160

Price: US\$ 3,480.00 (Single User License)

ID: G4FCC392F7B7EN

Abstracts

According to our (Global Info Research) latest study, the global Multi-axis Force Torque Sensor for Robot market size was valued at US\$ 365 million in 2025 and is forecast to a readjusted size of US\$ 2167 million by 2032 with a CAGR of 31.2% during review period.

In 2025, global Multi-axis Force Torque Sensor for Robot production reached approximately 148 k units with an average global market price of around US\$ 2,400 per unit, and a gross profit margin of approximately 20%-40%. Multi-axis Force Torque Sensors for Robots are precision sensing devices that simultaneously measure forces and torques acting along multiple spatial axes. Six-axis products measure three orthogonal forces F_x , F_y , and F_z and three corresponding moments T_x , T_y , and T_z while simplified products may measure three or five components. A typical sensor integrates an elastic structure, strain gauges or other sensing elements, signal-conditioning circuits, analog-to-digital converters, temperature-compensation components, embedded processors, communication interfaces, calibration matrices, and mechanical mounting flanges. Sensors are commonly installed between a robot wrist and end effector or integrated into robotic feet and manipulation platforms to provide real-time contact feedback.

The industrial chain of Multi-axis Force Torque Sensors for Robots includes upstream strain gauges, piezoelectric materials, capacitive or optical sensing elements, elastic alloy structures, stainless steel, aluminum alloys, adhesive materials, amplifiers, analog-to-digital converters, processors, temperature sensors, PCBs, cables, connectors, and industrial communication chips. Midstream activities include elastic-structure design, finite-element analysis, precision machining, sensing-element bonding, circuit assembly,

temperature compensation, decoupling-algorithm development, calibration, overload testing, cross-talk testing, fatigue testing, environmental validation, firmware development, and robot-interface integration. Downstream applications include industrial robots, collaborative robots, humanoid robots, surgical robots, legged robots, robotic arms, polishing equipment, assembly systems, teleoperation platforms, and robotics research.

This report is a detailed and comprehensive analysis for global Multi-axis Force Torque Sensor for Robot 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 Sensor for Robot 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 Sensor for Robot 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 Sensor for Robot 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 Sensor for Robot 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 Sensor for Robot

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 Sensor for Robot 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 ATI Industrial Automation, Sunrise Instruments (SRI), Schunk, Kunwei, Link-touch, AMTI, XJCSENSOR, Kistler, Robotiq, Bota Systems, etc.

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

Market Segmentation

Multi-axis Force Torque Sensor for Robot 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

Aluminum

Stainless Steel

Others

Market segment by Diameter

Diameter: 60mm

Diameter: 75mm

Others

Market segment by Application

Collaborative Robots

Humanoid Robots

Medical and Surgical Robots

Others

Major players covered

ATI Industrial Automation

Sunrise Instruments (SRI)

Schunk

Kunwei

Link-touch

AMTI

XJCSENSOR

Kistler

Robotiq

Bota Systems

Nordbo Robotics

Wacoh-Tech

FUTEK

Robotous

Aidin Robotics

ME-Me?systeme

Sintokogio

OnRobot

Hypersen Technologies

Anhui Zhongkemi Dian Sensor

Changzhou Right Measurement and Control System

CHI FENG Technology

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 Sensor for Robot product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Multi-axis Force Torque Sensor for Robot 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 Sensor for Robot 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 Sensor for Robot 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-axis Force Torque Sensor for Robot.

Chapter 14 and 15, to describe Multi-axis Force Torque Sensor for Robot sales channel, distributors, customers, research findings and conclusion.

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