

Global Integrated Joint Actuator 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 Integrated Joint Actuator market size was valued at US\$ 1573 million in 2025 and is forecast to a readjusted size of US\$ 8135 million by 2032 with a CAGR of 26.4% during review period.

An Integrated Joint Actuator (IJA) is a compact robotic joint module that integrates multiple key components—motor, gearbox, driver, encoder, and control electronics—into a single unified system, characterized by replacing traditional separated motor–gearbox–controller architectures with a fully integrated design that directly delivers controllable joint motion in terms of torque, speed, and position, while supporting multi-mode control such as force, position, and velocity regulation, and is widely used in humanoid robots, collaborative robots, and other high-degree-of-freedom robotic systems, essentially functioning as a plug-and-play robotic joint power unit. In 2025, global Integrated Joint Actuator production reached approximately 2.94 M units, with an average global market price of around US\$520 per unit. Annual production capacity is 3.9 M units. Gross Profit Margin: 38%. The Integrated Joint Actuator industry chain is structured around a tightly coupled precision electromechanical ecosystem. Upstream includes core materials such as rare-earth magnets, silicon steel, precision bearings, and high-grade aluminum alloys, which directly determine torque density and efficiency. Midstream is dominated by motor manufacturers, harmonic/cycloidal reducer suppliers, encoder and driver IC providers, and integrated module assemblers who combine these components into compact actuator units. Downstream demand comes primarily from humanoid robotics, collaborative robots, quadruped robots, and high-end automation equipment, where integrated joint actuators serve as the fundamental motion units enabling multi-degree-of-freedom movement and intelligent

control. Integrated Joint Actuators represent a transition from traditional “component-based motion systems” to “modular robotic intelligence units.” Their value is no longer defined only by mechanical performance, but increasingly by integration level, control software compatibility, and system-level efficiency. As humanoid robotics scales, this product category is likely to become a standardized infrastructure layer similar to GPUs in AI computing, where a few leading architectures dominate global supply chains and set performance benchmarks.

This report is a detailed and comprehensive analysis for global Integrated Joint Actuator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Motion Architecture 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 Integrated Joint Actuator market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Integrated Joint Actuator 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 Integrated Joint Actuator market size and forecasts, by Motion Architecture and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Integrated Joint Actuator 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 Integrated Joint Actuator

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 Integrated Joint Actuator 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 Harmonic Drive Systems, Nidec Corporation, Maxon Motor, Nabtesco, THK, Siemens, Yaskawa Electric, Mitsubishi Electric, Kollmorgen, Moog, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Integrated Joint Actuator market is split by Motion Architecture and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Motion Architecture, 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 Motion Architecture

Rotary Joint Actuator

Linear Actuator

Multi-DOF / Spherical Joint

Market segment by Integration Level

Semi-integrated

Fully Integrated

Distributed System

Market segment by Actuation Technology

Electric

Hydraulic

Pneumatic

Market segment by Torque

Low Torque (200 Nm)

Market segment by Application

Industrial

Commercial

Medical & Rehab

Others

Major players covered

Harmonic Drive Systems

Nidec Corporation

Maxon Motor

Nabtesco

THK

Siemens

Yaskawa Electric

Mitsubishi Electric

Kollmorgen

Moog

Unitree Robotics

CubeMars

Robotis

MyActuator

ZeroErr

ZD Motor

Laifual Drive

Kinco Automation

Moons' Industries

T-Motor

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 Integrated Joint Actuator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Integrated Joint Actuator, with price, sales quantity, revenue, and global market share of Integrated Joint Actuator from 2021 to 2026.

Chapter 3, the Integrated Joint Actuator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Integrated Joint Actuator 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 Motion Architecture and by Application, with sales market share and growth rate by Motion Architecture, 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 Integrated Joint Actuator market forecast, by regions, by Motion Architecture, 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 Integrated Joint Actuator.

Chapter 14 and 15, to describe Integrated Joint Actuator sales channel, distributors, customers, research findings and conclusion.

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