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Electric Actuator Market - Forecast from 2026 to 2031

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Abstracts

The electric actuator market is expected to grow at a 5.83% CAGR, increasing to USD 23.984 billion in 2031 from USD 17.072 billion in 2025.

The electric actuator market is projected to maintain steady growth throughout the forecast period, propelled by accelerating industrial automation and the global transition toward electrified motion control solutions. Electric actuators—devices that convert electrical energy into precise linear or rotary mechanical output via integrated motor and gearbox assemblies—offer superior accuracy, repeatability, programmability, and energy efficiency compared with legacy hydraulic and pneumatic systems. These attributes position them as critical enablers in Industry 4.0 environments and emerging electric mobility platforms.

Primary demand drivers remain robust. Widespread adoption of robotics, collaborative automation, and smart manufacturing continues to expand the installed base across discrete and process industries. In transportation, electric actuators are increasingly specified for steer-by-wire, brake-by-wire, and throttle-by-wire functions in battery-electric and hybrid-electric vehicles. Aerospace and defense applications further bolster volume through requirements for lightweight, low-maintenance actuation in flight control surfaces, landing gear, UAVs, and weapon positioning systems.

Asia-Pacific solidifies its dominance, driven by rapid industrialization, aggressive automation investment, and large-scale infrastructure modernization in China and India. China’s sustained 15–20 % annual growth in industrial robot installations from 2018–2020 has carried forward, anchoring the region as both the largest producer and consumer of electric actuation technologies. Concurrent expansion of domestic EV production and renewable-energy projects amplifies regional demand.

Competition from entrenched hydraulic and pneumatic systems persists as the principal

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restraint. These alternatives retain preference in high-force, harsh-environment applications where installed base inertia, proven reliability, and lower upfront cost continue to slow conversion rates. Transition barriers—including re-engineering requirements and capital expenditure justification—moderate penetration in certain legacy heavy-industry segments.

Innovation activity in 2023 and beyond has centered on performance density, environmental resilience, and functional integration:

> In March 2023, Ewellix launched a next-generation mobile-machinery actuator series targeting agricultural, construction, and aerial-work platforms. The range delivers markedly higher power density and energy efficiency while maintaining compact envelopes suitable for battery-powered equipment.

Leading commercial platforms underscore the breadth of available solutions:

> SMC Corporation’s LEF slider-type series incorporates a restart-from-last-position function that eliminates recalibration after power interruption, enhancing uptime in automated production lines.

> Emerson’s Bettis XTE3000 intelligent multi-turn actuator addresses demanding oil & gas, power generation, and process-industry valve automation with integrated diagnostics and fail-safe capabilities.

Overall, the electric actuator segment benefits from irreversible macro-trends: factory automation, vehicle electrification, and the replacement of fluid-power systems with cleaner, more controllable electric alternatives. Asia-Pacific will continue to lead both in absolute consumption and manufacturing capacity, while continued improvements in power density and hazardous-area certification progressively erode remaining hydraulic/pneumatic strongholds. The March 2023 Ewellix mobile-series introduction exemplifies the ongoing shift toward high-performance, energy-efficient electric actuation tailored for off-highway electrification and smart-machine applications.

Key Benefits of this Report:

> Insightful Analysis: Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government

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policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

Competitive Landscape: Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

Market Drivers & Future Trends: Explore the dynamic factors and pivotal market trends and how they will shape future market developments.

Actionable Recommendations: Utilize the insights to exercise strategic decisions to uncover new business streams and revenues in a dynamic environment.

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Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

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Global Electric Actuator Market is analyzed into the following segments:

By Type

Linear Actuator

Smart Linear Electric Actuator

Linear Electric Cut-Off Actuator

Rotary Actuator

Rotary Electric Cut-Off Actuator

Rotary Electric Regulating Type Actuator

By Material

Plastic

Steel

By End-User

Automotive

Oil & Gas

Food & Beverage

Electrical & Electronics

Paper & Pulp Industries

Others

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By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

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France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Israel

Others

Asia Pacific

China

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India

Japan

South Korea

Indonesia

Thailand

Taiwan

Others

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