

Global Robot Force Control Module Market Growth 2026-2032

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Abstracts

The global Robot Force Control Module market size is predicted to grow from US\$ 546 million in 2025 to US\$ 1909 million in 2032; it is expected to grow at a CAGR of 19.5% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Robot Force Control Module 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 Force Control Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robot Force Control Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robot Force Control Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging 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 Force Control Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Robot Force Control Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Impedance Control Module

Admittance Control Module

Constant Force Control Module

Others

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

Segmentation by Installation Position:

Wrist Force Control Module

Joint Torque Control Module

End-Effector Force Module

Dexterous Hand Force Module

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

Segmentation by Application:

Cobots

Industrial Robots

Humanoid Robots

Medical Robots

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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

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 Addressed in this Report

What is the 10-year outlook for the global Robot Force Control Module market?

What factors are driving Robot Force Control Module market growth, globally and by region?

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

How do Robot Force Control Module market opportunities vary by end market size?

How does Robot Force Control Module break out by Type, by Application?

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