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Electronic Actuator Market Forecasts to 2032 – Global Analysis By Type (Linear Actuators, Rotary Actuators, Servo Actuators, Stepper Actuators, and Other Types), Motion Type, Voltage, Distribution Channel, Application, and By Geography

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Abstracts

According to Stratistics MRC, the Global Electronic Actuator Market is accounted for $15.09 billion in 2025 and is expected to reach $26.03 billion by 2032 growing at a CAGR of 8.1% during the forecast period. An electronic actuator is a device that converts electrical energy into mechanical motion, enabling automated control of various systems. Commonly used in applications like robotics, automotive systems, and industrial automation, it performs tasks such as opening valves, adjusting positions, or triggering movements with high precision. Unlike manual or hydraulic systems, electronic actuators offer improved efficiency, accuracy, and remote operability, making them essential components in modern control and automation technologies.

Market Dynamics:

Driver:

Rising demand for automation

Industries like automotive, aerospace, and manufacturing are rapidly integrating automation to boost accuracy, output, and operational efficiency. Innovations such as smart actuators with built-in sensors and IoT features allow for real-time monitoring and precision control. The growing production of electric vehicles and the rise of renewable energy projects have intensified the need for dependable motion-control solutions. Furthermore, government-backed programs supporting smart factories and the adoption

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of Industry 4.0 are propelling the use of automation technologies, positioning electronic actuators as essential elements across a broad range of industrial sectors.

Restraint:

Complexity in installation and maintenance

Installing electronic actuators in current systems can be quite complex, often demanding expert knowledge that makes upgrading older setups difficult and expensive. The high cost of initial implementation and the necessity for accurate calibration can discourage their use, particularly in budget-restricted sectors. Maintenance is also tricky due to their sophisticated designs, requiring trained technicians to resolve issues—leading to potential operational delays. On top of that, challenges like mismatched control systems and the lack of uniform standards among actuator models add further complications, creating barriers to widespread adoption even though automation ultimately promises significant advantages.

Opportunity:

Growing investments in aerospace and defense automation

The increasing demand for advanced military systems, unmanned aerial vehicles (UAVs), and autonomous technologies has created a need for precise and reliable motion control solutions. Electronic actuators play a vital role in flight control, weapon systems, and robotic platforms, offering enhanced performance and energy efficiency. Innovations such as smart actuators with integrated sensors and lightweight materials are further boosting adoption. Additionally, government-backed defense modernization programs and sustainability goals in aerospace are accelerating the integration of automation, positioning electronic actuators as critical components in next-gen systems.

Threat:

Volatility in raw material prices

Volatile pricing of essential raw materials such as copper, steel, and rare earth metals creates significant hurdles in budgeting and strategic planning. Manufacturers struggle to keep pricing and supply chains steady, particularly amid geopolitical unrest or global market fluctuations. Abrupt increases in material costs can slow down production, erode competitive advantage, and force reliance on expensive stockpiles. This instability

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makes it difficult to formulate effective procurement approaches and discourages investments—especially from small and medium-sized businesses that operate on tight financial margins.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the electronic actuator market, primarily through supply chain disruptions and a temporary halt in manufacturing across various industries like automotive and industrial automation. This led to a decline in demand and production. However, the pandemic also accelerated the adoption of automation and remote operation across sectors, highlighting the critical role of electronic actuators in enabling these shifts. As economies recovered and industries resumed operations, the market has witnessed a rebound, driven by increased focus on efficiency, smart manufacturing, and the growing demand for electric vehicles.

The linear actuators segment is expected to be the largest during the forecast period

The linear actuators segment is expected to account for the largest market share during the forecast period, due to the rise of industrial automation, robotics, and smart manufacturing. Their ability to deliver precise, energy-efficient linear motion makes them ideal for applications in automotive, medical devices, and renewable energy systems. Advancements in IoT integration, compact design, and low-maintenance operation further enhance their appeal, driving widespread adoption across diverse sectors seeking reliable motion control solutions.

The rotary actuators segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the rotary actuators segment is predicted to witness the highest growth rate, driven by their essential role in automation, robotics, and precision control systems. Their ability to deliver controlled rotational motion makes them ideal for applications in valves, gates, and robotic joints. Advancements in smart technologies, energy efficiency, and compact designs enhance their appeal. Growing adoption in aerospace, automotive, and industrial sectors further accelerates market growth for rotary actuators.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

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share, owing to rapid industrialization and urbanization across countries like China, India, and Southeast Asia. This fuels the adoption of industrial automation and smart manufacturing practices, where electronic actuators are crucial for precision control and efficiency. Government initiatives promoting infrastructure development and the increasing focus on energy efficiency also contribute significantly to market growth in the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fuelled by advanced industrial automation, rising adoption of electric vehicles, and strong investments in aerospace and defense technologies. The region’s focus on energy efficiency and smart infrastructure fuels demand for precise motion control systems. Integration of IoT and AI in manufacturing enhances actuator functionality, while the shift from hydraulic to electric systems supports sustainability goals, making electronic actuators vital across diverse applications.

Key players in the market

Some of the key players in Electronic Actuator Market include Siemens AG, Flowserve Corporation, ABB Ltd, Ewellix, Emerson Electric Co., General Electric, Schneider Electric, SMC Corporation, Parker Hannifin Corporation, Actuonix Motion Devices Inc., Bosch Rexroth AG, Curtiss-Wright Corporation, Moog Inc., AUMA Riester GmbH & Co. KG, and Rotork Plc.

Key Developments:

In July 2025, Siemens closed its acquisition of ebm-papst's Industrial Drive Technology (IDT) division. Its portfolio includes intelligent, integrated mechatronic systems, as well as driving systems. These technologies are used in free-moving, driverless transport systems designed for industrial environments, where they facilitate the efficient movement of goods and materials.

In May 2025, ABB announced it has signed an agreement to acquire BrightLoop, to accelerate its electrification strategy in industrial mobility and marine propulsion. The acquisition will expand ABB’s capabilities in delivering compact, rugged, and intelligent power conversion systems tailored for the most demanding applications from construction and mining equipment to electric ferries and offshore vessels.

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In July 2024, AUMA expands its retrofit services for actuators. The AUMA Retrofit Service helps plant designers and operators upgrade their existing plants with state-of-the-art, high-performance valve actuation technology, improving plant performance and reducing operating costs.

Types Covered:

- Linear Actuators
- Rotary Actuators
- Servo Actuators
- Stepper Actuators
- Other Types

Motion Types Covered:

- Electric Actuators
- Hydraulic Actuators
- Pneumatic Actuators
- Mechanical Actuators
- Other Motion Types

Voltages Covered:

- Low Voltage Actuators (Below 12V)
- Medium Voltage Actuators (12V – 24V)
- High Voltage Actuators (Above 24V)

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Distribution Channels Covered:

- Direct Sales
- Indirect Sales

Applications Covered:

- Automotive
- Healthcare
- Water & Wastewater
- Aerospace & Defense
- Consumer Electronics
- Robotics
- Chemical & Petrochemical
- HVAC Systems
- Power Generation
- Oil & Gas
- Other Applications

Regions Covered:

- North America
  - US
  - Canada

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- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil

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Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

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Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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