

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

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Abstracts

The global Multi-axis Force Torque Sensor for Robot market size is expected to reach \$ 2167 million by 2032, rising at a market growth of 31.2% CAGR during the forecast period (2026-2032).

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?Fx, Fy, and Fz?and three corresponding moments?Tx, Ty, and Tz?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 studies the global Multi-axis Force Torque Sensor for Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Multi-axis Force Torque Sensor for Robot 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 Multi-axis Force Torque Sensor for Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Multi-axis Force Torque Sensor for Robot total production and demand, 2021-2032, (K Units)

Global Multi-axis Force Torque Sensor for Robot total production value, 2021-2032, (USD Million)

Global Multi-axis Force Torque Sensor for Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Multi-axis Force Torque Sensor for Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Multi-axis Force Torque Sensor for Robot domestic production, consumption, key domestic manufacturers and share

Global Multi-axis Force Torque Sensor for Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Multi-axis Force Torque Sensor for Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Multi-axis Force Torque Sensor for Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Multi-axis Force Torque Sensor for Robot 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Multi-axis Force Torque Sensor for Robot 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 Multi-axis Force Torque Sensor for Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Aluminum

Stainless Steel

Others

Global Multi-axis Force Torque Sensor for Robot Market, Segmentation by Diameter:

Diameter: 60mm

Diameter: 75mm

Others

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

Collaborative Robots

Humanoid Robots

Medical and Surgical Robots

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Multi-axis Force Torque Sensor for Robot market?
2. What is the demand of the global Multi-axis Force Torque Sensor for Robot market?
3. What is the year over year growth of the global Multi-axis Force Torque Sensor for Robot market?
4. What is the production and production value of the global Multi-axis Force Torque

Sensor for Robot market?

5. Who are the key producers in the global Multi-axis Force Torque Sensor for Robot market?

6. What are the growth factors driving the market demand?

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