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Electromechanical Actuators in Aircraft Market by Application (Flight Control, Fuel distribution, Cabin Actuation, Door, Landing Gear), Mechanism Type (Linear, Rotary), Motor Torque (300 Nm), Platform, Region - Global Forecast to 2030

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Abstracts

The electromechanical actuators in aircraft market is projected to reach USD 804.3 million by 2030, growing from USD 577.1 million in 2025 at a CAGR of 6.9%. The market is set to expand steadily by 2030, driven by the global shift toward electrification in aerospace systems. As aircraft manufacturers prioritize eliminating hydraulic lines and fluid-based systems, EMAs are increasingly adopted for their lightweight, compact, and energy-efficient characteristics. The trend is particularly strong in modern commercial and defense aircraft programs focused on reducing emissions, simplifying maintenance, and improving system integration.

“By mechanism type, the rotary actuator segment is estimated to grow at a higher rate than the linear actuator segment in 2025.”

The rotary actuator segment is likely to dominate the electromechanical actuators in aircraft market because rotary actuators are extensively used in all-critical aircraft systems and exhibit remarkable performance characteristics in small motion control. Rotary actuators are crucial in applications like throttle control, valve operation, flap driving, thrust reversers, and brake systems—all requiring accurate angular motion and high torque density. Their small size and capability of delivering smooth, controlled rotary motion make them especially well-suited to space-constrained commercial and military aircraft applications. Also, rotary EMAs benefit from improved reliability, faster response rates, and simpler integration into electronic flight control systems than linear EMAs. As new-generation aircraft platforms shift toward modular, electric architectures,

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there is a growing need for low-maintenance, versatile rotary actuators. These actuators are also preferable in newer platforms like eVTOLs and UAVs, where lightweight high-performance systems are needed to drive the control surfaces efficiently. Furthermore, improvements in digital feedback systems, embedded sensors, and thermal management have seen substantial improvements in fault tolerance along with diagnostic capability.

“By platform, the narrow-body aircraft segment is estimated to account for the largest share in 2025.”

The narrow-body aircraft segment is poised to dominate the electromechanical actuators in aircraft market as they play a leading role in global fleet growth, especially in short-to-medium range segments. They are witnessing many deliveries globally, with the growing demand for air travel in emerging countries, the development of low-cost carriers, and rising point-to-point connectivity. Air carriers are investing increasingly in next-generation narrow-body platforms focusing on fuel efficiency, operation performance, and lower lifecycle cost—objectives that coincide precisely with the advantages of EMAs. Electromechanical actuators have a tremendous edge over legacy hydraulic systems in terms of weight reduction, easier maintenance, and compatibility with digital flight control systems. These conditions are paramount for narrow-body fleets where cost-per-seat-mile is the key performance indicator. In addition, aircraft makers are incorporating more electric systems in newer narrow-body aircraft to address regulatory and environmental demands and drive the growth of EMA technologies more quickly.

“Latin America is projected to grow at the highest CAGR during the forecast period.”

Latin America is projected to experience the highest growth in the electromechanical actuators in aircraft market during the forecast period due to growing regional air travel needs, fleet upgrading initiatives, and rising investment in aerospace infrastructure. Brazil, Mexico, and Colombia are experiencing a domestic and intra-regional air traffic boom, with local carriers procuring newer, more fuel-efficient aircraft fitted with advanced actuation systems. Additionally, regional governments are investing in defense modernization initiatives, such as upgrading fixed-wing and rotary military fleets, which increasingly prefer electromechanical systems over hydraulic alternatives because of their reduced maintenance requirements and greater reliability.

Latin America witnesses major aircraft manufacturing and MRO activities—especially in Brazil. This facilitates local adoption and integration of EMA technologies. The transition

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to sustainable aviation, such as the interest in hybrid and electric aircraft, also increases the demand for lightweight, electrically-powered parts, such as EMAs. Although the region continues to represent a smaller percentage of the global aviation market in absolute terms, its rapid pace of change, enabling regulatory changes and expanding aerospace ecosystem make Latin America a high-growth region for electromechanical actuators in the commercial aviation and defense aviation markets.

The break-up of primary participants in the electromechanical actuators in aircraft market is given below:

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C Level – 35%, Director Level – 25%, and Others – 40%

By Region: North America – 25%, Europe – 15%, Asia Pacific – 45%, Middle East – 10%, and Rest of the World (RoW) – 5%

Major companies profiled in the report include Curtiss-Wright Corporation (US), Moog (US), Honeywell (US), Liebherr (Switzerland), and Ametek Inc. (US), among others.

Research Coverage:

This market study covers the electromechanical actuators in aircraft market across various segments and subsegments. It aims to estimate this market size and growth potential across different parts based on region. This study also includes an in-depth competitive analysis of the key players in the market, their company profiles, key observations related to their product and business offerings, recent developments, and key market strategies they adopted.

Reasons to buy this report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall electromechanical actuators in aircraft market. It will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities. The electromechanical actuators in aircraft market experiences growth and evolution

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driven by various factors. Some of these factors are provided below:

Market Drivers (Growing demand for more electric aircraft (MEA), rising demand for electromechanical actuators in the drone industry, technological issues with traditional hydraulic systems and pneumatic actuators), restraints (Stringent government regulations), opportunities (Development of electric actuation architecture for urban air mobility (UAM), and challenges (Technological complexities)

Market Penetration: Comprehensive information on electromechanical actuators in aircraft offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the electromechanical actuators in aircraft market

Market Development: Comprehensive information about lucrative markets. The report analyses the electromechanical actuators in aircraft market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the electromechanical actuators in aircraft market

Competitive Assessment: In-depth assessment of market shares, growth strategies, products, and manufacturing capabilities of leading players in the electromechanical actuators in aircraft market

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