

Global Robot Force Control Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Force Control Module market size is expected to reach \$ 1895 million by 2032, rising at a market growth of 18.3% CAGR during the forecast period (2026-2032).

A Robot Force Control Module is a robotic subsystem designed to sense, measure, and regulate force and torque during robot-environment interaction. It typically integrates force/torque sensors, control algorithms, embedded electronics, communication interfaces, and motion control software to enable compliant manipulation and adaptive interaction. In 2025, global Robot Force Control Module production reached approximately 1346.98 K Units. The upstream of the Robot Force Control Module industry mainly includes force/torque sensors, MEMS chips, strain gauges, encoders, servo motors, harmonic reducers, FPGA/control chips, real-time communication ICs, and embedded software platforms. Among them, six-axis force/torque sensors represent one of the highest-value core components, determining system precision and responsiveness.

The Robot Force Control Module market is evolving from a niche industrial automation segment into one of the most critical enabling technologies in next-generation intelligent robotics. Traditionally, industrial robots relied mainly on position control systems to execute repetitive tasks such as welding, material handling, and painting in structured environments. In such applications, robots had limited requirements for force perception or adaptive interaction. However, as robots increasingly move into unstructured and dynamic real-world environments, force control technologies have become essential for compliant interaction, contact sensing, adaptive manipulation, and dynamic balancing. As a result, six-axis force/torque sensors, joint torque sensors, impedance control systems, and compliant control algorithms are rapidly becoming core components of

advanced robotic systems.

This report studies the global Robot Force Control Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot Force Control Module 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 Force Control Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robot Force Control Module total production and demand, 2021-2032, (K Units)

Global Robot Force Control Module total production value, 2021-2032, (USD Million)

Global Robot Force Control Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Robot Force Control Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Robot Force Control Module domestic production, consumption, key domestic manufacturers and share

Global Robot Force Control Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Robot Force Control Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Robot Force Control Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robot Force Control Module 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, Bota Systems, ForceN, OnRobot, Robotiq, SCHUNK, KUKA, Franka Robotics, Universal Robots, SUHNER, 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 Robot Force Control Module 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 Force Control Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Force Control Module Market, Segmentation by Type:

Impedance Control Module

Admittance Control Module

Constant Force Control Module

Others

Global Robot Force Control Module Market, Segmentation by Sensing Dimension:

- Single-Axis Force Control Module
- 3-Axis Force Control Module
- 6-Axis Force/Torque Control Module
- Multi-Modal Tactile Force Module

Global Robot Force Control Module Market, Segmentation by Installation Position:

- Wrist Force Control Module
- Joint Torque Control Module
- End-Effector Force Module
- Dexterous Hand Force Module

Global Robot Force Control Module Market, Segmentation by Core Technology:

- Strain Gauge Force Module
- Piezoelectric Force Module
- MEMS Force Control Module
- Series Elastic Actuator (SEA) Module
- AI-based Force Control Module

Global Robot Force Control Module Market, Segmentation by Application:

- Cobots

Industrial Robots

Humanoid Robots

Medical Robots

Others

Companies Profiled:

ATI Industrial Automation

Bota Systems

ForceN

OnRobot

Robotiq

SCHUNK

KUKA

Franka Robotics

Universal Robots

SUHNER

Flexiv

RealMan

Link-touch (Beijing) Technology Co., Ltd.

Hypersen Technologies Co., Ltd.

Changzhou Kunwei Sensing Technology Co., Ltd.

Suzhou Hangkai Microelectronics Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Robot Force Control Module market?
2. What is the demand of the global Robot Force Control Module market?
3. What is the year over year growth of the global Robot Force Control Module market?
4. What is the production and production value of the global Robot Force Control Module market?
5. Who are the key producers in the global Robot Force Control Module market?
6. What are the growth factors driving the market demand?

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