

Global Aircraft Gearbox Market Size study, by Application (Engine, Airframe), by Component (Gear, Housing, Bearing, Others), by End Use (Commercial Aircraft, Military Aircraft, Helicopters), by Sales Channel (OEM, Aftermarket), and Regional Forecasts 2024-2032

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Abstracts

The global Aircraft Gearbox Market was valued at approximately USD 3.48 billion in 2023 and is expected to grow at a healthy CAGR of 6.5% during the forecast period from 2024 to 2032. Aircraft gearboxes are critical mechanical systems designed to transmit power from the engine to various aircraft components such as propellers, rotors, or generators. These gearboxes are essential for reducing the high rotational speeds of engines to levels suitable for optimal operation of these components, thereby ensuring enhanced efficiency and performance in both fixed-wing and rotary-wing aircraft. The demand for reliable and precision-engineered gearboxes is driven by the need for optimal thrust and fuel efficiency, which are critical in the highly competitive aerospace industry.

The growth of the Aircraft Gearbox Market is primarily propelled by the increasing air traffic and the consequent expansion of aircraft fleets globally. As disposable incomes rise and urbanization trends continue, there is a significant surge in air travel, prompting airlines to expand their fleets. This expansion drives the demand for aircraft gearboxes, as they are vital components in ensuring efficient power transmission and overall aircraft performance. Additionally, the ongoing technological advancements in gearbox design, including the use of lightweight and durable materials like composite materials and high-strength alloys, are enhancing gearbox performance, reducing overall aircraft weight, and improving fuel efficiency, thereby further fueling market growth. Moreover, the industry is witnessing a growing focus on fuel efficiency and adherence to

environmental regulations, which is also boosting the demand for advanced aircraft gearboxes. These gearboxes play a crucial role in optimizing engine performance, leading to reduced fuel consumption and lower emissions. As the aviation industry continues to prioritize sustainability, the demand for innovative and efficient gearbox solutions is expected to increase, contributing to the overall market expansion. Regionally, Asia Pacific is anticipated to hold a significant share of the global Aircraft Gearbox Market, driven by the rapid expansion of the aviation sector, increasing military spending, and the growing demand for commercial and military aircraft in the region. North America and Europe are also expected to witness substantial growth, supported by the presence of major aerospace manufacturers and ongoing advancements in aircraft technologies.

Major market players included in this report are:

AB Volvo
Lockheed Martin
Daimler AG
Navistar Defense
Iveco S.p.A.
General Dynamics Land Systems
Mitsubishi Heavy Industries, Ltd.
Oshkosh Corporation
Mahindra Emirates Vehicle Armouring
Renault Trucks Defense

The detailed segments and sub-segment of the market are explained below:

By Application:

- Engine
- Airframe

By Component:

- Gear
- Housing
- Bearing
- Others

By End Use:

- Commercial Aircraft
- Military Aircraft
- Helicopters

By Sales Channel:

- OEM
- Aftermarket

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

Latin America

- Brazil
- Mexico
- RoLA

Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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