

# **Commercial Aircraft Actuation System Market –Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Motion (Linear, Rotary), By Actuator Type (Hydraulic, Pneumatic, Electromechanical, and Others), By Region & Competition, 2019-2029F**

<https://marketpublishers.com/r/C96C0EBC0AF9EN.html>

Date: December 2024

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: C96C0EBC0AF9EN

## **Abstracts**

The Global Commercial Aircraft Actuation System market was valued at USD 365.59 Million in 2023 and is expected to reach USD 484.88 Million by 2029 with a CAGR of 4.83% during the forecast period. The global commercial aircraft actuation system market plays a critical role in ensuring the operational efficiency and safety of modern aircraft. Actuation systems encompass a variety of mechanisms that control the movement of essential components such as flaps, landing gear, and flight control surfaces. These systems are vital for maintaining aerodynamic stability, facilitating smooth flight operations, and enabling precise maneuverability during takeoff, flight, and landing phases.

Key drivers influencing the market include the continuous evolution of aircraft technology towards more efficient and lightweight designs, which demand advanced actuation systems capable of handling increased operational demands while minimizing weight and energy consumption. Moreover, stringent safety regulations imposed by aviation authorities worldwide drive the demand for robust and reliable actuation systems that ensure compliance with rigorous safety standards.

The market is also shaped by ongoing innovations in materials, sensors, and control technologies, aimed at enhancing the performance and reliability of actuation systems. Manufacturers focus on developing systems that offer higher efficiency, reduced

maintenance requirements, and enhanced durability to meet the rigorous demands of commercial aviation. As airlines seek to improve fuel efficiency and reduce operating costs, there is a growing emphasis on adopting actuation systems that contribute to overall aircraft performance improvements and operational reliability, further driving market growth.

## Market Drivers

### Rising Demand for Commercial Aircraft

One of the primary drivers of the global commercial aircraft actuation system market is the consistently rising demand for commercial aircraft. The aviation industry has witnessed steady growth over the years, driven by factors such as increasing global population, urbanization, rising disposable incomes, and a growing middle class. As more people opt for air travel as their preferred mode of transportation, airlines are expanding their fleets to meet this demand. The demand for new commercial aircraft, along with the need for maintenance and retrofitting of existing aircraft, creates a significant market for aircraft actuation systems. These systems are essential for the safe and efficient operation of aircraft, controlling crucial functions like landing gear, wing flaps, and thrust reversers. The increasing number of aircraft in service or on order globally directly impacts the demand for actuation systems. Furthermore, the expansion of the global aviation network, with the emergence of new airlines and routes, contributes to the market's growth. Emerging markets in Asia, the Middle East, and Latin America are becoming hubs for air travel, further increasing the need for commercial aircraft and actuation systems. The rising demand for commercial aircraft, driven by economic growth and increasing air travel, is a fundamental market driver for commercial aircraft actuation systems. This trend is expected to continue, with global passenger traffic projected to grow steadily in the coming years. In April 2024, for instance, Microchip Technology (Nasdaq: MCHP) introduced a new integrated actuation power solution for the aviation sector, featuring gate driver boards paired with Hybrid Power Drive (HPD) modules in silicon carbide or silicon technology, with power capacities from 5 kVA to 20 kVA. This solution retains a consistent footprint regardless of power output. The gate driver boards are designed to seamlessly integrate with Microchip's HPD modules, offering a comprehensive motor drive solution for electrifying flight controls, braking, and landing gear. Microchip's adaptable power solutions address various needs, from drone actuation systems to high-power systems for eVTOL, MEA, and all-electric aircraft.

### Technological Advancements in Actuation Systems

Another crucial driver of the global commercial aircraft actuation system market is the continuous technological advancements in actuation systems. As aircraft design and manufacturing techniques evolve, actuation systems need to keep pace with these developments. New materials, advanced sensors, and control systems are being integrated into actuation systems to enhance their efficiency, reliability, and overall performance. Technological advancements are particularly evident in areas such as electromechanical actuation systems, which are replacing traditional hydraulic systems. Electromechanical actuation systems offer several advantages, including reduced maintenance requirements, lower weight, and improved energy efficiency. They also enable precise control and monitoring, which is essential for modern fly-by-wire systems and automated flight control. Furthermore, the incorporation of advanced materials like composites and lightweight alloys in actuation system components helps reduce the overall weight of the aircraft, resulting in fuel savings and improved environmental performance.

#### Aging Aircraft Fleet and Retrofit Market

The global commercial aircraft fleet comprises a mix of new and aging aircraft, with many older models still in service. While newer aircraft come equipped with advanced actuation systems, older models often require retrofitting to meet safety and performance standards or to enhance fuel efficiency. The aging aircraft fleet presents a significant market driver for commercial aircraft actuation systems, as retrofitting these aircraft often involves upgrading their actuation systems to comply with modern standards and regulations. These retrofit projects can include the installation of newer, more efficient actuation components, which can extend the operational life of older aircraft. Aircraft operators also opt for retrofitting to improve the passenger experience, update avionics systems, or enhance safety features. All of these objectives may involve modifications to the aircraft's actuation systems. For instance, the replacement of outdated hydraulic systems with more efficient electromechanical systems can be part of a comprehensive retrofit program. The maintenance, repair, and overhaul (MRO) market for actuation systems is closely linked to the aging aircraft fleet and retrofit market. Airlines and MRO service providers seek cost-effective solutions to keep older aircraft in operational condition, and this often involves upgrading or replacing actuation components. As many airlines choose to extend the service life of their aging aircraft to maximize their return on investment, the demand for actuation system retrofitting is expected to remain robust. This presents a compelling driver for companies in the commercial aircraft actuation system market, as they offer solutions to meet the retrofit needs of the industry.

## Key Market Challenges

### Stringent Regulatory and Certification Requirements

One of the primary challenges facing the global commercial aircraft actuation system market is the stringent regulatory and certification requirements imposed by aviation authorities worldwide. These regulations are put in place to ensure the safety and airworthiness of aircraft, and they cover a wide range of aspects, including the design, manufacturing, testing, and maintenance of aircraft systems, including actuation systems. The certification process for aircraft components, including actuation systems, can be time-consuming, costly, and complex. It requires thorough documentation, extensive testing, and compliance with specific standards such as those set by the Federal Aviation Administration (FAA) in the United States or the European Union Aviation Safety Agency (EASA) in Europe. Any deviations from these standards or issues in the certification process can lead to delays in bringing products to market, increasing development costs and potentially disrupting the supply chain. Moreover, as aircraft designs and technologies continue to evolve, regulatory agencies often update their requirements to incorporate new safety and performance standards.

### Intense Competition and Consolidation

The commercial aircraft actuation system market is highly competitive, with a limited number of major players dominating the industry. Intense competition among these established companies often leads to challenges for smaller or newer entrants attempting to gain a foothold in the market. Many of the major players have longstanding relationships with aircraft manufacturers and airlines, making it difficult for new entrants to break into these established supply chains. These relationships are built on trust, reliability, and a history of successful collaboration, which can be challenging for newcomers to replicate. Additionally, the capital-intensive nature of the aerospace industry necessitates significant investments in research and development, production facilities, and advanced technologies. This presents a substantial barrier to entry for smaller companies with limited resources. Established players benefit from economies of scale and are more equipped to invest in innovation and technology, giving them a competitive advantage. Furthermore, there is a trend of consolidation within the aerospace industry, with larger companies acquiring smaller ones to strengthen their product portfolios and expand their global reach.

### Increasing Cost Pressures and Price Sensitivity

The aerospace industry is known for its strict cost-control measures, and cost pressures are continually increasing. Aircraft manufacturers and airlines seek to minimize expenses at every stage of the supply chain, which directly affects suppliers of components like actuation systems. The pressure to reduce costs is driven by several factors. Airlines aim to maintain competitive ticket prices and operational efficiency to attract passengers. Aircraft manufacturers, on the other hand, look for ways to optimize their production processes and lower the overall cost of manufacturing an aircraft. In this cost-sensitive environment, suppliers of actuation systems are often required to provide high-quality components at competitive prices. This puts significant pressure on their profit margins, as achieving cost savings can be challenging without compromising on quality and performance. Moreover, the intense competition in the industry, as discussed earlier, can lead to price wars and further squeeze profit margins. Airlines and manufacturers often seek to negotiate favorable contracts and pricing terms, making it essential for suppliers to maintain cost-efficient production processes.

## Key Market Trends

### Shift Towards Electromechanical Actuation Systems

One of the significant trends in the global commercial aircraft actuation system market is the ongoing shift towards electromechanical actuation systems, which are replacing traditional hydraulic systems. Electromechanical systems use electric motors and mechanical components to control various functions in an aircraft, such as landing gear, wing flaps, and flight control surfaces. This trend is primarily driven by the pursuit of greater efficiency and sustainability in aviation. Electromechanical systems offer several advantages, including: Electromechanical systems generally have lower maintenance requirements compared to hydraulic systems. They are less prone to leaks and do not require hydraulic fluid, resulting in cost savings for airlines. Electromechanical systems are typically lighter than their hydraulic counterparts, contributing to fuel efficiency and reduced emissions. Electric actuators allow for more precise and reliable control of aircraft functions, improving safety and performance. Electromechanical systems are seen as more environmentally friendly due to the absence of hydraulic fluid and reduced energy consumption.

### Advanced Materials and Lightweight Components

Another prominent trend in the commercial aircraft actuation system market is the increasing use of advanced materials and lightweight components. Modern aircraft

design places a strong emphasis on reducing weight to improve fuel efficiency, enhance performance, and meet environmental goals.

Actuation systems play a crucial role in achieving these objectives. Manufacturers are incorporating advanced materials like composites and lightweight alloys into actuator components, such as ball screws, gears, and casings. These materials offer the following benefits: Lightweight materials help reduce the overall weight of the aircraft, leading to fuel savings and lower operating costs. Advanced materials often have superior durability and resistance to wear and tear, prolonging the lifespan of actuation components. Lightweight components can contribute to the overall efficiency of the actuation system, ensuring smoother and more reliable operation.

### Global Expansion of Low-Cost Carriers

The expansion of low-cost carriers (LCCs) around the world has significantly influenced the global commercial aircraft actuation system market. LCCs have disrupted the traditional airline business model by offering affordable fares and increasing access to air travel for a broader segment of the population. The success of LCCs has driven the demand for smaller, more fuel-efficient, and cost-effective aircraft. These carriers often operate short-haul and point-to-point routes, and they place a strong emphasis on reducing operating costs. As a result, they prioritize aircraft that are not only economical to purchase and operate but also cost-effective to maintain. Commercial aircraft actuation systems for LCCs need to be reliable, easy to maintain, and competitively priced. While these systems may not require the same level of complexity and redundancy as those used in larger, long-haul aircraft, they are still vital for safe and efficient flight operations.

### Segmental Insights

#### Actuator Type Insights

The global commercial aircraft actuation system market is segmented by actuator type into hydraulic, pneumatic, electromechanical, and others, each playing a vital role in the aviation industry's operations. Among these, electromechanical actuators are emerging as a significant segment due to their efficiency, reliability, and compatibility with modern aircraft designs. They are increasingly preferred for their lightweight properties, which contribute to overall fuel efficiency, and their capability to integrate seamlessly with advanced avionics systems. Electromechanical actuators are widely used in applications requiring precision, such as flight control systems, landing gear operations,



and other critical functions.

Hydraulic actuators, traditionally dominating the market, remain integral in applications demanding high force output. Their robustness and ability to handle substantial loads make them suitable for tasks such as landing gear and brake systems. However, the heavy maintenance requirements and potential for fluid leakage have led to a gradual shift towards electromechanical alternatives, especially in newer aircraft models focused on sustainability and cost efficiency.

Pneumatic actuators are another notable segment, valued for their simplicity and cost-effectiveness in operations that do not require extensive power. Their application in auxiliary systems such as cabin pressure control and certain types of cargo door operations highlights their importance in specific aircraft subsystems. The other category includes advanced or hybrid actuator types being explored for niche applications, reflecting ongoing innovation in the field.

The increasing adoption of electromechanical actuators is influenced by their alignment with the industry's push toward electric and more environmentally friendly aircraft systems. This trend is driven by advancements in technology and the need to reduce operational costs and carbon footprints. At the same time, the steady reliance on hydraulic systems for heavy-duty applications ensures that they remain a significant part of the market.

## Region Insights

In 2023, North America holds a dominant position in the global commercial aircraft actuation system market due to several key factors. Firstly, the region boasts a significant concentration of leading aerospace manufacturers and suppliers who specialize in advanced technologies and innovations. This concentration fosters a robust ecosystem for research, development, and production of high-quality actuation systems that meet stringent aviation standards and regulatory requirements.

North America benefits from a strong base of established airlines and fleet operators that continually upgrade their aircraft to incorporate the latest technological advancements. This demand drives the need for reliable and efficient actuation systems that enhance aircraft performance, safety, and operational efficiency.

The region's favorable economic conditions and substantial investments in aerospace infrastructure further bolster its market dominance. Government support for aerospace

research and development, coupled with strategic partnerships between industry players and academic institutions, facilitates continuous advancements in actuation system technologies.

North America's proactive approach to environmental sustainability and fuel efficiency in aviation operations propels the adoption of innovative actuation systems designed to reduce aircraft weight and energy consumption. These factors collectively contribute to North America's leadership position in the global commercial aircraft actuation system market, driving market growth and technological advancement in the industry.

### Key Market Players

Moog Inc.

Parker Hannifin Corp

Curtiss-Wright Corporation

RTX Corporation

The Boeing Company

Marotta Controls, Inc.

Northrop Grumman Corporation

Eaton Corporation plc

Woodward Inc.

Liebherr-International Deutschland GmbH

### Report Scope:

In this report, the Global Commercial Aircraft Actuation System market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:



· Commercial Aircraft Actuation System Market, By Motion:

Linear

Rotary

· Commercial Aircraft Actuation System Market, By Actuator Type:

Hydraulic

Pneumatic

Electromechanical

Others

· Commercial Aircraft Actuation System Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

France

Germany

Spain

Italy

United Kingdom

Rest of Europe

Asia-Pacific

China

Japan

India

Vietnam

South Korea

Thailand

Australia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

South America

Brazil

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global

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Commercial Aircraft Actuation System Market.

Available Customizations:

Global Commercial Aircraft Actuation System Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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  - 13.1.9.1. Company Details
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- 13.1.10. Liebherr-International Deutschland GmbH
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  - 13.1.10.5. Recent Developments
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## **14. STRATEGIC RECOMMENDATIONS/ACTION PLAN**

- 14.1. Key Focus Areas
- 14.2. Target By Motion

### 14.3. Target By Actuator Type

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