

Aircraft Actuators Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Commercial Aviation & Avionics (Aerospace & Defense)
> ****Source:**** https://www.mordorintelligence.com/industry-reports/aircraft-actuators-market(https://www.mordorintelligence.com/industry-reports/aircraft-actuators-market)
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Executive Market Summary

Market Metric	Details
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Base Market Size	USD 10.86 billion
Projected Forecast (2031)	USD 10.86 billion
Growth Rate (CAGR)	6.45 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

![Major players in Aircraft Actuators industry](images/chart_2.png)

![Aircraft Actuators Market Size](images/chart_3.png)

![Aircraft Actuators Market Share by Type, 2025](images/chart_4.png)

![Aircraft Actuators Market Share by End User, 2025](images/chart_5.png)

![Aircraft Actuators Market Growth Rate by Region](images/chart_6.png)

![Aircraft Actuators Market Concentration](images/chart_7.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2019 - 2031 |
Market Size (2026) | USD 10.86 Billion |
Market Size (2031) | USD 14.84 Billion |
Growth Rate (2026 - 2031) | 6.45 % |
Fastest Growing Market | Asia Pacific |
Largest Market | North America |
Market Concentration | Medium |
Major Players*Disclaimer: Major Players sorted in no particular order

Market Overview

Aircraft Actuators Market Analysis by Mordor Intelligence The aircraft actuators market size is expected to grow from USD 10.66 billion in 2025 to USD 10.86 billion in 2026 and is forecasted to reach USD 14.84 billion by 2031 at a 6.45% CAGR over 2026-2031. Persistent narrowbody backlogs at Airbus and Boeing, the march toward more-electric architectures, and the shift toward predictive-maintenance-ready components are the primary drivers of this expansion. Electromechanical technologies are gaining market share because they eliminate hydraulic leakage, reduce empty weight, and stream health data to operators. Thermal-management hurdles still restrict their role in high-speed primary controls. Airlines remain cautious about complete retrofits, but regulatory moves, such as FAA Advisory Circular 25-19A, have created a compliance path for smart actuators. Meanwhile, sustainability programs around SAF and hydrogen are spawning new design cycles that further expand actuator content per aircraft. On the competitive front, the aircraft actuators market is moderately concentrated, as the top five suppliers leverage digital twin platforms and vertical integration, while niche specialists court eVTOL and UAV programs with ultra-light, electro-hydrostatic designs.

Key Report Takeaways* By type, linear actuators held 70.55% of the aircraft actuators market share in 2025, whereas rotary units are projected to post the fastest 6.90% CAGR through 2031.

* By system, hydraulic actuators retained 44.90% of the revenue in 2025; electrical and electromechanical units are on track for the highest 7.10% CAGR through 2031.

* By application, flight-control surfaces accounted for 47.20% of 2025 revenue, while cabin and seat systems are forecasted to expand at a 7.85% CAGR.

* By end user, commercial aviation led with 67.80% revenue in 2025; military aviation is expected to grow at the fastest rate, with an 8.10% CAGR through 2031.

* By fit, the aftermarket captured 56.90% of the 2025 value, whereas OEM installations are expected to rise at a 6.85% CAGR as production rates recover.

* By geography, North America generated 36.85% of 2025 sales, but Asia-Pacific will deliver the strongest 7.25% CAGR until 2031.

Key Market Trends

Market Trends and Insights Drivers Impact Analysis of Aircraft Actuators Market* Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline

Surge in narrowbody production backlog | +1.2% | Global, North America and Europe | Medium term (2–4 years) |

Increased electrification of secondary flight systems | +0.9% | Global, led by North America and Europe | Long term (≥ 4 years) |

Rising retrofit demand for health-monitoring smart actuators | +0.7% | Global, early adoption in North America and Europe | Short term (≤ 2 years) |

More-electric and hybrid-electric aircraft programs | +0.8% | Global, North America & Europe | Long term (≥ 4 years) |

Light-weight electro-hydrostatic actuator (EHA) adoption in UAVs and eVTOLs | +0.5% | Global, APAC and North America | Medium term (2–4 years) |

Government support for SAF and hydrogen driving redesign of actuation loads | +0.4% | Global, Europe and North America | Long term (≥ 4 years) |

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The market concentration is moderate, with a few leading players holding significant positions. Key companies include Honeywell, Collins Aerospace (RTX), Parker

-Hannifin, Moog, and Safran. These companies secure long-term supply agreements and utilize digital-twin analytics to enhance aftermarket revenue. For instance, Honeywell's Forge platform predicts actuator wear 500 hours in advance and generates USD 12 per flight hour, shifting profitability toward service offerings. Parker-Hannifin's modular EMA achieves 70% parts commonality, reducing certification costs by USD 8 million per variant and enabling faster customization across commercial and defense applications.

Smaller challengers, such as Nabtesco, Electromech Technologies, and Curtiss-Wright, are gaining traction in UAV and eVTOL markets by offering lightweight EHAs with power densities exceeding 2 kW/kg. Joby Aviation has adopted vertically integrated actuator designs to meet stringent mass requirements, signaling a potential trend toward OEM-designed systems in the urban air mobility (UAM) segment. Patent activity also highlights emerging areas of competition. For example, Parker filed 14 patents in 2024 related to rare-earth-lean hybrid-reluctance motors, while Collins Aerospace's HealthAware monitoring service now incorporates machine-learning algorithms, resulting in a 22% reduction in spare-parts inventory.

Regulations are shaping competitive dynamics in the market. The FAA Advisory Circular 25-19A mandates extended-range airframes to include health-monitoring systems, benefiting suppliers with sensor-integrated product portfolios while creating barriers for low-tech entrants. Consolidation trends continue, as evidenced by RTX's acquisition of a precision motion-control specialist in 2024, which expanded its rotary actuator offerings for thrust-reverser programs, a segment growing at an annual rate of 8%. Looking forward, advancements in rare-earth diversification and high-temperature magnet technologies are expected to redefine sourcing strategies, making materials science a critical factor alongside mechanical innovation in maintaining market share within the aircraft actuators industry.

Aircraft Actuators Industry Leaders* Honeywell International Inc.

* Parker-Hannifin Corporation

* Moog Inc.

* Safran SA

* Collins Aerospace (RTX Corporation)

* *Disclaimer: Major Players sorted in no particular order

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Scope Methodology P Space

For this study, the market covers revenue earned from aircraft actuators that convert a command into controlled motion inside an aircraft, across hydraulic, electric, electromechanical, pneumatic, and mechanical designs, including OEM and aftermarket demand.

Scope exclusions: We exclude passenger-seat adjustment mechanisms and ground test rigs.

Segmentation Container

* By Type* Linear

* Rotary

* By System* Hydraulic Actuators

* Electrical/Electromechanical Actuators (EMAs)

* Pneumatic Actuators

* Mechanical Actuators

- * By Application* Flight Control Surfaces
- * Landing Gear and Braking
- * Thrust Reverser Actuation System
- * Cabin and Seat Systems
- * Environmental and Utility Systems
- * Fuel Storage and Distribution System

- * By End User* Commercial Aviation
- * Military Aviation
- * General Aviation

- * By Fit* Original Equipment Manufacturer (OEM)
- * Aftermarket

- * By Geography* North America* United States
- * Canada
- * Mexico

- * Europe* United Kingdom
- * France
- * Germany
- * Russia
- * Rest of Europe

- * Asia-Pacific* China
- * India
- * Japan
- * South Korea
- * Rest of Asia-Pacific

- * South America* Brazil
- * Rest of South America

- * Middle East and Africa* Middle East* Saudi Arabia
- * United Arab Emirates
- * Rest of Middle East

- * Africa* South Africa
- * Egypt
- * Rest of Africa

Frequently Asked Questions

What is the projected value of the aircraft actuators market in 2031?

The aircraft actuators market is forecasted to reach USD 14.84 billion by 2031, reflecting a 6.45% CAGR.

Which actuator type currently dominates new deliveries?

Linear units dominate, holding 70.55% market share in 2025 due to long-stroke applications on landing gear and flaps.

Which region will grow fastest over the next five years?

Asia-Pacific is set to advance at a 7.25% CAGR through 2031, propelled by COMAC C919 and Indian defense programs.

Why are airlines adopting smart actuators?

Sensor-embedded actuators enable predictive maintenance that can cut unscheduled events by more than 30% and lower AOG costs.

How are sustainability mandates influencing actuator design?

SAF and hydrogen initiatives require fuel-system actuators with new seal materials and longer strokes, sparking fresh design cycles.

What is the major supply-chain risk for electromechanical actuators (EMAs)?

Dependence on Chinese rare-earth magnets exposes manufacturers to price spikes and delivery delays, prompting research into alternative motor chemistries.