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Aerospace Actuators Market Forecasts to 2034 – Global Analysis By Type (Linear Actuators and Rotary Actuators), Platform, Technology, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Aerospace Actuators Market is accounted for $17.5 billion in 2026 and is expected to reach $61.4 billion by 2034, growing at a CAGR of 15.0% during the forecast period. Aerospace actuators are specialized devices that transform power from electrical, hydraulic, or pneumatic sources into regulated mechanical motion for aviation and space applications. They play a vital role in operating systems such as flaps, rudders, landing gear, and braking assemblies. These components provide precise control, ensuring smooth aircraft handling, operational efficiency, and flight safety. Built to withstand harsh operating environments, aerospace actuators are engineered for durability, accuracy, low weight, and consistent performance under extreme mechanical stress, temperature variations, and dynamic loads.

Market Dynamics:

Driver:

Increasing global air travel and fleet modernization

Concurrently, existing fleets are undergoing significant modernization and retrofitting to enhance performance and comply with evolving environmental regulations. This dual trend of fleet expansion and upgrade creates substantial demand for advanced actuation systems. Next-generation aircraft, such as the Boeing 787 and Airbus A350, rely heavily on more electric architecture, which necessitates sophisticated electric and

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electro-mechanical actuators. This shift not only drives the volume of actuators required but also pushes the technological envelope, demanding lighter, more durable, and intelligent actuation solutions for primary and secondary flight controls.

Restraint:

High development and certification costs

Manufacturers must invest heavily in advanced materials, redundant design architectures, and exhaustive testing to meet regulatory requirements from bodies like the FAA and EASA. The integration of complex digital electronics and software for 'fly-by-wire' and 'power-by-wire' systems adds further layers of complexity and cost. These high barriers to entry can stifle innovation, particularly for smaller suppliers, and lead to extended payback periods for new technologies. The substantial financial commitment required often results in long-term supply contracts, which can lock in legacy technologies and slow the adoption of potentially superior, but unproven, actuation solutions.

Opportunity:

Rise of Urban Air Mobility (UAM) and electric Vertical Takeoff and Landing

The emerging market for Urban Air Mobility (UAM), including eVTOL aircraft for air taxis and cargo delivery, presents a groundbreaking opportunity for aerospace actuator manufacturers. These novel platforms require highly reliable, lightweight, and electrically powered actuation systems for flight control, propeller pitch control, and thrust vectoring. Unlike traditional aircraft, eVTOLs demand actuators with unique performance characteristics, including low noise, high redundancy, and the ability to handle high cycle counts during short urban flights. This nascent market encourages innovation in compact, high-power-density electric actuators and fosters partnerships between established aerospace suppliers and innovative startups.

Threat:

Supply chain volatility and material shortages

The industry relies on a complex network of suppliers for high-grade steel, titanium, rare-earth magnets for electric motors, and advanced electronic components. Geopolitical tensions, trade disputes, or events like pandemics can lead to significant shortages and

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price volatility. The recent global semiconductor shortage, for example, directly impacted the production of 'smart' actuators with embedded electronics. Such disruptions can cause severe production delays for OEMs and aftermarket service providers, leading to contract penalties and a backlog in aircraft deliveries, ultimately undermining the industry's ability to meet the growing demand from airline customers.

Covid-19 Impact:

The COVID-19 pandemic severely disrupted the aerospace industry, causing a sharp decline in air travel and subsequent order deferrals and cancellations for new aircraft. This led to a significant slowdown in actuator demand from OEMs. Supply chains were strained by factory shutdowns and logistical bottlenecks, delaying production and aftermarket services. However, the crisis also accelerated the retirement of older, less efficient aircraft, indirectly boosting the long-term need for modern, fuel-efficient planes with advanced actuation systems. Post-pandemic, the industry is focused on building more resilient, localized supply chains and accelerating digitalization in manufacturing and maintenance.

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

The electric actuators segment is expected to account for the largest market share during the forecast period, driven by the industry-wide shift towards 'More Electric Aircraft' (MEA). Replacing traditional hydraulic and pneumatic systems with electric actuators reduces overall aircraft weight, improves fuel efficiency, and simplifies maintenance. These actuators offer precise, on-demand control, which is critical for fly-by-wire systems in both commercial and military platforms. Their application is expanding from secondary flight controls to more critical functions like primary flight controls and braking systems.

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

Over the forecast period, the OEMs segment is predicted to witness the highest growth rate, fueled by the massive order backlogs for new fuel-efficient commercial aircraft from giants like Airbus and Boeing, as well as the development of new military platforms and the emergence of eVTOL vehicles. Each new aircraft delivered requires a complete suite of actuation systems, from flight controls to landing gear. Furthermore, as aircraft architectures become more complex with integrated systems, OEMs are demanding closer collaboration with actuator suppliers early in the design phase.

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Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the United States' leadership in defense aerospace, with significant government funding for next-generation fighter jets, bombers, and UAVs, all of which demand cutting-edge actuation technology. The region is also a hub for eVTOL and UAM innovation, with numerous startups and established players developing new aircraft concepts. Strong R&D investment in advanced actuation technologies, such as electro-hydrostatic and smart electro-mechanical actuators, coupled with a robust aftermarket ecosystem, ensures rapid commercialization and adoption.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to the region's rapidly expanding commercial aviation sector, driven by a burgeoning middle class and increasing air travel demand in countries like China and India. Both nations are heavily investing in domestic aircraft manufacturing capabilities and modernizing their military fleets. The presence of major aircraft assembly plants and a vast network of low-cost carriers necessitates a high volume of new aircraft, and consequently, actuation systems.

Key players in the market

Some of the key players in Aerospace Actuators Market include Honeywell International Inc., Safran SA, Collins Aerospace, Moog Inc., Parker Hannifin Corporation, Eaton Corporation plc, Woodward, Inc., Triumph Group, Inc., Nidec Corporation, Curtiss-Wright Corporation, GE Aerospace, Beaver Aerospace & Defense, Inc., Arkwin Industries, CESA, and Liebherr Group.

Key Developments:

In February 2026, Honeywell announced that it has entered into an amended agreement to acquire Johnson Matthey's Catalyst Technologies business segment, which adjusts the total consideration from ?1.8 billion to ?1.325 billion and extends the long stop date to July 21, 2026. In the event that any of the regulatory approvals are not satisfied by the long stop date, the long stop date may be extended to August 21, 2026, if certain conditions are met.

In February 2026, Raytheon, an RTX entered into five landmark framework agreements

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with the U.S. Department of War to significantly increase production capacity and speed deliveries of Land Attack and Maritime Strike variants of Tomahawk, AMRAAM® missiles, Standard Missile-3® Block IB interceptors (SM-3 IB), Standard Missile-3® Block IIA interceptors (SM-3 IIA), and Standard Missile-6® (SM-6).

Types Covered:

- Linear Actuators
- Rotary Actuators

Platforms Covered:

- Commercial Aviation
- Military Aviation
- Business & General Aviation
- Spacecraft & Satellites
- Missiles & Munitions

Technologies Covered:

- Electric Actuators
- Hydraulic Actuators
- Pneumatic Actuators
- Electro-Hydraulic Actuators
- Electro-Mechanical Actuators
- Mechanical Actuators

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Applications Covered:

- Flight Control Systems
- Landing Gear Systems
- Engine Control Systems
- Thrust Reverser Actuation Systems
- Cabin Interiors & Cargo Systems
- Weapon Bay & Payload Systems
- Space Applications

End Users Covered:

- OEMs
- Aftermarket

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany

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- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore

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- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco

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Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- 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)

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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13 COMPANY PROFILES

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World

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(RoW) are also represented in the same manner as above.

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