

## **Aircraft Actuators - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

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### **Report description:**

The Aircraft Actuators Market size is estimated at USD 9.93 billion in 2025, and is expected to reach USD 14.24 billion by 2030, at a CAGR of 7.47% during the forecast period (2025-2030).

Countries are increasingly focusing on bolstering their air transportation services and expanding commercial aircraft fleets to enhance global connectivity and foster economic growth. Airlines worldwide are investing heavily in advanced, lightweight, and fuel-efficient aircraft fleets, poised to propel the market's growth.

The aviation industry is witnessing a significant evolution in aircraft actuator systems. Given the demanding conditions they face, from strong vibrations to extreme temperatures, manufacturers are collaborating globally to ensure these systems are efficient and cost-effective. In recent years, the power sources for onboard actuators have seen a notable shift. The industry has progressed from traditional manual sources like cables and rods to more advanced hydraulically and electrically driven solutions.

3D printing has revolutionized actuator design, making it faster, cost-effective, and more streamlined. This technology allows for the integration of all actuator components into a single structure, eliminating the need for external joints, adhesives, and fasteners. As 3D-printed actuators become fully operational in the aerospace industry, the market is poised for rapid growth.

### **Aircraft Actuators Market Trends**

The Linear Actuators Segment is Anticipated to Show the Highest Growth During the Forecast Period

The linear actuators segment is poised for significant growth during the forecast period. Electric linear actuators, known for their

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precision, outshine their hydraulic and pneumatic counterparts. These actuators are versatile and cater to a wide range of force requirements. Notably, electric linear actuators are the top choice for many aircraft manufacturers. Their ease of networking and swift programmability sets electric linear actuators apart. They offer real-time diagnostics and maintenance feedback. Moreover, these actuators grant precise motion control, allowing for tailored speeds, stroke lengths, and applied forces. In addition, they operate more quietly than their hydraulic and pneumatic counterparts. Recognizing these benefits, companies increasingly join forces to harness technology and bolster their market reach.

For example, in July 2022, Parker Aerospace unveiled a collaboration to advance electric flight. Partnering with Aviation Aircraft, Parker Aerospace spearheaded the development of six technology system packages for the groundbreaking 'Alice' commuter aircraft. These packages featured cutting-edge electromechanical actuators, electronic control units, and position sensors. With a global uptick in commercial and defense aircraft production, manufacturers are increasingly turning to linear actuators for their myriad benefits. Given these trends, the linear actuator segment is poised for robust growth over the forecast period.

#### Asia-Pacific is Projected to Record Significant Growth During the Forecast Period

In recent years, Asia-Pacific has witnessed significant growth in the aviation industry due to escalating investments from India and China. This surge is further fueled by the mounting demand for commercial aircraft, a response to the region's burgeoning air traffic. Notably, in 2020, China surpassed the United States to become the world's largest aviation market regarding seating capacity, a shift largely magnified by the United States cutting nearly 30% of its seating capacity amid the pandemic.

Highlighting China's aviation industry's vigor, in November 2022, China Aviation Supplies (CASC) inked a significant deal with Airbus, securing 140 jets in a USD 17 billion agreement, encompassing CASC's existing orders. Moreover, in July 2022, Airbus further solidified its position in the Chinese market by finalizing orders with major carriers like Air China, China Eastern, China Southern, and Shenzhen Airlines for a collective 292 A320 family aircraft. Such robust orders underscore China's aviation market's rebound and point toward a heightened demand for aircraft actuators, promising substantial market growth in the coming years.

Shifting focus to India, the nation is actively bolstering its military capabilities. With a military budget of USD 76 billion, India ranks as the world's fourth-largest spender, trailing only the United States, China, and Russia. A significant portion of this budget is earmarked for advancements in military aircraft, setting the stage for notable developments in the industry. In a testament to this commitment, in October 2022, the Tata-Airbus consortium, a pioneering private venture in India's military landscape, commenced the construction of a manufacturing facility. This facility is dedicated to producing the C-295 medium transport aircraft to modernize the Indian Air Force's transportation fleet.

#### Aircraft Actuators Industry Overview

The market for aircraft actuators is fragmented, with many players supplying several types of actuation systems for different aircraft programs. Liebherr-International Deutschland GmbH, RTX Corporation, Parker Hannifin Corporation, Eaton Corporation PLC, and Honeywell International Inc. are prominent players in the aircraft actuators market.

Liebherr Aerospace supplies mechanical actuators for the Airbus A320, A330, and A350, hydraulic actuators for the Airbus A400M, and electromechanical actuators for the Boeing B777. With new aircraft under development and recent announcements, players could secure fresh supply contracts with these aircraft's OEMs.

- March 2022: Parker Aerospace was chosen by Sikorsky-Boeing to provide a range of components, including the hydraulic tail actuation system (HTAS) and main rotor servo actuators (MRS), for the DEFIANT X model under the Future Long-Range Assault Aircraft (FLRAA) program. This move highlights the growing opportunities in the aviation industry. In addition, there is a push

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toward innovation, focusing on producing lightweight actuators. These advancements not only reduce the aircraft's overall weight but also lead to significant fuel savings for airlines.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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