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Global Robot Force-Control Acquisition IC Market Growth 2026-2032

https://marketpublishers.com/r/G23C77F4AB78EN.html
Date: October 2026
Pages: 115
Price: US$ 3,660.00 (Single User License)
ID: G23C77F4AB78EN

Abstracts

The global Robot Force-Control Acquisition IC market size is predicted to grow from US$ 12.57 million in 2025 to US$ 78.76 million in 2032; it is expected to grow at a CAGR of 29.5% from 2026 to 2032.

Robot Force-Control Acquisition IC refers to high-precision analog and mixed-signal semiconductor devices used to acquire, condition, digitize, and transmit weak force- and torque-sensor signals for robotic force-control systems. The market primarily covers precision ADCs, analog front ends (AFEs), sensor signal conditioners (SSCs), and integrated mixed-signal acquisition ICs designed for strain gauges, Wheatstone bridges, resistive bridge sensors, torque sensors, and multi-axis force/torque sensing structures. Typical products use 16- to 24-bit data conversion, with 24-bit delta-sigma ADCs representing the core architecture for high-resolution bridge sensing, and may integrate low-noise programmable-gain amplifiers, precision references, bridge excitation, temperature compensation, digital calibration, diagnostics, and SPI or I?C interfaces. Key performance parameters include input-referred noise, effective resolution, sampling rate, PGA gain, offset and gain drift, channel synchronization, latency, and electromagnetic robustness. Robot Force-Control Acquisition ICs are mainly used in industrial manufacturing robots, humanoid robots, medical and rehabilitation robots, logistics and service robots, aerospace and special-purpose robots, supporting joint torque sensing, multi-axis force/torque acquisition, gripper and dexterous-hand force sensing, contact detection, compliant manipulation, and other closed-loop force-control functions.

Key Findings

2025 global Robot Force-Control Acquisition IC shipment volume is estimated at

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approximately 2.8–3.2 million units

The estimated 2025 blended selling price is approximately US$3.7–4.2 per IC

The validated Core Formal List comprises 14 global semiconductor suppliers

High-precision products are concentrated in the >20–24-bit range, with 24-bit delta-sigma conversion as the principal technical route

Market Trends

The Robot Force-Control Acquisition IC market is evolving from stand-alone high-resolution data conversion toward more highly integrated force-sensing signal chains. Product development is increasingly focused on integrating low-noise PGA stages, bridge excitation, precision references, temperature compensation, calibration, fault diagnostics, and digital interfaces around the ADC core, reducing the amount of external analog circuitry required by force/torque sensor modules. At the same time, rising requirements for joint torque control, six-axis force sensing, dexterous-hand feedback, and dynamic contact control are increasing the importance of multi-channel synchronization, higher sampling rates, lower latency, and stable performance under temperature variation and electromagnetic interference. The >20–24-bit segment remains central to high-precision bridge measurement, particularly 24-bit delta-sigma architectures, while higher-speed conversion architectures are becoming more relevant where dynamic response takes priority over maximum static resolution. Longer term, competition is likely to shift from individual ADC specifications toward complete sensor-interface performance, calibration capability, diagnostics, software support, and compatibility with increasingly distributed force-sensing nodes.

Market Dynamics

Drivers

Market demand is primarily driven by the increasing penetration of direct force and torque feedback in robots rather than by robot unit growth alone. Conventional industrial robots may rely heavily on position, current, and vision feedback, whereas collaborative robots, torque-controlled manipulators, humanoid robots, and dexterous robotic systems can require multiple direct force-sensing nodes across joints, wrists, end effectors, ankles, grippers, and hands. This raises semiconductor content per robot and creates demand for precision low-noise acquisition ICs. Continued expansion of industrial

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automation also provides a substantial installed base for force-controlled assembly, grinding, polishing, contact detection, and compliant manipulation. In China, national policy support for humanoid robotics and key-component innovation is reinforcing investment in sensing, control, semiconductor localization, and system integration, strengthening the long-term demand environment for Robot Force-Control Acquisition ICs.

Restraints

The principal restraint is that Robot Force-Control Acquisition ICs remain a narrow application segment within the broader precision ADC and sensor-interface semiconductor market. Current robot-specific volumes are substantially smaller than those of weighing, industrial pressure, process instrumentation, and general data-acquisition applications using similar devices, limiting the economic incentive for fully dedicated robot-only IC development. Design-in cycles can also be lengthy because force-control performance depends on the combined behavior of the sensor structure, analog front end, ADC, mechanical assembly, calibration algorithm, and control loop. In addition, indirect torque estimation based on motor current, alternative capacitive or piezoelectric sensing architectures, and customer-specific ASICs can substitute for merchant bridge-sensor acquisition ICs in selected designs. Cost pressure is particularly relevant in high-volume humanoid and service-robot programs, where the number of sensing channels per robot may rise materially and therefore place greater emphasis on integration and system-level cost reduction.

Opportunities

The largest incremental opportunities lie in applications where force sensing expands from a single end-of-arm sensor to multiple distributed sensing points. Humanoid robots are especially important because wrist, ankle, joint, gripper, and dexterous-hand architectures can substantially increase the number of precision force-acquisition channels per unit. Industrial collaborative robots and force-controlled manufacturing systems provide another opportunity as precision assembly, insertion, polishing, and flexible automation move toward tighter force feedback. Product-side opportunities are also emerging through integration: suppliers able to combine high-resolution conversion, PGA, excitation, reference, temperature compensation, diagnostics, and digital processing can reduce sensor-module complexity and shorten customer development cycles. Chinese and Taiwanese suppliers have additional opportunities in localized robot supply chains, where application support, cost competitiveness, shorter design iterations, and domestic sourcing increasingly complement traditional specifications such as noise, drift, effective resolution, and long-term reliability.

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Challenges

The most important technical challenge is maintaining measurement accuracy under real robotic operating conditions rather than achieving high nominal ADC resolution alone. Force and torque measurements are highly sensitive to sensor non-linearity, mechanical hysteresis, zero drift, temperature gradients, wiring resistance, electromagnetic interference, excitation stability, and channel-to-channel timing errors. Multi-axis force sensors and distributed joint-torque systems further increase calibration complexity and impose tighter requirements on synchronization and latency. Commercially, the market lacks a universally standardized definition of Robot Force-Control Acquisition IC, and many relevant products are sold simultaneously into weighing, pressure, instrumentation, and industrial sensing applications, making application-specific revenue and volume tracking difficult. Suppliers also face potential design-in concentration because major robot or sensor manufacturers may standardize around a limited number of semiconductor platforms or migrate toward proprietary ASICs when production reaches sufficient scale.

Industry Chain Analysis

The upstream portion of the Robot Force-Control Acquisition IC industry consists of semiconductor process technology, precision analog IP, wafer fabrication, specialty passive and reference technologies, packaging, assembly, testing, and electronic design automation. Precision force-sensing acquisition places particular emphasis on low-noise analog device performance, stable voltage references, matching, temperature characteristics, packaging-induced stress control, and high-accuracy production testing. The midstream comprises precision ADC, AFE, SSC, and mixed-signal acquisition IC developers and manufacturers that convert microvolt- to millivolt-level bridge signals into stable digital data. Value creation is concentrated not only in converter resolution but also in noise control, PGA performance, bridge excitation, drift management, channel synchronization, calibration functions, diagnostics, qualification, and long-term supply capability.

Downstream, the IC is integrated into force/torque sensors, joint torque modules, six-axis sensors, grippers, dexterous hands, robot joints, and robot control systems before entering industrial manufacturing, humanoid, medical, logistics, service, aerospace, and research robotic applications. The semiconductor typically represents only a limited portion of the complete force-sensing module cost, but its performance directly affects usable resolution, calibration stability, response speed, and control-loop quality. As integration increases, a larger share of system value may migrate from discrete analog

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components and external calibration circuitry toward highly integrated sensor-interface ICs, particularly where customers require smaller modules, more channels, lower assembly complexity, and repeatable mass-production calibration.

Segment Insights

By product type, the market comprises Precision ADCs, Analog Front Ends, Sensor Signal Conditioners, and Mixed-Signal Acquisition SoCs. Precision ADCs currently represent the most broadly available product form, while AFEs and SSCs provide greater integration of amplification, excitation, compensation, and calibration. The longer-term opportunity is moving toward more integrated sensor-interface devices because robot force sensing increasingly requires stable end-to-end performance rather than isolated conversion accuracy. By conversion performance, the core high-precision segment is concentrated in the >20–24-bit range, with 24-bit delta-sigma architectures widely suited to bridge and strain-gauge signals. Sampling-rate requirements vary materially by use case: quasi-static load detection can prioritize noise performance, whereas joint torque loops and dynamic multi-axis force control place greater emphasis on bandwidth and response time.

By application market, industrial manufacturing robotics provides the broadest established commercial base, supported by collaborative robots, precision assembly, grinding, polishing, and other force-controlled automation. Humanoid robotics represents the most significant emerging incremental opportunity because force sensing can be distributed across multiple joints and end structures rather than concentrated in a single sensor. Medical and rehabilitation robotics require high precision and stable low-force measurement, while logistics, service, aerospace, special-purpose, and research robots create smaller but technically differentiated demand pools. Product suppliers therefore compete across different combinations of accuracy, speed, integration, power consumption, size, qualification, and cost rather than through a single universal performance specification.

Downstream Market Opportunities

Industrial manufacturing remains the most established application environment for Robot Force-Control Acquisition ICs because force feedback is increasingly used in collaborative operation, precision insertion, surface treatment, contact detection, and flexible production. Humanoid robots provide a more structurally important long-term opportunity: as architectures introduce torque sensing at multiple joints together with wrist, ankle, gripper, and dexterous-hand force feedback, the number of acquisition

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channels per robot can increase substantially. Medical and rehabilitation robots offer another attractive high-performance segment because surgical assistance, rehabilitation interaction, and wearable robotic systems require accurate low-force sensing and predictable feedback. Logistics and service robots are likely to create broader cost-sensitive opportunities as manipulation capability improves, while aerospace and special-purpose robotics favor reliability, environmental robustness, and high-value customized signal chains. Across these applications, the strongest opportunity is not simply higher robot shipments but increasing direct force-sensing content per robot.

Regional Insights

Asia is the most important demand and supply-chain region for Robot Force-Control Acquisition ICs, supported by its concentration of robot manufacturing, electronics production, and precision analog semiconductor development. As a downstream demand indicator, the International Federation of Robotics reported that Asia accounted for 74% of global industrial robot installations in 2024, with China alone representing 54% of deployments. These figures should not be interpreted as identical shares of the Robot Force-Control Acquisition IC market, but they demonstrate the regional concentration of the underlying robot installation base. China is also becoming increasingly important for domestic precision ADC, AFE, and sensor-interface development, while Taiwan has an established position in bridge-sensor and load-cell acquisition devices.

North America remains a major center for high-end precision analog semiconductor technology, supported by large diversified suppliers with deep expertise in low-noise ADCs and mixed-signal signal chains. Europe, particularly Germany and neighboring semiconductor ecosystems, retains strength in sensor signal conditioning, industrial sensing, and high-reliability applications, while Japan continues to hold significant capabilities in precision analog and resistive sensor interfaces. Regional competition is therefore differentiated: North America, Europe, and Japan emphasize high-performance and mature industrial platforms, while China and Taiwan increasingly compete through localized supply, application support, integration, and cost-performance optimization. This structure creates opportunities for both premium global platforms and specialized regional suppliers without implying a single uniform regional market-share hierarchy.

Competitive Landscape Analysis

The validated Core Formal List for Robot Force-Control Acquisition ICs currently

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contains 14 semiconductor suppliers, indicating a specialized but not monopolized competitive structure. Large global precision-analog and mixed-signal companies such as Texas Instruments, NXP Semiconductors, Analog Devices, Renesas Electronics, and Microchip Technology benefit from broad converter portfolios, established industrial qualification, long product life cycles, and extensive engineering support. GigaDevice has demonstrated a direct robot six-dimensional force-acquisition solution, while Nuvoton, Holtek, SG Micro, NOVOSENSE, 3PEAK, Chipsea, Elmos, and Siproin participate through bridge ADCs, precision converters, sensor AFEs, or signal-conditioning platforms. The market should not be interpreted through unverified vendor share rankings because most relevant ICs also serve non-robotic sensing markets and companies generally do not disclose robot-specific revenue. Competitive differentiation instead centers on input noise, effective resolution, drift, sampling speed, multi-channel synchronization, functional integration, calibration and diagnostic capability, supply reliability, and application support. As robot force sensing becomes more distributed, suppliers with integrated, scalable signal-chain platforms are likely to gain strategic importance.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Robot Force-Control Acquisition IC Industry Forecast” looks at past sales and reviews total world Robot Force-Control Acquisition IC sales in 2025, providing a comprehensive analysis by region and market sector of projected Robot Force-Control Acquisition IC sales for 2026 through 2032. With Robot Force-Control Acquisition IC 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 Acquisition IC industry.

This Insight Report provides a comprehensive analysis of the global Robot Force-Control Acquisition IC 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 Acquisition IC 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 Acquisition IC market.

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

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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 Acquisition IC.

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

Market Segmentation

Segmentation by Type:

Analog Front End (AFE)

Sensor Signal Conditioner (SSC)

Other

Segmentation by ADC Resolution:

?16 bit

>16–20 bit

>20–24 bit

>24 bit

Segmentation by Sampling Rate:

?1 kSPS

>1–10 kSPS

>10–50 kSPS

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>50 kSPS

Segmentation by Conversion Architecture:

Delta-Sigma

SAR

Hybrid

Segmentation by Application:

Industrial Manufacturing Robotics

Medical & Rehabilitation Robotics

Logistics & Service Robotics

Aerospace & Special-Purpose Robotics

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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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.

Texas Instruments Incorporated

NXP Semiconductors N.V.

Analog Devices, Inc.

Renesas Electronics Corporation

Microchip Technology Incorporated

GigaDevice Semiconductor Inc.

Nuvoton Technology Corporation

Elmos Semiconductor SE

SG Micro Corp

Suzhou Novosense Microelectronics Co., Ltd.

3PEAK INCORPORATED

Chipsea Technologies (Shenzhen) Corp.

Holtek Semiconductor Inc.

Shanghai Siproin Microelectronics Co., Ltd.

Key Questions Addressed in this Report

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

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What factors are driving Robot Force-Control Acquisition IC market growth, globally and by region?

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

How do Robot Force-Control Acquisition IC market opportunities vary by end market size?

How does Robot Force-Control Acquisition IC break out by Type, by Application?

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