

Global Robot Force Control Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robot Force Control Module market size was valued at US\$ 574 million in 2025 and is forecast to a readjusted size of US\$ 1895 million by 2032 with a CAGR of 18.3% during review period.

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 is a detailed and comprehensive analysis for global Robot Force Control Module 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 Robot Force Control Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Robot Force Control Module 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 Robot Force Control Module 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 Robot Force Control Module 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 Robot Force Control Module

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 Robot Force Control Module 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, 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.

Market Segmentation

Robot Force Control Module 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

Impedance Control Module

Admittance Control Module

Constant Force Control Module

Others

Market segment by Sensing Dimension

Single-Axis Force Control Module

3-Axis Force Control Module

6-Axis Force/Torque Control Module

Multi-Modal Tactile Force Module

Market segment by Installation Position

Wrist Force Control Module

Joint Torque Control Module

End-Effector Force Module

Dexterous Hand Force Module

Market segment by Core Technology

Strain Gauge Force Module

Piezoelectric Force Module

MEMS Force Control Module

Series Elastic Actuator (SEA) Module

AI-based Force Control Module

Market segment by Application

Cobots

Industrial Robots

Humanoid Robots

Medical Robots

Others

Major players covered

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.

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 Robot Force Control Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robot Force Control Module, with price, sales quantity, revenue, and global market share of Robot Force Control Module from 2021 to 2026.

Chapter 3, the Robot Force Control Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robot Force Control Module 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 Robot Force Control Module 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 Robot Force Control Module.

Chapter 14 and 15, to describe Robot Force Control Module sales channel, distributors, customers, research findings and conclusion.

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