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Global Aerospace & Defense C-Class Parts Market Size, Share & Trends Analysis Report, By Product (Fasteners, Bearings, Electrical Components, Machined Components), By Application (Engine, Aerostructure, Interiors, Equipment, System, and Support, Avionics), By End Use (Commercial, Military, Business & General Aviation, Others), and Regional Forecasts 2022-2032

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Abstracts

Global Aerospace & Defense C-Class Parts Market is valued at approximately USD 17.58 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.7% over the forecast period 2024-2032. The market is driven by increasing demand for lightweight and high-performance components that meet stringent aviation standards, fueled by advancements in aerospace technologies and growing geopolitical tensions worldwide.

Fasteners, one of the key product segments, dominated the market with a revenue share of 45.5% in 2023. Their essential role in maintaining the structural integrity of aircraft has driven their demand. Additionally, manufacturers are focusing on developing corrosion-resistant and lightweight fasteners to enhance aircraft safety and fuel efficiency. Bearings and machined components are also gaining significant traction due to their critical role in precision engineering and improving operational reliability across both commercial and military platforms.

The application of C-Class parts in aerostructures accounted for the largest market share of 47.9% in 2023, driven by increasing production rates in the commercial

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aviation and defense sectors. As airlines and governments prioritize fleet modernization, the need for robust and high-performance aerostructure components has surged. Moreover, the engine segment is expected to grow significantly over the forecast period, owing to the rising focus on fuel-efficient and environmentally sustainable propulsion systems.

The commercial aviation sector leads the market in terms of end use, contributing 60.7% of the revenue share in 2023. This dominance is attributed to increasing passenger traffic, fleet expansion, and growing investments by airlines in modern aircraft. The military sector, however, is projected to exhibit lucrative growth, spurred by heightened defense spending and modernization programs aimed at enhancing operational capabilities. Governments are channeling resources into advanced aircraft platforms, which require a consistent supply of C-Class parts for maintenance and upgrades.

Regional Insights - North America dominated the global aerospace & defense C-Class parts market in 2023, accounting for 37.6% of the revenue share. This is primarily due to its well-established aerospace manufacturing ecosystem, significant defense budgets, and robust supply chain networks. The presence of leading OEMs and MRO (maintenance, repair, and overhaul) facilities further strengthens the region's market position.

Europe also held a substantial market share in 2023, driven by increasing investments in sustainable aviation technologies and defense modernization. Countries like the UK and Germany are heavily investing in advanced manufacturing techniques and collaborations with global aerospace firms, creating opportunities for C-Class part manufacturers.

Asia Pacific is expected to witness the fastest CAGR of 7.7% during the forecast period, propelled by increasing defense budgets and indigenous aircraft production programs in countries such as China and India. The growing demand for C-Class parts is further supported by expanding airport infrastructure and the rapid growth of commercial aviation across the region.

Technological Advancements Driving Growth- Advancements in manufacturing technologies, including additive manufacturing, automation, and data analytics, are revolutionizing the production of aerospace components. Industry 4.0 technologies are enabling manufacturers to enhance precision, reduce production costs, and improve quality control. The integration of smart technologies, such as IoT-enabled systems,

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ensures efficient supply chain management and real-time monitoring, catering to the rising demand for high-quality C-Class parts.

Additionally, sustainable manufacturing practices are gaining momentum, with an increasing focus on reducing carbon footprints and improving material recyclability. Companies are developing lightweight materials such as titanium and composites to enhance fuel efficiency and reduce greenhouse gas emissions, aligning with global environmental goals.

Major market players included in this report are:

1. Stanley Black & Decker, Inc.

2. Amphenol Corporation

3. LiSi Group

4. Precision Castparts Corp.

5. Safran SA

6. Arconic

7. Triumph Group

8. Eaton

9. Collins Aerospace

10. KLX Aerospace Solutions

11. PCC Fasteners

12. 3V Fasteners Company Inc.

13. Boeing Distribution Services Inc.

14. Allfast Fastening Systems

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15. Bombardier Inc.

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

By Product

- Fasteners
- Bearings
- Electrical Components
- Machined Components

By Application

- Engine
- Aerostructure
- Interiors
- Equipment, System, and Support
- Avionics

By End Use

- Commercial
- Military
- Business & General Aviation
- Others

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By Region:

- North America
- U.S.
- Canada
- Mexico
- Europe
- UK
- Germany
- France
- Italy
- Spain
- Rest of Europe
- Asia Pacific
- China
- Japan
- India
- Australia
- South Korea
- Rest of Asia Pacific
- Latin America

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Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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.

Demand-side and supply-side analysis of the market.

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